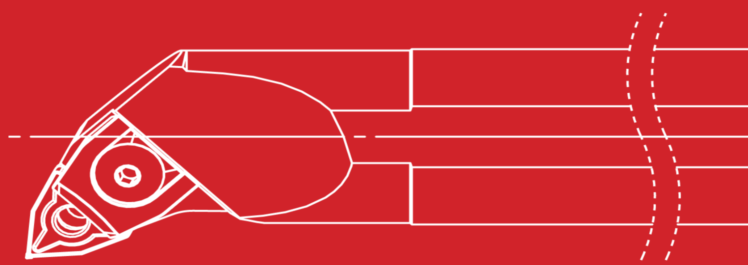
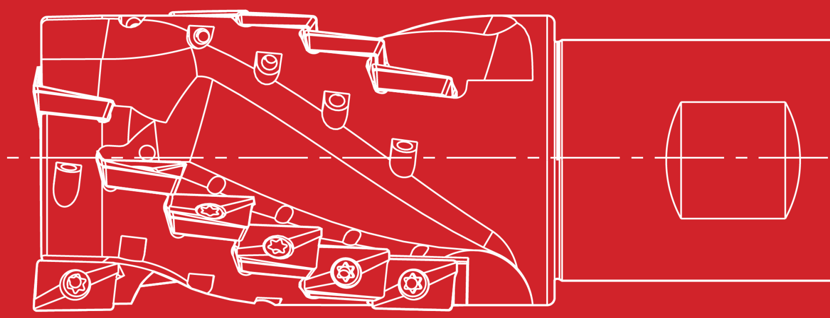
IMPLEMENTS

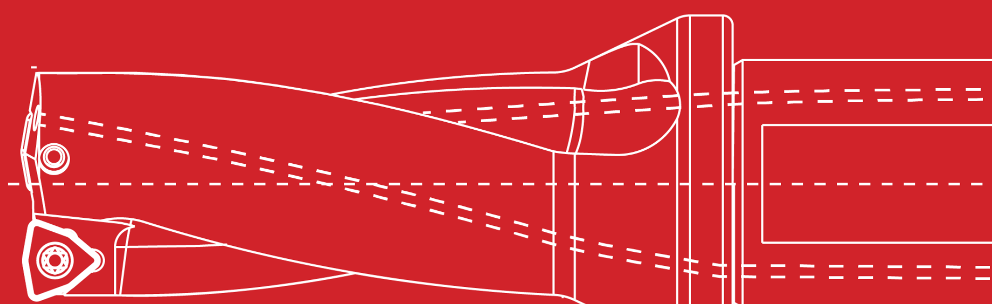
TIZ IMPLEMENTS
GREEN LINE



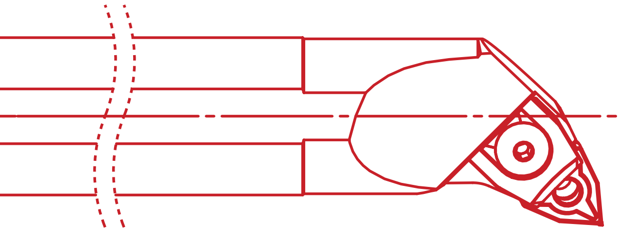
TURNING
TOCZENIE

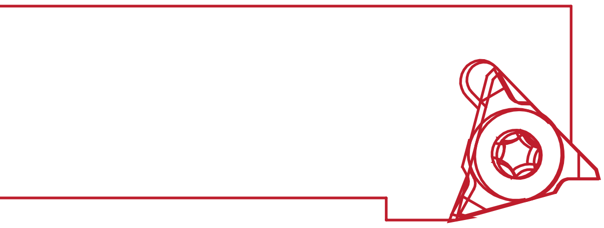


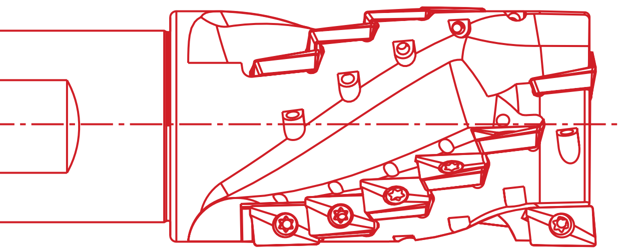
MILLING
FREZOWANIE

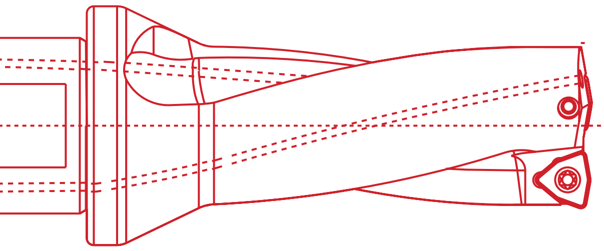


DRILLING
WIERCENIE



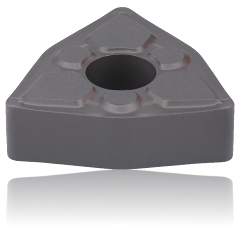




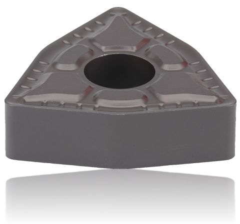


CHIP BREAKERS APPLICATION AREA ZASTOSOWANIE ŁAMACZY WIÓRÓW

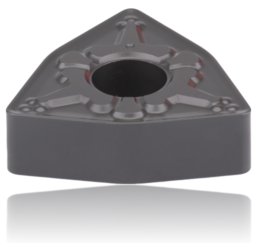
CF
FOR FINISHING



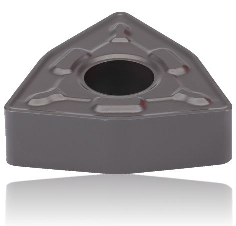
CM
FOR MEDIUM

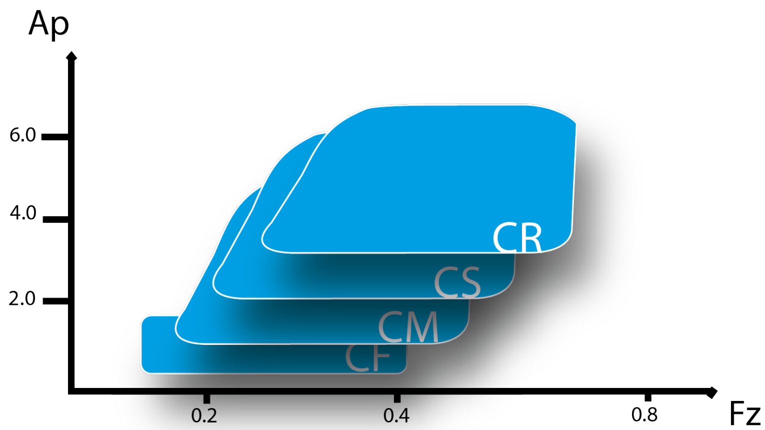


CS
GENERAL

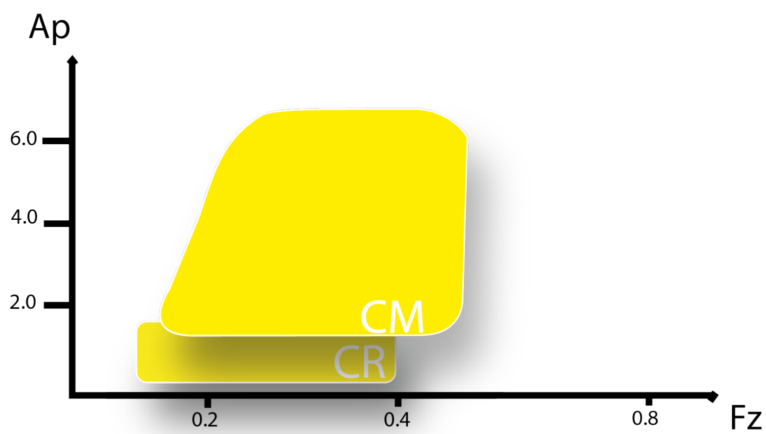


CR
FOR ROUGH

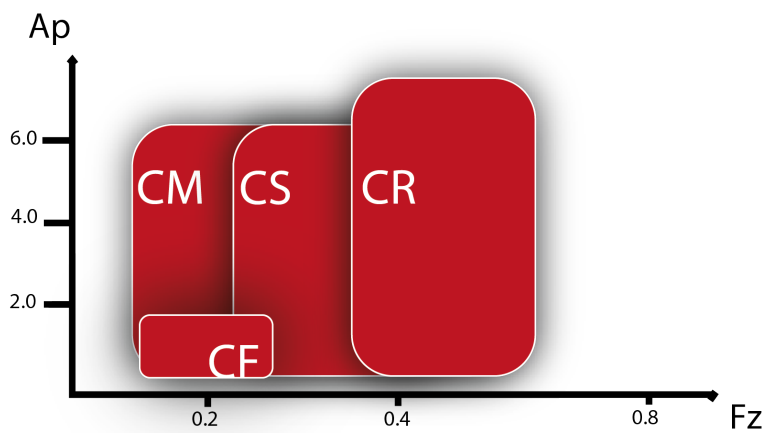




P - ALLOY STEEL



M - STAINLESS STEEL



K - CAST IRON

GRADES APPLICATION AREA ZASTOSOWANIE GATUNKÓW

TURNING TOCZENIE

<table>
<tr><th colspan="6">P
STEEL
STAL</th><th colspan="6">M
STAINLESS STEEL
STAL NIERDZENA</th><th colspan="5">K
CAST IRON
ŻELIWO</th></tr>
<tr><td>P01</td><td>P10</td><td>P20</td><td>P30</td><td>P40</td><td>P50</td><td>M01</td><td>M10</td><td>M20</td><td>M30</td><td>M40</td><td>M50</td><td>K01</td><td>K10</td><td>K20</td><td>K30</td><td>K40</td></tr>
<tr><td></td><td colspan="2">P1000</td><td></td><td></td><td></td><td></td><td colspan="2">P1000</td><td></td><td></td><td></td><td></td><td colspan="2">P1000</td><td></td><td></td></tr>
<tr><td colspan="3">P7000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">P7000</td><td></td><td></td></tr>
<tr><td></td><td colspan="3">P6000</td><td></td><td></td><td></td><td colspan="2">P6000</td><td></td><td></td><td></td><td></td><td colspan="3">P6000</td><td></td></tr>
<tr><td></td><td></td><td colspan="3">P5000</td><td></td><td></td><td></td><td colspan="2">P5000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table>

THREAD TURNING TOCZENIE GWINTÓW

<table>
<tr><th colspan="4">P
STEEL
STAL</th><th colspan="4">M
STAINLESS STEEL
STAL NIERDZENA</th><th colspan="4">K
CAST IRON
ŻELIWO</th><th colspan="4">N
ALUMINIUM
ALUMINIUM</th><th colspan="4">S
HEAT RESISTENT/ TITANIUM ALLOYS
ODPORNE NA CIEPŁO/ STOPY TYTANU</th><th colspan="4">H
HARDENED MATERIALS
STAL HARTOWANA</th></tr>
<tr><td>P10</td><td>P20</td><td>P30</td><td>P40</td><td>M10</td><td>M20</td><td>M30</td><td>M40</td><td>K10</td><td>K20</td><td>K30</td><td>K40</td><td>N10</td><td>N20</td><td>N30</td><td>N40</td><td>S10</td><td>S20</td><td>S30</td><td>S40</td><td>H10</td><td>H20</td><td>H30</td><td>H40</td></tr>
<tr><td></td><td colspan="2">P508</td><td></td><td></td><td colspan="2">P508</td><td></td><td colspan="2">P508</td><td></td><td></td><td colspan="3">P508</td><td></td><td colspan="2">P508</td><td></td><td></td><td colspan="3">P508</td><td></td></tr>
<tr><td></td><td colspan="2">P509</td><td></td><td></td><td colspan="3">P509</td><td colspan="2">P509</td><td></td><td></td><td></td><td colspan="3">P509</td><td></td><td colspan="2">P509</td><td></td><td></td><td colspan="3">P509</td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">P511</td><td></td><td></td><td colspan="3">P511</td><td></td><td colspan="3">P511</td><td></td><td></td><td></td><td></td></tr>
</table>

MILLING FREZOWANIE

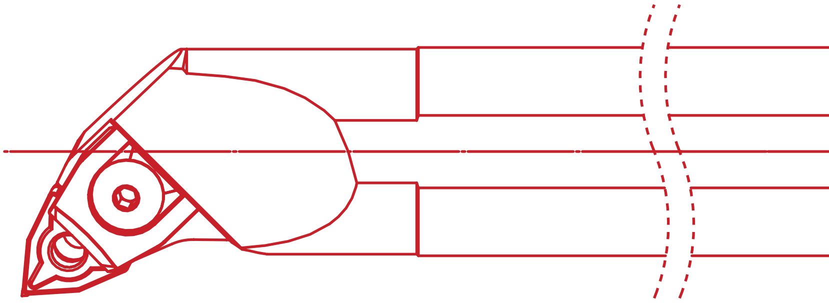
<table>
<tr><th colspan="6">P
STEEL
STAL</th><th colspan="6">M
STAINLESS STEEL
STAL NIERDZENA</th><th colspan="5">K
CAST IRON
ŻELIWO</th></tr>
<tr><td>P01</td><td>P10</td><td>P20</td><td>P30</td><td>P40</td><td>P50</td><td>M01</td><td>M10</td><td>M20</td><td>M30</td><td>M40</td><td>M50</td><td>K01</td><td>K10</td><td>K20</td><td>K30</td><td>K40</td></tr>
<tr><td></td><td colspan="3">P3000</td><td></td><td></td><td></td><td colspan="2">P3000</td><td></td><td></td><td></td><td></td><td colspan="2">P3000</td><td></td><td></td></tr>
</table>

DRILLING WIERCENIE

<table>
<tr><th colspan="6">P
STEEL
STAL</th><th colspan="6">M
STAINLESS STEEL
STAL NIERDZENA</th><th colspan="5">K
CAST IRON
ŻELIWO</th></tr>
<tr><td>P01</td><td>P10</td><td>P20</td><td>P30</td><td>P40</td><td>P50</td><td>M01</td><td>M10</td><td>M20</td><td>M30</td><td>M40</td><td>M50</td><td>K01</td><td>K10</td><td>K20</td><td>K30</td><td>K40</td></tr>
<tr><td></td><td colspan="3">P3000</td><td></td><td></td><td></td><td colspan="2">P3000</td><td></td><td></td><td></td><td></td><td colspan="2">P3000</td><td></td><td></td></tr>
</table>

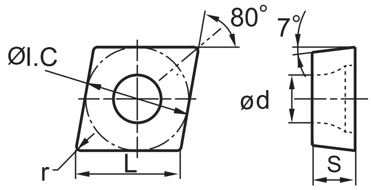
Grade P500 is under development

TURNING
TOCZENIE



POSITIVE INSERTS PŁYTKI DODATNIE

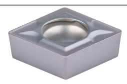
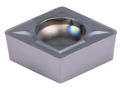
CC



	P1000	P3000	P5000	P6000	P7000
	PVD			CVD	
P	●			◐	
M	●			◐	
K	●			◐	
N					
S					
H					

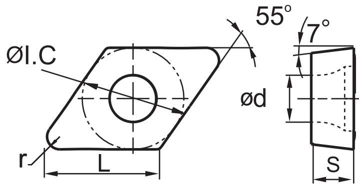
CCMT		L	I.C.	S	d
06	02	6.4	6.35	2.38	2.8
09	T3	9.7	9.525	3.97	4.4
12	04	12.9	12.7	4.76	5.56

● Ideal machining conditions / Idealne warunki obróbki
◐ Normal machining conditions / Normalne warunki obróbki
✜ Unfavourable machining conditions / Niekorzystne warunki obróbki

INSERT SHAPE KSZTAŁT PŁYTKI	DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
MEDIUM ŚREDNIA	CCMT060204CM	0.40	0.30-2.10	0.12-0.18	●				
	CCMT09T304CM	0.40	0.30-3.00	0.14-0.22	●			●	
	CCMT09T308CM	0.80	0.50-4.00	0.14-0.22	●			●	
	CCMT120408CM	0.80	0.50-5.00	0.18-0.30	●			●	

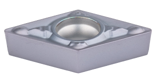
DC



	P1000	P3000	P5000	P6000	P7000
	PVD			CVD	
P	●			◐	
M	●			◐	
K	●			◐	
N					
S					
H					

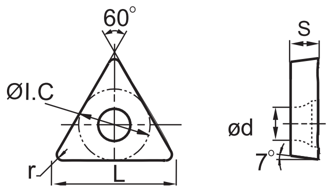
DC**		L	I.C.	S	d
07	02	7.8	6.35	2.38	2.8
11	T3	11.6	9.525	3.97	4.4

● Ideal machining conditions / Idealne warunki obróbki
◐ Normal machining conditions / Normalne warunki obróbki
✜ Unfavourable machining conditions / Niekorzystne warunki obróbki



INSERT SHAPE KSZTAŁT PŁYTKI	DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
MEDIUM ŚREDNIA	DCMT070204CM	0.40	0.30-3.00	0.08-0.18	●				
	DCMT11T304CM	0.40	0.30-2.10	0.06-0.17	●			●	
	DCMT11T308CM	0.80	0.30-3.00	0.08-0.18	●			●	

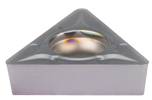
TC



	P1000	P3000	P5000	P6000	P7000
	PVD			CVD	
P	●			◐	
M	●			◐	
K	●			◐	
N					
S					
H					

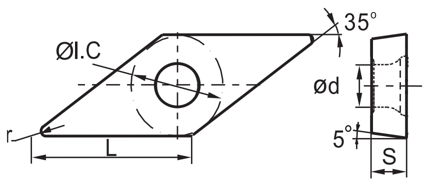
TCMT		L	I.C.	S	d
09	02	9.63	5.56	2.38	2.5
11	02	11	6.35	2.38	2.8
16	T3	16.5	9.525	3.97	4.4

● Ideal machining conditions / Idealne warunki obróbki
◐ Normal machining conditions / Normalne warunki obróbki
✜ Unfavourable machining conditions / Niekorzystne warunki obróbki



INSERT SHAPE KSZTAŁT PŁYTKI	DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
MEDIUM ŚREDNIA	TCMT110204CM	0.40	0.30-2.10	0.08-0.17	●				
	TCMT16T304CM	0.40	0.30-3.00	0.08-0.18	●			●	
	TCMT16T308CM	0.80	0.50-5.00	0.12-0.35	●			●	

VB



	P1000	P3000	P5000	P6000	P7000
	PVD			CVD	
P	●				
M	●				
K	●				
N					
S					
H					

VB**		L	I.C.	S	d
11	02	11	6.35	2.38	2.8
11	03	11	6.35	3.18	2.8
16	04	16.5	9.525	4.76	4.4

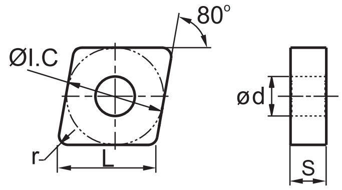
● Ideal machining conditions / Idealne warunki obróbki
◐ Normal machining conditions / Normalne warunki obróbki
✜ Unfavourable machining conditions / Niekorzystne warunki obróbki

INSERT SHAPE KSZTAŁT PŁYTKI	DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
MEDIUM ŚREDNIA	VBMT160404CM	0.40	0.30-2.50	0.10-0.20	●				
	VBMT160408CM	0.80	0.40-2.50	0.14-0.24	●				

● For P, M, K materials
● For K material only

NEGATIVE INSERTS PŁYTKI UJEMNE

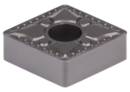
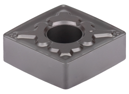
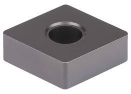
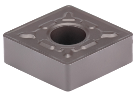
CN



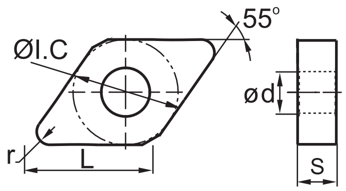
	P1000	P3000	P5000	P6000	P7000
P	🔵			◐ (🔵)	🔵
M	🟡			◐ (🟡)	🟡
K	🔴			◐ (🔴)	🔴
N					
S					
H					
	PVD		CVD		

CNMG		L	I.C.	S	d
09	03	9.7	9.525	3.18	3.81
12	04	12.9	12.7	4.76	5.16

● Ideal machining conditions / Idealne warunki obróbki
◐ Normal machining conditions / Normalne warunki obróbki
✤ Unfavourable machining conditions / Niekorzystne warunki obróbki

INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000 (PVD)	P3000 (PVD)	P5000 (CVD)	P6000 (CVD)	P7000 (CVD)
	FINISHING WYKOŃCZENIOWA	CNMG120404CF	0.40	0.30-1.50	0.10-0.40	●			●	
		CNMG120408CF	0.80	0.40-1.50	0.10-0.40				●	
	MEDIUM ŚREDNIA	CNMG120408CM	0.80	0.40-5.50	0.14-0.30	●			●	
		CNMG120412CM	1.20	0.70-5.50	0.14-0.30				●	
		CNMG120408CS	0.80	0.50-7.00	0.24-0.45				●	●
		CNMA120408	0.80	0.20-8.00	0.15-0.60					🔴
		CNMA120412	1.20	0.40-8.00	0.15-0.60					🔴
	ROUGHING ZGRUBNA	CNMG120408CR	0.80	0.70-7.00	0.34-0.50				●	
		CNMG120412CR	1.20	0.70-7.00	0.34-0.50				●	
		CNMG120412CS	1.20	0.80-7.00	0.24-0.45				●	●

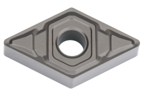
DN



	P1000	P3000	P5000	P6000	P7000
P				◐ (🔵)	
M				◐ (🟡)	
K				◐ (🔴)	
N					
S					
H					
	PVD		CVD		

DNMG		L	I.C.	S	d
09	03	9.7	9.525	3.18	3.81
15	06	15.5	12.7	6.35	5.16

● Ideal machining conditions / Idealne warunki obróbki
◐ Normal machining conditions / Normalne warunki obróbki
✤ Unfavourable machining conditions / Niekorzystne warunki obróbki

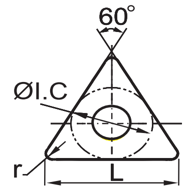
INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000 (PVD)	P3000 (PVD)	P5000 (CVD)	P6000 (CVD)	P7000 (CVD)
	FINISHING WYKOŃCZENIOWA	DNMG150608CF	0.80	0.30-1.50	0.10-0.40				●	
	MEDIUM ŚREDNIA	DNMG150608CM	0.80	0.50-5.00	0.14-0.42				●	
		DNMG150612CS	1.20	0.60-5.50	0.18-0.50				●	

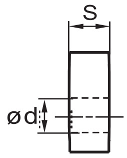
● For P, M, K materials
🔴 For K material only

🔵 Grade P500 is under development

NEGATIVE INSERTS PŁYTKI UJEMNE

TN

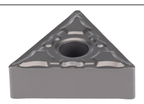
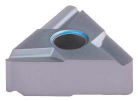
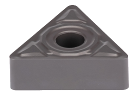
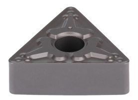
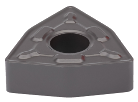
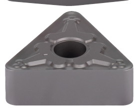




	P1000	P3000	P5000	P6000	P7000
P	●			◐	●
M	●			◐	●
K	●			◐	●
N					
S					
H					
	PVD			CVD	

TN**		L	I.C.	S	d
16	04	16.5	9.525	4.76	3.81
22	04	22	12.7	4.76	5.16
27	06	27.5	15.875	6.35	6.35

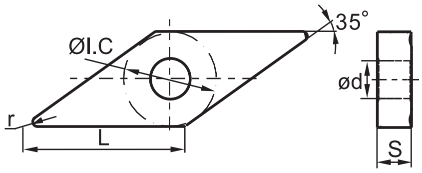
- ● Ideal machining conditions / Idealne warunki obróbki
- ◐ Normal machining conditions / Normalne warunki obróbki
- ◐ (red) Unfavourable machining for Cast Iron / Niekorzystne warunki obróbki do żeliwa
- ✚ Unfavourable machining conditions / Niekorzystne warunki obróbki

INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	FINISHING WYKOŃCZENIOWA	TNMG160404CF	0.40	0.30-1.50	0.10-0.40	●			●	
		TNMG160408CF	0.80	0.40-2.50	0.10-0.40	●			●	
		TNMA160408	0.80	0.40-7.00	0.15-0.60					🔴
		TNUX160404RCS	0.40	0.30-2.50	0.10-0.20	●				
		TNUX160408RCS	0.80	0.40-2.50	0.14-0.24	●				
	MEDIUM ŚREDNIA	TNMG160404CM	0.40	0.40-5.00	0.14-0.42	●				
		TNMG160408CM	0.80	0.50-5.00	0.14-0.42	●			●	
		TNMG160408CS	0.80	0.60-5.50	0.18-0.50				●	
	ROUGHING ZGRUBNA	TNMG160408CR	0.80	0.70-6.00	0.34-0.55				●	
		TNMG160412CR	1.20	0.70-6.00	0.34-0.55				●	
		TNMG160412CS	1.20	0.80-5.50	0.18-0.50				●	
		TNMA160412	1.20	0.80-5.50	0.18-0.50					🔴

- ● For P, M, K materials
- 🔴 For K material only
- 🔵 Grade P500 is under development

NEGATIVE INSERTS PŁYTKI UJEMNE

VN



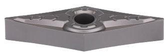
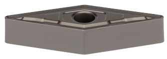
	P1000	P3000	P5000	P6000	P7000
P				◐	
M				◐	
K				◐	
N					
S					
H					
	PVD			CVD	

VN**		L	I.C.	S	d
16	04	16.6	9.525	4.76	3.81

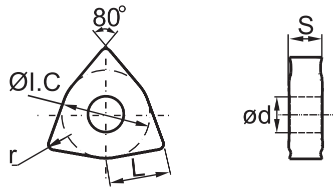
● Ideal machining conditions
Idealne warunki obróbki

◐ Normal machining conditions
Normalne warunki obróbki

✚ Unfavourable machining conditions
Niekorzystne warunki obróbki

INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	FINISHING WYKOŃCZENIOWA	VNMG160404CF	0.40	0.25-1.50	0.08-0.30				●	
	MEDIUM ŚREDNIA	VNMG160408CM	0.80	0.35-1.50	0.08-0.30				●	

WN



	P1000	P3000	P5000	P6000	P7000
P				◐	🔵
M				◐	🟡
K				◐	🔴
N					
S					
H					
	PVD			CVD	

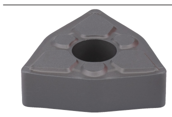
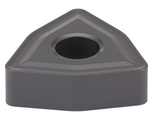
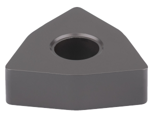
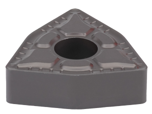
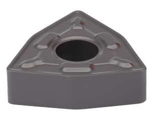
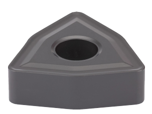
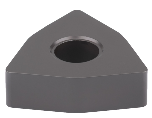
WN**		L	I.C.	S	d
06	T3	6.5	9.525	3.97	3.81
08	04	8.7	12.7	4.76	5.16

● Ideal machining conditions
Idealne warunki obróbki

◐ Normal machining conditions
Normalne warunki obróbki

◐ Unfavourable machining for Cast Iron
Niekorzystne warunki obróbki do żeliwa

✚ Unfavourable machining conditions
Niekorzystne warunki obróbki

INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	FINISHING WYKOŃCZENIOWA	WNMG080404CF	0.40	0.3-1.5	0.10-0.40				●	
	FINISHING WYKOŃCZENIOWA	WNMG080408CF	0.80	0.4-1.5	0.10-0.40				●	
	FINISHING WYKOŃCZENIOWA	WNMG080408CS	0.80	0.5-7	0.24-0.45				●	●
	FINISHING WYKOŃCZENIOWA	WNMA080408	0.80	0.20-8.00	0.15-0.60					🔴
	MEDIUM ŚREDNIA	WNMG080408CM	0.80	0.4-5.50	0.14-0.30				●	
	ROUGHING ZGRUBNA	WNMG080408CR	0.80	0.70-7.00	0.34-0.50				●	
	ROUGHING ZGRUBNA	WNMG080412CR	1.20	0.10-7.00	0.34-0.50				●	
	ROUGHING ZGRUBNA	WNMG080412CS	1.20	0.80-7.00	0.24-0.45				●	●
	ROUGHING ZGRUBNA	WNMA080412	1.20	0.40-8.00	0.15-0.60					🔴

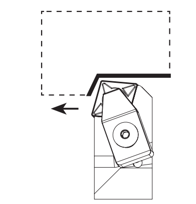
● For P, M, K materials

🔴 For K material only

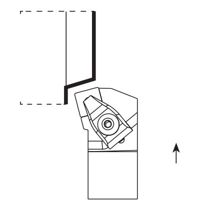
🔵 Grade P500 is under development

TOOLHOLDER LIST LISTA NARZĘDZI

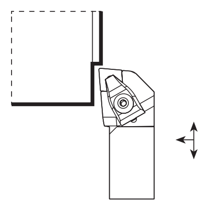
EXTERNAL T-SYSTEM
ZEWNĘTRZNY T-SYSTEM



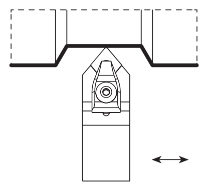
TCBN p.17



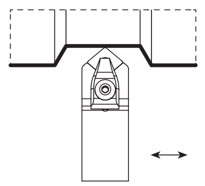
TCKNR p.17



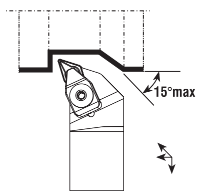
TCLNR p.17



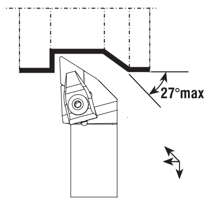
TCMN p.18



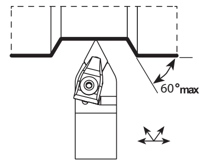
TCZN p.18



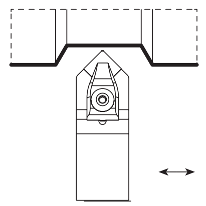
TDHN p.18



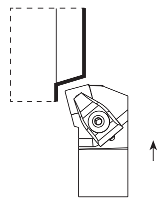
TDJN p.19



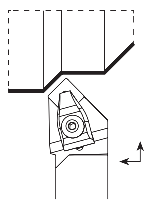
TDNN p.19



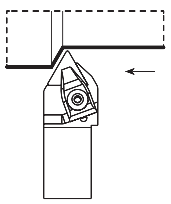
TSDN p.20



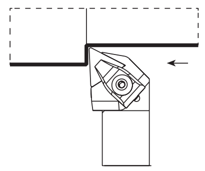
TSKN p.20



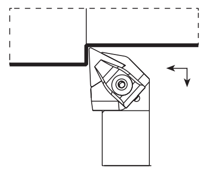
TSSN p.19



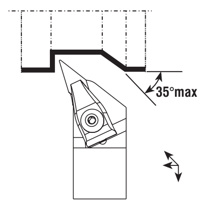
TTEN p.20



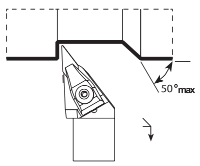
TTGN p.21



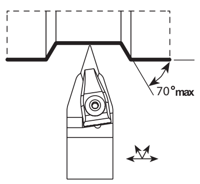
TTJN p.21



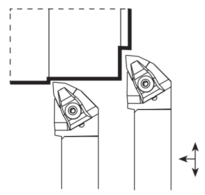
TVHN p.21



TVJN p.22

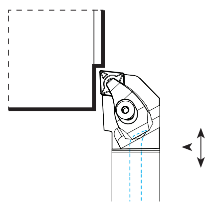


TVVN p.22

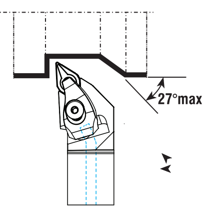


TWLN p.22

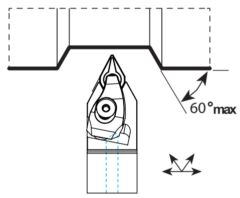
EXTERNAL T-SYSTEM WITH COOLING
ZEWNĘTRZNY T-SYSTEM Z CHŁODZENIEM



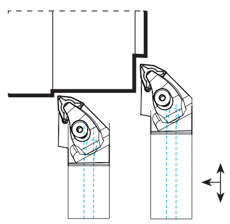
TCLN p.23



TDJN p.23



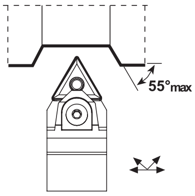
TDNN p.24

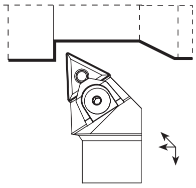
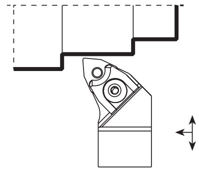
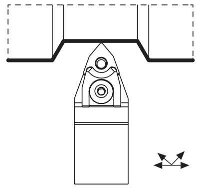


TWLN p.24

TOOLHOLDER LIST LISTA NARZĘDZI

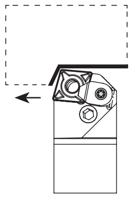
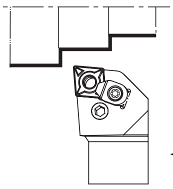
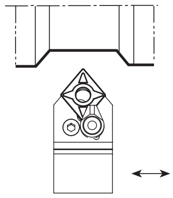
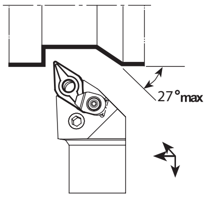
EXTERNAL M-SYSTEM
ZEWNĘTRZNY M-SYSTEM

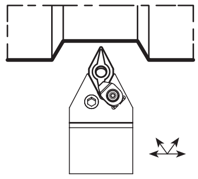


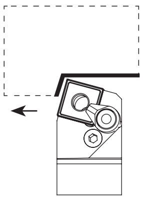
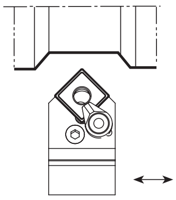
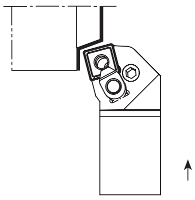
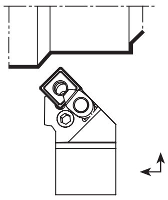
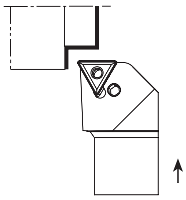
MTEN	p.25	MTJN	p.25	MWLN	p.25	MWMN	p.25

EXTERNAL P-SYSTEM
ZEWNĘTRZNY P-SYSTEM

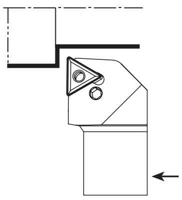
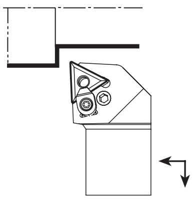
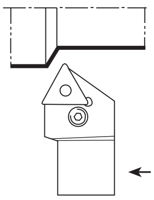
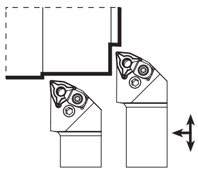







PCBN	p.27	PCLN	p.27	PCMN	p.28	PDJN	p.28	PDNN	p.29

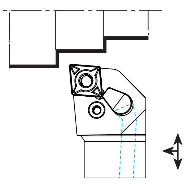
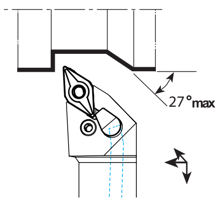






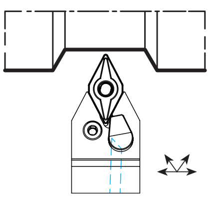
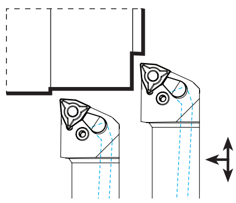
PSBN	p.29	PSDN	p.30	PSKN	p.30	PSSN	p.31	PTFN	p.31

PTGN	p.32	PTJN	p.32	PTTN	p.33	PWLN	p.33

EXTERNAL P-SYSTEM WITH COOLING
ZEWNĘTRZNY P-SYSTEM Z CHŁODZENIEM

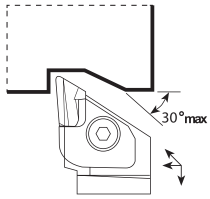



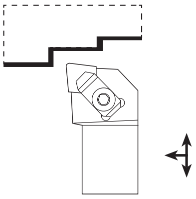



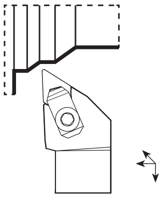
PCLN	p.34	PDJN	p.34	PDNN	p.35	PWLN	p.35

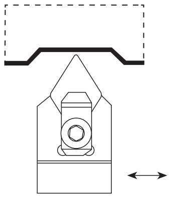
TOOLHOLDER LIST LISTA NARZĘDZI

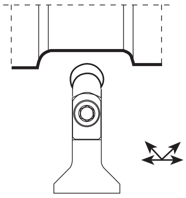
EXTERNAL C-SYSTEM
ZEWNĘTRZNY C-SYSTEM

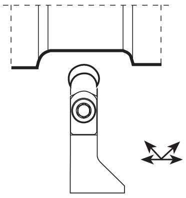


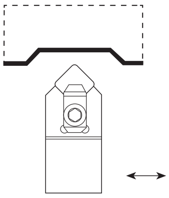


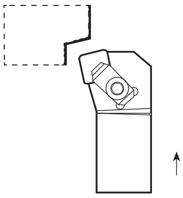


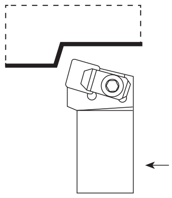


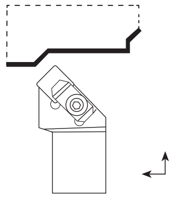


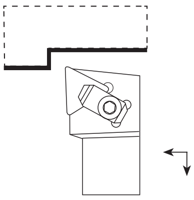




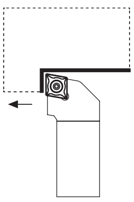


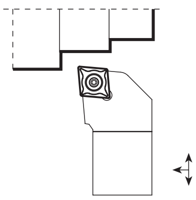


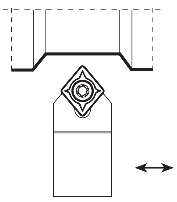


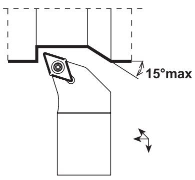


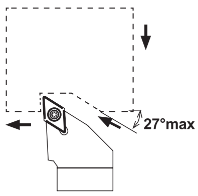
EXTERNAL S-SYSTEM
ZEWNĘTRZNY S-SYSTEM

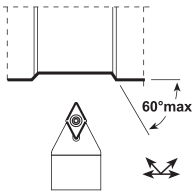


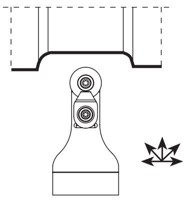


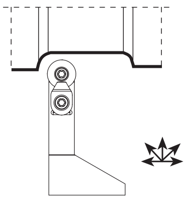


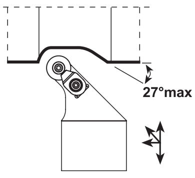


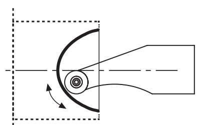






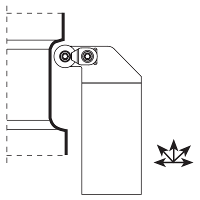
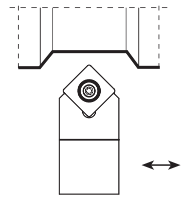
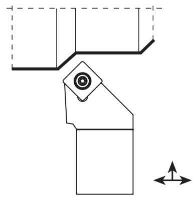
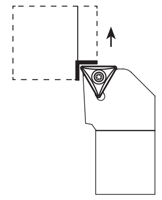
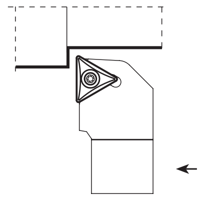
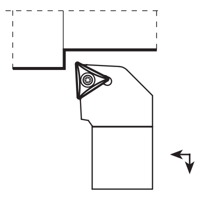
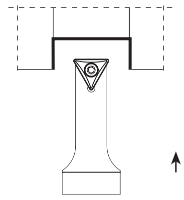
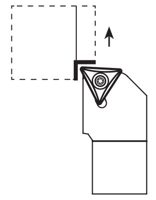
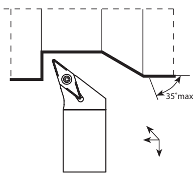
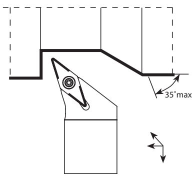
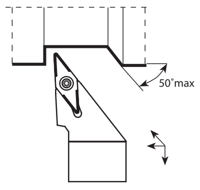
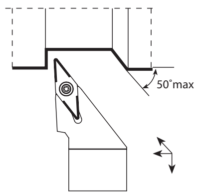
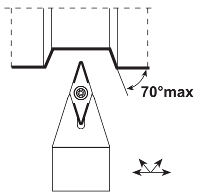
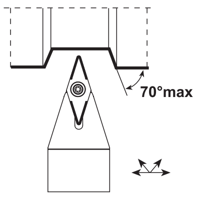






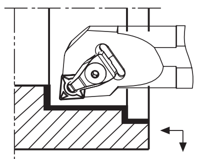
TOOLHOLDER LIST LISTA NARZĘDZI

EXTERNAL S-SYSTEM
ZEWNĘTRZNY S-SYSTEM

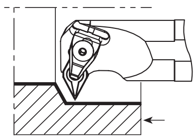
									
SRXC	p.44	SSDC	p.44	SSSC	p.44	STFC	p.45	STGC	p.45
									
STJC	p.46	STCC	p.46	STUC	p.46	SVHB	p.47	SVHC	p.47
									
SVJB	p.47	SVJC	p.48	SVVB	p.48	SVVC	p.48		

TOOLHOLDER LIST LISTA NARZĘDZI

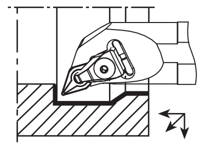
INTERNAL T-SYSTEM
WEWNĘTRZNY T-SYSTEM



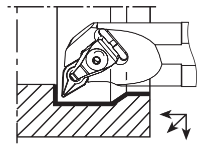
TCLN	p.49



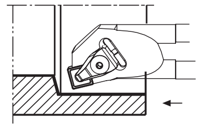
TD-N	p.49



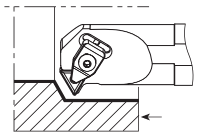
TDQN	p.49



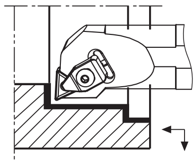
TDUN	p.50



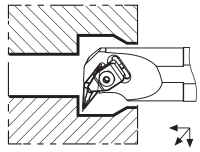
TSKN	p.50



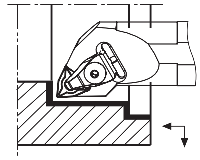
TT-N	p.50



TTUN	p.51

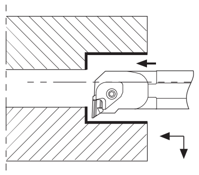


TUVN	p.51



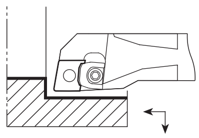
TWLN	p.51

INTERNAL C-SYSTEM
WEWNĘTRZNY C-SYSTEM

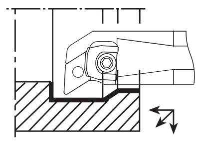


CKUN	p.52

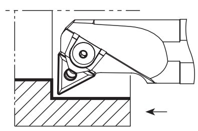
INTERNAL M-SYSTEM
WEWNĘTRZNY M-SYSTEM



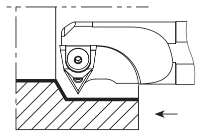
MCLN	p.53



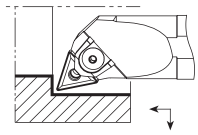
MDUN	p.53



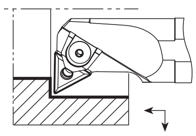
MTFN	p.53



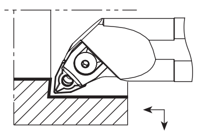
MT-N	p.54



MTQN	p.54



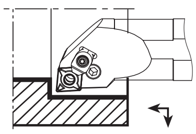
MTUN	p.54



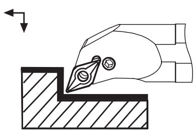
MWLN	p.55

TOOLHOLDER LIST LISTA NARZĘDZI

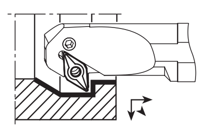
INTERNAL P-SYSTEM
WEWNĘTRZNY P-SYSTEM



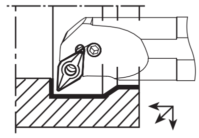
PCLN	p.56



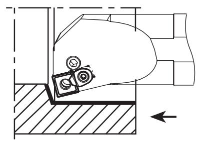
PDQN	p.57



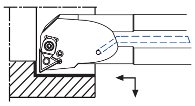
PDXN	p.57



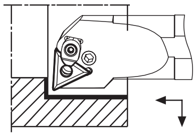
PDUN	p.58



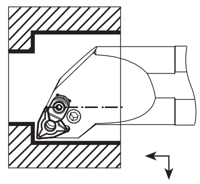
PSKN	p.58



PTFN	p.59

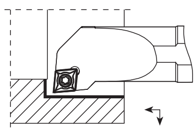


PTUN	p.59

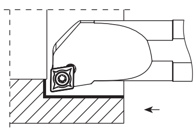


PWLN	p.60

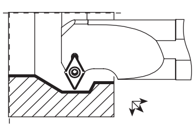
INTERNAL S-SYSTEM
WEWNĘTRZNY S-SYSTEM



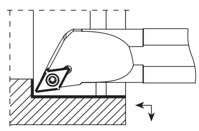
SCLC	p.61



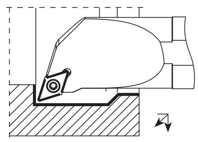
SCFC	p.61



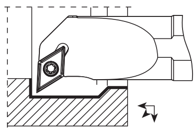
SD-C	p.62



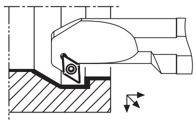
SDPC	p.62



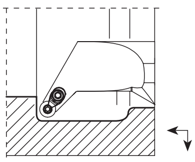
SDQC	p.63



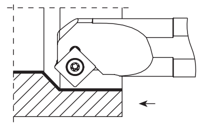
SDUC	p.63



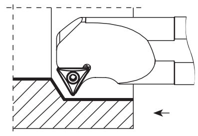
SDXC	p.64



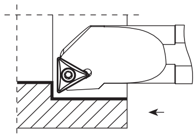
SRGC	p.64



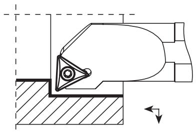
SSSC	p.65



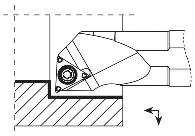
ST-C	p.65



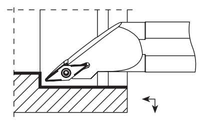
STFC	p.66



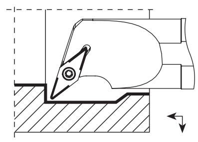
STUC	p.66



STUP	p.65



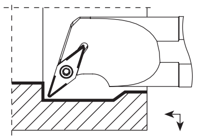
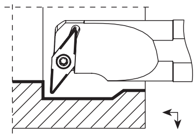
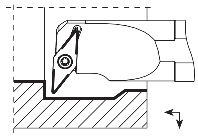
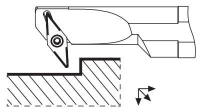
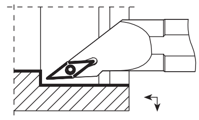
SVJB	p.67



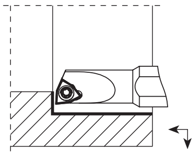
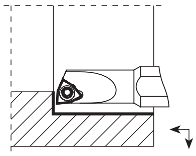
SVQB	p.67

TOOLHOLDER LIST LISTA NARZĘDZI

INTERNAL S-SYSTEM
WEWNĘTRZNY S-SYSTEM

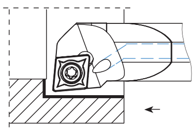
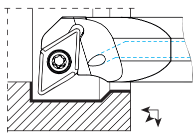
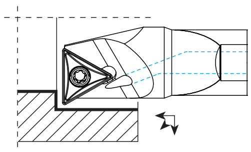
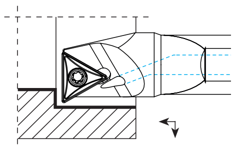






SVQC	p.68	SVUB	p.68	SVUC	p.68	SVXB	p.69	SVJC	p.69

SWLC	p.69	SWUB	p.69

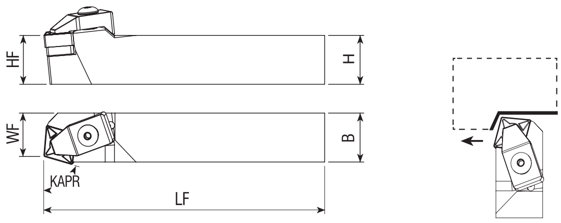
INTERNAL S-SYSTEM WITH COOLING
WEWNĘTRZNY T-SYSTEM Z CHŁODZENIEM

SCLC	p.70	SDUC	p.70	STFC	p.70	STUP	p.70

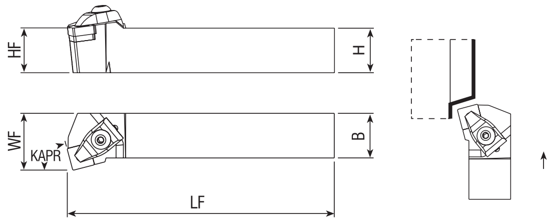
INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

TCBN



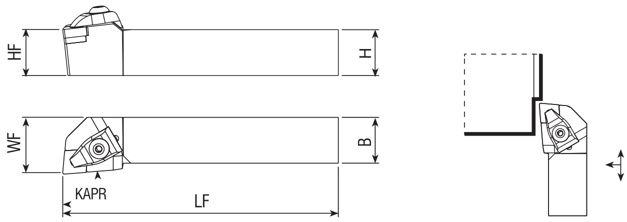
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TCBNR/L 2525 M16	25	25	150	22	CNM. 1606..	TTK04	TKV19M7x25	TTCN30002	TTV05M6x15	TS02	TBPL02	TTL054

TCKN



ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TCKNR/L 2020 K12	20	20	125	25	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCKNR/L 2525 M12	25	25	150	32	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCKNR/L 3232 P12	32	32	170	40	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCKNR/L 2525 M16	25	25	150	32	CNM. 1606..	TTK04	TKV19M7x25	TTCN30002	TTV05M6x15	TS02	TBPL02	TTL054
TCKNR/L 3232 P16	32	32	170	40	CNM. 1606..	TTK04	TKV19M7x25	TTCN30002	TTV05M6x15	TS02	TBPL02	TTL054

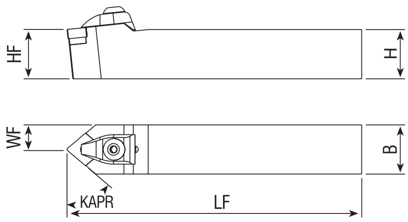
TCLN

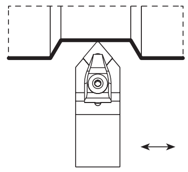


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TCLNR/L 2020 K12	20	20	125	25	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCLNR/L 2525 M12	25	25	150	32	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCLNR/L 3232 P12	32	32	170	40	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCLNR/L 4040 S12	40	40	250	50	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCLNR/L 5050 S12	50	50	250	63	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCLNR/L 2525 M16	25	25	150	32	CNM. 1606..	TTK04	TKV19M7x25	TTCN30002	TTV05M6x15	TS02	TBPL02	TTL054
TCLNR/L 3232 P16	32	32	170	40	CNM. 1606..	TTK04	TKV19M7x25	TTCN30002	TTV05M6x15	TS02	TBPL02	TTL054

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

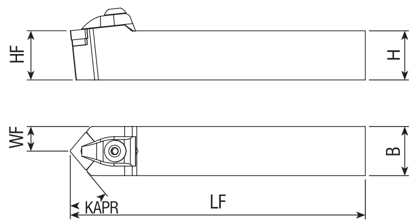
TCMN

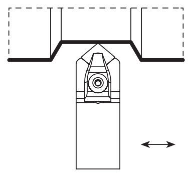




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TCMNN 1616 H12	16	16	100	8	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCMNN 2020 K12	20	20	125	10	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCMNN 2525 M12	25	25	150	12,5	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCMNN 3232 P12	32	32	170	16	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCMNN 2525 M16	25	25	150	12,5	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCMNN 3232 P16	32	32	170	16	CNM. 1606..	TTK04	TKV19M7x25	TTCN30002	TTV05M6x15	TS02	TBPL02	TTL054
TCMNN 4040 S16	40	40	250	20	CNM. 1606..	TTK04	TKV19M7x25	TTCN30002	TTV05M6x15	TS02	TBPL02	TTL054

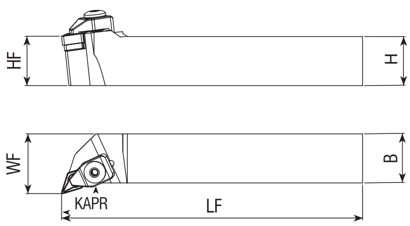
TCZN

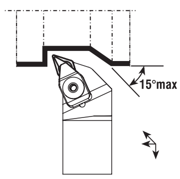




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TCZNN 2020 K12	20	20	125	10	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCZNN 2525 M12	25	25	150	12,5	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCZNN 3232 P12	32	32	170	16	CNM. 1204..	TTK02	TKV30M6x22	TTCN30001	TTV02M5x12	TS01	TBPL01	TTL033
TCZNN 2525 M16	25	25	150	12,5	CNM. 1606..	TTK04	TKV19M7x25	TTCN30002	TTV05M6x15	TS02	TBPL02	TTL054
TCZNN 3232 P16	32	32	170	16	CNM. 1606..	TTK04	TKV19M7x25	TTCN30002	TTV05M6x15	TS02	TBPL02	TTL054

TDHN

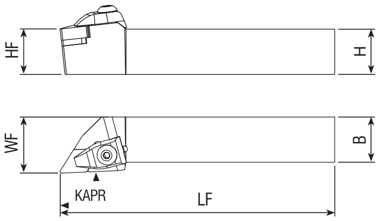


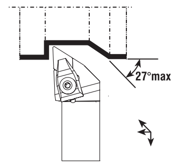


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TDHNR/L 2525 M11	25	25	150	31	DNM. 1104..	TTK01	TKV01M5x22	TTDN2001	TTV04M5x12	-	TBPL01	TTL033
TDHNR/L 2020 K15	20	20	125	25	DNM. 1104..	TTK01	TKV01M5x22	TTDN2001	TTV04M5x12	-	TBPL01	TTL033
TDHNR/L 2525 M15	25	25	150	32	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
TDHNR/L 3232 P15	32	32	170	40	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

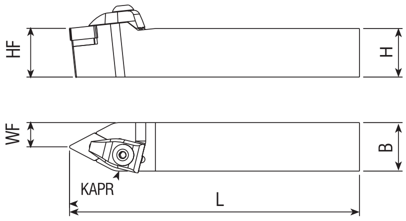
TDJN

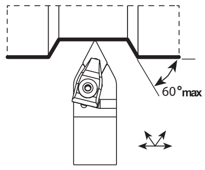




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TDJNR/L 1616 H11	16	16	100	20	DNM. 1104..	TTK01	TKV01M5x22	TTDN20001	TTV04M5x12	TS01	TBPL01	TTL033
TDJNR/L 2020 K11	20	20	125	25	DNM. 1104..	TTK01	TKV01M5x22	TTDN20001	TTV04M5x12	TS01	TBPL01	TTL033
TDJNR/L 2525 M11	25	25	150	32	DNM. 1104..	TTK01	TKV01M5x22	TTDN20001	TTV04M5x12	TS01	TBPL01	TTL033
TDJNR/L 2020 K15	20	20	125	25	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
TDJNR/L 2525 M15	25	25	150	32	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
TDJNR/L 3232 P15	32	32	170	40	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
TDJNR/L 4040 S15	40	40	250	50	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
TDJNR/L 5050 S15	50	50	250	63	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
TDJNR/L 2020 K1504	20	20	125	25	DNM. 1504..	TTK02	TKV30M6x22	TTDN20003	TTV02M5x12	TS01	TBPL01	TTL033
TDJNR/L 2525 M1504	25	25	150	32	DNM. 1504..	TTK02	TKV30M6x22	TTDN20003	TTV02M5x12	TS01	TBPL01	TTL033
TDJNR/L 3232 P1504	32	32	170	40	DNM. 1504..	TTK02	TKV30M6x22	TTDN20003	TTV02M5x12	TS01	TBPL01	TTL033
TDJNR/L 4040 S1504	40	40	250	50	DNM. 1504..	TTK02	TKV30M6x22	TTDN20003	TTV02M5x12	TS01	TBPL01	TTL033

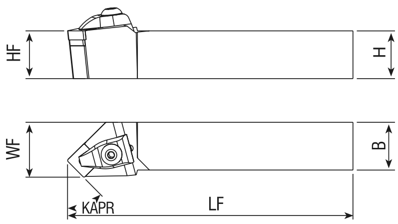
TDNN

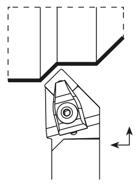




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TDNNN 1616 H11	16	16	100	8	DNM. 1104..	TTK01	TKV01M5x22	TTDN20001	TTV04M5x12	-	TBPL01	TTL033
TDNNN 2020 K11	20	20	125	10	DNM. 1104..	TTK01	TKV01M5x22	TTDN20001	TTV04M5x12	-	TBPL01	TTL033
TDNNN 2525 M11	25	25	150	12,5	DNM. 1104..	TTK01	TKV01M5x22	TTDN20001	TTV04M5x12	-	TBPL01	TTL033
TDNNN 2020 K15	20	20	125	10	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
TDNNN 2525 M15	25	25	150	12,5	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
TDNNN 3232 P15	32	32	170	16	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
TDNNN 4040 S15	40	40	250	20	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
TDNNN 5050 S15	50	50	250	25	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033

TSSN

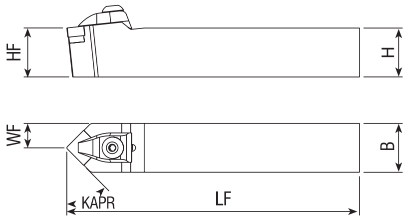


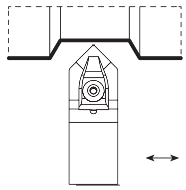


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TSSNR/L 2020 K12	20	20	125	25	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSSNR/L 2525M12	25	25	150	32	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSSNR/L 3232 P12	32	32	170	40	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSSNR/L 2525 M15	25	25	150	32	SNM 1506	TTK04	TKV19M7x25	TTSN30023	TTV05M6X15	TS02	TRPL 02	TTI 054
TSSNR/L 3232 P15	32	32	170	40	SNM 1506	TTK04	TKV19M7x25	TTSN30023	TTV05M6X15	TS02	TRPL 02	TTI 054

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

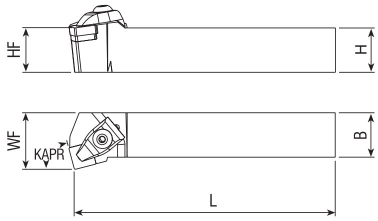
TSDN

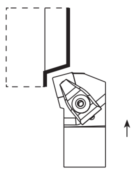




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TSDNN 1616 H12	16	16	100	8	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSDNN 2020 K12	20	20	125	10	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSDNN 2525 M12	25	25	150	12,5	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSDNN 3232 P12	32	32	170	16	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSDNN 2525 M15	25	25	150	12,5	SNM. 1506..	TTK04	TKV19M7x25	TTSN30023	TTV05M6x15	TS02	TBPL02	TTL054
TSDNN 3232 P15	32	32	170	16	SNM. 1506..	TTK04	TKV19M7x25	TTSN30023	TTV05M6x15	TS02	TBPL02	TTL054
TSDNN 4040 S15	40	40	250	20	SNM. 1506..	TTK04	TKV19M7x25	TTSN30023	TTV05M6x15	TS02	TBPL02	TTL054

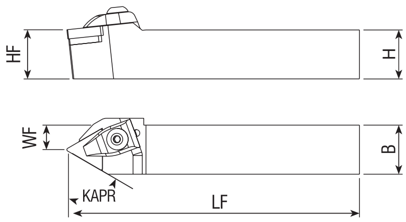
TSKN

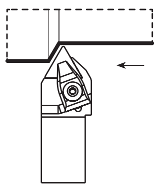




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TSKNR/L 2020 K12	20	20	125	25	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSKNR/L 2525 M12	25	25	150	32	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSKNR/L 3232 P12	32	32	170	40	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSKNR/L 3232 P15	32	32	170	40	SNM. 1506..	TTK04	TKV19M7x25	TTSN30023	TTV05M6x15	TS02	TBPL02	TTL054
TSKNR/L 2020 K12	20	20	125	25	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSKNR/L 2525 M12	25	25	150	32	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSKNR/L 3232 P12	32	32	170	40	SNM. 1204..	TTK02	TKV30M6x22	TTSN30004	TTV02M5x12	TS01	TBPL01	TTL033
TSKNR/L 2525 M15	25	25	150	32	SNM 1506..	TTK04	TKV19M7x25	TTSN30023	TTV05M6X15	TS02	TRPL 02	TTI 054
TSKNR/L 3232 P15	32	32	170	40	SNM 1506..	TTK04	TKV19M7x25	TTSN30023	TTV05M6X15	TS02	TRPL 02	TTI 054

TTEN

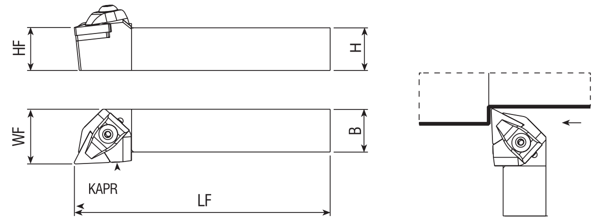




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TTENN 2020 K16	20	20	125	10	TNM. 1604..	TTK01	TKV01M5x22	TTTN20002	TTV03M5x12	-	TRPL01	TTL033
TTENN 2525 M16	25	25	150	12,5	TNM. 1604..	TTK01	TKV01M5x22	TTTN20002	TTV03M5x12	-	TRPL01	TTL033
TTENN 3232 P16	32	32	170	16	TNM. 1604..	TTK01	TKV01M5x22	TTTN20002	TTV03M5x12	-	TRPL01	TTL033
TTENN 2525 M22	25	25	150	12,5	TNM. 2204..	TTK02	TKV30M6x22	TTTN30015	TTV02M5x12	TS01	TRPL01	TTL033
TTENN 3232 P22	32	32	170	16	TNM. 2204..	TTK02	TKV30M6x22	TTTN30015	TTV02M5x12	TS01	TRPL01	TTL033
TTENN 4040 S22	40	40	250	20	TNM. 2204..	TTK02	TKV30M6x22	TTTN30015	TTV02M5x12	TS01	TRPL01	TTL033

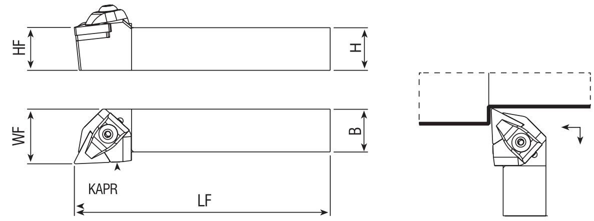
INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

TTGN



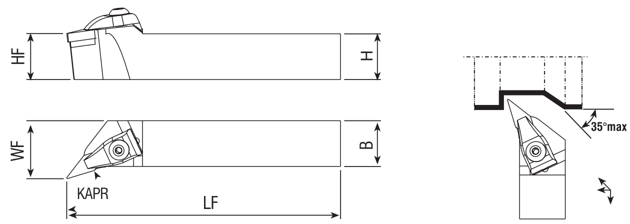
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TTGNR/L 2020 K16	20	20	125	25	TNM. 1604..	TTK01	TKV01M5x22	TTTN20002	TTV03M5x12	-	TBPL01	TTL033
TTGNR/L 2525 M16	25	25	150	32	TNM. 1604..	TTK01	TKV01M5x22	TTTN20002	TTV03M5x12	-	TBPL01	TTL033
TTGNR/L 3232 P16	32	32	170	40	TNM. 1604..	TTK01	TKV01M5x22	TTTN20002	TTV03M5x12	-	TBPL01	TTL033
TTGNR/L 2525 M22	25	25	150	32	TNM. 2204..	TTK02	TKV30M6x22	TTTN30015	TTV02M5x12	TS01	TBPL01	TTL033
TTGNR/L 3232 P22	32	32	170	40	TNM. 2204..	TTK02	TKV30M6x22	TTTN30015	TTV02M5x12	TS01	TBPL01	TTL033
TTGNR/L 4040 S22	40	40	250	50	TNM. 2204..	TTK02	TKV30M6x22	TTTN30015	TTV02M5x12	TS01	TBPL01	TTL033

TTJN



ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TTJNR/L 2020 K16	20	20	125	25	TNM. 1604..	TTK01	TKV01M5x22	TTTN20002	TTV03M5x12	-	TBPL01	TTL033
TTJNR/L 2525 M16	25	25	150	32	TNM. 1604..	TTK01	TKV01M5x22	TTTN20002	TTV03M5x12	-	TBPL01	TTL033
TTJNR/L 3232 P16	32	32	170	40	TNM. 1604..	TTK01	TKV01M5x22	TTTN20002	TTV03M5x12	-	TBPL01	TTL033
TTJNR/L 2525 M22	25	25	150	32	TNM. 2204..	TTK02	TKV30M6x22	TTTN30015	TTV02M5x12	TS01	TBPL01	TTL033
TTJNR/L 3232 P22	32	32	170	40	TNM. 2204..	TTK02	TKV30M6x22	TTTN30015	TTV02M5x12	TS01	TBPL01	TTL033
TTJNR/L 4040 S22	40	40	250	50	TNM. 2204..	TTK02	TKV30M6x22	TTTN30015	TTV02M5x12	TS01	TBPL01	TTL033

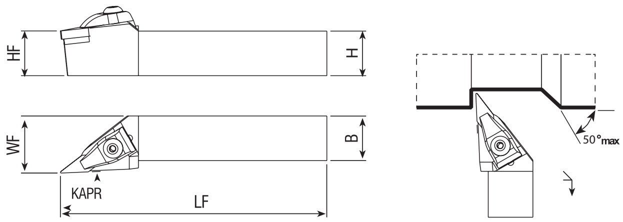
TVHN



ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TVHNR/L 2020 K16	20	20	125	25	VNM. 1604..	TTK03	TKV30M6x22	TTVN 20002	TTV04M5x12	TS01	TBPL01	TTL033
TVHNR/L 2525 M16	25	25	150	32	VNM. 1604..	TTK03	TKV30M6x22	TTVN 20002	TTV04M5x12	TS01	TBPL01	TTL033
TVHNR/L 3232 P16	32	32	170	40	VNM. 1604..	TTK03	TKV30M6x22	TTVN 20002	TTV04M5x12	TS01	TBPL01	TTL033

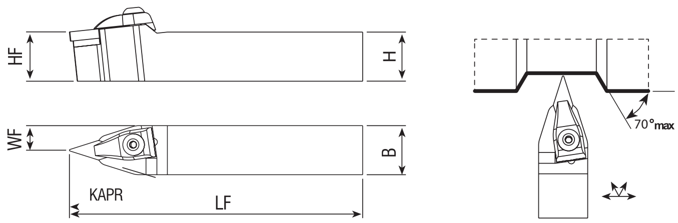
INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

TVJN



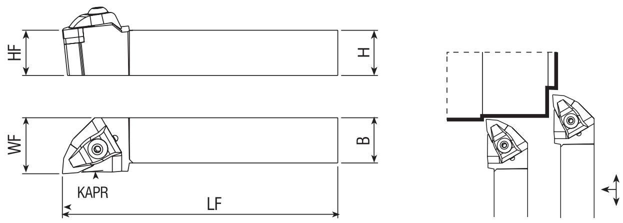
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TVJNR/L 2020 K16	20	20	125	25	VNM. 1604..	TTK03	TKV30M6x22	TTVN20002	TTV04M5x12	TS01	TBPL01	TTL033
TVJNR/L 2525 M16	25	25	150	32	VNM. 1604..	TTK03	TKV30M6x22	TTVN20002	TTV04M5x12	TS01	TBPL01	TTL033
TVJNR/L 3232 P16	32	32	170	40	VNM. 1604..	TTK03	TKV30M6x22	TTVN20002	TTV04M5x12	TS01	TBPL01	TTL033

TVVN



ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TVVNN 2020 K16	20	20	125	10	VNM. 1604..	TTK03	TKV30M6x22	TTVN20002	TTV04M5x12	TS01	TBPL01	TTL033
TVVNN 2525 M16	25	25	150	12.5	VNM. 1604..	TTK03	TKV30M6x22	TTVN20002	TTV04M5x12	TS01	TBPL01	TTL033
TVVNN 3232 P16	32	32	170	16	VNM. 1604..	TTK03	TKV30M6x22	TTVN20002	TTV04M5x12	TS01	TBPL01	TTL033

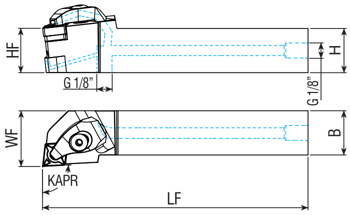
TWLN

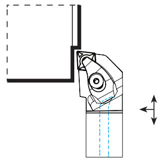


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TWLNR/L 1616 H06	16	16	100	20	WNM. 0604..	TTK01	TKV01M5x22	TTWNSW317	TTV01M3x10	-	TBPL01	TTL033
TWLNR/L 2020 K06	20	20	125	25	WNM. 0604..	TTK01	TKV01M5x22	TTWNSW317	TTV01M3x10	-	TBPL01	TTL033
TWLNR/L 2525 M06	25	25	150	32	WNM. 0604..	TTK01	TKV01M5x22	TTWNSW317	TTV01M3x10	-	TBPL01	TTL033
TWLNR/L 2020 K08	20	20	125	25	WNM. 0804..	TTK02	TKV30M6x22	TTWN30001	TTV02M5x12	TS01	TBPL01	TTL033
TWLNR/L 2525 M08	25	25	150	32	WNM. 0804..	TTK02	TKV30M6x22	TTWN30001	TTV02M5x12	TS01	TBPL01	TTL033
TWLNR/L 3232 P08	32	32	170	40	WNM. 0804..	TTK02	TKV30M6x22	TTWN30001	TTV02M5x12	TS01	TBPL01	TTL033
TWLNR/L 4040 S08	40	40	250	50	WNM. 0804..	TTK02	TKV30M6x22	TTWN30001	TTV02M5x12	TS01	TBPL01	TTL033
TWLNR/L 5050 S08	50	50	250	63	WNM. 0804..	TTK02	TKV30M6x22	TTWN30001	TTV02M5x12	TS01	TBPL01	TTL033

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

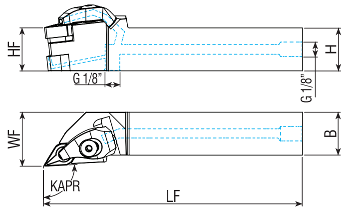
TCLN

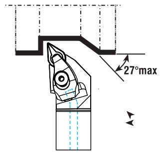




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	SPRING SPRĘŻYNA	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TCLNR/L 2020 K12H	20	20	125	25	CNM. 1204..		TKV33M6x22	TTCN30001	TTV02M5x12	TKY01	TXRU1	27U5G1/8x5.5	TTL033
TCLNR/L 2525 M12H	25	25	150	32	CNM. 1204..	TTKH01R TTKH02L	TKV33M6x22	TTCN30001	TTV02M5x12	TKY01	TXRU1	27U5G1/8x5.5	TTL033
TCLNR/L 3232 P12H	32	32	170	40	CNM. 1204..		TKV33M6x22	TTCN30001	TTV02M5x12	TKY01	TXRU1	27U5G1/8x5.5	TTL033

TDJN



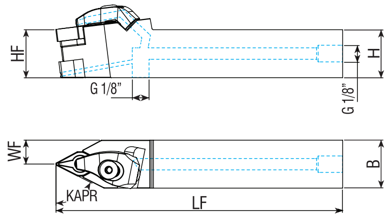


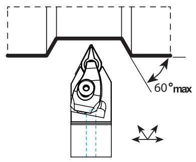
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	SPRING SPRĘŻYNA	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TDJNR/L 2020 K15H	20	20	125	25	DNM. 1506..		TKV33M6x22	TTCN30001	TTV02M5x12	TKY01	TXRU1	27U5G1/8x5.5	TTL033
TDJNR/L 2525 M15H	25	25	150	32	DNM. 1506..	TTKH01R TTKH02L	TKV33M6x22	TTCN30001	TTV02M5x12	TKY01	TXRU1	27U5G1/8x5.5	TTL033
TDJNR/L 3232 P15H	32	32	170	40	DNM. 1506..		TKV33M6x22	TTCN30001	TTV02M5x12	TKY01	TXRU1	27U5G1/8x5.5	TTL033

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

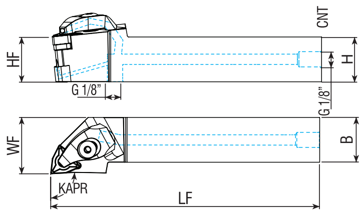
TDNN

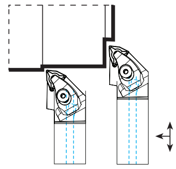




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	SPRING SPRĘŻYNA	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TDNNN 2525 M15H	25	25	150	32	DNM. 1506..	TTKH01R	TKV33M6x22	TTDN30001	TTV02M5x12	TKY01	TXR01	2705G1/8x5.5	TTL033

TWLN



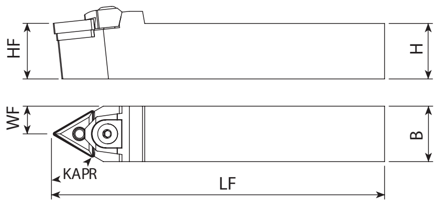


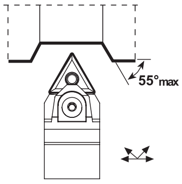
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	SPRING SPRĘŻYNA	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
TWLNR/L 2020 K08H	20	20	125	25	WNM. 0804..	TTKH01R TTKH02L	TKV33M6x22	TTWN30001	TTV02M5x12	TKY01	TXR01	2705G1/8x5.5	TTL033
TWLNR/L 2525 M08H	25	25	150	32	WNM. 0804..		TKV33M6x22	TTWN30001	TTV02M5x12	TKY01	TXR01	2705G1/8x5.5	TTL033
TWLNR/L 3232 P08H	32	32	170	40	WNM. 0804..		TKV33M6x22	TTWN30001	TTV02M5x12	TKY01	TXR01	2705G1/8x5.5	TTL033

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

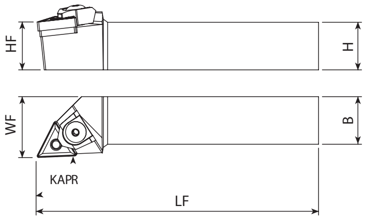
MTEN

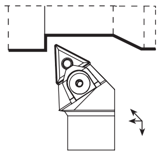




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	PIN TRZPIEŃ	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
MTENN 2020 K16	20	20	125	10	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
MTENN 2525 M16	25	25	150	12.5	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
MTENN 3232 P16	32	32	170	16	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
MTENN 2525 M22	25	25	150	12.5	TNM. 2204..	TMK08	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033
MTENN 3232 P22	32	32	170	16	TNM. 2204..	TMK08	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033
MTENN 4040 S22	40	40	250	20	TNM. 2204..	TMK08	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033

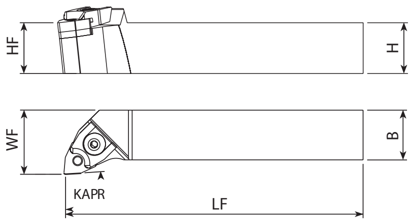
MTJN

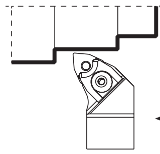




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	PIN TRZPIEŃ	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
MTJNR/L 2020 K16	20	20	125	25	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
MTJNR/L 2525 M16	25	25	150	32	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
MTJNR/L 3232 P16	32	32	170	40	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
MTJNR/L 2525 M22	25	25	150	32	TNM. 2204..	TMK08	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033
MTJNR/L 3232 P22	32	32	170	40	TNM. 2204..	TMK08	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033
MTJNR/L 4040 S22	40	40	250	50	TNM. 2204..	TMK08	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033

MWLN

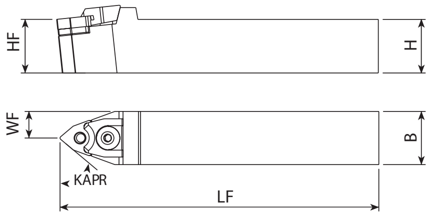


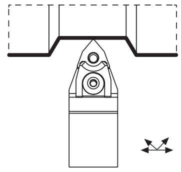


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	PIN TRZPIEŃ	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
MWLNR/L 1616 H06	16	16	100	20	WNM. 0604..	TMK01	TKV04M5x17	-	TPM08	-	-	TTL03
MWLNR/L 2020 K06	20	20	125	25	WNM. 0604..	TMK01	TKV04M5x17	-	TPM08	-	-	TTL03
MWLNR/L 2525 M06	25	25	150	32	WNM. 0604..	TMK01	TKV04M5x17	-	TPM08	-	-	TTL03
MWLNR/L 2020 K08	20	20	125	25	WNM. 0804..	TMK05	TKV03M6x22	TTWN30001	TPM02	TS01	TBPL01	TTL03
MWLNR/L 2525 M08	25	25	150	32	WNM. 0804..	TMK05	TKV03M6x22	TTWN30001	TPM02	TS01	TBPL01	TTL03
MWLNR/L 3232 P08	32	32	170	40	WNM. 0804..	TMK05	TKV03M6x22	TTWN30001	TPM02	TS01	TBPL01	TTL03

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

MWMN

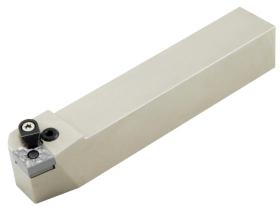


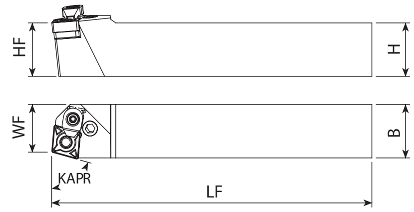


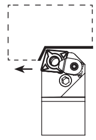
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	PIN TRZPIEŃ	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
MWMNN 1616 H06	16	16	100	8	WNM. 0604..	TMK01	TKV04M5x17	-	TPM08	-	-	TTL033
MWMNN 2020 K06	20	20	125	10	WNM. 0604..	TMK01	TKV04M5x17	-	TPM08	-	-	TTL033
MWMNN 2525 M06	25	25	150	12.5	WNM. 0604..	TMK01	TKV04M5x17	-	TPM08	-	-	TTL033
MWMNN 2020 K08	20	20	125	10	WNM. 0804..	TMK05	TKV03M6x22	TTWN30001	TPM02	TS01	TBPL01	TTL033
MWMNN 2525 M08	25	25	150	12.5	WNM. 0804..	TMK05	TKV03M6x22	TTWN30001	TPM02	TS01	TBPL01	TTL033
MWMNN 3232 P08	32	32	170	16	WNM. 0804..	TMK05	TKV03M6x22	TTWN30001	TPM02	TS01	TBPL01	TTL033

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

PCBN

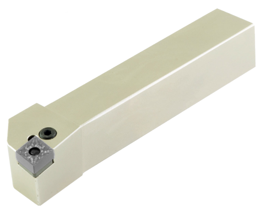


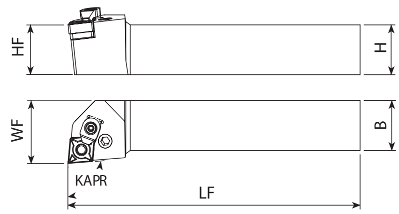


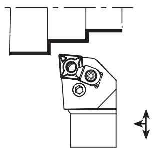


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PCBNR/L 2020 K12C	20	20	125	17.5	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4x11	TTL033
PCBNR/L 2525 M12C	25	25	150	22.5	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4x11	TTL033
PCBNR/L 3232 P12C	32	32	170	29.5	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4x11	TTL033
PCBNR/L 2525 M16C	25	25	150	22	CNM. 1606..	TPL04	TLV04M8x22	TTCN30002	TTY03	TCK09	TTV05M6x15	TTL033
PCBNR/L 3232 P16C	32	32	170	27	CNM. 1606..	TPL04	TLV04M8x22	TTCN30002	TTY03	TCK09	TTV05M6x15	TTL033
PCBNR/L 3232 P19C	32	32	170	27	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TCK09	TTV05M6x15	TTL054
PCBNR/L 4040 S19C	40	40	250	37	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TCK09	TTV05M6x15	TTL054
PCBNR/L 4040 S25C	40	40	250	37	CNM. 2509..	TPL06	TLV06M12x36	TTCN30008	TTY05	TCK04	TKV16M6x16	TTL075
PCBNR/L 5050 S25C	50	50	250	47	CNM. 2509..	TPL06	TLV06M12x36	TTCN30008	TTY05	TCK04	TKV16M6x16	TTL075

PCLN





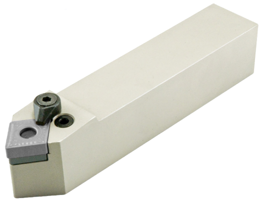


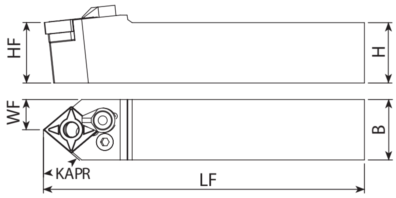
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PCLNR/L 1616 H09	16	16	100	20	CNM. 0903..	TPL01	TLV02M6x17	TTCN20002	TTY01	-	-	TTL022.5
PCLNR/L 2020 K09	20	20	125	25	CNM. 0903..	TPL01	TLV02M6x17	TTCN20002	TTY01	-	-	TTL022.5
PCLNR/L 2525 M09	25	25	150	32	CNM. 0903..	TPL01	TLV02M6x17	TTCN20002	TTY01	-	-	TTL022.5
PCLNR/L 1616 H12	16	16	100	20	CNM 1204	TPL02	TLV03M8x19	TTCN30001	TTY02	-	-	TTL033
PCLNR/L 2020 K12C	20	20	125	25	CNM 1204	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4X11	TTL033
PCLNR/L 2525 M12C	25	25	150	32	CNM 1204	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4X11	TTL033
PCLNR/L 3232 P12C	32	32	170	40	CNM 1204	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4X11	TTL033
PCLNR/L 2525 M16C	25	25	150	32	CNM. 1606..	TPL04	TLVU4M8X22	TTCN3UUU2	TTY03	TCK09	TTV05M6x15	TTL033
PCLNR/L 3232 P16C	32	32	170	40	CNM. 1606..	TPL04	TLVU4M8X22	TTCN3UUU2	TTY03	TCK09	TTV05M6x15	TTL033
PCLNR/L 2525 M19C	25	25	150	32	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TCK09	TTV05M6x15	TTL054
PCLNR/L 3232 P19C	32	32	170	40	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TCK09	TTV05M6x15	TTL054
PCLNR/L 4040 S19C	40	40	250	50	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TCK09	TTV05M6x15	TTL054
PCLNR/L 4040 S25C	40	40	250	50	CNM. 2509..	TPL06	TLV06MI2X36	TTCN30008	TTY05	TCK04	TKVI6M6XI6	TTL075
PCLNR/L 5050 S25C	50	50	250	60	CNM. 2509..	TPL06	TLV06MI2X36	TTCN30008	TTY05	TCK04	TKVI6M6XI6	TTL075

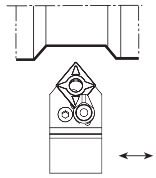
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

PCMN

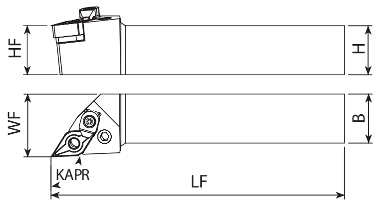


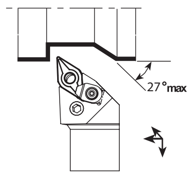




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PCMNN 2020 K12C	20	20	125	10	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4X11	TTL033
PCMNN 2525 M12C	25	25	150	12.5	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4X11	TTL033
PCMNN 3232 P12C	32	32	170	16	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4X11	TTL033
PCMNN 2525 M16C	25	25	150	12.5	CNM. 1606..	TPL04	TLVU4M8X22	TTCN30002	TTY03	TCK09	TTV05M6x15	TTL033
PCMNN 3232 P16C	32	32	170	16	CNM. 1606..	TPL04	TLVU4M8X22	TTCN30002	TTY03	TCK09	TTV05M6x15	TTL033
PCMNN 3232 P19C	32	32	170	16	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TCK09	TTV05M6x15	TTL054
PCMNN 4040 S19C	40	40	250	20	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TCK09	TTV05M6x15	TTL054
PCMNN 5050 S19C	50	50	250	25	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TCK09	TTV05M6x15	TTL054
PCMNN 4040 S25C	40	40	250	20	CNM. 2509..	TPL06	TLV06MI2X36	TTCN30008	TTY05	TCK04	TKVI6M6XI6	TTL075

PDJN



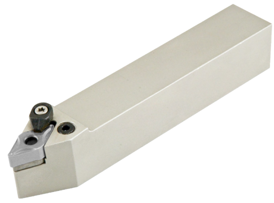
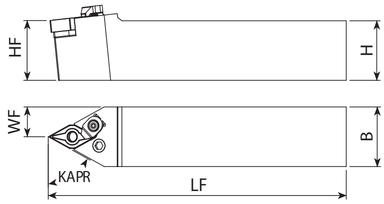


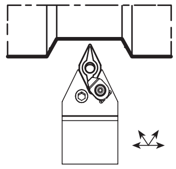
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PDJNR/L 1616 H11	16	16	100	20	DNM. 1104..	TPL01	TLV02M6x17	TTDN20002	TTY01	-	-	TTL022.5
PDJNR/L 2020 K11	20	20	125	25	DNM. 1104..	TPL01	TLV02M6x17	TTDN20002	TTY01	-	-	TTL022.5
PDJNR/L 2525 M11	25	25	150	32	DNM. 1104..	TPL01	TLV02M6x17	TTDN20002	TTY01	-	-	TTL022.5
PDJNR/L 2020 K15C	20	20	125	25	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TCK04	4015M4X11	TTL033
PDJNR/L 2525 M15C	25	25	150	32	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TCK05	4015M4X11	TTL033
PDJNR/L 3232 P15C	32	32	170	40	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TCK05	4015M4X11	TTL033
PDJNR/L 4040 S15C	40	40	250	50	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TCK05	4015M4X11	TTL033

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

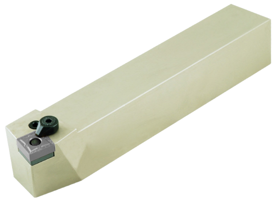
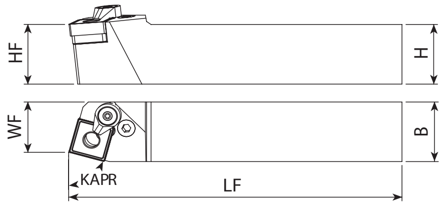
PDNN

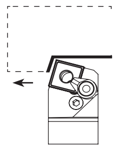





ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PDNNN 1616 H11	16	16	100	8	DNM. 1104..	TPL01	TLV02M6x17	TTDNSD317	TTY01	-	-	TTL022.5
PDNNN 2020 K11	20	20	125	10	DNM. 1104..	TPL01	TLV02M6x17	TTDNSD317	TTY01	-	-	TTL022.5
PDNNN 2525 M11	25	25	150	12.5	DNM. 1104..	TPL01	TLV02M6x17	TTDNSD317	TTY01	-	-	TTL022.5
PDNNN 2020 K15C	20	20	125	10	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TCK05	4015M4x11	TTL033
PDNNN 2525 M15C	25	25	150	12.5	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TCK05	4015M4x11	TTL033
PDNNN 3232 P15C	32	32	170	16	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TCK05	4015M4x11	TTL033

PSBN

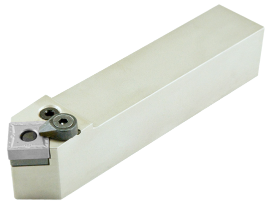


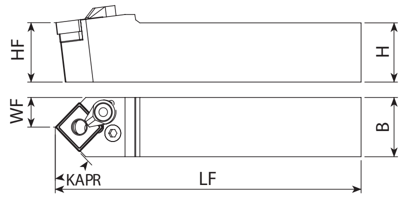
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PSBNR/L 1616 H09	16	16	100	13	SNM. 0903	TPL01	TLV02M6x17	TTSN20002	TTY01	-	-	TTL022.5
PSBNR/L 2020 K09	20	20	125	17	SNM. 0903	TPL01	TLV02M6x17	TTSN20002	TTY01	-	-	TTL022.5
PSBNR/L 2020 K12	20	20	125	17	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	-	-	TTL033
PSBNR/L 2525 M12C	25	25	150	22	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4v11	TTL033
PSBNR/L 3232 P12C	32	32	170	27	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4v11	TTL033
PSBNR/L 2525 M15	25	25	150	22	SNM. 1506..	TPL04	TLV04M8V22	TTSN30023	TTY03	-	-	TTL033
PSBNR/L 3232 P15C	32	32	170	27	SNM. 1506..	TPL04	TLV04M8V22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033
PSBNR/L 3232 P19C	32	32	170	27	SNM. 1906..	TPL05	TLV05M10x27	TTSN30005	TTY04	TCK09	TTV05M6x15	TTL054
PSBNR/L 4040 S19C	40	40	250	35	SNM. 1906..	TPL05	TLV05M10x27	TTSN30005	TTY04	TCK09	TTV05M6x15	TTL054
PSBNR/L 4040 S25C	40	40	250	35	SNM. 2509..	TPL06	TLV06MI2X36	TTSN30020	TTY05	TCK04	TKV06M6XI6	TTL075
PSBNR/L 5050 S25C	50	50	250	43	SNM. 2509..	TPL06	TLV06MI2X36	TTSN30020	TTY05	TCK04	TKV06M6XI6	TTL075

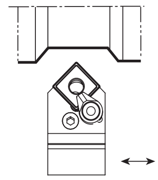
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

PSDN

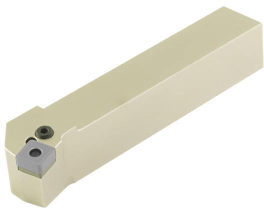


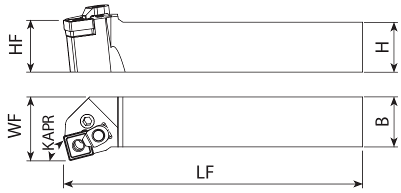


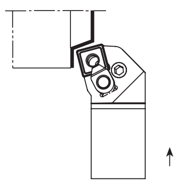


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PSDNN 1616 H09	16	16	100	8	SNM. 0903..	TPL01	TLV02M6x17	TTSN20002	TTY01	-	-	TTL022.5
PSDNN 2020 K12C	20	20	125	10	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
PSDNN 2525 M12C	25	25	150	12.5	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
PSDNN 3232 P12C	32	32	170	16	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
PSDNN 2020 K15	20	20	125	10	SNM. 1506..	TPL04	TLV04M8x22	TTSN30023	TTY03	-	-	TTL033
PSDNN 2525 M15C	25	25	150	12.5	SNM. 1506..	TPL04	TLV04M8x22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033
PSDNN 3232 P19C	32	32	170	16	SNM. 1906..	TPL05	TLV05M10x27	TTSN30005	TTY04	TCK09	TTV05M6x15	TTL054
PSDNN 4040 S19C	40	40	250	20	SNM. 1906..	TPL05	TLV05M10x27	TTSN30005	TTY04	TCK09	TTV05M6x15	TTL054
PSDNN 5050 S19C	50	50	250	25	SNM. 1906..	TPL05	TLV05M10x27	TTSN30005	TTY04	TCK09	TTV05M6x15	TTL054
PSDNN 4040 S25C	40	40	250	20	SNM. 2509..	TPL06	TLV06M12X36	TTSN30020	TTY05	TCK04	TKV16M6x16	TTL075
PSDNN 5050 S25C	50	50	250	25	SNM. 2509..	TPL06	TLV06M12X36	TTSN30020	TTY05	TCK04	TKV16M6x16	TTL075
PSDNN 2020 K09	20	20	125	25	SNM. 0903..	TPL01	TLV02M6x17	TTSN20002	TTY01	-	-	TTL022.5
PSDNN 2020 K12C	20	20	125	25	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
PSDNN 2525 M12C	25	25	150	32	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
PSDNN 3232 P12C	32	32	170	40	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
PSDNN 2525 M15C	25	25	150	32	SNM. 1506..	TPL04	TLV04M8X22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033
PSDNN 3232 P15C	32	32	170	40	SNM. 1506..	TPL04	TLV04M8X22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033
PSDNN 3232 P19C	32	32	170	40	SNM. 1906..	TPL05	TLV05M10x27	TTSN30005	TTY04	TCK09	TTV05M6x15	TTL054
PSDNN 4040 S19C	40	40	250	50	SNM. 1906..	TPL05	TLV05M10x27	TTSN30005	TTY04	TCK09	TTV05M6x15	TTL054
PSDNN 4040 S25C	40	40	250	50	SNM. 2509..	TPL06	TLV06M12X36	TTSN30020	TTY05	TCK04	TKV16M6x16	TTL075
PSDNN 5050 S25C	50	50	250	60	SNM. 2509..	TPL06	TLV06M12X36	TTSN30020	TTY05	TCK04	TKV16M6x16	TTL075

PSKN





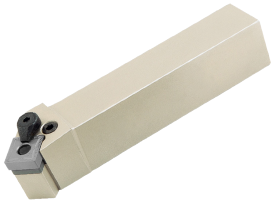


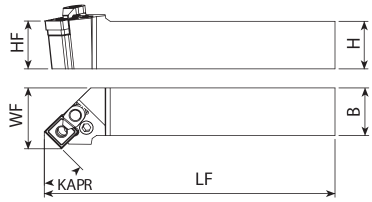
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PSKNR/L 2020 K09	20	20	125	25	SNM. 0903..	TPL01	TLV02M6x17	TTSN20002	TTY01	-	-	TTL022.5
PSKNR/L 2020 K12C	20	20	125	25	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
PSKNR/L 2525 M12C	25	25	150	32	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
PSKNR/L 3232 P12C	32	32	170	40	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
PSKNR/L 2525 M15C	25	25	150	32	SNM. 1506..	TPL04	TLV04M8X22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033
PSKNR/L 3232 P15C	32	32	170	40	SNM. 1506..	TPL04	TLV04M8X22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033
PSKNR/L 3232 P19C	32	32	170	40	SNM. 1906..	TPL05	TLV05M10x27	TTSN30005	TTY04	TCK09	TTV05M6x15	TTL054
PSKNR/L 4040 S19C	40	40	250	50	SNM. 1906..	TPL05	TLV05M10x27	TTSN30005	TTY04	TCK09	TTV05M6x15	TTL054
PSKNR/L 4040 S25C	40	40	250	50	SNM. 2509..	TPL06	TLV06M12X36	TTSN30020	TTY05	TCK04	TKV16M6x16	TTL075
PSKNR/L 5050 S25C	50	50	250	60	SNM. 2509..	TPL06	TLV06M12X36	TTSN30020	TTY05	TCK04	TKV16M6x16	TTL075

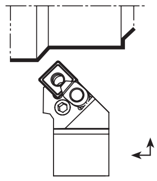
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

PSSN

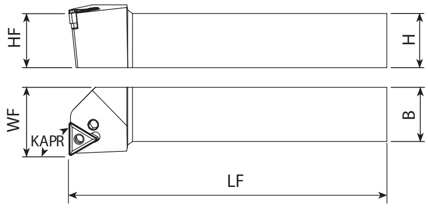


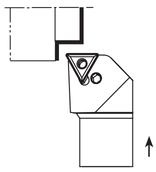




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PSSNR/L 1616 H09	16	16	100	20	SNM. 0903..	TPL01	TLV02M6x17	TTSN20002	TTY01	-	-	TTL022.5
PSSNR/L 2020 K09	20	20	125	25	SNM. 0903..	TPL01	TLV02M6x17	TTSN20002	TTY01	-	-	TTL022.5
PSSNR/L 2020 K12C	20	20	125	25	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
PSSNR/L 2525 M12C	25	25	150	32	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
PSSNR/L 3232 P12C	32	32	170	40	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
PSSNR/L 3232 P15C	32	32	170	40	SNM. 1506..	TPL04	TLV04M8X22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033
PSSNR/L 3232 P19C	32	32	170	40	SNM. 1906..	TPL05	TLV05M10x27	TTSN30005	TTY04	TCK09	TTV05M6x15	TTL054
PSSNR/L 4040 S19C	40	40	250	50	SNM. 1906..	TPL05	TLV05M10x27	TTSN30005	TTY04	TCK09	TTV05M6x15	TTL054
PSSNR/L 4040 S25C	40	40	250	50	SNM. 2509..	TPL06	TLV06M12X36	TTSN30020	TTY05	TCK04	TKV16M6x16	TTL075

PTFN



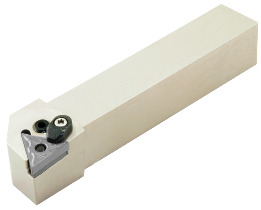


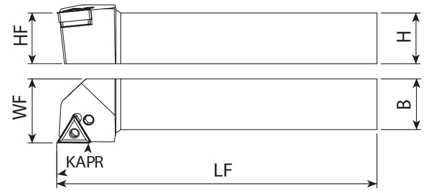
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PTFNR/L 1616 H16	16	16	100	20	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTFNR/L 2020 K16	20	20	125	25	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTFNR/L 2525 M16	25	25	150	32	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTFNR/L 3232 P16	32	32	170	40	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTFNR/L 2525 M22C	25	25	150	32	TNM. 2204..	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033
PTFNR/L 3232 P22C	32	32	170	40	TNM. 2204..	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033
PTFNR/L 4040 S27C	40	40	250	50	TNM. 2706.	TPL05	TLV05M10x27	7042701	TTY04	TCK09	TTV05M6x15	TTL054

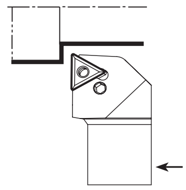
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

PTGN

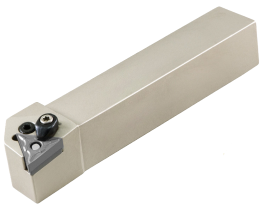


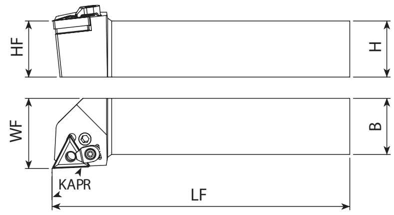


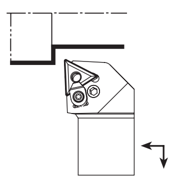


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PTGNR/L 1010 E11	10	10	70	12	TNM. 1103..	TPL11	TLV10M5X10	-	-	-	-	TTL132.5
PTGNR/L 1212 F11	12	12	80	16	TNM. 1103..	TPL11	TLV10M5X10	-	-	-	-	TTL132.5
PTGNR/L 1616 H11	16	16	100	20	TNM. 1103..	TPL11	TLV10M5X10	-	-	-	-	TTL132.5
PTGNR/L 1616 H16	16	16	100	20	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTGNR/L 2020 K16	20	20	125	25	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTGNR/L 2525 M16	25	25	150	32	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTGNR/L 3232 P16	32	32	170	40	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTGNR/L 2525 M22C	25	25	150	32	TNM. 2204..	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033
PTGNR/L 3232 P22C	32	32	170	40	TNM. 2204..	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033
PTGNR/L 4040 S27C	40	40	250	50	TNM. 2706..	TPL05	TLV05M10x27	7042701	TTY04	TCK09	TTV05M6x15	TTL054

PTJN





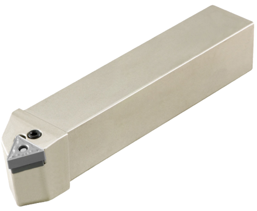


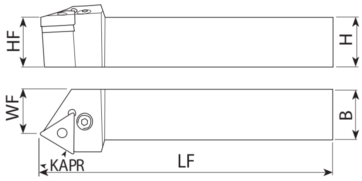
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PTJNR/L 1010 E11	10	10	70	12	TNM. 1103..	TPL11	TLV10M5X10	-	-	-	-	TTL132.5
PTJNR/L 1212 F11	12	12	80	16	TNM. 1103..	TPL11	TLV10M5X10	-	-	-	-	TTL132.5
PTJNR/L 1616 H11	16	16	100	20	TNM. 1103..	TPL11	TLV10M5X10	-	-	-	-	TTL132.5
PTJNR/L 1616 H16	16	16	100	20	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTJNR/L 2020 K16	20	20	125	25	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTJNR/L 2525 M16	25	25	150	32	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTJNR/L 3232 P16	32	32	170	40	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTJNR/L 2525 M22C	25	25	150	32	TNM. 2204..	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033
PTJNR/L 3232 P22C	32	32	170	40	TNM. 2204..	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033
PTJNR/L 4040 S27C	40	40	250	50	TNM. 2706..	TPL05	TLV05M10x27	7042701	TTY04	TCK09	TTV05M6x15	TTL054

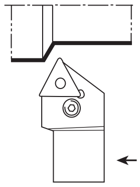
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

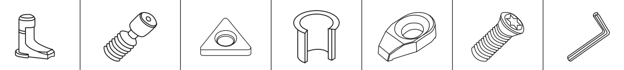
INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

PTTN



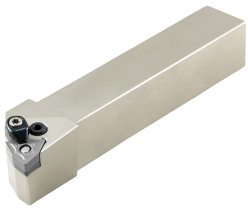


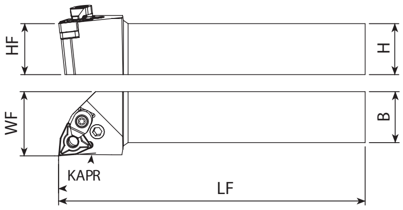


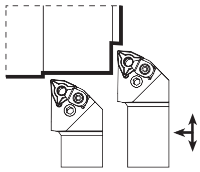


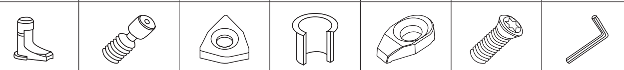
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PTTNR/L 1616 H16	16	16	100	13	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTTNR/L 2020 K16	20	20	125	17	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTTNR/L 2525 M16	25	25	150	21.5	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTTNR/L 3232 P16	32	32	170	31	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	-	-	TTL022.5
PTTNR/L 2525 M22C	25	25	150	20.5	TNM. 2204..	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033
PTTNR/L 3232 P22C	32	32	170	29	TNM. 2204..	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033

PWLN







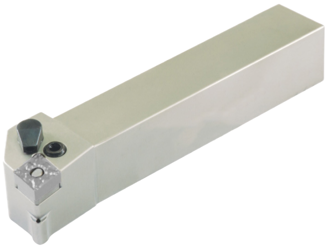


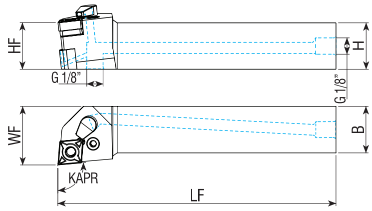
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
PWLNR/L 1616 H06	16	16	100	20	WNM. 0604..	TPL01	TLV02M6x17	TTWNSW317	TTY01	-	-	TTL022.5
PWLNR/L 2020 K06	20	20	125	25	WNM. 0604..	TPL01	TLV02M6x17	TTWNSW317	TTY01	-	-	TTL022.5
PWLNR/L 2525 M06	25	25	150	32	WNM. 0604..	TPL01	TLV02M6x17	TTWNSW317	TTY01	-	-	TTL022.5
PWLNR/L 3232 P06	32	32	170	40	WNM. 0604..	TPL01	TLV02M6x17	TTWNSW317	TTY01	-	-	TTL022.5
PWLNR/L 1616 H08	16	16	100	20	WNM. 0804..	TPL02	TLV03M8x19	TTWN30001	TTY02	-	-	TTL033
PWLNR/L 2020 K08C	20	20	125	25	WNM. 0804..	TPL02	TLV03M8x19	TTWN30001	TTY02	TCK05	4015M4x11	TTL033
PWLNR/L 2525 M08C	25	25	150	32	WNM. 0804..	TPL02	TLV03M8x19	TTWN30001	TTY02	TCK05	4015M4x11	TTL033
PWLNR/L 3232 P08C	32	32	170	40	WNM. 0804..	TPL02	TLV03M8x19	TTWN30001	TTY02	TCK05	4015M4x11	TTL033

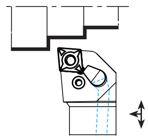
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

PCLN

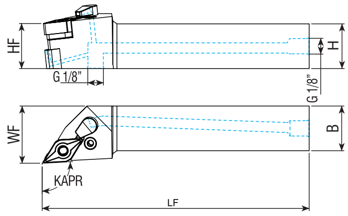


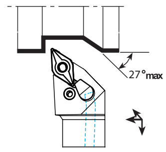




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	RING PODKŁADKA	THREADED PIN TRZPIEŃ	NOZZLE DYSZA	ALLEN KEY KLUCZ IMBUSOWY
PCLNR/L 2020 K12H	20	20	125	25	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02		2705G1/8x5.5	TN01	TTL033
PCLNR/L 2525 M12H	25	25	150	32	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TXR01 TOR01	2705G1/8x5.5	TN01	TTL033
PCLNR/L 3232 P12H	32	32	170	40	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02		2705G1/8x5.5	TN01	TTL033

PDJN



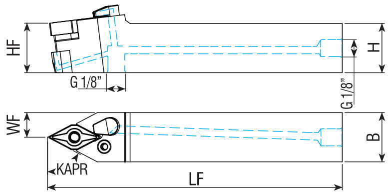


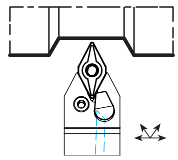
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	RING PODKŁADKA	THREADED PIN TRZPIEŃ	NOZZLE DYSZA	ALLEN KEY KLUCZ IMBUSOWY
PDJNR/L 2020 K15H	20	20	125	25	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02		2705G1/8x5.5	TN01	TTL033
PDJNR/L 2525 M15H	25	25	150	32	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TXR01 TOR01	2705G1/8x5.5	TN01	TTL033
PDJNR/L 3232 P15H	32	32	170	40	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02		2705G1/8x5.5	TN01	TTL033

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

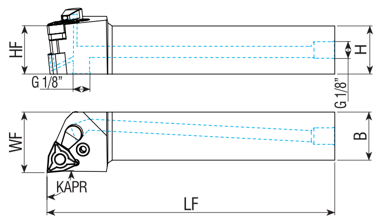
PDNN

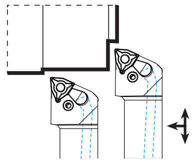




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	RING PODKŁADKA	THREADED PIN TRZPIEŃ	NOZZLE DYSZA	ALLEN KEY KLUCZ IMBUSOWY
PDNNN 2525 M15H	25	25	150	32	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TXR01 TOR01	2705G1/8x5.5	TN01	TTL033

PWLN



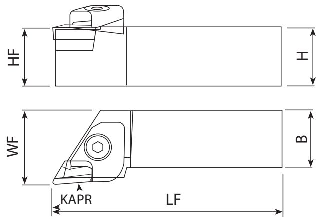


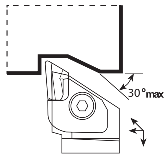
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	RING PODKŁADKA	THREADED PIN TRZPIEŃ	NOZZLE DYSZA	ALLEN KEY KLUCZ IMBUSOWY
PWLNR/L 2020 K08H	20	20	125	25	WNM. 0804..	TPL02	TLV03M8x19	TTCN30001	TTY02	TXR01 TOR01	2705G1/8x5.5	TN01	TTL033
PWLNR/L 2525 M08H	25	25	150	32	WNM. 0804..	TPL02	TLV03M8x19	TTCN30001	TTY02		2705G1/8x5.5	TN01	TTL033

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

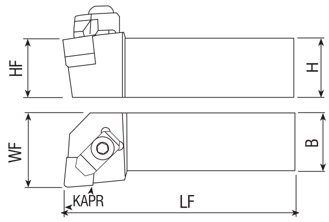
CKJN

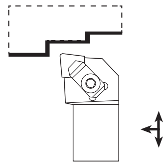




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	SPRING SPRĘŻYNA	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
CKJNR/L 2020 K16	20	20	125	27.5	KNUX1604..	ACK01RACK02L	TKV06M6x20	AKS16RAKS16L	TTV01M3x10	TKY02	TBPL01	TTL054
CKJNR/L 2525 M16	25	25	150	31.5	KNUX1604..		TKV06M6x20		TTV01M3x10	TKY02	TBPL01	TTL054
CKJNR/L 3232 P16	32	32	170	40	KNUX1604..		TKV06M6x20		TTV01M3x10	TKY02	TBPL01	TTL054
CKJNR/L 4040 S16	40	40	250	50	KNUX1604..		TKV06M6x20		TTV01M3x10	TKY02	TBPL01	TTL054

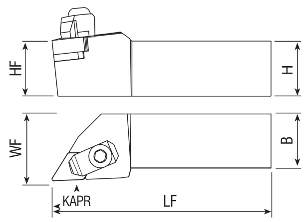
CCLN

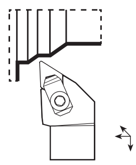




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	ALLEN KEY KLUCZ IMBUSOWY
CCLNR/L 2525 M1207C	25	25	150	32	CN.N 1207..	TCK13	TKV11M8x29	TTCN30001	TTV02M5x12	TCS01	TTL054
CCLNR/L 3232 P1207C	32	32	170	40	CN.N 1207..	TCK13	TKV11M8x29	TTCN30001	TTV02M5x12	TCS01	TTL054
CCLNR/L 2525 M1607C	25	25	150	32	CN.N 1607..	TCK13	TKV11M8x29	TTCN30002	TTV05M6x15	TCS01	TTL054

CDJN



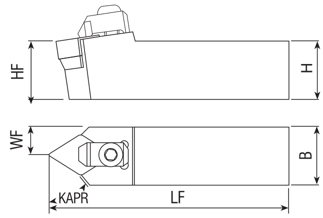


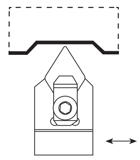
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	ALLEN KEY KLUCZ IMBUSOWY
CDJNR/L 2525 M1107C	25	25	150	32	DN.N 1107..	TCK22	TKV11M8x29	TTDN20001	TTV04M5x12	TCS01	TTL054
CDJNR/L 2525 M1507C	25	25	150	32	DN.N 1507..	TCK13	TKV11M8x29	TTDN30001	TTV02M5x12	TCS01	TTL054
CDJNR/L 3232 P1507C	32	32	170	40	DN.N 1507..	TCK13	TKV11M8x29	TTDN30001	TTV02M5x12	TCS01	TTL054

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

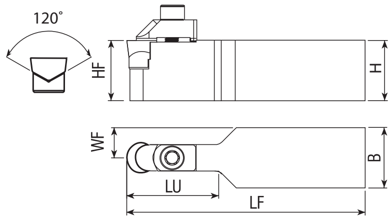
CDNN

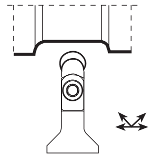




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	ALLEN KEY KLUCZ IMBUSOWY
CDNNN 2525 M1107C	25	25	150	12.5	DN.N 1107..	TCK22	TKV11M8x29	TTDN20001	TTV04M5x12	TCS01	TTL054

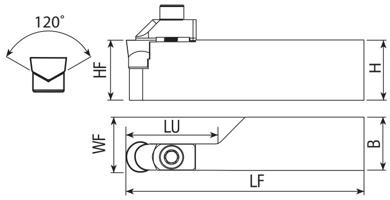
CRDC

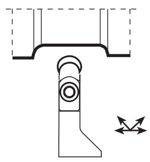




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	LU	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	ALLEN KEY KLUCZ IMBUSOWY
CRDCN 2525 M06CV	25	25	150	19	12.5	RCGX 0606..	TCK27	2525M3X14	TTRC30001	3007M22X5	TTL0225
CRDCN 3225 P06CV	32	25	170	19	12.5	RCGX 0606..	TCK27	2525M3X14	TTRC30001	3007M22X5	TTL0225
CRDCN 4040 S06CV	40	40	250	19	20	RCGX 0606..	TCK27	2525M3X14	TTRC30001	3007M22X5	TTL0225
CRDCN 2525 M09CV	25	25	150	29	12.5	RCGX 0907..	TCK28	2504M5X16	TTRC30002	3008M25x6	TTL054
CRDCN 3225 P09CV	32	25	170	29	12.5	RCGX 0907..	TCK28	2504M5X16	TTRC30002	3008M25x6	TTL054
CRDCN 4040 S09CV	40	40	250	29	20	RCGX 0907..	TCK28	2504M5X16	TTRC30002	3008M25x6	TTL054
CRDCN 2525 M12CV	25	25	150	38	12.5	RCGX 1207..	TCK29	2505M6X20	TTRC30003	3008M25x6	TTL075
CRDCN 3225 P12CV	32	25	170	38	12.5	RCGX 1207..	TCK29	2505M6X20	TTRC30003	3008M25x6	TTL075
CRDCN 4040 S12CV	40	40	250	38	20	RCGX 1207..	TCK29	2505M6X20	TTRC30003	3008M25x6	TTL075

CRDC



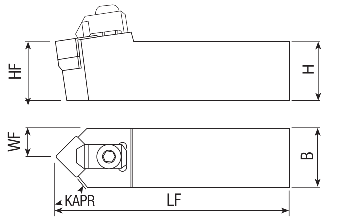


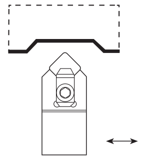
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	LU	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	ALLEN KEY KLUCZ IMBUSOWY
CRDCR/L 3225 P06CV	32	25	170	19.4	25.6	RCGX 060600	TCK27	2525M3X14	TTRC30001	3007M22X5	TTL0225
CRDCR/L 3225 P09CV	32	25	170	29	25.8	RCGX 090700	TCK28	2504M5X16	TTRC30002	3008M25x6	TTL054
CRDCR/L 3225 P12CV	32	25	170	38.5	25.9	RCGX 120700	TCK29	2505M6X20	TTRC30003	3008M25x6	TTL075

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

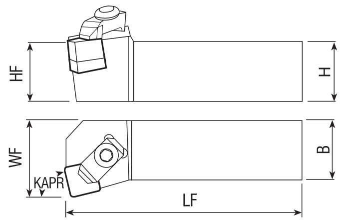
CSDN

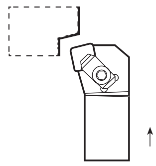





ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	ALLEN KEY KLUCZ IMBUSOWY
CSDNN 2525 M1207C	25	25	150	12.5	SN.N 1207..	TCK13	TKV11M8x29	TTSN30004	TTV02M5x12	TCS01	TTL054
CSDNN 3232 P1207C	32	32	170	16	SN.N 1207..	TCK13	TKV11M8x29	TTSN30004	TTV02M5x12	TCS01	TTL054

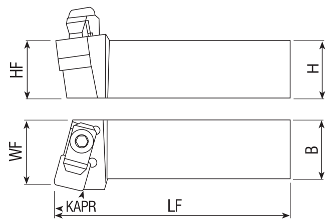
CSKN

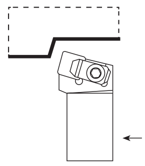





ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	ALLEN KEY KLUCZ IMBUSOWY
CSKNR/L 2525 M1207C	25	25	150	32	SN.N 1207..	TCK13	TKV11M8x29	TTSN30004	TTV02M5x12	TCS01	TTL054
CSKNR/L 3232 P1207C	32	32	170	40	SN.N 1207..	TCK13	TKV11M8x29	TTSN30004	TTV02M5x12	TCS01	TTL054

CSRN

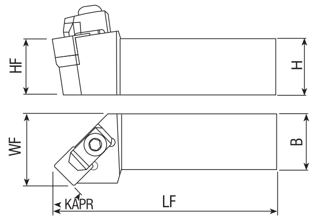


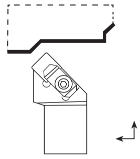
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	ALLEN KEY KLUCZ IMBUSOWY
CSRNR/L 2525 M1207C	25	25	150	32	SN.N 1207..	TCK13	TKV11M8x29	TTSN30004	TTV02M5x12	TCS01	TTL054
CSRNR/L 3232 P1207C	32	32	170	40	SN.N 1207..	TCK13	TKV11M8x29	TTSN30004	TTV02M5x12	TCS01	TTL054

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

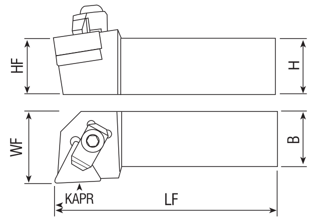
CSSN

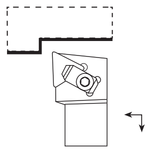




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	ALLEN KEY KLUCZ IMBUSOWY
CSSNR/L 2525 M1207C	25	25	150	32	SN.N 1207..	TCK13	TKV11M8x29	TTSN30004	TTV02M5x12	TCS01	TTL054
CSSNR/L 3232 P1207C	32	32	170	40	SN.N 1207..	TCK13	TKV11M8x29	TTSN30004	TTV02M5x12	TCS01	TTL054

CTJN



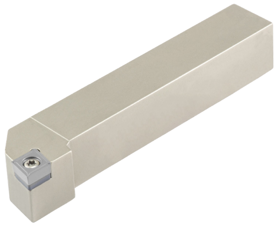


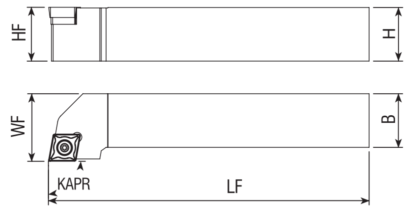
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	ALLEN KEY KLUCZ IMBUSOWY
CTJNR/L 2525 M1207C	25	25	150	32	TN.N 1607..	TCK14	TKV11M8x29	TTTN20002	TTV03M5x12	TCS01	TTL054
CTJNR/L 3232 P1207C	32	32	170	40	TN.N 1607..	TCK14	TKV11M8x29	TTTN20002	TTV03M5x12	TCS01	TTL054

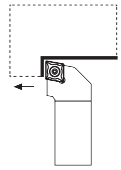
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

SCAC

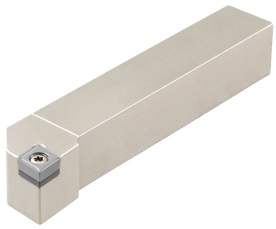


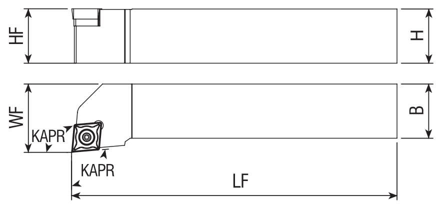


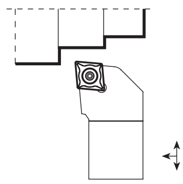


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SCACR/L 0808 E06	8	8	70	10	CCM. 0602..	4008M2.5x6	-	-	80T08
SCACR/L 1010 E06	10	10	70	12	CCM. 0602..	4008M2.5x6	-	-	80T08
SCACR/L 1212 F09	12	12	80	16	CC.T 09T3..	4015M3.5x11	-	-	80T15
SCACR/L 1616 H09	16	16	100	20	CC.T 09T3..	4015M3.5x14	TTCN20001	TTV06M3.5x11	80T15
SCACR/L 2020 K09	20	20	125	25	CC.T 09T3..	4015M3.5x14	TTCN20001	TTV06M3.5x11	80T15
SCACR/L 2020 K12	20	20	125	25	CC.T 1204..	1020M4.5x16	TTCN20003	TTV07M4.5x13	80T20
SCACR/L 2525 M12	25	25	150	32	CC.T 1204..	1020M4.5x16	TTCN20003	TTV07M4.5x13	80T20

SCLC



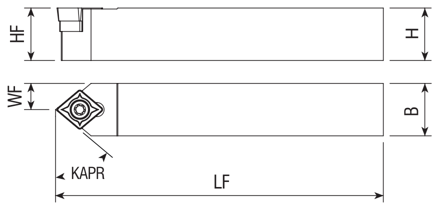


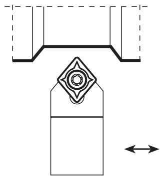


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SCLCR/L 0808 E06	8	8	70	10	CCM. 0602..	4008M2.5x6	-	-	80T08
SCLCR/L 1010 E06	10	10	70	12	CCM. 0602..	4008M2.5x6	-	-	80T08
SCLCR/L 1212 F06	12	12	80	16	CCM. 0602..	4008M2.5x6	-	-	80T08
SCLCR/L 1010 E09	10	10	70	12	CC T 09T3	4015M3x9	-	-	80T15
SCLCR/L 1212 F09	12	12	80	16	CC T 09T3	4015M3.5x11	-	-	80T15
SCLCR/L 1616 H09	16	16	100	20	CC T 09T3	4015M3.5x14	-	TTV06M3 5x11	80T15
SCLCR/L 2020 K09	20	20	125	25	CC T 09T3	4015M3.5x14	TTCN20001	TTV06M3 5x11	80T15
SCLCR/L 2525 M09	25	25	150	32	CC T 09T3	4015M3.5x14	TTCN20001	TTV06M3 5x11	80T15
SCLCR/L 1616 H12	16	16	100	20	CC.T 1204..	1020M5x11	-	-	80T20
SCLCR/L 2020 K12	20	20	125	25	CC.T 1204..	1020M4 5x16	TTCN20003	TTV07M4.5x13	80T20
SCLCR/L 2525 M12	25	25	150	32	CC.T 1204..	1020M4 5x16	TTCN20003	TTV07M4.5x13	80T20

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

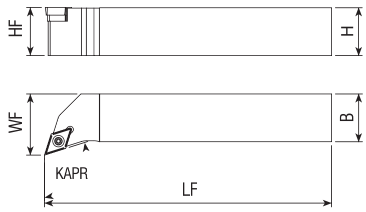
SCMC

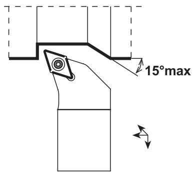




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SCMCN 0808 E06	8	8	70	04	CCM. 0602..	4008M2.5x6	-	-	80T08
SCMCN 1010 E06	10	10	70	05	CCM. 0602..	4008M2.5x6	-	-	80T08
SCMCN 1212 F06	12	12	80	06	CCM. 0602..	4008M2.5x6	-	-	80T08
SCMCN 1212 F09	12	12	80	06	CC.T 0913..	4015M3.5x11	-	-	80T15
SCMCN 1616 H09	16	16	100	08	CC.T 0913..	4015M3.5x14	TTCN20001	TTV06M3.5x11	80T15
SCMCN 2020 K12	20	20	125	10	CC.T 1204..	1020M4.5x16	TTCN20003	TTV07M4.5x13	80T20
SCMCN 2525 M12	25	25	150	12.5	CC.T 1204..	1020M4.5x16	TTCN20003	TTV07M4.5x13	80T20

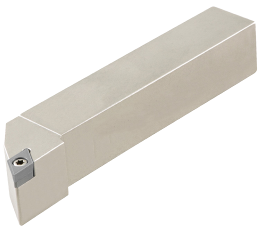
SDHC

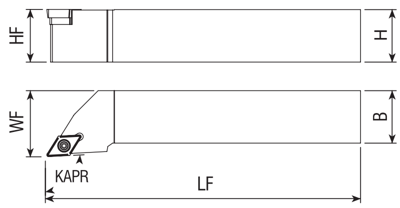


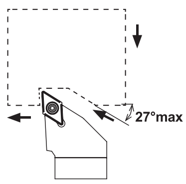


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SDHCR/L 0808 E07	8	8	70	11	DC.T 0702..	4008M2.5x6	-	-	80T08
SDHCR/L 1010 E07	10	10	70	12	DC.T 0702..	4008M2.5x6	-	-	80T08
SDHCR/L 1212 F07	12	12	80	16	DC.T 0702..	4008M2.5x6	-	-	80T08
SDHCR/L 1616 H07	16	16	100	20	DC.T 0702..	4008M2.5x6	-	-	80T08
SDHCR/L 1616 H11	16	16	100	20	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
SDHCR/L 2020 K11	20	20	125	25	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
SDHCR/L 2525 M11	25	25	150	32	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
SDHCR/L 3232 P11	32	32	170	40	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15

SDJC



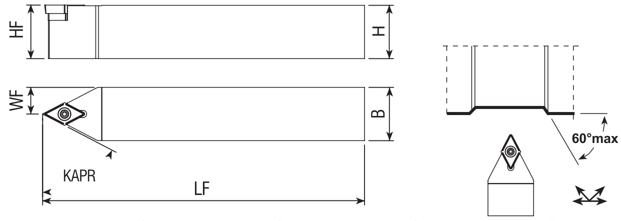




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SDJCR/L 0808 E07	8	8	70	10	DC.T 0702..	4008M2.5X6	-	-	80T08
SDJCR/L 1010 E07	10	10	70	12	DC.T 0702..	4008M2.5X6	-	-	80T08
SDJCR/L 1212 F07	12	12	80	16	DC.T 0702..	4008M2.5X6	-	-	80T08
SDJCR/L 1616 H07	16	16	100	20	DC.T 0702..	4008M2.5X6	-	-	80T08
SDJCR/L 1616 H11	16	16	100	20	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
SDJCR/L 2020 K11	20	20	125	25	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
SDJCR/L 2525 M11	25	25	150	32	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
SDJCR/L 3232 P11	32	32	170	40	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15

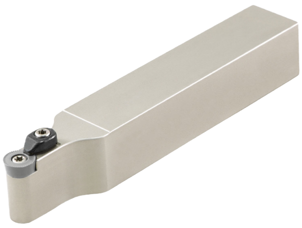
INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

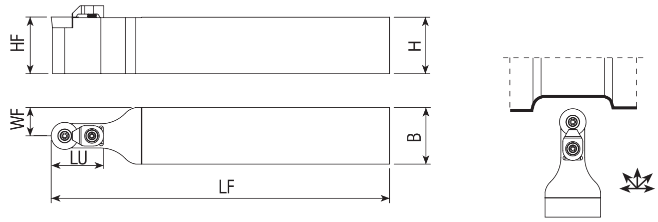
SDNC



ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SDNCN 0808 E07	8	8	70	4	DC.T 0702..	4008M2.5X6	-	-	80T08
SDNCN 1010 E07	10	10	70	5	DC.T 0702..	4008M2.5X6	-	-	80T08
SDNCN 1212 F07	12	12	80	6	DC.T 0702..	4008M2.5X6	-	-	80T08
SDNCN 1616 H07	16	16	100	8	DC.T 0702..	4008M2.5X6	-	-	80T08
SDNCN 1616 H11	16	16	100	8	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
SDNCN 2020 K11	20	20	125	10	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
SDNCN 2525 M11	25	25	150	12.5	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
SDNCN 3232 P11	32	32	170	16	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15

SRDCN



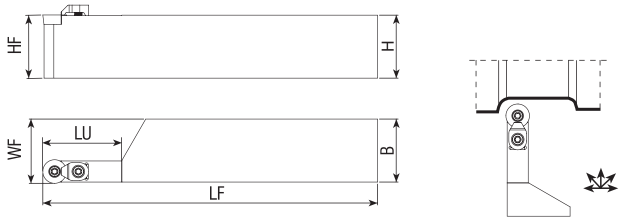


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	LU	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX
SRDCN 1616 H06	16	16	100	15	8	RC.T 0602..	3008M2.5x6	-	-	80T08
SRDCN 2020 K06	20	20	125	17	10	RC.T 0602..	3008M2.5x6	-	-	80T08
SRDCN 2525 M06	25	25	150	17	12.5	RC.T 0602..	3008M2.5x6	-	-	80T08
SRDCN 1616 H08C	16	16	100	15	8	RC.T 0803..	3008M3x8	TCK15	4015M3.5x11	80T08
SRDCN 2020 K08C	20	20	125	20	10	RC.T 0803..	3008M3x8	TCK15	4015M3.5x11	80T08
SRDCN 2525 M08C	25	25	150	20	12.5	RC.T 0803..	3008M3x8	TCK15	4015M3.5x11	80T08
SRDCN 1616 H10C	16	16	100	20	8	RC.T 10T3..	4015M3.5x11	TCK15	4015M3.5x11	80T15
SRDCN 2020 K10C	20	20	125	20	10	RC.T 10T3..	4015M3.5x11	TCK15	4015M3.5x11	80T15
SRDCN 2525 M10C	25	25	150	20	12.5	RC.T 10T3..	4015M3.5x11	TCK15	4015M3.5x11	80T15
SRDCN 3232 P10C	32	32	170	20	16	RC.T 10T3..	4015M3.5x11	TCK15	4015M3.5x11	80T15
SRDCN 2020 K12C	20	20	125	22	10	RC.T 1204..	4015M3.5x11	TCK05	4015M4x11	80T15
SRDCN 2525 M12C	25	25	150	22	12.5	RC.T 1204..	4015M3.5x11	TCK05	4015M4x11	80T15
SRDCN 3232 P12C	32	32	170	22	16	RC.T 1204..	4015M3.5x11	TCK05	4015M4x11	80T15
SRDCN 2525 M16C	25	25	150	32	12.5	RC.T 1605..	1020M5x11	TCK05	4015M4x11	80T15
SRDCN 3232 P16C	32	32	170	35	16	RC.T 1605..	1020M5x11	TCK05	4015M4x11	80T15
SRDCN 2525 M20C	25	25	150	32	12.5	RC.T 2006..	1420M6x16	TCK09	TTV05M6x15	80T20
SRDCN 3232 P20C	32	32	170	40	16	RC.T 2006..	1420M6x16	TCK09	TTV05M6x15	80T20
SRDCN 3232 P25C	32	32	170	40	16	RC.T 2507..	1520M6x16	TCK09	TTV05M6x15	80T20
SRDCN 3232 P32C	32	32	170	45	16	RC.T 3209..	1904M8x1x20	TCK09	TTV05M6x15	AAL054

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

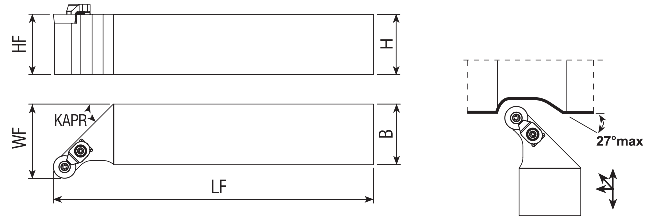
INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

SRDC



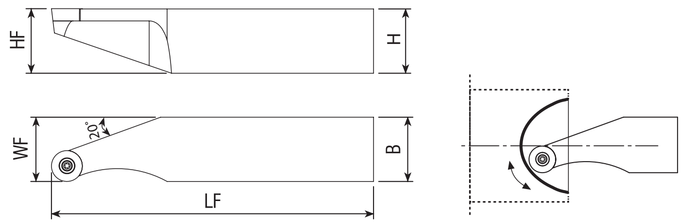
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	LU	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX
SRDCR/L 3232 T06	32	32	300	20	32.35	RC.T 0602..	3008M2.5x6			80T08
SRDCR/L 3232 P12C	32	32	170	40	32.65	RC.T 1204..	4015M3.5x11	TCK05	4015M4x11	80T15

SRGC



ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX
SRGCR/L 1616 H06	16	16	100	20	RC.I 0602..	3008M2.5x6	-	-	80T08
SRGCR/L 2020 K06	20	20	125	25	RC.I 0602..	3008M2.5x6	-	-	80T08
SRGCR/L 1616 H08C	16	16	100	20	RC.T 0803..	3008M3x8	TCK15	4015M3.5x11	80T08
SRGCR/L 2020 K08C	20	20	125	25	RC.T 0803..	3008M3x8	TCK15	4015M3.5x11	80T08
SRGCR/L 2525 M08C	25	25	150	32	RC.T 0803..	3008M3x8	TCK15	4015M3.5x11	80T08
SRGCR/L 1616 H10C	16	16	100	20	RC.T 10T3..	4015M3.5x11	TCK15	4015M3.5x11	80T15
SRGCR/L 2020 K10C	20	20	125	25	RC.T 10T3..	4015M3.5x11	TCK15	4015M3.5x11	80T15
SRGCR/L 2525 M10C	25	25	150	32	RC.T 10T3..	4015M3.5x11	TCK15	4015M3.5x11	80T15
SRGCR/L 3232 P10C	32	32	170	40	RC.T 10T3..	4015M3.5x11	TCK15	4015M3.5x11	80T15
SRGCR/L 2020 K12C	20	20	125	25	RC.T 1204..	4015M3.5x11	TCK05	4015M4x11	80T15
SRGCR/L 2525 M12C	25	25	150	32	RC.T 1204..	4015M3.5x11	TCK05	4015M4x11	80T15
SRGCR/L 3232 P12C	32	32	170	40	RC.T 1204..	4015M3.5x11	TCK05	4015M4x11	80T15

SRHC

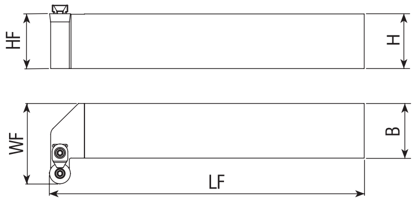


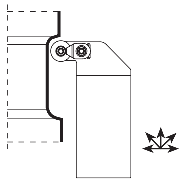
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	MIN R	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
SRHCR/L 2525 K06	25	25	125	25	32.5	RCM. 0602..	3008M2.5x6	80T08
SRHCR/L 2525 K08	25	25	125	25	32.5	RCM. 0803..	3008M3x8	80T08
SRHCR/L 2525 K10	25	25	125	25	36	RCM. 10T3..	4015M3.5x11	80T15
SRHCR/L 2525 K12	25	25	125	25	40	RCM. 1204..	4015M3.5x11	80T15
SRHCR/L 2525 K16	25	25	125	25	47.5	RCM. 1606..	1020M5x11	80T20

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

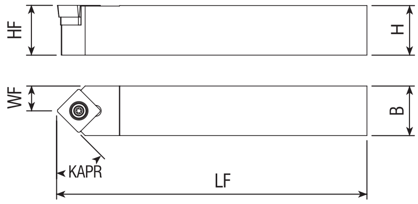
SRXC

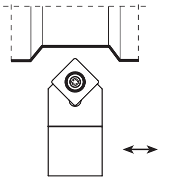




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX
SRXCR/L 3232 X08C	32	32	220	47	RC.T 0803..	3008M3x8	TCK15	4015M3.5x11	80T08
SRXCR/L 3232 X10C	32	32	220	47	RC.T 10T3..	401DM3.5x11	TCK15	4015M3.5x11	80T15
SRXCR/L 3232 X12C	32	32	220	47	RC.T 1204..	401DM3.5x11	TCK05	4015M4x11	80T15

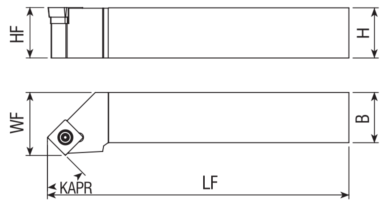
SSDC

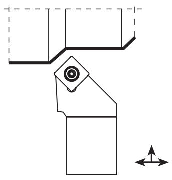




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SSDCN 1212F09	12	12	80	6	SC.T 09T3..	4015M3.5x11	-	-	80T15
SSDCN 1616 H09	16	16	100	8	SC.T 09T3..	4015M3.5x14	TTSN20001	TTV06M3.5x11	80T15
SSDCN 2020 K09	20	20	125	10	SC.T 09T3..	4015M3.5x14	TTSN20001	TTV06M3.5x11	80T15
SSDCN 1616 H12	16	16	100	8	SC.T 1204..	4020M4.5x12	TTSN20004	TTV10M4.5x8	80T20
SSDCN 2020 K12	20	20	125	10	SC.T 1204..	1020M4.5x16	TTSN20004	TTV07M4.5x13	80T20
SSDCN 2525 M12	25	25	150	12.5	SC.T 1204..	1020M4.5x16	TTSN20004	TTV07M4.5x13	80T20

SSSC



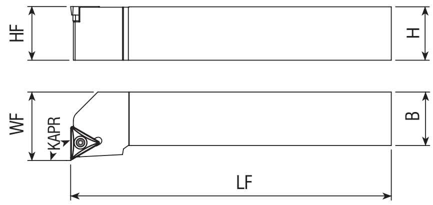


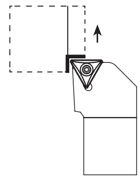
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SSSCR/L 1212 F09	12	12	80	16	SC.T 09T3..	4015M3.5x11	-	-	80T15
SSSCR/L 1616 H09	16	16	100	20	SC.T 09T3..	4015M3.5x14	TTSN20001	TTV06M3.5x11	80T15
SSSCR/L 2020 K09	20	20	125	25	SC.T 09T3..	4015M3.5x14	TTSN20001	TTV06M3.5x11	80T15
SSSCR/L 1616 H12	16	16	100	20	SC.T 1204..	4020M4.5x12	TTSN20004	TTV10M4.5x8	80T20
SSSCR/L 2020 K12	20	20	125	25	SC.T 1204..	1020M4.5x16	TTSN20004	TTV07M4.5x13	80T20
SSSCR/L 2525 M12	25	25	150	32	SC.T 1204..	1020M4.5x16	TTSN20004	TTV07M4.5x13	80T20

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

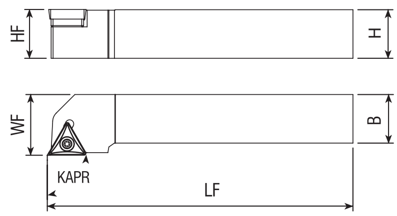
STFC

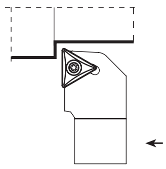




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
STFCR/L 0808 E09	8	8	70	10	TC.T 0902..	3007M2.2x5	-	-	80T07
STFCR/L 1010 E09	10	10	70	12	TC.T 0902..	3007M2.2x5	-	-	80T07
STFCR/L 1212 F11	12	12	80	16	TC.T 1102..	4008M2.5x6	-	-	80T08
STFCR/L 1616 H11	16	16	100	20	TC.T 1102..	4008M2.5x6	-	-	80T08
STFCR/L 1616 H16	16	16	100	20	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STFCR/L 2020 K16	20	20	125	25	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STFCR/L 2525 M16	25	25	150	32	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STFCR/L 3232 P16	32	32	170	40	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15

STGC



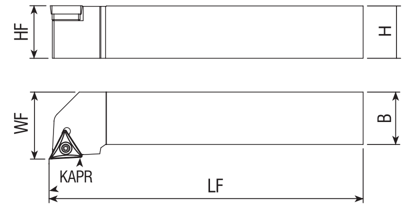


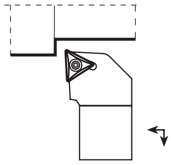
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
STGCR/L 0808 E09	8	8	70	10	TC.T 0902..	3007M2.2x5	-	-	80T07
STGCR/L 1010 E09	10	10	70	12	TC.T 0902..	3007M2.2x5	-	-	80T07
STGCR/L 1212 F11	12	12	80	16	TC.T 1102..	4008M2.5x6	-	-	80T08
STGCR/L 1616 H11	16	16	100	20	TC.T 1102..	4008M2.5x6	-	-	80T08
STGCR/L 1616 H16	16	16	100	20	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STGCR/L 2020 K16	20	20	125	25	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STGCR/L 2525 M16	25	25	150	32	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STGCR/L 3232 P16	32	32	170	40	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

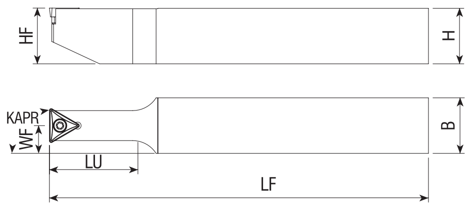
STJC

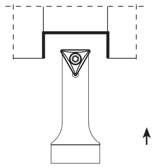




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
STJCR/L 0808 E09	8	8	70	10	TCT 0902..	3007M2.2x5	-	-	80T07
STJCR/L 1010 E09	10	10	70	12	TCT 0902..	3007M2.2x5	-	-	80T07
STJCR/L 1212 F11	12	12	80	16	TC.T 1102..	4008M2.5x6	-	-	80T08
STJCR/L 1616 H11	16	16	100	20	TC.T 1102..	4008M2.5x6	-	-	80T08
STJCR/L 1616 H16	16	16	100	20	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STJCR/L 2020 K16	20	20	125	25	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STJCR/L 2525 M16	25	25	150	32	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STJCR/L 3232 P16	32	32	170	40	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15

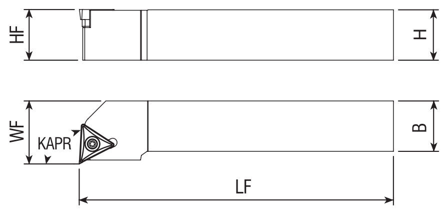
STCC

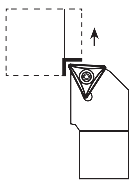




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	LU	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
STCCN 2020 L11	20	20	140	10	50	TC.T 1102..	4008M2.5x6	-	-	80T08
STCCN 1616 K16	16	16	125	8	24	TC.T 1102..	4008M2.5x6	-	-	80T15
STCCN 2020 M16	20	20	150	10	30	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STCCN 2525 P16	25	25	170	12.5	37.5	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STCCN 3232 R16	32	32	200	16	48	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STCCN 2525 P22	25	25	170	12.5	80	TC.T 2204..	4020M4.5x12	-	-	80T20

STUC

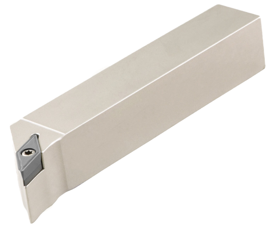
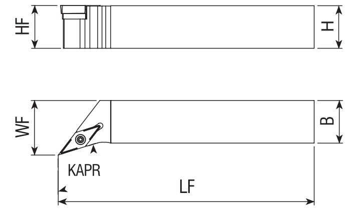


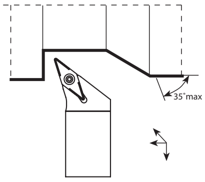


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
STUCR/L 0808 E09	8	8	70	10	TC.T 0902..	3007M2.2x5	-	-	80T07
STUCR/L 1010 E09	10	10	70	12	TC.T 0902..	3007M2.2x5	-	-	80T07
STUCR/L 1212 F11	12	12	80	16	TC.T 1102..	4008M2.5x6	-	-	80T08
STUCR/L 1616 H11	16	16	100	20	TC.T 1102..	4008M2.5x6	-	-	80T08
STUCR/L 1616 H16	16	16	100	20	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STUCR/L 2020 K16	20	20	125	25	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STUCR/L 2525 M16	25	25	150	32	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
STUCR/L 3232 P16	32	32	170	40	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

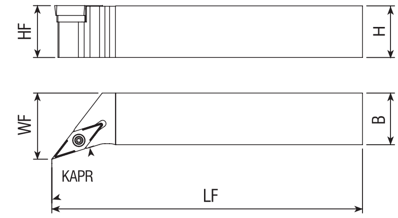
SVHB

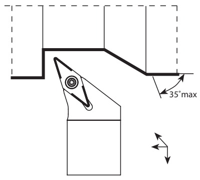





ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SVHBR/L 1212 F11	12	12	80	16	VBM. 1103..	4008M2.5x6	-	-	80T08
SVHBR/L 1616 H11	16	16	100	20	VBM. 1103..	4008M2.5x6	-	-	80T08
SVHBR/L 2020 K11	20	20	125	25	VBM. 1103..	4008M2.5x6	-	-	80T08
SVHBR/L 2020 K16	20	20	125	25	VB.T1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVHBR/L 2525 M16	25	25	150	32	VB.T1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVHBR/L 3232 P16	32	32	170	40	VB.T1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15

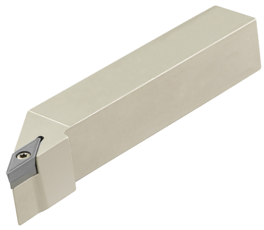
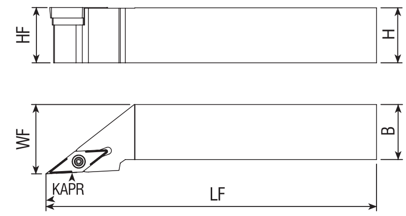
SVHC

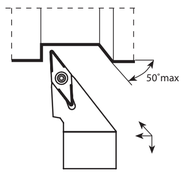





ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SVHCR/L 1212 F11	12	12	80	16	VC.T 1103..	4008M2.5x6	-	-	80T08
SVHCR/L 1616 H11	16	16	100	20	VC.T 1103..	4008M2.5x6	-	-	80T08
SVHCR/L 2020 K11	20	20	125	25	VC.T 1103..	4008M2.5x6	-	-	80T08
SVHCR/L 2020 K16	20	20	125	25	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVHCR/L 2525 M16	25	25	150	32	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVHCR/L 3232 P16	32	32	170	40	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15

SVJB

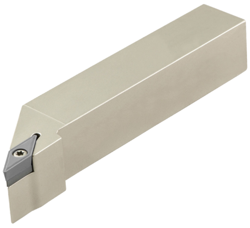



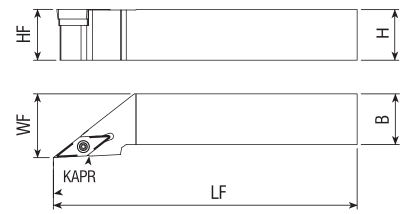


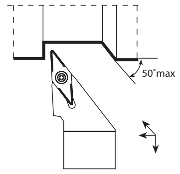
ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SVJBR/L 1212 F11	12	12	80	16	VC.T 1103..	4008M2.5x6	-	-	80T08
SVJBR/L 1616 H11	16	16	100	20	VC.T 1103..	4008M2.5x6	-	-	80T08
SVJBR/L 2020 K11	20	20	125	25	VC.T 1103..	4008M2.5x6	-	-	80T08
SVJBR/L 1616 H16	16	16	100	20	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVJBR/L 2020 K16	20	20	125	25	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVJBR/L 2525 M16	25	25	150	32	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVJBR/L 3232 P16	32	32	170	40	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15

INSERT HOLDERS NOŻE TOKARSKIE ZEWNĘTRZNE

SVJC

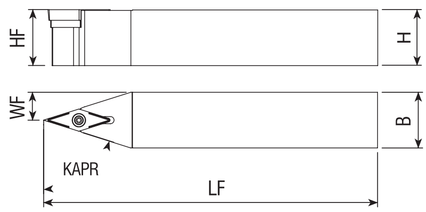


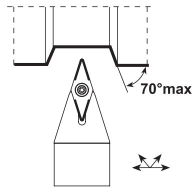




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SVJCR/L 1212 F11	12	12	80	16	VC.T 1103..	4008M2.5x6	-	-	80T08
SVJCR/L 1616 H11	16	16	100	20	VC.T 1103..	4008M2.5x6	-	-	80T08
SVJCR/L 2020 K11	20	20	125	25	VC.T 1103..	4008M2.5x6	-	-	80T08
SVJCR/L 2525 M11	25	25	150	32	VC.T 1103..	4008M2.5x6	-	-	80T08
SVJCR/L 1212 F16	12	12	80	16	VC.T 1604..	4015M3.5x11	-	-	80T15
SVJCR/L 2020 K16	20	20	125	25	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVJCR/L 2525M16	25	25	150	32	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVJCR/L 3232 P16	32	32	170	40	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15

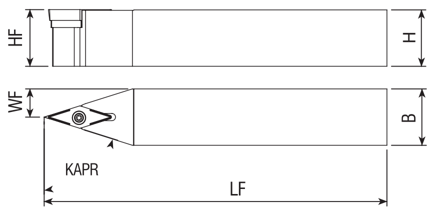
SVVB

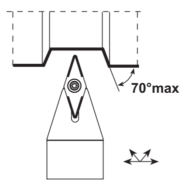




ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SVVBN 1212 F11	12	12	80	6	VBM. 1103..	4008M2.5x6	-	-	80T08
SVVBN 1616 H11	16	16	100	8	VBM. 1103..	4008M2.5x6	-	-	80T08
SVVBN 2020 K11	20	20	125	10	VBM. 1103..	4008M2.5x6	-	-	80T08
SVVBN 2020 K16	20	20	125	10	VB.T1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVVBN 2525 M16	25	25	150	12.5	VB.T1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVVBN 3232 P16	32	32	170	16	VB.T1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15

SVVC

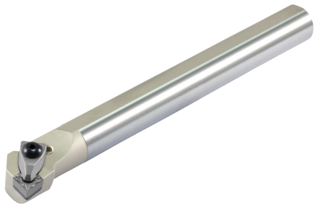


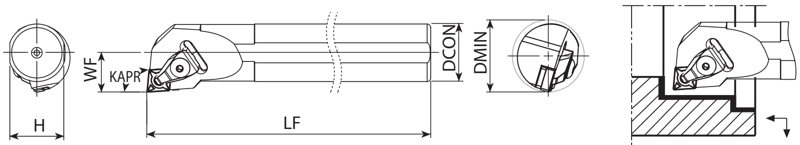


ORDER CODE KOD ZAMÓWIENIA	HF=H	B	LF	WF	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
SVVCN 1212 F11	12	12	80	6	VC.T 1103..	4008M2.5x6	-	-	80T08
SVVCN 1616 H11	16	16	100	8	VC.T 1103..	4008M2.5x6	-	-	80T08
SVVCN 2020 K11	20	20	125	10	VC.T 1103..	4008M2.5x6	-	-	80T08
SVVCN 2020 K16	20	20	125	10	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVVCN 2525 M16	25	25	150	12.5	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
SVVCN 3232 P16	32	32	170	16	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15

INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

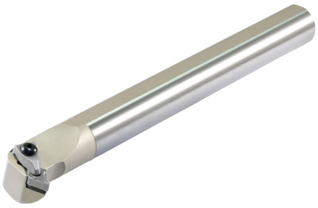
TCLN

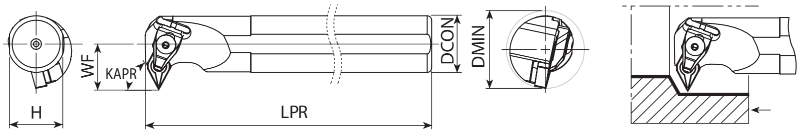




ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S25S TCLNR/L 09	25	23	250	17	32	CNM. 0903..	TTK01	TKV01M5x22	TTCN 20001	TTV09M5x9	-	TBPL01	TTL033
S25S TCLNR/L 12	25	23	250	17	32	CNM 1204	TTK02	TKV30M6v22	TTCN 30001	TTV13M5x8	TS01	TBPL01	TTL033
S32T TCLNR/L 12	32	30	300	22	40	CNM 1204	TTK02	TKV30M6v22	TTCN 30001	TTV02M5x12	TS01	TBPL01	TTL033
S40U TCLNR/L 12	40	37.5	350	27	50	CNM 1204	TTK02	TKV30M6v22	TTCN 30001	TTV02M5x12	TS01	TBPL01	TTL033
S50V TCLNR/L 12	50	47	400	35	63	CNM 1204	TTK02	TKV30M6v22	TTCN 30001	TTV02M5x12	TS01	TBPL01	TTL033
S32T TCLNR/L 16	32	30	300	22	40	CNM. 1606..	TTK04	TKV19M7x25	TTCN 30002	TTV05M6x15	TS02	TBPL02	TTL054
S40U TCLNR/L 16	40	37.5	350	27	50	CNM. 1606..	TTK04	TKV19M7x25	TTCN 30002	TTV05M6x15	TS02	TBPL02	TTL054
S50V TCLNR/L 16	50	47	400	35	63	CNM. 1606..	TTK04	TKV19M7x25	TTCN 30002	TTV05M6x15	TS02	TBPL02	TTL054

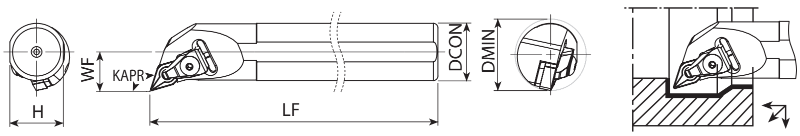
TDN





ORDER CODE KOD ZAMÓWIENIA	DCON	H	LPR	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S32T TDNR/L 15	32	30	300	26	44	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
S40U TDNR/L 15	40	37.5	350	29	52	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
S50V TDNR/L 15	50	47	400	35	63	DNM. 1506..	TTK02	TKV30M6x22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033

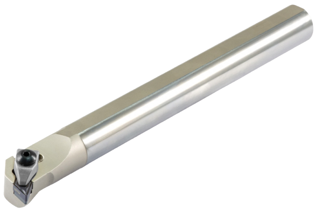
TDQN

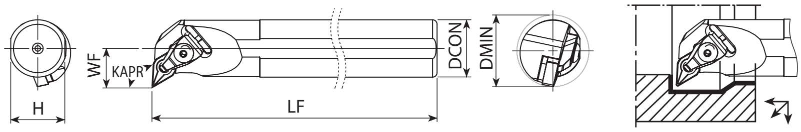


ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S25S TDQNR/L 11	25	23	250	17	32	DNM. 1104..	TTK01	TKV01M5x22	TTDN 20001	TTV09M5x9	-	TBPL01	TTL033
S32T TDQNR/L 11	32	30	300	22	40	DNM. 1104..	TTK01	TKV01M5x22	TTDN 20001	TTV04M5x12	-	TBPL01	TTL033
S25S TDQNR/L 15	25	23	250	17	32	DNM. 1506..	TTK02	TKV30M6X22	TTDN30001	TTV13M5X8	TS01	TBPL01	TTL033
S32T TDQNR/L 15	32	30	300	22	40	DNM. 1506..	TTK02	TKV30M6X22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
S40U TDQNR/L 15	40	37.5	350	27	50	DNM. 1506..	TTK02	TKV30M6X22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033
S50V TDQNR/L 15	50	47	400	35	63	DNM. 1506..	TTK02	TKV30M6X22	TTDN30001	TTV02M5x12	TS01	TBPL01	TTL033

INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

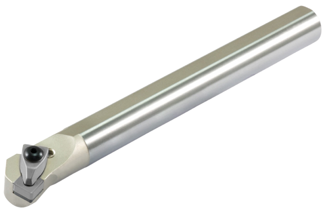
TDUN

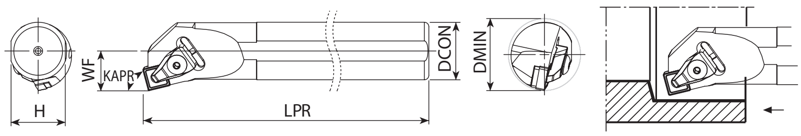




ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S25S TDUNR/L 11	25	23	250	17	32	DNM. 1104..	TTK01	TKVU1M5X22	TTDN 20001	TTV09M5x9	-	TBPL01	TTL033
S32T TDUNR/L 11	32	30	300	22	40	DNM. 1104..	TTK01	TKVU1M5X22	TTDN 20001	TTV04M5x12	-	TBPL01	TTL033
S25S TDUNR/L 15	25	23	250	17	32	DNM. 1506..	TTK02	TKV30M6x22	TTDN 30001	TTV13M5x8	TS01	TBPL01	TTL033
S32T TDUNR/L 15	32	30	300	22	40	DNM. 1506..	TTK02	TKV30M6x22	TTDN 30001	TTV02M5x12	TS01	TBPL01	TTL033
S40U TDUNR/L 15	40	37.5	350	27	50	DNM. 1506..	TTK02	TKV30M6x22	TTDN 30001	TTV02M5x12	TS01	TBPL01	TTL033
S50V TDUNR/L 15	50	47	400	35	63	DNM. 1506..	TTK02	TKV30M6x22	TTDN 30001	TTV02M5x12	TS01	TBPL01	TTL033

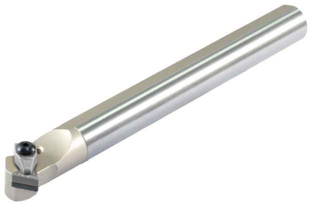
TSKN

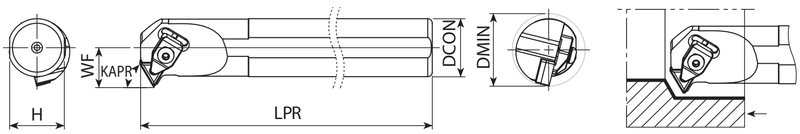




ORDER CODE KOD ZAMÓWIENIA	DCON	H	LPR	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S25S TSKNR/L 12	25	23	250	17	32	SNM. 1204..	TTK02	TKV30M6x22	TTSN 30004	TTV13M5x8	TS01	TBPL01	TTL033
S32T TSKNR/L 12	32	30	300	22	40	SNM. 1204..	TTK02	TKV30M6x22	TTSN 30004	TTV02M5x12	TS01	TBPL01	TTL033
S40U TSKNR/L 12	40	37.5	350	27	50	SNM. 1204..	TTK02	TKV30M6x22	TTSN 30004	TTV02M5x12	TS01	TBPL01	TTL033

TTN

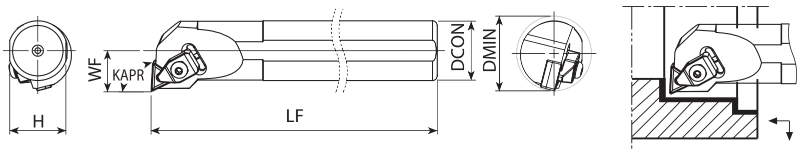




ORDER CODE KOD ZAMÓWIENIA	DCON	H	LPR	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S25S TTNR/L 16	25	23	250	17	32	TNM. 1604..	TTK01	TKV01M5x22	TTTN20002	TTV03M5x12	TBPL01	TTL033
S32T TTNR/L 16	32	30	300	22	40	TNM. 1604..	TTK01	TKV01M5x22	TTTN20002	TTV03M5x12	TBPL01	TTL033

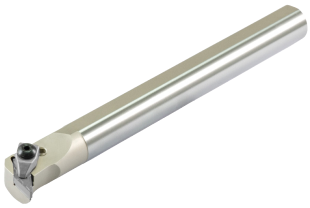
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

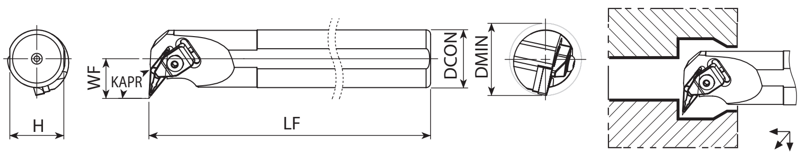
TTUN



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S25S TTUNR/L 16	25	23	250	17	32	TNM. 1604..	TTK01	TKV01M5x22	TTTN 20002	TTV03M5x12	-	TBPL01	TTL033
S32T TTUNR/L 16	32	30	300	22	40	TNM. 1604..	TTK01	TKV01M5x22	TTTN 20002	TTV03M5x12	-	TBPL01	TTL033
S25S TTUNR/L 22	25	23	250	17	32	TNM. 2204..	TTK02	TKV30M6x22	TTTN 30015	TTV02M5x12	TS01	TBPL01	TTL033
S32T TTUNR/L 22	32	30	300	22	40	TNM. 2204..	TTK02	TKV30M6x22	TTTN 30015	TTV02M5x12	TS01	TBPL01	TTL033
S40U TTUNR/L 22	40	37.5	350	27	50	TNM. 2204..	TTK02	TKV30M6x22	TTTN 30015	TTV02M5x12	TS01	TBPL01	TTL033
S50V TTUNR/L 22	50	47	400	35	63	TNM. 2204..	TTK02	TKV30M6x22	TTTN 30015	TTV02M5x12	TS01	TBPL01	TTL033

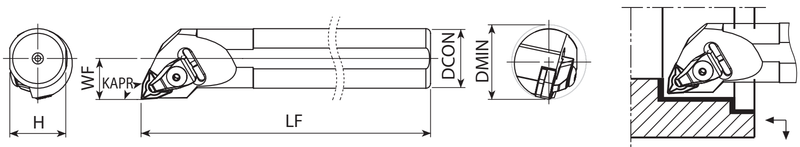
TVUN





ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	SPRING SPRĘŻYNA	STAMP	ALLEN KEY KLUCZ IMBUSOWY
S25S TVUNR/L 16	25	23	250	20	36	VNM. 1604..	TTK01	TKV01M5x22	TTVN 20002	TTV04M5x12	-	TBPL01	TTL033
S32T TVUNR/L 16	32	30	300	22	40	VNM. 1604..	TTK01	TKV01M5x22	TTVN 20002	TTV04M5x12	-	TBPL01	TTL033
S40U TVUNR/L 16	40	37.5	350	27	50	VNM. 1604..	TTK01	TKV01M5x22	TTVN 20002	TTV04M5x12	-	TBPL01	TTL033

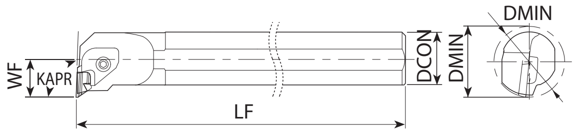
TWLN

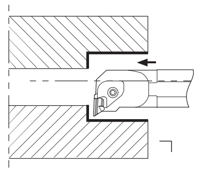


ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S25S TWLNR/L 06	25	23	250	17	32	WNM. 0604..	TTK01	TKV01M5x22	TTWN SW317	TTV01M3x10	-	TBPL01	TTL033
S32T TWLNR/L 06	32	30	300	22	40	WNM. 0604..	TTK01	TKV01M5x22	TTWN SW317	TTV01M3x10	-	TBPL01	TTL033
S25S TWLNR/L 08	25	23	250	17	32	WNM. 0804..	TTK02	TKV30M6x22	TTWN 30001	TTV13M5x8	TS01	TBPL01	TTL033
S32T TWLNR/L 08	32	30	300	22	40	WNM. 0804..	TTK02	TKV30M6x22	TTWN 30001	TTV02M5x12	TS01	TBPL01	TTL033
S40U TWLNR/L 08	40	37.5	350	27	50	WNM. 0804..	TTK02	TKV30M6x22	TTWN 30001	TTV02M5x12	TS01	TBPL01	TTL033
S50V TWLNR/L 08	50	47	400	35	63	WNM. 0804..	TTK02	TKV30M6x22	TTWN 30001	TTV02M5x12	TS01	TBPL01	TTL033
A40T TWLNR/L 08	40	37.5	300	27	50	WNM. 0804..	TTK02	TKV30M6x22	TTWN 30001	TTV02M5x12	TS01	TBPL01	TTL033
A50U TWLNR/L 08	50	47	350	35	63	WNM. 0804..	TTK02	TKV30M6x22	TTWN 30001	TTV02M5x12	TS01	TBPL01	TTL033

INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

CKUN

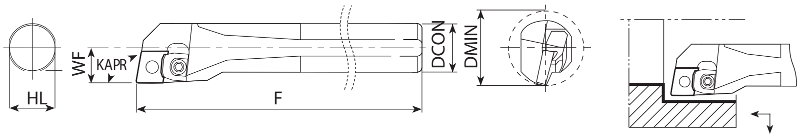




ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	SPRING SPRĘŻYNA	STAMP	ALLEN KEY KLUCZ IMBUSOWY
S25S CKUNR/L 16	25	23	250	19	38	KNUX 1604..	TCK01R TCK02L	TKV06M6x20	TKS16R TKS16L	TTV01M3x10	TKY02	TBPL01	TTL054
S32T CKUNR/L 16	32	30	300	22	40	KNUX 1604..	TCK01R TCK02L	TKV06M6x20	TKS16R TKS16L	TTV01M3x10	TKY02	TBPL01	TTL054
S40U CKUNR/L 16	40	37.5	350	27	50	KNUX 1604..	TCK01R TCK02L	TKV06M6x20	TKS16R TKS16L	TTV01M3x10	TKY02	TBPL01	TTL054
S50V CKUNR/L 16	50	47	400	35	63	KNUX 1604..	TCK01R TCK02L	TKV06M6x20	TKS16R TKS16L	TTV01M3x10	TKY02	TBPL01	TTL054

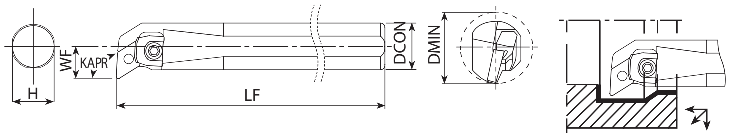
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

MCLN



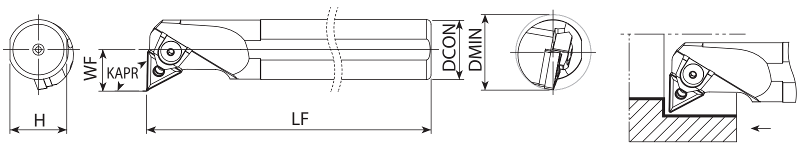
ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	PIN TRZPIEŃ	ALLEN KEY KLUCZ IMBUSOWY
S20R MCLNR/L 12	20	18.3	200	13	25	CNM. 1204..	TMK07	TKV04M5x17	-	TPM12	TTL033
S25S MCLNR/L 12	25	23	250	17	32	CNM. 1204..	TMK03	TKV04M5x17	TTCN30001	TPM13	TTL033
S32T MCLNR/L 12	32	30	300	22	40	CNM. 1204..	TMK03	TKV04M5x17	TTCN30001	TPM04	TTL033

MDUN



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	PIN TRZPIEŃ	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S20R MDUNR/L 11	20	18.3	200	13	25	DNM. 1104..	TMK03	TKV17M5x15	-	-	TPM03	-	TTL033
S25S MDUNR/L 11	25	23	250	17	32	DNM. 1104..	TMK03	TKV04M5x17	-	-	TPM03	-	TTL033
S32T MDUNR/L 11	32	30	300	22	40	DNM. 1104..	TMK03	TKV04M5x17	-	-	TPM03	-	TTL033
S25S MDUNR/L 15	25	23	250	17	32	DNM. 1506..	TMK04	TKV20M6x19	TTDN30001	-	TPM04	TBPL01	TTL033
S32T MDUNR/L 15	32	30	300	22	40	DNM. 1506..	TMK04	TKV30M6x22	TTDN30001	TS01	TPM04	TBPL01	TTL033
S40U MDUNR/L 15	40	37.5	350	27	50	DNM. 1506..	TMK04	TKV30M6x22	TTDN30001	TS01	TPM04	TBPL01	TTL033
S50V MDUNR/L 15	50	47	400	35	63	DNM. 1506..	TMK04	TKV30M6x22	TTDN30001	TS01	TPM04	TBPL01	TTL033

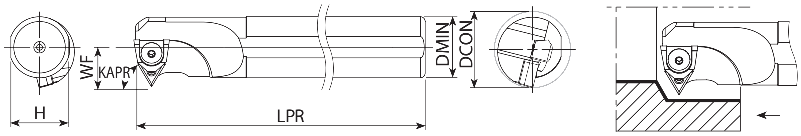
MTFN



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	PIN TRZPIEŃ	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S20R MTFNR/L 16	20	18.3	200	14	25	TNM. 1604..	TMK02	TKV17M5x15	-	TPM03	-	-	TTL033
S25S MTFNR/L 16	25	23	250	17	32	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM14	TS01	TBPL01	TTL033
S32T MTFNR/L 16	32	30	300	22	40	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
S40U MTFNR/L 16	40	37.5	350	27	50	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
S32T MTFNR/L 22	32	30	300	22	40	TNM. 2204..	TMK04	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033
S40U MTFNR/L 22	40	37.5	350	27	50	TNM. 2204..	TMK04	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033
S50V MTFNR/L 22	50	47	400	35	63	TNM. 2204..	TMK04	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033

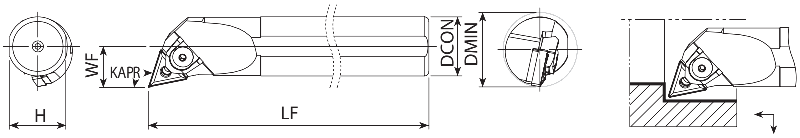
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

MTN



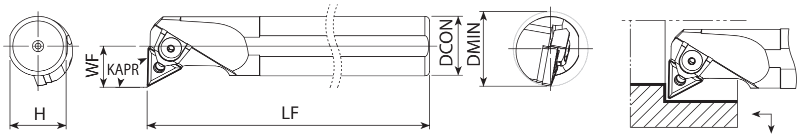
ORDER CODE KOD ZAMÓWIENIA	DCON	H	LPR	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	PIN TRZPIEŃ	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S20R MTNR/L 16	20	18.3	200	16	26	TNM. 1604..	TMK02	TKV04M5x17	-	TPM03	-	-	TTL033
S25S MTNR/L 16	25	23	250	17	32	TNM. 1604..	TMK02	TKV04M5x17	TTTN20002	TPM14	-	-	TTL033
S32T MTNR/L 16	32	30	300	22	40	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
S40U MTNR/L 16	40	37.5	350	27	50	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
S32T MTNR/L 22	32	30	300	24	40	TNM. 2204..	TMK04	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033
S40U MTNR/L 22	40	37.5	350	27	50	TNM. 2204..	TMK04	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033
S50U MTNR/L 22	50	47	350	35	63	TNM. 2204..	TMK04	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033

MTQN



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	PIN TRZPIEŃ	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S20R MTQNR/L 16	20	18.3	200	13	25	TNM. 1604..	TMK02	TKV17M5x15	-	TPM11	-	-	TTL033
S25S MTQNR/L 16	25	23	250	17	32	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM14	TS01	TBPL01	TTL033
S32T MTQNR/L 16	32	30	300	22	40	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM14	TS01	TBPL01	TTL033
S40U MTQNR/L 16	40	37.5	350	27	50	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
S32T MTQNR/L 22	32	30	300	22	40	TNM. 2204..	TMK04	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033
S40U MTQNR/L 22	40	37.5	350	27	50	TNM. 2204..	TMK04	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033
S50V MTQNR/L 22	50	47	400	35	63	TNM. 2204..	TMK04	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033

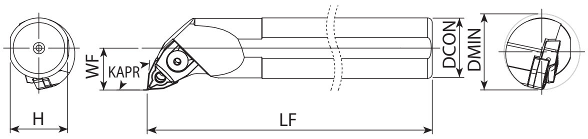
MTUN

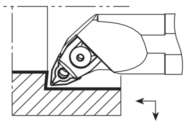


ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	PIN TRZPIEŃ	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S20R MTUNR/L 16	20	18.3	200	13	25	TNM. 1604..	TMK02	TKV17M5x15	-	TPM03	-	-	TTL033
S25S MTUNR L 16	25	23	250	17	32	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM14	TS01	TBPL01	TTL033
S32T MTUNR/L 16	32	30	300	22	40	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
S40U MTUNR/L 16	40	37.5	350	27	50	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
S50V MTUNR/L 16	50	47	400	35	63	TNM. 1604..	TMK04	TKV30M6x22	TTTN20002	TPM01	TS01	TBPL01	TTL033
S32T MTUNR/L 22	32	30	300	22	40	TNM. 2204..	TMK04	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033
S40U MTUNR/L 22	40	37.5	350	27	50	TNM. 2204..	TMK04	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033
S50V MTUNR/L 22	50	47	400	35	63	TNM. 2204..	TMK04	TKV30M6x22	TTTN30015	TPM02	TS01	TBPL01	TTL033

INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

MWLN

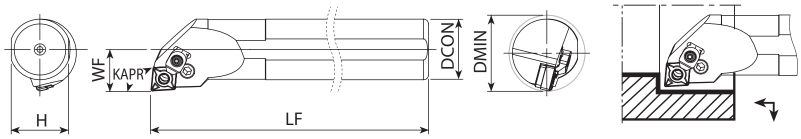


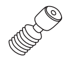
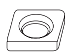
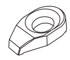
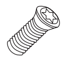
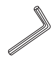


ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	SHIM PODKŁADKA	PIN TRZPIEŃ	RING PIERŚCIEŃ	STAMP PODKŁADKA	ALLEN KEY KLUCZ IMBUSOWY
S16P MWLNR/L 06	16	14.8	170	11	20	WNM. 0604..	TMK01	TKV17M5x15	-	TPM09	-	-	TTL033
S20R MWLNR/L 06	20	18.3	200	13	25	WNM. 0604..	TMK01	TKV04M5x17	-	TPM10	-	-	TTL033
S25S MWLNR/L 06	25	23	250	17	32	WNM. 0604..	TMK01	TKV04M5x17	-	TPM08	-	-	TTL033
S25S MWLNR/L 08	25	23	250	17	32	WNM. 0804..	TMK05	TKV27M6x20	TTWN30001	TPM04	TS01	TBPL01	TTL033
S32T MWLNR/L 08	32	30	300	22	40	WNM. 0804..	TMK05	TKV03M6X22	TTWN30001	TPM02	TS01	TBPL01	TTL033
S40U MWLNR/L 08	40	37.5	350	27	50	WNM. 0804..	TMK05	TKV03M6X22	TTWN30001	TPM02	TS01	TBPL01	TTL033

INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

PCLN

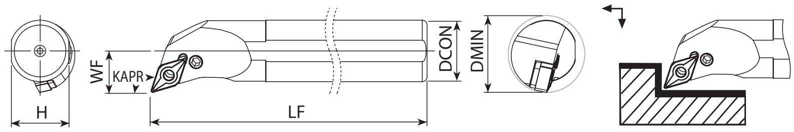


ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
													
S16P PCLNR/L 09	16	14.8	170	11	20	CNM. 0903..	TPL07	TLV07M6x13		TTY07	-	-	TTL022.5
S20R PCLNR/L 09	20	18.3	200	13	25	CNM. 0903..	TPL01	TLV02M6x17	TTCN20002	TTY01	-	-	TTL022.5
S25S PCLNR/L 09	25	23	250	17	32	CNM. 0903..	TPL01	TLV02M6x17	TTCN20002	TTY01	-	-	TTL022.5
S25S PCLNR/L 12C	25	23	250	17	32	CNM. 1204..	TPL02	TLV08M8x16	TTCN30001	TTY02	TCK05	4015M4x11	TTL033
S32T PCLNR/L 12C	32	30	300	22	40	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4x11	TTL033
S40U PCLNR/L 12C	40	37.5	350	27	50	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4x11	TTL033
S50V PCLNR/L 12C	50	47	400	35	63	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4x11	TTL033
S32T PCLNR/L 16C	32	30	300	22	40	CNM. 1606..	TPL04	TLV04M8X22	TTCN30002	TTY03	TCK09	TTV05M6x15	TTL033
S40U PCLNR/L 16C	40	37.5	350	27	50	CNM. 1606..	TPL04	TLV04M8X22	TTCN30002	TTY03	TCK09	TTV05M6x15	TTL033
S50V PCLNR/L 16C	50	47	400	35	63	CNM. 1606..	TPL04	TLV04M8X22	TTCN30002	TTY03	TCK09	TTV05M6x15	TTL033
S40U PCLNR/L 19C	40	37.5	350	27	50	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TCK09	TTV05M6x15	TTL054
S50V PCLNR/L 19C	50	47	400	35	63	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TCK09	TTV05M6x15	TTL054
A20P PCLNR/L 09	20	18.3	170	13	25	CNM. 0903..	TPL01	TLV02M6x17	TTCN20002	TTY01	-	-	TTL022.5
A25R PCLNR/L 12C	25	23	200	17	32	CNM. 1204..	TPL02	TLV08M8x16	TTCN30001	TTY02	TCK05	4015M4x11	TTL033
A32S PCLNR/L 12C	32	30	250	22	40	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4x11	TTL033
A40T PCLNR/L 12C	40	37.5	300	27	50	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4x11	TTL033
A50U PCLNR/L 12C	50	47	350	35	63	CNM. 1204..	TPL02	TLV03M8x19	TTCN30001	TTY02	TCK05	4015M4x11	TTL033
A32S PCLNR/L 16C	32	30	250	22	40	CNM. 1606..	TPL04	TLV04M8x22	TTCN30002	TTY03	TCK09	TTV05M6x15	TTL033
A40T PCLNR/L 16C	40	37.5	300	27	50	CNM. 1606..	TPL04	TLV04M8x22	TTCN30002	TTY03	TCK09	TTV05M6x15	TTL033
A50U PCLNR/L 16C	50	47	350	35	63	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TCK09	TTV05M6x15	TTL054
A40T PCLNR/L 19C	40	37.5	300	27	50	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TTL054	TTV05M6x15	TTL054
A50U PCLNR/L 19C	50	47	350	35	63	CNM. 1906..	TPL05	TLV05M10x27	TTCN30003	TTY04	TTL054	TTV05M6x15	TTL054

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

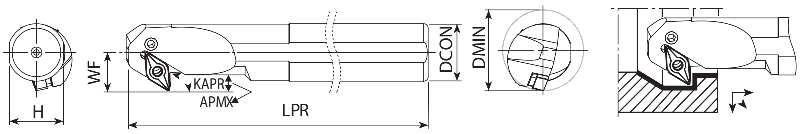
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

PDQN



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	ALLEN KEY KLUCZ IMBUSOWY
S20R PDQNR/L 11	20	18.3	200	13	25	DNM. 1104..	TPL01	TLV01M6x14	TTDNSD317	TTY01	TTL022.5
S25S PDQNR/L 11	25	23	250	17	32	DNM. 1104..	TPL01	TLV02M6x17	TTDNSD317	TTY01	TTL022.5
S32T PDQNR/L 15	32	30	300	22	40	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
S40U PDQNR/L 15	40	37.5	350	27	50	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
S50V PDQNR/L 15	50	47	400	35	63	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
S32T PDQNR/L 1504	32	30	300	22	40	DNM. 1504..	TPL03	TLV03M8x19	TTDN20003	TTY02	TTL033
S40U PDQNR/L 1504	40	37.5	350	27	50	DNM. 1504..	TPL03	TLV03M8x19	TTDN20003	TTY02	TTL033
S50V PDQNR/L 1504	50	47	400	35	63	DNM. 1504..	TPL03	TLV03M8x19	TTDN20003	TTY02	TTL033
A20P PDQNR/L 11	20	18.3	170	13	25	DNM. 1104..	TPL01	TLV01M6x14	TTDNSD317	TTY01	TTL022.5
A25R PDQNR/L 11	25	23	200	17	32	DNM. 1104..	TPL01	TLV02M6x17	TTDNSD317	TTY01	TTL022.5
A32S PDQNR/L 15	32	30	250	22	40	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
A40T PDQNR/L 15	40	37.5	300	27	50	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
A50U PDQNR/L 15	50	47	350	35	63	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
A32S PDQNR/L 1504	32	30	250	22	40	DNM. 1504..	TPL03	TLV03M8x19	TTDN20003	TTY02	TTL033
A40T PDQNR/L 1504	40	37.5	300	27	50	DNM. 1504..	TPL03	TLV03M8x19	TTDN20003	TTY02	TTL033

PDXN

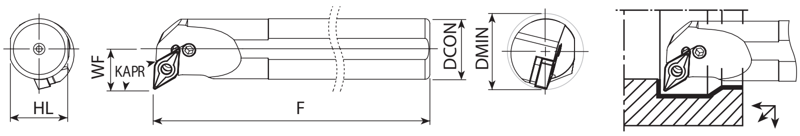


ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	APMX	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	ALLEN KEY KLUCZ IMBUSOWY
S32T PDXNR/L 15	32	30	300	22	12	45	DNM. 1506..	TPL03	TLV08M8x16	TTDN30001	TTY02	TTL033
S40U PDXNR/L 15	40	37.5	350	27	14	50	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
S50V PDXNR/L 15	50	47	400	35	19	63	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
A32S PDXNR/L 15	32	30	250	22	12	40	DNM. 1506..	TPL03	TLV08M8x16	TTDN30001	TTY02	TTL033
A40T PDXNR/L 15	40	37.5	300	27	14	50	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
A50U PDXNR/L 15	50	47	350	35	19	63	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

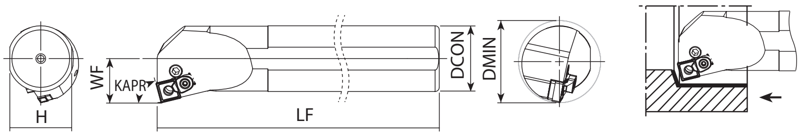
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

PDUN



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	ALLEN KEY KLUCZ IMBUSOWY
S20R PDUNR/L 11	20	18.3	200	13	25	DNM. 1104..	TPL01	TLV01M6x14	TTDNSD317	TTY01	TTL022.5
S25S PDUNR/L 11	25	23	250	17	32	DNM. 1104..	TPL01	TLV02M6x17	TTDNSD317	TTY01	TTL022.5
S25S PDUNR/L 15	25	23	250	19	32	DNM. 1506..	TPL03	TLV08M8x16	TTDN30001	TTY02	TTL033
S32T PDUNR/L 15	32	30	300	22	40	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
S40U PDUNR/L 15	40	37.5	350	27	50	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
S50V PDUNR/L 15	50	47	400	35	63	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
A20P PDUNR/L 11	20	18.3	170	13	25	DNM. 1104..	TPL01	TLV01M6x14	TTDNSD317	TTY01	TTL022.5
A25R PDUNR/L 11	25	23	200	17	32	DNM. 1104..	TPL01	TLV02M6x17	TTDNSD317	TTY01	TTL022.5
A32S PDUNR/L 11	32	30	250	22	40	DNM. 1104..	TPL01	TLV02M6x17	TTDNSD317	TTY01	TTL022.5
A32S PDUNR/L 15	32	30	250	22	40	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
A40T PDUNR/L 15	40	37.5	300	27	50	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033
A50U PDUNR/L 15	50	47	350	35	63	DNM. 1506..	TPL03	TLV03M8x19	TTDN30001	TTY02	TTL033

PSKN

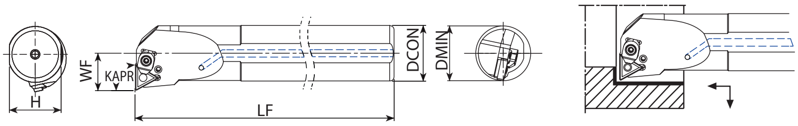


ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
S25S PSKNR/L 12C	25	23	250	17	32	SNM. 1204..	TPL02	TLV08M8x16	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
S32T PSKNR/L 12C	32	30	300	22	40	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
S40U PSKNR/L 12C	40	37.5	350	27	50	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
S50V PSKNR/L 12C	50	47	400	35	63	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
S32T PSKNR/L 15C	32	30	300	22	40	SNM. 1506..	TPL04	TLV04M8X22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033
S40U PSKNR/L 15C	40	37.5	350	27	50	SNM. 1506..	TPL04	TLV04M8X22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033
S50V PSKNR/L 15C	50	47	400	35	63	SNM. 1506..	TPL04	TLV04M8X22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033
A25R PSKNR/L 12C	25	23	200	17	32	SNM. 1204..	TPL02	TLV08M8x16	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
A32S PSKNR/L 12C	32	30	250	22	40	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
A40T PSKNR/L 12C	40	37.5	300	27	50	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
A50U PSKNR/L 12C	50	47	350	35	63	SNM. 1204..	TPL02	TLV03M8x19	TTSN30004	TTY02	TCK05	4015M4x11	TTL033
A32S PSKNR/L 15C	32	30	250	22	40	SNM. 1506..	TPL04	TLV04M8x22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033
A40T PSKNR/L 15C	40	37.5	300	27	50	SNM. 1506..	TPL04	TLV04M8x22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033
A50U PSKNR/L 15C	50	47	350	35	63	SNM. 1506..	TPL04	TLV04M8x22	TTSN30023	TTY03	TCK09	TTV05M6x15	TTL033

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

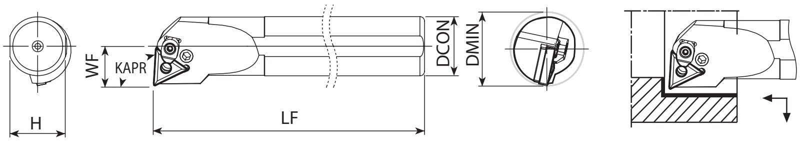
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

PTFN



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
A25R PTFNR/L 16C	25	23	200	17	32	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	TCK05	4015M4x11	TTL033
A32S PTFNR/L 16C	32	30	250	22	40	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	TCK05	4015M4x11	TTL033

PTUN

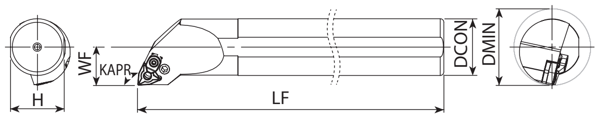


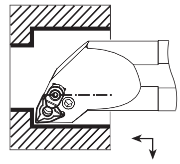
ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
S16P PTUNR/L 16	16	14.8	170	11	20	TNM. 1604..	TPL08	TLV07M6x13	-	TTY07	-	-	TTL022.5
S20R PTUNR/L 16	20	18.3	200	13	25	TNM. 1604..	TPL01	TLV01M6x14	TTTN30025	TTY01	-	-	TTL022.5
S25S PTUNR/L 16C	25	23	250	17	32	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	TCK05	4015M4x11	TTL022.5
S32T PTUNR/L 16C	32	30	300	22	40	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	TCK05	4015M4x11	TTL022.5
S40U PTUNR/L 16C	40	37.5	350	27	50	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	TCK05	4015M4x11	TTL022.5
S32T PTUNR/L 22C	32	30	300	22	40	TNM. 2204..	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033
S40U PTUNR/L 22C	40	37.5	350	27	50	TNM. 2204..	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033
S50V PTUNR/L 22C	50	47	400	35	63	TNM. 2204..	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033
A16M PTUNR/L 16	16	14.8	150	11	20	TNM. 1604..	TPL08	TLV07M6x13	-	TTY07	-	-	TTL022.5
A20P PTUNR/L 16	20	18.3	170	13	25	TNM. 1604..	TPL01	TLV01M6x14	TTTN30025	TTY01	-	-	TTL022.5
A25R PTUNR/L 16C	25	23	200	17	32	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	TCK05	4015M4x11	TTL022.5
A32S PTUNR/L 16C	32	30	250	22	40	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	TCK05	4015M4x11	TTL022.5
A40T PTUNR/L 16C	40	37.5	300	27	50	TNM. 1604..	TPL01	TLV02M6x17	TTTN30025	TTY01	TCK05	4015M4x11	TTL022.5
A32S PTUNR/L 22C	32	30	250	22	40	TNM 2204	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033
A40T PTUNR/L 22C	40	37.5	300	27	50	TNM 2204	TPL02	TLV03M8x19	TTTN30015	TTY02	TCK05	4015M4x11	TTL033

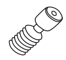
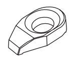
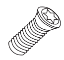
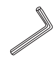
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

PWLN



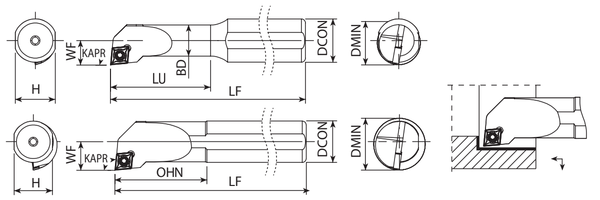


ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	LEVER DŹWIGNIA	LEVER SCREW ŚRUBA DŹWIGNI	SHIM PODKŁADKA	SHIM SPRING SPRĘŻYNA PODKŁADKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY
													
S20R PWLNR/L 06	20	18.3	200	13	25	WNM. 0604..	TPL01	TLV01M6x14	TTWNSW317	TTY01	-	-	TTL022.5
S25S PWLNR/L 06	25	23	250	17	32	WNM. 0604..	TPL01	TLV02M6x17	TTWNSW317	TTY01	-	-	TTL022.5
S32T PWLNR/L 06	32	30	300	22	40	WNM. 0604..	TPL01	TLV02M6x17	TTWNSW317	TTY01	-	-	TTL022.5
S25S PWLNR/L 08C	25	23	250	17	32	WNM. 0804..	TPL02	TLV03M8x19	TTWN30001	TTY02	TCK05	4015M4x11	TTL033
S32T PWLNR/L 08C	32	30	300	22	40	WNM. 0804..	TPL02	TLV03M8x19	TTWN30001	TTY02	TCK05	4015M4x11	TTL033
S40U PWLNR/L 08C	40	37.5	350	27	50	WNM. 0804..	TPL02	TLV03M8x19	TTWN30001	TTY02	TCK05	4015M4x11	TTL033
S50V PWLNR/L 08C	50	47	400	35	63	WNM. 0804..	TPL02	TLV03M8x19	TTWN30001	TTY02	TCK05	4015M4x11	TTL033
A16M PWLNR/L 06	16	14.8	150	11	20	WNM. 0604..	TPL08	TLV07M6x13	-	TTY07	-	-	TTL022.5
A20P PWLNR/L 06	20	18.3	170	13	25	WNM. 0604..	TPL01	TLV01M6x14	TTWNSW317	TTY01	-	-	TTL022.5
A25R PWLNR/L 06	25	23	200	17	32	WNM. 0604..	TPL01	TLV02M6x17	TTWNSW317	TTY01	-	-	TTL022.5
A32S PWLNR/L 06	32	30	250	22	40	WNM. 0604..	TPL01	TLV02M6x17	TTWNSW317	TTY01	-	-	TTL022.5
A40T PWLNR/L 06	40	37.5	300	27	50	WNM. 0604..	TPL01	TLV02M6x17	TTWNSW317	TTY01	-	-	TTL022.5
A25R PWLNR/L 08C	25	23	200	17	32	WNM. 0804..	TPL02	TLV03M8x19	TTWN30001	TTY02	TCK05	4015M4x11	TTL033
A32S PWLNR/L 08C	32	30	250	22	40	WNM. 0804..	TPL02	TLV03M8x19	TTWN30001	TTY02	TCK05	4015M4x11	TTL033
A40T PWLNR/L 08C	40	37.5	300	27	50	WNM. 0804..	TPL02	TLV03M8x19	TTWN30001	TTY02	TCK05	4015M4x11	TTL033
A50U PWLNR/L 08C	50	47	350	35	63	WNM. 0804..	TPL02	TLV03M8x19	TTWN30001	TTY02	TCK05	4015M4x11	TTL033

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

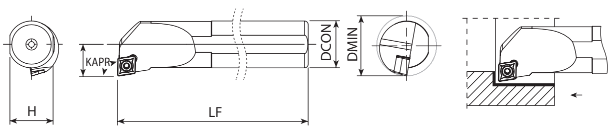
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

SCLC



ORDER CODE KOD ZAMÓWIENIA	DCON	BD	H	LF	LU	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S0608H SCLCR/L 03	8	5	7.3	100	18	3	6	CC.T 030102	4006M1.6x3.2	-	-	80T06
S0608H SCLCR/L 06	8	6	7.3	100	25	4.5	8	CC.T 0602..	4008M2.5x4.5	-	-	80T08
S08H SCLCR/L 06	8	8	7.3	100	20	6	11	CC.T 0602..	4008M2.5x6	-	-	80T08
S10K SCLCR/L 06	10	10	9	125	25	7	13	CC.T 0602..	4008M2.5x6	-	-	80T08
S12K SCLCR/L 06	12	12	11	125	25	9	16	CC.T 0602..	4008M2.5x6	-	-	80T08
S1216P SCLCR/L 06	16	11.5	14.8	170	37	9	16	CC.T 0602..	4008M2.5x6	-	-	80T08
S16P SCLCR/L 06	16	16	14.8	170	35	11	20	CC.T 0602..	4008M2.5x6	-	-	80T08
S12K SCLCR/L 09	12	12	11	125	30	9	16	CC.T 09T3..	4015M3.5x8	-	-	80T15
S1416P SCLCR/L 09	16	14	14.8	170	45	9.5	17	CC.T 09T3..	4015M3.5x9	-	-	80T15
S16P SCLCR/L 09	16	16	14.8	170	35	11	20	CC.T 09T3..	4015M3.5x9	-	-	80T15
S1620R SCLCR/L 09	20	16	18.3	200	50	11	20	CC.T 09T3..	4015M3.5x9	-	-	80T15
S20R SCLCR/L 09	20	20	18.3	200	40	13	25	CC.T 09T3..	4015M3.5x9	-	-	80T15
S25S SCLCR/L 09	25	25	23	250	50	17	32	CC.T 09T3..	4015M3.5x12	TTCN20001	TTV08M3.5x8	80T15
S32T SCLCR/L 09	32	32	30	300	60	22	40	CC.T 09T3..	4015M3.5x12	TTCN20001	TTV08M3.5x8	80T15
S25S SCLCR/L 12	25	25	23	250	50	17	32	CC.T 1204..	4020M4.5x12	TTCN20003	TTVL10M4.5x8	80T20
S32T SCLCR/L 12	32	32	30	300	60	22	40	CC.T 1204..	4020M4.5x12	TTCN20003	TTVL10M4.5x8	80T20
S40U SCLCR/L 12	40	40	37.5	350	70	27	50	CC.T 1204..	1020M4.5x16	TTCN20003	TTV07M4.5x13	80T20
A08H SCLCR/L 06	8	8	7.3	100	20	06	11	CC.T 0602..	4008M2.5x6	-	-	80T08
A10H SCLCR/L 06	10	10	09	100	25	7	13	CC.T 0602..	4008M2.5x6	-	-	80T08
A12H SCLCR/L 06	12	12	11	100	25	9	16	CC.T 0602..	4008M2.5x6	-	-	80T08
A16M SCLCR/L 09	16	16	14.8	150	35	11	20	CC.T 0602..	4015M3.5x9	-	-	80T08
A20P SCLCR/L 09	20	20	18.3	170	40	13	25	CC.T 09T3..	4015M3.5x12	TTCN20001	TTV8M3.5x8	80T15
A25R SCLCR/L 09	25	25	23	200	50	17	32	CC.T 09T3..	4015M3.5x12	TTCN20001	TTV8M3.5x8	80T15
A32S SCLCR/L 09	32	32	30	250	60	22	40	CC.T 09T3..	4015M3.5x12	TTCN20001	TTV8M3.5x8	80T15
A25R SCLCR/L 12	25	25	23	200	50	17	32	CC.T 1204..	4020M4.5x12	TTCN20003	TTV10M4.5x8	80T20

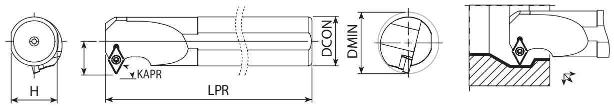
SCFC



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S08H SCFCR/L 06	8	7.3	100	6	11	CC.T 0602..	4008M2.5x6	-	-	80T08
S10K SCFCR/L 06	10	9	125	7	13	CC.T 0602..	4008M2.5x6	-	-	80T08
S12K SCFCR/L 06	12	11	125	9	16	CC.T 0602..	4008M2.5x6	-	-	80T08
S12K SCFCR/L 09	12	11	125	9	16	CC.T 09T3..	4015M3.5x8	-	-	80T15
S16P SCFCR/L 09	16	14.8	170	11	20	CC.T 09T3..	4015M3.5x9	-	-	80T15
S20R SCFCR/L 09	20	18.3	200	13	25	CC.T 09T3..	4015M3.5x9	-	-	80T15
S25S SCFCR/L 09	25	23	250	17	32	CC.T 09T3..	4015M3.5x12	-	-	80T15
S25S SCFCR/L 12	25	23	250	17	32	CC.T 1204..	4020M4.5x12	TTCN20001	TTV08M3.5x8	80T20
S32T SCFCR/L 12	32	30	300	22	40	CC.T 1204..	4020M4.5x12	TTCN20003	TTV10M4.5x8	80T20
S40U SCFCR/L 12	40	37.5	350	27	50	CC.T 1204..	1020M4.5x16	TTCN20003	TTV10M4.5x8	80T20
A08H SCFCR/L 06	8	7.3	100	6	11	CC.T 0602..	4008M2.5x6	TTCN20003	TTV07M4.5x13	80T08

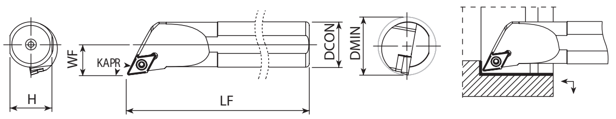
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

SDC



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LPR	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S10K SDCR/L 07	10	9	125	7	14	DC.T 0702..	4008M2.5x6	-	-	80T08
S12K SDCR/L 07	12	11	125	9	16	DC.T 0702..	4008M2.5x6	-	-	80T08
S16P SDCR/L 07	16	14.8	170	11	20	DC.T 0702..	4008M2.5x6	-	-	80T08
S20R SDCR/L 07	20	18.3	200	13	25	DC.T 0702..	4008M2.5x6	-	-	80T08
S16P SDCR/L 11	16	14.8	170	14	22	DC.T 11T3..	4015M3.5x11	-	-	80T15
S20R SDCR/L 11	20	18.3	200	15	25	DC.T 11T3..	4015M3.5x11	-	-	80T15
S25S SDCR/L 11	25	23	250	18	32	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
S32T SDCR/L 11	32	30	300	22	40	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
S40U SDCR/L 11	40	37.5	350	27	50	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15

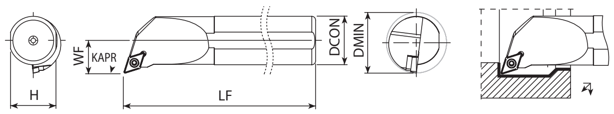
SDPC



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S10K SDPCR/L 07	10	9	125	7	13	DC.T 0702..	4008M2.5x6	-	-	80108
S12K SDPCR/L 07	12	11	125	9	16	DC.T 0702..	4008M2.5x6	-	-	80108
S16P SDPCR/L 11	16	14.8	170	11	20	DC.T 11T3..	4015M3.5x9	-	-	80T15
S20R SDPCR/L 11	20	18.3	200	13	25	DC.T 11T3..	4015M3.5x11	-	-	80T15
S25S SDPCR/L 11	25	23	250	17	32	DC.T 11T3..	4015M3.5x12	TTDN20001	TTV08M3.5x8	80T15

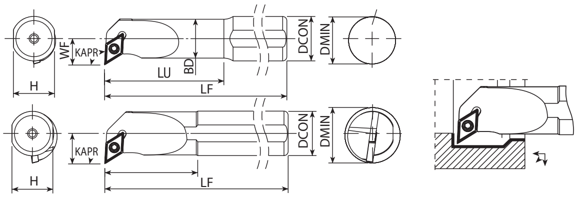
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

SDQC



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S10K SDQCR/L 07	10	9	125	7	13	DC.T 0702..	4008M2.5x6	-	-	80T08
S12K SDQCR/L 07	12	11	125	9	16	DC.T 0702..	4008M2.5x6	-	-	80T08
S16P SDQCR/L 07	16	14.8	170	11	20	DC.T 0702..	4008M2.5x6	-	-	80T08
S20R SDQCR/L 07	20	18.3	200	13	25	DC.T 0702..	4008M2.5x6	-	-	80T08
S16P SDQCR/L 11	16	14.8	170	11	20	DC.T 11T3..	4015M3.5x9	-	-	80T15
S20R SDQCR/L 11	20	18.3	200	13	25	DC.T 11T3..	4015M3.5x11	-	-	80T15
S25S SDQCR/L 11	25	23	250	17	32	DC.T 11T3..	4015M3.5x12	-	TTV08M3.5x8	80T15
S32T SDQCR/L 11	32	30	300	22	40	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
S40U SDQCR/L 11	40	37.5	350	27	50	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
A10H SDQCR/L 07	10	09	100	07	13	DC.T 0702..	4008M2.5x6	-	-	80T08
A12H SDQCR/L 07	12	11	100	9	16	DC.T 0702..	4008M2.5x6	-	-	80T08
A16M SDQCR/L 07	16	14.8	150	11	20	DC.T 0702..	4008M2.5x6	-	-	80T08
A20P SDQCR/L 07	20	18.3	170	13	25	DC.T 0702..	4008M2.5x6	-	-	80T08
A16M SDQCR/L 11	16	14.8	150	11	20	DC.T 11T3..	4015M3.5x9	-	-	80T15
A20P SDQCR/L 11	20	18.3	170	13	25	DC.T 11T3..	4015M3.5x11	-	-	80T15
A25R SDQCR/L 11	25	23	200	17	32	DC.T 11T3..	4015M3.5x12	TTDN20001	TTV08M3.5x8	80T15
A32S SDQCR/L 11	32	30	250	22	40	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15

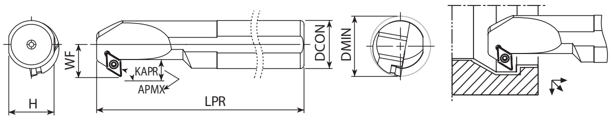
SDUC



ORDER CODE KOD ZAMÓWIENIA	DCON	BD	H	LF	LU	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S0810K SDUCR/L 07	10	8	9	125	30	8	13	DC.T 0702..	4008M2.5x6	-	-	80T08
S10K SDUCR/L 07	10	10	9	125	25	8	13	DC.T 0702..	4008M2.5x6	-	-	80T08
S12K SDUCR/L 07	12	12	11	125	25	9	16	DC.T 0702..	4008M2.5x6	-	-	80T08
S1216P SDUCR/L 07	16	11.5	14.8	170	37	9	16	DC.T 0702..	4008M2.5x6	-	-	80T08
S1416P SDUCR/L 07	16	14	14.8	170	45	9.5	17	DC.T 0702..	4008M2.5x6	-	-	80T08
S16P SDUCR/L 07	16	16	14.8	170	35	11	20	DC.T 0702..	4008M2.5x6	-	-	80T08
S20R SDUCR/L 07	20	20	18.3	200	40	13	25	DC.T 0702..	4008M2.5x6	-	-	80T08
S1416P SDUCR/L 11	16	14	14.8	170	45	11	18	DC.T 11T3..	4015M3.5x9	-	-	80T15
S16P SDUCR/L 11	16	16	14.8	170	35	11	20	DC.T 11T3..	4015M3.5x9	-	-	80T15
S1620R SDUCR/L 11	20	16	18.3	200	50	11	20	DC.T 11T3..	4015M3.5x9	-	-	80T15
S20R SDUCR/L 11	20	20	18.3	200	40	13	25	DC.T 11T3..	4015M3.5x11	-	-	80T15
S25S SDUCR/L 11	25	25	23	250	50	17	32	DC.T 11T3..	4015M3.5x12	TTDN20001	TTV08M3.5x8	80T15
S32T SDUCR/L 11	32	32	30	300	60	22	40	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
S40U SDUCR/L 11	40	40	37.5	350	70	27	50	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
S50V SDUCR/L 11	50	50	47	400	80	35	63	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
A0810H SDUCR/L 07	10	8	9	100	30	8	13	DC.T 0702..	4008M2.5x6	-	-	80T08
A10H SDUCR/L 07	10	10	9	100	25	8	13	DC.T 0702..	4008M2.5x6	-	-	80T08
A12H SDUCR/L 07	12	12	11	100	25	9	16	DC.T 0702..	4008M2.5x6	-	-	80T08
A16M SDUCR/L 07	16	16	14.8	150	35	11	20	DC.T 0702..	4008M2.5x6	-	-	80T08
A20P SDUCR/L 07	20	20	18.3	170	40	13	25	DC.T 0702..	4008M2.5x6	-	-	80T08
A16M SDUCR/L 11	16	16	14.8	150	35	11	20	DC.T 11T3..	4015M3.5x9	-	-	80115
A20P SDUCR/L 11	20	20	18.3	170	40	13	25	DC.T 11T3..	4015M3.5x11	-	-	80115
A25R SDUCR/L 11	25	25	23	200	50	17	32	DC.T 11T3..	4015M3.5x12	TTDN20001	TTV08M3.5x8	80115
A32S SDUCR/L 11	32	32	30	250	60	22	40	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80115

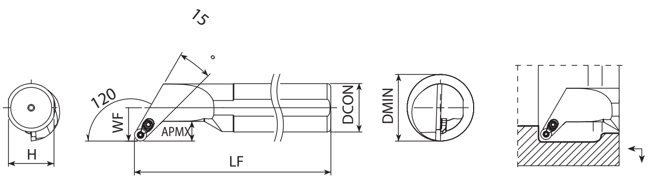
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

SDXC



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LPR	WF	APMX	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S12K SDXCR/L 07	12	11	125	9	4.5	16	DC.T 0702..	4008M2.5x6	-	-	80T08
S16P SDXCR/L 07	16	14.8	170	11	6.5	20	DC.T 0702..	4008M2.5x6	-	-	80T08
S20R SDXCR/L 07	20	18.3	200	13	6.5	25	DC.T 0702..	4008M2.5x6	-	-	80T08
S16P SDXCR/L 11	16	14.8	170	11	6.5	20	DC.T 11T3..	4015M3.5x11	-	-	80T15
S20R SDXCR/L 11	20	18.3	200	14	7.5	25	DC.T 11T3..	4015M3.5x11	-	-	80T15
S25S SDXCR/L 11	25	23	250	17	9	32	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV08M3.5x8	80T15
S32T SDXCR/L 11	32	30	300	22	12.5	40	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
S40U SDXCR/L 11	40	37.5	350	27	14.5	50	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15
A12H SDXCR/L 07	12	11	100	9	4.5	16	DC.T 0702..	4008M2.5x6	-	-	80T08
A16M SDXCR/L 07	16	14.8	150	11	6.5	20	DC.T 0702..	4008M2.5x6	-	-	80T08
A20P SDXCR/L 07	20	18.3	170	13	6.5	25	DC.T 0702..	4008M2.5x6	-	-	80T08
A16M SDXCR/L 11	16	14.8	150	11	7.5	20	DC.T 11T3..	4015M3.5x11	-	-	80T15
A20P SDXCR/L 11	20	18.3	170	14	7.5	25	DC.T 11T3..	4015M3.5x11	-	-	80T15
A25R SDXCR/L 11	25	23	200	17	9	32	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV08M3.5x8	80T15
A32S SDXCR/L 11	32	30	250	22	12.5	40	DC.T 11T3..	4015M3.5x14	TTDN20001	TTV06M3.5x11	80T15

SRGC

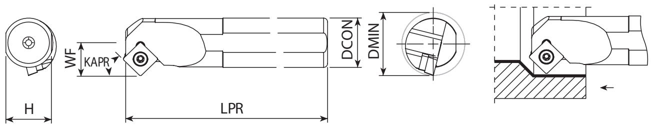


ORDER CODE KOD ZAMÓWIENIA	DCON	H	LPR	WF	APMX	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX
S16P SRGCR/L 08	16	14.8	170	11	7	22	RCM. 0803..	3008M3x8	-	-	80T08
S20R SRGCR/L 08	20	18.3	200	13	7	26	RCM. 0803..	3008M3x8	-	-	80T08
S25S SRGCR/L 08C	25	23	250	17	9.5	34	RCM. 0803..	3008M3x8	TCK15	4015M3.5x11	80T08
S32T SRGCR/L 08C	32	30	300	22	13	44	RCM. 0803..	3008M3x8	TCK15	4015M3.5x11	80T08
S40U SRGCR/L 08C	40	37.5	350	27	15	54	RCM. 0803..	3008M3x8	TCK15	4015M3.5x11	80T08
A16M SRGCR/L 08	16	14.8	150	11	7	22	RCM. 0803..	3008M3x8	-	-	80T08
A20P SRGCR/L 08	20	18.3	170	13	7	26	RCM. 0803..	3008M3x8	-	-	80T08
A25R SRGCRL 08C	25	23	200	17	9.5	34	RCM. 0803..	3008M3x8	TCK15	4015M3.5x11	80T08
A32S SRGCR/L 08C	32	30	250	22	13	44	RCM. 0803..	3008M3x8	TCK15	4015M3.5x11	80T08
A40T SRGCR/L 08C	40	37.5	300	27	15	54	RCM. 0803..	3008M3x8	TCK15	4015M3.5x11	80T08

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

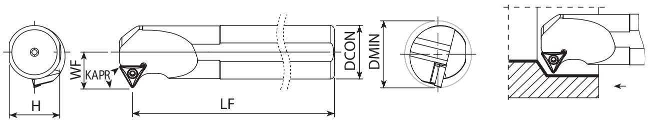
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

SSSC



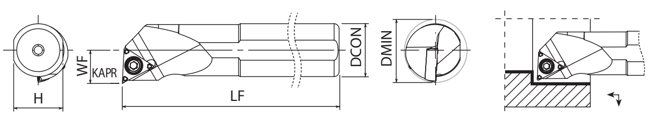
ORDER CODE KOD ZAMÓWIENIA	DCON	H	LPR	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S16P SSSCR/L 09	16	14.8	170	11	20	SC.T 09T3..	4015M3.5x9	-	-	80T15
S20R SSSCR/L 09	20	18.3	200	13	25	SC.T 09T3..	4015M3.5x11	-	-	80T15
S25S SSSCR/L 09	25	23	250	17	32	SC.T 09T3..	4015M3.5x12	TTSN20001	TTV08M3.5x8	80T15
S25S SSSCR/L 12	25	23	250	17	32	SC.T 1204..	4020M4.5x12	TTSN20004	TTV10M4.5x8	80T20
S32T SSSCR/L 12	32	30	300	22	40	SC.T 1204..	1020M4.5x16	TTSN20004	TTV07M4.5x13	80T20
S40U SSSCR/L 12	40	37.5	350	27	50	SC.T 1204..	1020M4.5x16	TTSN20004	TTV07M4.5x13	80T20

STC



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S12K STCR/L 11	12	11	125	9	17	TC.T 1102..	4008M2.5x6	-	-	80T08
S16P STCR/L 11	16	14.8	170	11	20	TC.T 1102..	4008M2.5x6	-	-	80T08
S20R STCR/L 11	20	18.3	200	13	25	TC.T 1102..	4008M2.5x6	-	-	80T08
S16P STCR/L 16	16	14.8	170	11	20	TC.T 16T3..	4015M3.5x9	-	-	80T15
S20R STCR/L 16	20	18.3	200	13	25	TC.T 16T3..	4015M3.5x11	-	-	80T15
S25S STCR/L 16	25	23	250	17	32	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV08M3.5x8	80T15
S32T STCR/L 16	32	30	300	22	40	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15
S40U STCR/L 16	40	37.5	350	27	50	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15

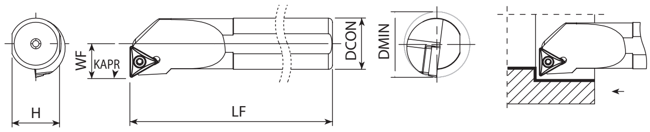
STUP



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
S08H STUPR/L 0802	8	7.3	100	5	10	TP. 0802..	3006M2x4	80T06
S10K STUPR/L 1103	10	9	125	6	12	TP. 1103..	4010M3x6	80T10
S12K STUPR/L 1103	12	11	125	9	16	TP. 1103..	4010M3x6	80T10
S12M STUPR/L 1103	12	11	150	8	16	TP. 1103..	4010M3x6	80T10
S16P STUPR/L 1103	16	14.8	170	10	20	TP. 1103..	4010M3x8	80T10
S16R STUPR/L 1103	16	14.8	200	10	20	TP. 1103..	4010M3x8	80T10
A20R STUPR/L 1103	20	18.3	200	13	25	TP. 1103..	4010M3x8	80T10

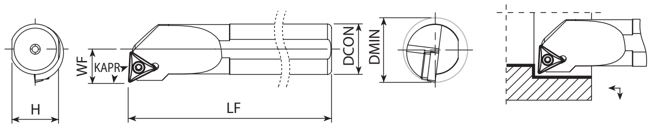
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

STFC



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S0610F STFCR/L 06	10	9	80	4.5	8	TC.T 06T1..	3006M2x4	-	-	80T06
S08H STFCR/L 06	8	7.3	100	6	11	TC.T 06T1..	3006M2x4	-	-	80T06
S10K STFCR/L 09	10	9	125	07	13	TC T 0902	3007.M2 2x5	-	-	80T07
S12K STFCR/L 09	12	11	125	9	17	TC T 0902	3007.M2 2x5	-	-	80T07
S12K STFCR/L 11	12	11	125	9	17	TC.T 1102..	4008M2.5x6	-	-	80T08
S16P STFCR/L 11	16	14.8	170	11	20	TC.T 1102..	4008M2.5x6	-	-	80T08
S20R STFCR/L 11	20	18.3	200	13	25	TC.T 1102..	4008M2.5x6	-	-	80T08
S16P STFCR/L 16	16	14.8	170	11	20	TC.T 16T3..	4015M3.5x9	-	-	80T15
S20R STFCR/L 16	20	18.3	200	13	25	TC.T 16T3..	4015M3.5x11	TTTN20001	-	80T15
S25S STFCR/L 16	25	23	250	17	32	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV08M3.5x8	80T15
S32T STFCR/L 16	32	30	300	22	40	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3 5x11	80T15
S40U STFCR/L 16	40	37.5	350	27	50	TC.T 16T3..	4015M3.5x14	-	TTV06M3 5x11	80T15
A10H STFCR/L 11	10	9	100	7	13	TC.T 1102..	4008M2.5x6	-	-	80T08
A12H STFCR/L 11	12	11	100	9	17	TC.T 1102..	4008M2.5x6	-	-	80T08
A16M STFCR/L 11	16	14.8	150	11	20	TC.T 1102..	4008M2.5x6	-	-	80T08

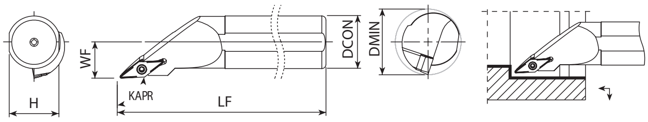
STUC



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S10K STUCR/L 09	10	9	125	7	13	TC.T 0902..	3007M2.2X5	-	-	80T07
S12K STUCR/L 09	12	11	125	9	16	TC.T 0902..	3007M2.2X5	-	-	80T07
S12K STUCR/L 11	12	11	125	9	17	TC.T 1102..	4008M2.5x6	-	-	80T08
S16P STUCR/L 11	16	14.8	170	11	20	TC.T 1102..	4008M2.5x6	-	-	80T08
S20R STUCR/L 11	20	18.3	200	13	25	TC.T 1102..	4008M2.5x6	-	-	80T08
S16P STUCR/L 16	16	14.8	170	11	20	TC.T 16T3..	4015M3.5x9	-	-	80T15
S20R STUCR/L 16	20	18.3	200	13	25	TC.T 16T3..	4015M3.5x11	-	-	80T15
S25S STUCR/L 16	25	23	250	17	32	TC.T 16T3..	4015M3.5X14	TTTN20001	TTV08M3.5x8	80T15
S32S STUCR/L 16	32	30	300	22	40	TC.T 16T3..	4015M3.5X14	TTTN20001	TTV06M3.5x11	80T15
S40U STUCR/L 16	40	37.5	350	27	50	TC.T 16T3..	4015M3.5X14	TTTN20001	TTV06M3.5x11	80T15
A10H STUCR/L 09	10	9	100	7	13	TC.T 0902..	3007M2.2x5	-	-	80T07
A12H STUCR/L 09	12	11	100	9	16	TC.T 0902..	3007M2.2x5	-	-	80T07
A12H STUCR/L 11	12	11	100	9	16	TC.T 1102..	4008M2.5x6	-	-	80T08
A16M STUCR/L 11	16	14.8	150	11	20	TC.T 1102..	4008M2.5x6	-	-	80T08
A20P STUCR/L 11	20	18.3	170	13	25	TC.T 1102..	4008M2.5x6	-	-	80T08
A16M STUCR/L 16	16	14.8	150	11	20	TC.T 16T3..	4015M3.5x9	-	-	80T15
A20P STUCR/L 16	20	18.3	170	13	25	TC.T 16T3..	4015M3.5x11	-	-	80T15
A25R STUCR/L 16	25	23	200	17	32	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV08M3.5x8	80T15
A32S STUCR/L 16	32	30	250	22	40	TC.T 16T3..	4015M3.5x14	TTTN20001	TTV06M3.5x11	80T15

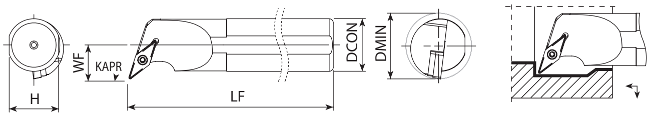
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

SVJB



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S25S SVJBR/L 16	25	23	250	17	32	VB.T 1604..	4015M3.5x12	TTVN20002	TTV08M3.5x8	80T15
S32T SVJBR/L 16	32	30	300	22	40	VB.T 1604..	4015M3.5x12	TTVN20002	TTV08M3.5x8	80T15
S40U SVJBR/L 16	40	37.5	350	27	50	VB.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15

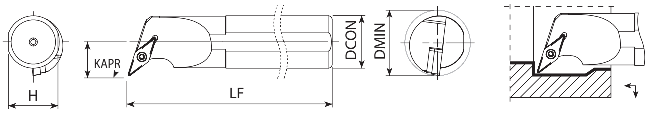
SVQB



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S16P SVQBR/L 11	16	14.8	170	11	20	VB.T 1103..	4008M2.5x6	-	-	80T08
S20R SVQBR/L 11	20	18.3	200	13	25	VB.T 1103..	4008M2.5x6	-	-	80T08
S25S SVQBR L 16	25	23	250	17	32	VB.T 1604..	4015M3.5x14	TTVN20002	TTV08M3.5x8	80T15
S32T SVQBR/L 16	32	30	300	22	40	VB.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
S40U SVQBR/L 16	40	37.5	350	27	50	VB.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
A20Q SVQBR/L 11	20	18.5	180	13	25	VB.T 1103..	4008M2.5x6	-	-	80T08
A20Q SVQBR/L 16	20	18.5	180	20	30	VB.T 1604..	4015M3.5x11	-	-	80T15
A25S SVQBR/L 16	25	23	250	17	32	VB.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
A32S SVQBR/L 16	32	30	250	22	40	VB.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
S16P SVQCR/L 11	16	14.8	170	11	20	VB.T 1103..	4008M2.5x6	-	-	80T08
S20R SVQCR/L 11	20	18.3	200	13	25	VB.T 1103..	4008M2.5x6	-	-	80T08
S25S SVQCR/L 16	25	23	250	17	32	VC.T 1604..	4015M3.5x14	TTVN20002	TTV08M3.5x8	80T15
S32T SVQCR/L 16	32	30	300	22	40	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
S40U SVQCR/L 16	40	37.5	350	27	50	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
A16M SVQCR/L 11	16	14.8	150	11	20	VB.T 1103..	4008M2.5x6	-	-	80T08
A20P SVQCR/L 11	20	18.3	170	13	25	VB.T 1103..	4008M2.5x6	-	-	80T08
A25R SVQCR/L 16	25	23	200	17	32	VC.T 1604..	4015M3.5x14	TTVN20002	TTV08M3.5x8	80T15
A32S SVQCR/L 16	32	30	250	22	40	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
A40T SVQCR/L 16	40	37.5	300	27	50	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15

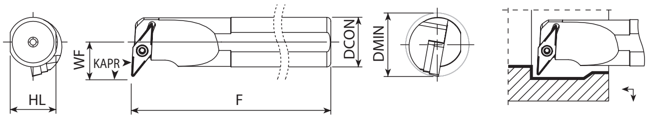
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

SVQC



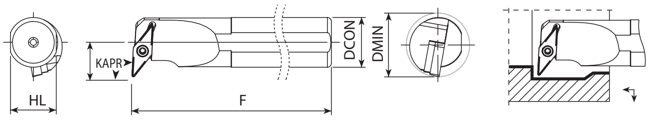
ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S16P SVQCR/L 11	16	14.8	170	11	20	VC.T 1103..	4008M25x6	-	-	80T08
S20R SVQCR/L 11	20	18.3	200	13	25	VC.T 1103..	4008M25x6	-	-	80T08
S25S SVQCR/L 16	25	23	250	17	32	VC.T 1604..	4015M35x14	TTVN20002	TTV08M35x8	80T15
S32T SVQCR/L 16	32	30	300	22	40	VC.T 1604..	4015M35x14	TTVN20002	TTV06M35x11	80T15
S40U SVQCR/L 16	40	37.5	350	27	50	VC.T 1604..	4015M35x14	TTVN20002	TTV06M35x11	80T15
A16M SVQCR/L 11	16	14.8	150	11	20	VC.T 1103..	4008M25x6	-	-	80T08
A20P SVQCR/L 11	20	18.3	170	13	25	VC.T 1103..	4008M25x6	-	-	80T08
A25R SVQCR/L 16	25	23	200	17	32	VC.T 1604..	4015M35x14	TTVN20002	TTV08M35x8	80T15
A32S SVQCR/L 16	32	30	250	22	40	VC.T 1604..	4015M35x14	TTVN20002	TTV06M35x11	80T15
A40T SVQCR/L 16	40	37.5	300	27	50	VC.T 1604..	4015M35x14	TTVN20002	TTV06M35x11	80T15

SVUB



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S16P SVUBR/L 11	16	14.8	170	12.5	20	VB.T 1103..	4008M2.5x6	-	-	80T08
S20R SVUBR/L 11	20	18.3	200	13	25	VB.T 1103..	4008M2.5x6	-	-	80T08
S25S SVUBR/L 16	25	23	250	19	32	VB.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
S32T SVUBR/L 16	32	30	300	22	40	VB.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
S40U SVUBR/L 16	40	37.5	350	27	50	VB.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
A20Q SVUBR/L 16	20	18.3	180	20	30	VB.T 1604..	4015M3.5x11	-	-	80T15
A32S SVUBR/L 16	32	30	250	22	40	VB.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15

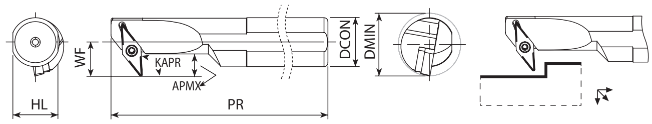
SVUC



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S16P SVUCR/L 11	16	14.8	170	12.5	20	VC.T 1103..	4008M2.5x6	-	-	80T08
S20R SVUCR/L 11	20	18.3	200	13	25	VC.T 1103..	4008M2.5x6	-	-	80T08
S25S SVUCR/L 16	25	23	250	19	32	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
S32T SVUCR/L 16	32	30	300	22	40	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
S40U SVUCR/L 16	40	37.5	350	27	50	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
A12K SVUCR/L 07	12	11	125	9	16	VC.T 0702..	3006M2x4	-	-	80T06
A20P SVUCR/L 11	20	18.3	170	13	25	VC.T 1103..	4008M2.5x6	-	-	80T08
A20Q SVUCR/L 11	20	18.3	180	13	25	VC.T 1103..	4008M2.5x6	-	-	80T08
A25R SVUCR/L 16	25	23	200	19	32	VC.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15

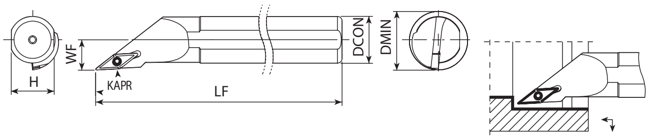
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

SVXB



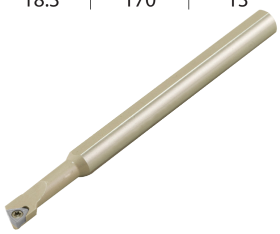
ORDER CODE KOD ZAMÓWIENIA	DCON	H	LPR	WF	APMX	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	SHIM PODKŁADKA	SHIM SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX
S16P SVXBR/L 1102	16	14.8	170	12.5	7.2	20	VBM. 1102..	4008M2 5x6	-	-	80T08
S20R SVXBR/L 1102	20	18.3	200	13	5.7	25	VBM. 1102..	4008M2 5x6	-	-	80T08
S16P SVXBR/L 11	16	14.8	170	12.5	7.2	20	VB.T 1103..	4008M2 5x6	-	-	80T08
S20R SVXBR/L 11	20	18.3	200	13	5.7	25	VB.T 1103..	4008M2 5x6	-	-	80T08
S25S SVXBR/L 16	25	23	250	19	10.2	32	VB.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
S32T SVXBR/L 16	32	30	300	22	11.7	40	VB.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15
S40U SVXBR/L 16	40	37.5	350	27	14.3	50	VB.T 1604..	4015M3.5x14	TTVN20002	TTV06M3.5x11	80T15

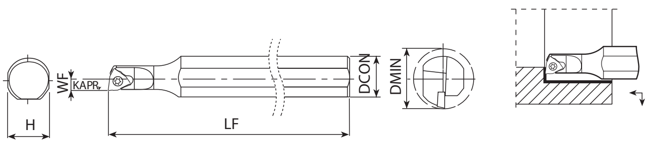
SVJC



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
S12K SVJCR/L 11	12	11	125	7	13	VC.T 1103..	4008M2.5X6	80T08
S16P SVJCR/L 11	16	14.8	170	11	20	VC.T 1103..	4008M2.5X6	80T08
S20R SVJCR/L 11	20	18.3	200	13	25	VC.T 1103..	4008M2.5X6	80T08
A12H SVJCR/L 11	12	11	100	7	13	VC.T 1103..	4008M2.5X6	80T08
A16M SVJCR/L 11	16	14.8	150	11	20	VC.T 1103..	4008M2.5X6	80T08
A20P SVJCR/L 11	20	18.3	170	13	25	VC.T 1103..	4008M2.5X6	80T08

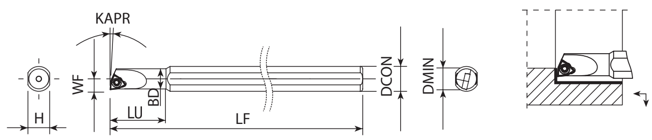
SWLC





ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
S0608H SWLCR 03	8	7.3	100	04	8	WC.. 0302..	4008M2.5x4	80T08
S0810K SWLCR 03	10	9	125	06	10	WC.. 0302..	4008M2.5x4.5	80T08

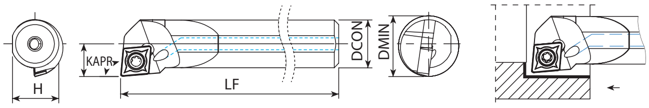
SWUB



ORDER CODE KOD ZAMÓWIENIA	DCON	BD	H	LF	LU	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
S0610H SWUBR 06	10	5	7.3	100	18	3	6	WBGT 060102L	3006M2x3.3	80T06
S08H SWUBR 065.5	8	5	7.3	100	18	2.75	5.7	WBGT 060102L	3006M2x3.3	80T06
S08H SWUBR 067	8	6.5	7.3	100	18	3.5	7	WBGT 060102L	3006M2x4	80T06

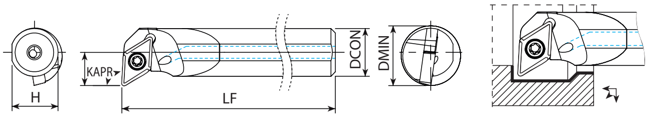
INSERT HOLDERS NOŻE TOKARSKIE WEWNĘTRZNE

SCLC



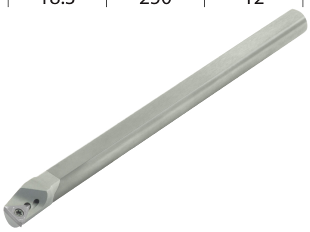
ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
C06J SCLCR/L 06	6	5.7	110	4.5	8	CC.T 0602..	4008M2.5x6	80T08
E08K SCLCR L 06	8	7.5	125	6	11	CC.T 0602..	4008M2.5x6	80T08
E10M SCLCRL 06	10	9.5	150	7	13	CC.T 0602..	4008M2.5x6	80T08
E12Q SCLCRL 06	12	11	180	9	16	CC.T 0602..	4008M2.5x6	80T08
E16R SCLCR L 09	16	15	200	11	20	CC.T 09T3..	4015M3.5x9	80T15
E20S SCLCR/L 09	20	19	250	13	24	CC.T 09T3..	4015M3.5x9	80T15

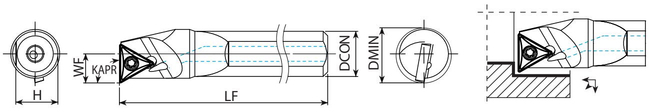
SDUC



ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
E10M SDUCR/L 07	10	9.5	150	8	13	DC.T 0702..	4008M2.5x6	80T08
E12Q SDUCR L 07	12	11	180	9	16	DC.T 0702..	4008M2.5x6	80T08
E16R SDUCRL 11	16	15	200	11	20	DC.T 11T3..	4015M3.5x9	80T15
E20S SDUCR L 11	20	18.3	250	12	23	DC.T 11T3..	4015M3.5x9	80T15

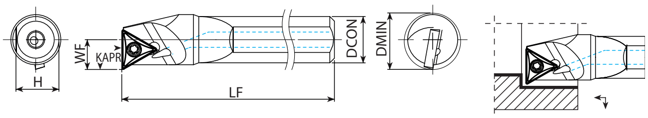
STFC





ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
E10M STFCR/L 09	10	9.5	150	6	12	TC.T 0902..	3007M2.2x5	80T07
E12Q STFCR/L 09	12	11	180	8	15	TC.T 0902..	3007M2.2x5	80T07
E12Q STFCR/L 11	12	11	180	8	15	TC.T 1102..	4008M2.5x6	80T08

STUP

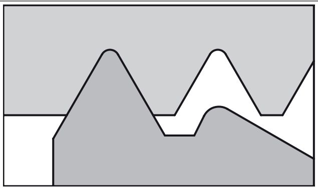


ORDER CODE KOD ZAMÓWIENIA	DCON	H	LF	WF	DMIN	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
E12Q STUPR/L 1103	12	11	180	8	15	TP. 1103..	4010M3x6	80T10
E16R STUPR/L 1103	16	15	200	11	20	TP. 1103..	4010M3x8	80T10

THREAD TURNING
TOCZENIE GWINTÓW

THREAD PROFILE TYPES
TYPY PROFILI ZARYSU GWINTU

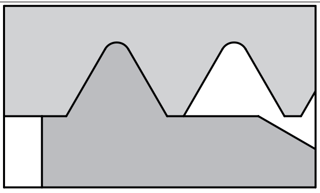
PARTIAL PROFILE
PROFIL CZĘŚCIOWY



Partial profile inserts can be used for a variety of thread pitches and standards, providing the included angle is the same, however, incorrect nose radius on the insert can result in rejection of the component. This style of insert will not deburr the major diameter of the thread and will, therefore, require a secondary operation.

Płytki z zarysem częściowym mogą być stosowane dla wielu skoków gwintu i wielu norm, pod warunkiem, że kąt zarysu gwintu jest taki sam, jednak niewłaściwy promień zaokrąglenia ostrza płytki może spowodować odrzucenie części przez kontrolę.
Ten rodzaj płytki nie usuwa zadziorów ze średnicy zewnętrznej gwintu dlatego część wymaga wtórnych operacji.

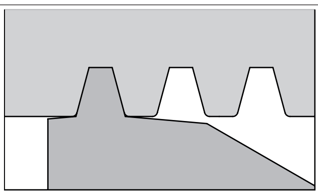
FULL PROFILE
PROFIL PEŁNY



Full profile insert cuts thread profile including all three thread diameters. Separate insert required for every pitch

Płytka o pełnym profilu wycina profil gwintu, uwzględniając wszystkie trzy średnice gwintu. Dla każdej podziałki wymagana jest osobna płytka

SEMI FULL PROFILE
PROFIL PÓŁPEŁNY

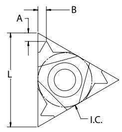
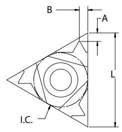


Semi full profile inserts style completes the thread form and breaks the corners of outside thread diameter, used for Trapezoidal threading inserts.

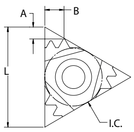
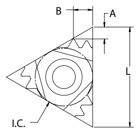
Półpełny profil wkładek uzupełnia kształt gwintu i łamie naroża zewnętrznej średnicy gwintu, stosowanego do trapezowych wkładek do gwintów.

INSERT TYPES
RODZAJE PŁYTEK

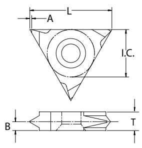
STANDARD TYPE
WYKONANIE STANDARDOWE

EXTERNAL ZEWNĘTRZNE	INTERNAL WEWNĘTRZNE
	

MULTITOOTH TYPE
WYKONANIE WIELOZĘBOWE

EXTERNAL ZEWNĘTRZNE	INTERNAL WEWNĘTRZNE
	

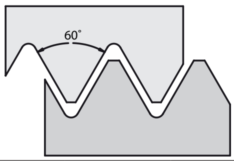
VERTICAL TYPE
WYKONANIE PIONOWE

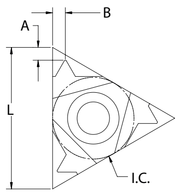
VERTICAL PIONOWE


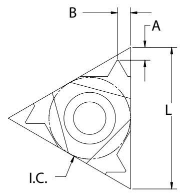
PARTIAL PROFILE 60° EXTERNAL AND INTERNAL THREADING

ZARYS CZĘŚCIOWY 60°. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

PP 60° ST



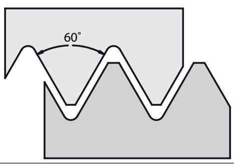


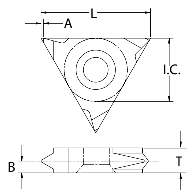


STANDARD TYPE WYKONANIE STANDARDOWE

PITCH SKOK		L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE		INTERNAL WEWNĘTRZNE	
MM	TPI					RIGHT PRAWY	LEFT LEWY	RIGHT PRAWY	LEFT LEWY
0.5-1.25	48-20	6	4.00	0.5	0.6	-	-	HM06IRA60	HM06ILA60
0.5-1.5	48-16	8	5.00	0.5	0.7	-	-	HM08IRA60	HM08ILA60
0.5-1.5	48-16	11	6.35	0.8	0.9	HM11ERA60	HM11ELA60	HM11IRA60	HM11ILA60
0.5-1.5	48-16	16	9.525	0.8	0.9	HM16ERA60	HM16ELA60	HM16IRA60	HM16ILA60
1.75-3.0	14-8	16	9.525	1.2	1.7	HM16ERG60	HM16ELG60	HM16IRG60	HM16ILG60
0.5-3.0	48-8	16	9.525	1.2	1.7	HM16ERAG60	HM16ELAG60	HM16IRAG60	HM16ILAG60
3.5-5.0	7-5	22	12.70	1.7	2.5	HM22ERN60	HM22ELN60	HM22IRN60	HM22ILN60
5.5-6.0	4.5-4	27	15.875	2.0	3.0	HM27ERQ60	HM27ELQ60	HM27IRQ60	HM27ILQ60

PP 60° VT





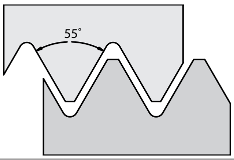
VERTICAL TYPE WYKONANIE PIONOWE

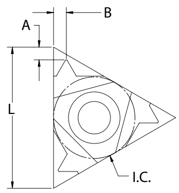
PITCH SKOK		L	I.C.	A	B	T	VERTICAL PIONOWE
MM	TPI						RIGHT PRAWY
0.5-1.5	48-16	16	9.525	1.1	1.0	3.7	HM16ERA60V
1.75-3.0	14-8	16	9.525	1.1	1.7	3.7	HM16ERG60V
0.5-3.0	48-8	16	9.525	1.1	1.7	3.7	HM16ERAG60V

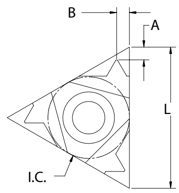
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

PARTIAL PROFILE 55° EXTERNAL AND INTERNAL THREADING
ZARYS CZĘŚCIOWY 55°. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

PP 55° ST



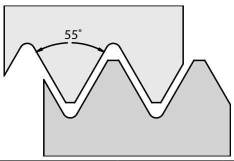


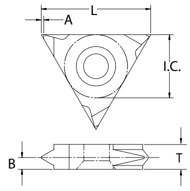


STANDARD TYPE WYKONANIE STANDARDOWE

PITCH SKOK		L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE		INTERNAL WEWNĘTRZNE	
MM	TPI					RIGHT PRAWY	LEFT LEWY	RIGHT PRAWY	LEFT LEWY
0.5-1.25	48-20	6	4.00	0.5	0.6	-	-	HM06IRA55	HM06ILA55
0.5-1.5	48-16	8	5.00	0.5	0.7	-	-	HM08IRA55	HM08ILA55
0.5-1.5	48-16	11	6.35	0.8	0.9	HM11ERA55	HM11ELA55	HM11IRA55	HM11ILA55
0.5-1.5	48-16	16	9.525	0.8	0.9	HM16ERA55	HM16ELA55	HM16IRA55	HM16ILA55
1.75-3.0	14-8	16	9.525	1.2	1.7	HM16ERG55	HM16ELG55	HM16IRG55	HM16ILG55
0.5-3.0	48-8	16	9.525	1.2	1.7	HM16ERAG55	HM16ELAG55	HM16IRAG55	HM16ILAG55
3.5-5.0	7-5	22	12.70	1.7	2.5	HM22ERN55	HM22ELN55	HM22IRN55	HM22ILN55
5.5-6.0	4.5-4	27	15.875	2.0	3.0	HM27ERQ55	HM27ELQ55	HM27IRQ55	HM27ILQ55

PP 55° VT





VERTICAL TYPE WYKONANIE PIONOWE

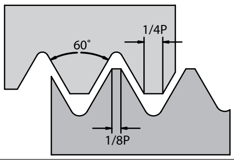
PITCH SKOK		L	I.C.	A	B	T	VERTICAL PIONOWE
MM	TPI						RIGHT PRAWY
0.5-1.5	48-16	16	9.525	1.1	1.0	3.7	HM16ERA55V
1.75-3.0	14-8	16	9.525	1.1	1.7	3.7	HM16ERG55V
0.5-3.0	48-8	16	9.525	1.1	1.7	3.7	HM16ERAG55V

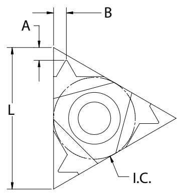
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

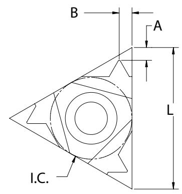
ISO METRIC (M) EXTERNAL AND INTERNAL THREADING

GWINTY METRYCZNE (M). TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

ISO ST







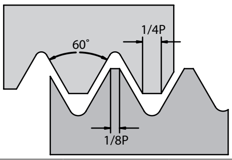
STANDARD TYPE WYKONANIE STANDARDOWE

PITCH SKOK	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE		INTERNAL WEWNĘTRZNE	
MM					RIGHT PRAWY	LEFT LEWY	RIGHT PRAWY	LEFT LEWY
0.5	06	4.00	0.8	0.4	-	-	HM06IR0050ISO	HM06IL0050ISO
0.75	06	4.00	0.7	0.4	-	-	HM06IR0075ISO	HM06IL0075ISO
1.0	06	4.00	0.7	0.5	-	-	HM06IR0100ISO	HM06IL0100ISO
1.25	06	4.00	0.7	0.6	-	-	HM06IR0125ISO	HM06IL0125ISO
0.35	08	5.00	0.7	0.4	-	-	HM08IR0035ISO	HM08IL0035ISO
0.5	08	5.00	0.7	0.4	-	-	HM08IR0050ISO	HM08IL0050ISO
0.75	08	5.00	0.7	0.6	-	-	HM08IR0075ISO	HM08IL0075ISO
1.0	08	5.00	0.7	0.7	-	-	HM08IR0100ISO	HM08IL0100ISO
1.25	08	5.00	0.7	0.7	-	-	HM08IR0125ISO	HM08IL0125ISO
1.5	08	5.00	0.7	0.7	-	-	HM08IR0150ISO	HM08IL0150ISO
1.75	08	5.00	0.7	0.7	-	-	HM08IR0175ISO	HM08IL0175ISO
0.35	11	6.35	0.7	0.4	HM11ER0035ISO	HM11EL0035ISO	HM11IR0035ISO	HM11IL0035ISO
0.4	11	6.35	0.7	0.4	HM11ER0040ISO	HM11EL0040ISO	HM11IR0040ISO	HM11IL0040ISO
0.45	11	6.35	0.7	0.4	HM11ER0045ISO	HM11EL0045ISO	HM11IR0045ISO	HM11IL0045ISO
0.5	11	6.35	0.6	0.4	HM11ER0050ISO	HM11EL0050ISO	HM11IR0050ISO	HM11IL0050ISO
0.6	11	6.35	0.6	0.6	HM11ER0060ISO	HM11EL0060ISO	HM11IR0060ISO	HM11IL0060ISO
0.7	11	6.35	0.6	0.6	HM11ER0070ISO	HM11EL0070ISO	HM11IR0070ISO	HM11IL0070ISO
0.75	11	6.35	0.6	0.6	HM11ER0075ISO	HM11EL0075ISO	HM11IR0075ISO	HM11IL0075ISO
0.8	11	6.35	0.6	0.6	HM11ER0080ISO	HM11EL0080ISO	HM11IR0080ISO	HM11IL0080ISO
1.0	11	6.35	0.7	0.7	HM11ER0100ISO	HM11EL0100ISO	HM11IR0100ISO	HM11IL0100ISO
1.25	11	6.35	0.8	0.9	HM11ER0125ISO	HM11EL0125ISO	HM11IR0125ISO	HM11IL0125ISO
1.5	11	6.35	0.8	1.0	HM11ER0150ISO	HM11EL0150ISO	HM11IR0150ISO	HM11IL0150ISO
1.75	11	6.35	0.8	1.1	HM11ER0175ISO	HM11EL0175ISO	HM11IR0175ISO	HM11IL0175ISO
2.0	11	6.35	0.8	0.9	HM11ER0200ISO	HM11EL0200ISO	HM11IR0200ISO	HM11IL0200ISO
0.35	16	9.525	0.8	0.4	HM16ER0035ISO	HM16EL0035ISO	HM16IR0035ISO	HM16IL0035ISO
0.4	16	9.525	0.8	0.4	HM16ER0040ISO	HM16EL0040ISO	HM16IR0040ISO	HM16IL0040ISO
0.45	16	9.525	0.8	0.4	HM16ER0045ISO	HM16EL0045ISO	HM16IR0045ISO	HM16IL0045ISO
0.5	16	9.525	0.6	0.4	HM16ER0050ISO	HM16EL0050ISO	HM16IR0050ISO	HM16IL0050ISO
0.6	16	9.525	0.6	0.6	HM16ER0060ISO	HM16EL0060ISO	HM16IR0060ISO	HM16IL0060ISO
0.7	16	9.525	0.6	0.6	HM16ER0070ISO	HM16EL0070ISO	HM16IR0070ISO	HM16IL0070ISO
0.75	16	9.525	0.6	0.6	HM16ER0075ISO	HM16EL0075ISO	HM16IR0075ISO	HM16IL0075ISO
0.8	16	9.525	0.6	0.6	HM16ER0080ISO	HM16EL0080ISO	HM16IR0080ISO	HM16IL0080ISO
1.0	16	9.525	0.7	0.7	HM16ER0100ISO	HM16EL0100ISO	HM16IR0100ISO	HM16IL0100ISO
1.25	16	9.525	0.8	0.9	HM16ER0125ISO	HM16EL0125ISO	HM16IR0125ISO	HM16IL0125ISO
1.5	16	9.525	0.8	1.0	HM16ER0150ISO	HM16EL0150ISO	HM16IR0150ISO	HM16IL0150ISO
1.75	16	9.525	0.9	1.2	HM16ER0175ISO	HM16EL0175ISO	HM16IR0175ISO	HM16IL0175ISO
2.0	16	9.525	1.0	1.3	HM16ER0200ISO	HM16EL0200ISO	HM16IR0200ISO	HM16IL0200ISO
2.5	16	9.525	1.1	1.5	HM16ER0250ISO	HM16EL0250ISO	HM16IR0250ISO	HM16IL0250ISO
3.0	16	9.525	1.2	1.5	HM16ER0300ISO	HM16EL0300ISO	HM16IR0300ISO	HM16IL0300ISO
3.5	16	9.525	1.2	1.8	HM16ER0350ISO	HM16EL0350ISO	HM16IR0350ISO	HM16IL0350ISO
3.5	22	12.70	1.6	2.3	HM22ER0350ISO	HM22EL0350ISO	HM22IR0350ISO	HM22IL0350ISO

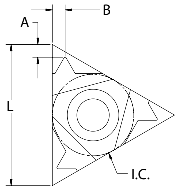
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

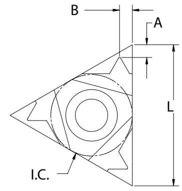
ISO METRIC (M) EXTERNAL AND INTERNAL THREADING
GWINTY METRYCZNE (M). TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

ISO ST



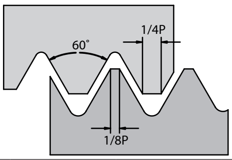
STANDARD TYPE WYKONANIE STANDARDOWE



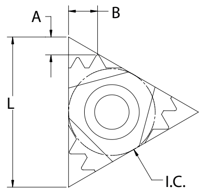


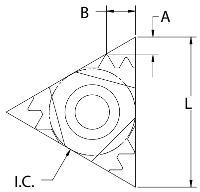
PITCH SKOK MM	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE LEFT LEWY	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE LEFT LEWY
4.0	22	12.70	1.6	2.3	HM22ER0400ISO	HM22EL0400ISO	HM22IR0400ISO	HM22IL0400ISO
4.5	22	12.70	1.7	2.4	HM22ER0450ISO	HM22EL0450ISO	HM22IR0450ISO	HM22IL0450ISO
5.0	22	12.70	1.7	2.5	HM22ER0500ISO	HM22EL0500ISO	HM22IR0500ISO	HM22IL0500ISO
5.5	27	15.875	1.8	2.4	HM27ER0550ISO	HM27EL0550ISO	HM27IR0550ISO	HM27IL0550ISO
6.0	27	15.875	1.9	2.6	HM27ER0600ISO	HM27EL0600ISO	HM27IR0600ISO	HM27IL0600ISO

ISO MT



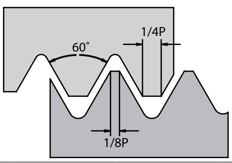
MULTITOOTH TYPE WYKONANIE WIELOZĘBOWE



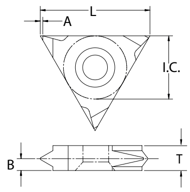


PITCH SKOK MM	TEETH ZĘBY	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE ANVIL PODKŁADKA	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE ANVIL PODKŁADKA
1.0	3	16	9.525	1.6	2.6	HM16ER0100ISO3M	SH300	HM16IR0100ISO3M	SH303
1.5	2	16	9.525	1.6	2.4	HM16ER0150ISO2M	SH300	HM16IR0150ISO2M	SH303
1.5	3	22	12.70	2.2	3.8	HM22ER0150ISO3M	SH301	HM22IR0150ISO3M	SH304
2.0	2	22	12.70	2.1	2.9	HM22ER0200ISO2M	SH301	HM22IR0200ISO2M	SH304
2.0	3	22	12.70	3.0	4.9	HM22ER0200ISO3M	SH301	HM22IR0200ISO3M	SH304
2.5	2	22	12.70	2.5	3.8	HM22ER0250ISO2M	SH301	-	-
3.0	2	27	15.875	2.8	4.4	HM27ER0300ISO2M	SH302	HM27IR0300ISO2M	SH305

ISO VT



VERTICAL TYPE WYKONANIE PIONOWE



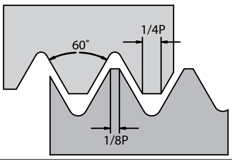
PITCH SKOK MM	L	I.C.	A	B	T	VERTICAL PIONOWE RIGHT PRAWY
1.0	16	9.525	1.1	0.6	3.7	HM16ER0100ISOV
1.25	16	9.525	1.1	0.9	3.7	HM16ER0125ISOV
1.5	16	9.525	1.1	1.0	3.7	HM16ER0150ISOV
2.0	16	9.525	1.1	1.2	3.7	HM16ER0200ISOV

!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

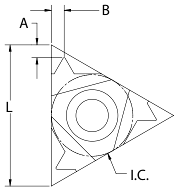
UNIFIED (UNC, UNF, UNEF) EXTERNAL AND INTERNAL THREADING

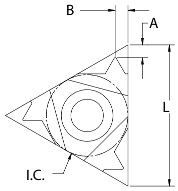
GWINTY CALOWE ZUNIFIKOWANE (UNC, UNF, UNEF). TOCZENIE GWINTÓW ZEW. I WEW.

UN ST



STANDARD TYPE WYKONANIE STANDARDOWE



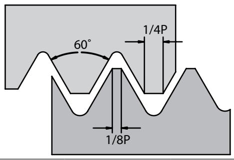


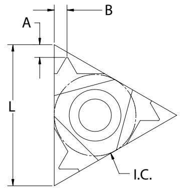
PITCH SKOK	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE		INTERNAL WEWNĘTRZNE	
TPI					RIGHT PRAWY	LEFT LEWY	RIGHT PRAWY	LEFT LEWY
40	6	4.00	0.7	0.5	-	-	HM06IR400UN	HM06IL400UN
36	6	4.00	0.7	0.5	-	-	HM06IR360UN	HM06IL360UN
32	6	4.00	0.7	0.6	-	-	HM06IR320UN	HM06IL320UN
28	6	4.00	0.7	0.7	-	-	HM06IR280UN	HM06IL280UN
24	6	4.00	0.7	0.7	-	-	HM06IR240UN	HM06IL240UN
20	6	4.00	0.7	0.7	-	-	HM06IR200UN	HM06IL200UN
18	6	4.00	0.7	0.7	-	-	HM06IR180UN	HM06IL180UN
40	8	5.00	0.7	0.5	-	-	HM08IR400UN	HM08IL400UN
36	8	5.00	0.7	0.5	-	-	HM08IR360UN	HM08IL360UN
32	8	5.00	0.7	0.6	-	-	HM08IR320UN	HM08IL320UN
28	8	5.00	0.7	0.7	-	-	HM08IR280UN	HM08IL280UN
24	8	5.00	0.7	0.7	-	-	HM08IR240UN	HM08IL240UN
20	8	5.00	0.7	0.7	-	-	HM08IR200UN	HM08IL200UN
18	8	5.00	0.7	0.7	-	-	HM08IR180UN	HM08IL180UN
16	8	5.00	0.7	0.7	-	-	HM08IR160UN	HM08IL160UN
14	8	5.00	0.7	0.7	-	-	HM08IR140UN	HM08IL140UN
72	11	6.35	0.6	0.6	HM11ER720UN	HM11EL720UN	HM11IR720UN	HM11IL720UN
64	11	6.35	0.6	0.7	HM11ER640UN	HM11EL640UN	HM11IR640UN	HM11IL640UN
56	11	6.35	0.6	0.6	HM11ER560UN	HM11EL560UN	HM11IR560UN	HM11IL560UN
48	11	6.35	0.6	0.7	HM11ER480UN	HM11EL480UN	HM11IR480UN	HM11IL480UN
44	11	6.35	0.6	0.7	HM11ER440UN	HM11EL440UN	HM11IR440UN	HM11IL440UN
40	11	6.35	0.6	0.6	HM11ER400UN	HM11EL400UN	HM11IR400UN	HM11IL400UN
36	11	6.35	0.6	0.7	HM11ER360UN	HM11EL360UN	HM11IR360UN	HM11IL360UN
32	11	6.35	0.6	0.6	HM11ER320UN	HM11EL320UN	HM11IR320UN	HM11IL320UN
28	11	6.35	0.6	0.7	HM11ER280UN	HM11EL280UN	HM11IR280UN	HM11IL280UN
27	11	6.35	0.6	0.7	HM11ER270UN	HM11EL270UN	HM11IR270UN	HM11IL270UN
24	11	6.35	0.7	0.8	HM11ER240UN	HM11EL240UN	HM11IR240UN	HM11IL240UN
20	11	6.35	0.8	0.9	HM11ER200UN	HM11EL200UN	HM11IR200UN	HM11IL200UN
18	11	6.35	0.8	1.0	HM11ER180UN	HM11EL180UN	HM11IR180UN	HM11IL180UN
16	11	6.35	0.6	1.1	HM11ER160UN	HM11EL160UN	HM11IR160UN	HM11IL160UN
14	11	6.35	0.6	1.1	HM11ER140UN	HM11EL140UN	HM11IR140UN	HM11IL140UN
13	11	6.35	0.6	1.0	HM11ER130UN	HM11EL130UN	HM11IR130UN	HM11IL130UN
12	11	6.35	0.6	1.1	-	-	HM11IR120UN	HM11IL120UN
11	11	6.35	0.8	1.1	-	-	HM11IR110UN	HM11IL110UN
72	16	9.525	0.6	0.6	HM16ER720UN	HM16EL720UN	HM16IR720UN	HM16IL720UN
64	16	9.525	0.6	0.7	HM16ER640UN	HM16EL640UN	HM16IR640UN	HM16IL640UN

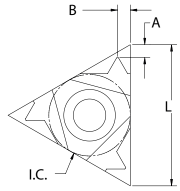
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

UNIFIED (UNC, UNF, UNEF) EXTERNAL AND INTERNAL THREADING
GWINTY CALOWE ZUNIFIKOWANE (UNC, UNF, UNEF). TOCZENIE GWINTÓW ZEW. I WEW.

UN ST







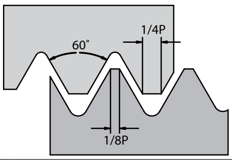
STANDARD TYPE WYKONANIE STANDARDOWE

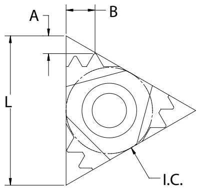
PITCH SKOK / TPI	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE		INTERNAL WEWNĘTRZNE	
					RIGHT PRAWY	LEFT LEWY	RIGHT PRAWY	LEFT LEWY
56	16	9.525	0.6	0.6	HM16ER560UN	HM16EL560UN	HM16IR560UN	HM16IL560UN
48	16	9.525	0.6	0.7	HM16ER480UN	HM16EL480UN	HM16IR480UN	HM16IL480UN
44	16	9.525	0.6	0.7	HM16ER440UN	HM16EL440UN	HM16IR440UN	HM16IL440UN
40	16	9.525	0.6	0.6	HM16ER400UN	HM16EL400UN	HM16IR400UN	HM16IL400UN
36	16	9.525	0.6	0.7	HM16ER360UN	HM16EL360UN	HM16IR360UN	HM16IL360UN
32	16	9.525	0.6	0.6	HM16ER320UN	HM16EL320UN	HM16IR320UN	HM16IL320UN
28	16	9.525	0.6	0.7	HM16ER280UN	HM16EL280UN	HM16IR280UN	HM16IL280UN
27	16	9.525	0.6	0.7	HM16ER270UN	HM16EL270UN	HM16IR270UN	HM16IL270UN
24	16	9.525	0.7	0.8	HM16ER240UN	HM16EL240UN	HM16IR240UN	HM16IL240UN
20	16	9.525	0.8	0.9	HM16ER200UN	HM16EL200UN	HM16IR200UN	HM16IL200UN
18	16	9.525	0.8	1.0	HM16ER180UN	HM16EL180UN	HM16IR180UN	HM16IL180UN
16	16	9.525	0.6	1.1	HM16ER160UN	HM16EL160UN	HM16IR160UN	HM16IL160UN
14	16	9.525	1.0	1.2	HM16ER140UN	HM16EL140UN	HM16IR140UN	HM16IL140UN
13	16	9.525	1.0	1.3	HM16ER130UN	HM16EL130UN	HM16IR130UN	HM16IL130UN
12	16	9.525	1.1	1.4	HM16ER120UN	HM16EL120UN	HM16IR120UN	HM16IL120UN
11	16	9.525	1.1	1.5	HM16ER110UN	HM16EL110UN	HM16IR110UN	HM16IL110UN
10	16	9.525	1.1	1.5	HM16ER100UN	HM16EL100UN	HM16IR100UN	HM16IL100UN
9	16	9.525	1.2	1.7	HM16ER090UN	HM16EL090UN	HM16IR090UN	HM16IL090UN
8	16	9.525	1.2	1.6	HM16ER080UN	HM16EL080UN	HM16IR080UN	HM16IL080UN
7	22	12.70	1.6	2.3	HM22ER070UN	HM22EL070UN	HM22IR070UN	HM22IL070UN
6	22	12.70	1.6	2.3	HM22ER060UN	HM22EL060UN	HM22IR060UN	HM22IL060UN
5	22	12.70	1.7	2.4	HM22ER050UN	HM22EL050UN	HM22IR050UN	HM22IL050UN
4.5	27	15.875	1.8	2.6	HM27ER045UN	HM27EL045UN	HM27IR045UN	HM27IL045UN
4	27	15.875	2.0	2.8	HM27ER040UN	HM27EL040UN	HM27IR040UN	HM27IL040UN

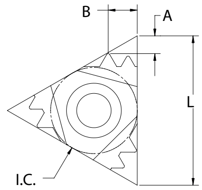
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

UNIFIED (UNC, UNF, UNEF) EXTERNAL AND INTERNAL THREADING
GWINTY CALOWE ZUNIFIKOWANE (UNC, UNF, UNEF). TOCZENIE GWINTÓW ZEW. I WEW.

UN MT



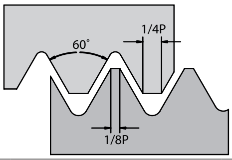


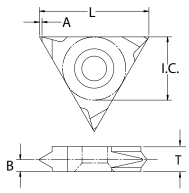


MULTITOOTH TYPE WYKONANIE WIELOZĘBOWE

PITCH SKOK	TEETH ZĘBY	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE		INTERNAL WEWNĘTRZNE	
TPI						RIGHT PRAWY	ANVIL PODKŁADKA	RIGHT PRAWY	ANVIL PODKŁADKA
20	2	16	9.525	1.4	2.1	HM16ER200UN2M	SH300	HM16IR200UN2M	SH303
16	2	16	9.525	1.6	2.4	HM16ER160UN2M	SH300	HM16IR160UN2M	SH303
14	2	16	9.525	1.8	2.7	HM16ER140UN2M	SH300	HM16IR140UN2M	SH303
12	2	16	9.525	1.8	2.7	-	-	HM16IR120UN2M	SH303
16	3	22	12.70	2.5	4.1	HM22ER160UN3M	SH301	HM22IR160UN3M	SH304
12	2	22	12.70	2.1	3.3	HM22ER120UN2M	SH301	HM22IR120UN2M	SH304
12	3	22	12.70	3.2	5.2	HM22ER120UN3M	SH301	HM22IR120UN3M	SH304
8	2	27	15.875	3.1	4.8	HM27ER080UN2M	SH302	HM27IR080UN2M	SH305

UN VT





VERTICAL TYPE WYKONANIE PIONOWE

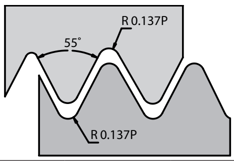
PITCH SKOK	L	I.C.	A	B	T	VERTICAL PIONOWE
TPI						RIGHT PRAWY
20	16	9.525	1.1	0.8	3.7	HM16ER200UNV
16	16	9.525	1.1	1.0	3.7	HM16ER160UNV
14	16	9.525	1.1	1.2	3.7	HM16ER140UNV
12	16	9.525	1.1	1.3	3.7	HM16ER120UNV

! EDP NO: ORDER CODE + GRADE
KOD EDP: KOD ZAMÓWIENIA + GATUNEK

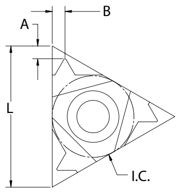
p.135 CUTTING DATA
PARAMETRY OBÓBKI

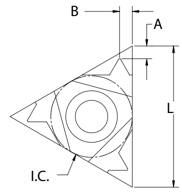
WHITWORTH (BSW, BSF, BSP) EXTERNAL AND INTERNAL THREADING
GWINTY CALOWE WHITWORTH (BSW, BSF, BSP). TOCZENIE GWINTÓW ZEW. I WEW.

W ST



STANDARD TYPE WYKONANIE STANDARDOWE



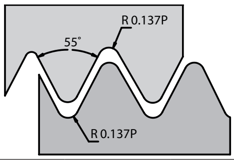


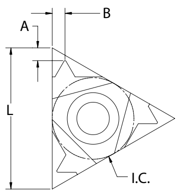
PITCH SKOK / TPI	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE		INTERNAL WEWNĘTRZNE	
					RIGHT PRAWY	LEFT LEWY	RIGHT PRAWY	LEFT LEWY
28	6	4.00	0.7	0.6	-	-	HM06IR280W	HM06IL280W
26	6	4.00	0.7	0.6	-	-	HM06IR260W	HM06IL260W
24	6	4.00	0.7	0.6	-	-	HM06IR240W	HM06IL240W
22	6	4.00	0.7	0.6	-	-	HM06IR220W	HM06IL220W
19	6	4.00	0.7	0.7	-	-	HM06IR190W	HM06IL190W
18	6	4.00	0.7	0.7	-	-	HM06IR180W	HM06IL180W
28	8	5.00	0.7	0.7	-	-	HM08IR280W	HM08IL280W
26	8	5.00	0.7	0.7	-	-	HM08IR260W	HM08IL260W
24	8	5.00	0.7	0.7	-	-	HM08IR240W	HM08IL240W
20	8	5.00	0.7	0.7	-	-	HM08IR200W	HM08IL200W
19	8	5.00	0.7	0.7	-	-	HM08IR190W	HM08IL190W
18	8	5.00	0.7	0.7	-	-	HM08IR180W	HM08IL180W
16	8	5.00	0.7	0.7	-	-	HM08IR160W	HM08IL160W
72	11	6.35	0.7	0.4	HM11ER720W	HM11EL720W	HM11IR720W	HM11IL720W
60	11	6.35	0.7	0.4	HM11ER600W	HM11EL600W	HM11IR600W	HM11IL600W
56	11	6.35	0.7	0.4	HM11ER560W	HM11EL560W	HM11IR560W	HM11IL560W
48	11	6.35	0.6	0.6	HM11ER480W	HM11EL480W	HM11IR480W	HM11IL480W
40	11	6.35	0.6	0.6	HM11ER400W	HM11EL400W	HM11IR400W	HM11IL400W
40	11	6.35	0.6	0.6	HM11ER360W	HM11EL360W	-	-
32	11	6.35	0.6	0.6	HM11ER320W	HM11EL320W	HM11IR320W	HM11IL320W
28	11	6.35	0.6	0.7	HM11ER280W	HM11EL280W	HM11IR280W	HM11IL280W
26	11	6.35	0.7	0.8	HM11ER260W	HM11EL260W	HM11IR260W	HM11IL260W
24	11	6.35	0.7	0.8	HM11ER240W	HM11EL240W	HM11IR240W	HM11IL240W
22	11	6.35	0.8	0.9	HM11ER220W	HM11EL220W	-	-
20	11	6.35	0.8	0.9	HM11ER200W	HM11EL200W	HM11IR200W	HM11IL200W
19	11	6.35	0.8	1.0	HM11ER190W	HM11EL190W	HM11IR190W	HM11IL190W
18	11	6.35	0.8	1.0	HM11ER180W	HM11EL180W	HM11IR180W	HM11IL180W
16	11	6.35	0.9	1.1	HM11ER160W	HM11EL160W	HM11IR160W	HM11IL160W
14	11	6.35	0.9	1.1	HM11ER140W	HM11EL140W	HM11IR140W	HM11IL140W
72	16	9.525	0.7	0.4	HM16ER720W	HM16EL720W	HM16IR720W	HM16IL720W
60	16	9.525	0.7	0.4	HM16ER600W	HM16EL600W	HM16IR600W	HM16IL600W
56	16	9.525	0.7	0.4	HM16ER560W	HM16EL560W	HM16IR560W	HM16IL560W
48	16	9.525	0.6	0.6	HM16ER480W	HM16EL480W	HM16IR480W	HM16IL480W
40	16	9.525	0.6	0.6	HM16ER400W	HM16EL400W	HM16IR400W	HM16IL400W
36	16	9.525	0.6	0.6	HM16ER360W	HM16EL360W	HM16IR360W	HM16IL360W
32	16	9.525	0.6	0.6	HM16ER320W	HM16EL320W	HM16IR320W	HM16IL320W
28	16	9.525	0.6	0.7	HM16ER280W	HM16EL280W	HM16IR280W	HM16IL280W
26	16	9.525	0.7	0.8	HM16ER260W	HM16EL260W	HM16IR260W	HM16IL260W
24	16	9.525	0.7	0.8	HM16ER240W	HM16EL240W	HM16IR240W	HM16IL240W
22	16	9.525	0.8	0.9	HM16ER220W	HM16EL220W	HM16IR220W	HM16IL220W
20	16	9.525	0.8	1.0	HM16ER200W	HM16EL200W	HM16IR200W	HM16IL200W
19	16	9.525	0.8	1.0	HM16ER190W	HM16EL190W	HM16IR190W	HM16IL190W
18	16	9.525	0.8	1.0	HM16ER180W	HM16EL180W	HM16IR180W	HM16IL180W

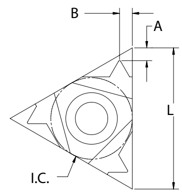
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

WHITWORTH (BSW, BSF, BSP) EXTERNAL AND INTERNAL THREADING
GWINTY CALOWE WHITWORTH (BSW, BSF, BSP). TOCZENIE GWINTÓW ZEW. I WEW.

W ST



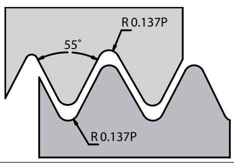


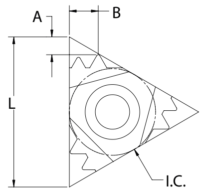


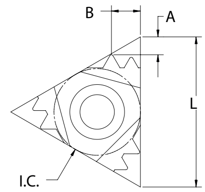
STANDARD TYPE WYKONANIE STANDARDOWE

PITCH SKOK	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE		INTERNAL WEWNĘTRZNE	
TPI					RIGHT PRAWY	LEFT LEWY	RIGHT PRAWY	LEFT LEWY
16	16	9.525	0.9	1.1	HM16ER160W	HM16EL160W	HM16IR160W	HM16IL160W
14	16	9.525	1.0	1.2	HM16ER140W	HM16EL140W	HM16IR140W	HM16IL140W
12	16	9.525	1.1	1.4	HM16ER120W	HM16EL120W	HM16IR120W	HM16IL120W
11	16	9.525	1.1	1.5	HM16ER110W	HM16EL110W	HM16IR110W	HM16IL110W
10	16	9.525	1.1	1.5	HM16ER100W	HM16EL100W	HM16IR100W	HM16IL100W
9	16	9.525	1.2	1.7	HM16ER090W	HM16EL090W	HM16IR090W	HM16IL090W
8	16	9.525	1.2	1.5	HM16ER080W	HM16EL080W	HM16IR080W	HM16IL080W
7	22	12.70	1.6	2.3	HM22ER070W	HM22EL070W	HM22IR070W	HM22IL070W
6	22	12.70	1.6	2.3	HM22ER060W	HM22EL060W	HM22IR060W	HM22IL060W
5	22	12.70	1.7	2.4	HM22ER050W	HM22EL050W	HM22IR050W	HM22IL050W
4.5	27	15.875	1.7	2.5	HM27ER045W	HM27EL045W	HM27IR045W	HM27IL045W
4	27	15.875	1.9	2.8	HM27ER040W	HM27EL040W	HM27IR040W	HM27IL040W

W MT



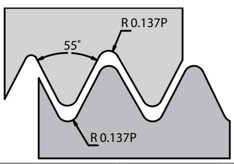


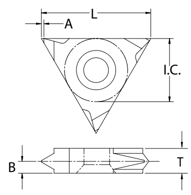


MULTITOOTH TYPE WYKONANIE WIELOZĘBOWE

PITCH SKOK	TEETH ZĘBY	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE		INTERNAL WEWNĘTRZNE	
TPI						RIGHT PRAWY	ANVIL PODKŁADKA	RIGHT PRAWY	ANVIL PODKŁADKA
14	2	16	9.525	1.8	2.8	HM16ER140W2M	SH300	HM16IR140W2M	SH303
14	3	22	12.70	2.8	4.6	HM22ER140W3M	SH301	HM22IR140W3M	SH304
11	2	22	12.70	2.4	3.5	HM22ER110W2M	SH301	HM22IR110W2M	SH304

W VT





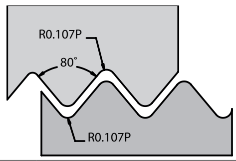
VERTICAL TYPE WYKONANIE PIONOWE

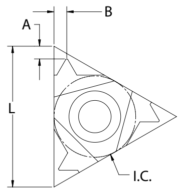
PITCH SKOK	L	I.C.	A	B	T	VERTICAL PIONOWE
TPI						RIGHT PRAWY
19	16	9.525	1.1	0.8	3.7	HM16ER190WV
14	16	9.525	1.1	1.1	3.7	HM16ER140WV
11	16	9.525	1.1	1.3	3.7	HM16ER110WV

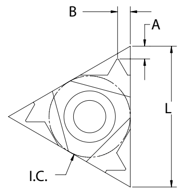
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

PG (PANZERROUHR-GEWINDE). EXTERNAL AND INTERNAL THREADING
GWINTY INSTALACYJNE PANCERNE. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

PG ST





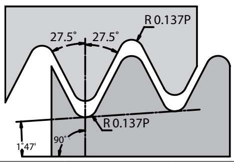


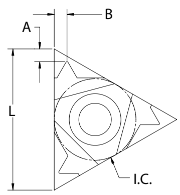
STANDARD TYPE WYKONANIE STANDARDOWE

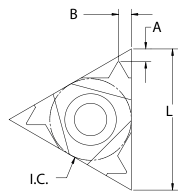
PITCH SKOK / TPI	L	I.C.	A	B	SIZE ROZMIAR	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE RIGHT PRAWY
20	11	6.35	1.3	0.8	PG7	HM11ER200PG	HM11IR200PG
18	11	6.35	0.8	0.9	PG 9, PG 11, PG 13.5, PG16	HM11ER180PG	HM11IR180PG
16	11	6.35	1.0	1.1	PG21, PG29, PG36, PG42, PG48	HM11ER160PG	–
20	16	9.525	0.8	0.8	PG7	HM16ER200PG	HM16IR200PG
18	16	9.525	0.9	1.0	PG 9, PG 11, PG 13.5, PG16	HM16ER180PG	HM16IR180PG
16	16	9.525	0.9	1.1	PG21, PG29, PG36, PG42, PG48	HM16ER160PG	HM16IR160PG

BRITISH STANDARD PIPE TAPER. EXTERNAL AND INTERNAL THREADING
BRYTYJSKI STOŻKOWY GWINT RUROWY. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

BSPT ST



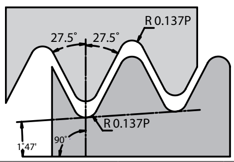


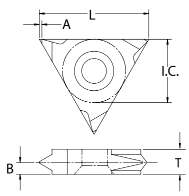


STANDARD TYPE WYKONANIE STANDARDOWE

PITCH SKOK / TPI	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE LEFT LEWY	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE LEFT LEWY
28	06	4.00	0.7	0.5	-	-	HM06IR280BSPT	HM06IL280BSPT
28	08	5.00	0.7	0.6	-	-	HM08IR280BSPT	HM08IL280BSPT
19	08	5.00	0.7	0.7	-	-	HM08IR190BSPT	HM08IL190BSPT
28	11	6.35	0.8	0.9	HM11ER280BSPT	HM11EL280BSPT	HM11IR280BSPT	HM11IL280BSPT
19	11	6.35	0.8	0.9	HM11ER190BSPT	HM11EL190BSPT	HM11IR190BSPT	HM11IL190BSPT
14	11	6.35	0.9	1.0	HM11ER140BSPT	HM11EL140BSPT	HM11IR140BSPT	HM11IL140BSPT
28	16	9.525	0.6	0.6	HM16ER280BSPT	HM16EL280BSPT	HM16IR280BSPT	HM16IL280BSPT
19	16	9.525	0.8	0.9	HM16ER190BSPT	HM16EL190BSPT	HM16IR190BSPT	HM16IL190BSPT
14	16	9.525	1.0	1.2	HM16ER140BSPT	HM16EL140BSPT	HM16IR140BSPT	HM16IL140BSPT
11	16	9.525	1.1	1.5	HM16ER110BSPT	HM16EL110BSPT	HM16IR110BSPT	HM16IL110BSPT

BSPT VT





VERTICAL TYPE WYKONANIE PIONOWE

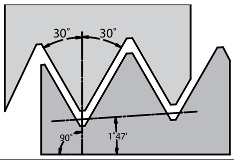
PITCH SKOK / TPI	L	I.C.	A	B	T	VERTICAL PIONOWE RIGHT PRAWY
28	16	9.525	1.1	0.8	3.7	HM16ER280BSPTV
19	16	9.525	1.1	1.0	3.7	HM16ER190BSPTV
14	16	9.525	1.1	1.2	3.7	HM16ER140BSPTV
11	16	9.525	1.1	1.5	3.7	HM16ER110BSPTV

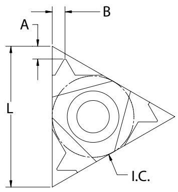
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

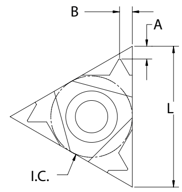
NPT EXTERNAL AND INTERNAL THREADING

GWINT NPT. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

NPT ST



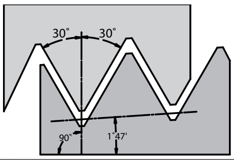


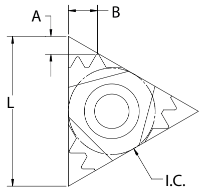


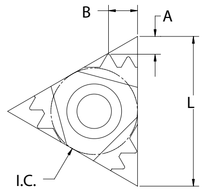
STANDARD TYPE WYKONANIE STANDARDOWE

PITCH SKOK / TPI	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE LEFT LEWY	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE LEFT LEWY
27	06	4.00	0.7	0.5	-	-	HM06IR270NPT	HM06IL270NPT
27	08	5.00	0.7	0.6	-	-	HM08IR270NPT	HM08IL270NPT
18	08	5.00	0.7	0.7	-	-	HM08IR180NPT	HM08IL180NPT
27	11	6.35	0.7	0.8	HM11ER270NPT	HM11EL270NPT	HM11IR270NPT	HM11IL270NPT
18	11	6.35	0.8	1.0	HM11ER180NPT	HM11EL180NPT	HM11IR180NPT	HM11IL180NPT
14	11	6.35	0.8	1.0	HM11ER140NPT	HM11EL140NPT	HM11IR140NPT	HM11IL140NPT
27	16	9.525	0.7	0.8	HM16ER270NPT	HM16EL270NPT	HM16IR270NPT	HM16IL270NPT
18	16	9.525	0.8	1.0	HM16ER180NPT	HM16EL180NPT	HM16IR180NPT	HM16IL180NPT
14	16	9.525	0.9	1.2	HM16ER140NPT	HM16EL140NPT	HM16IR140NPT	HM16IL140NPT
11.5	16	9.525	1.1	1.5	HM16ER115NPT	HM16EL115NPT	HM16IR115NPT	HM16IL115NPT
8	16	9.525	1.3	1.8	HM16ER080NPT	HM16EL080NPT	HM16IR080NPT	HM16IL080NPT

NPT MT



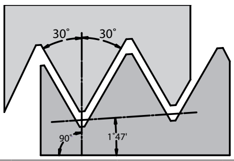


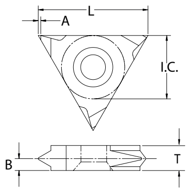


MULTITOOTH TYPE WYKONANIE WIELOZĘBOWE

PITCH SKOK / TPI	TEETH ZĘBY	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE ANVIL PODKŁADKA	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE ANVIL PODKŁADKA
11.5	2	22	12.70	2.4	3.4	HM22ER115NPT2M	SH301	HM22IR115NPT2M	SH304
11.5	3	27	15.875	3.5	5.6	HM27ER115NPT3M	SH302	HM27IR115NPT3M	SH305
8	2	27	15.875	3.0	4.8	HM27ER080NPT2M	SH302	HM27IR080NPT2M	SH305

NPT VT





VERTICAL TYPE WYKONANIE PIONOWE

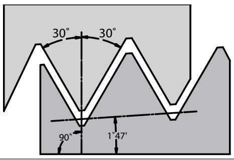
PITCH SKOK / TPI	L	I.C.	A	B	T	VERTICAL PIONOWE RIGHT PRAWY
27	16	9.525	1.1	0.8	3.7	HM16ER270NPTV
18	16	9.525	1.1	1.0	3.7	HM16ER180NPTV
14	16	9.525	1.1	1.2	3.7	HM16ER140NPTV
11.5	16	9.525	1.1	1.5	3.7	HM16ER115NPTV

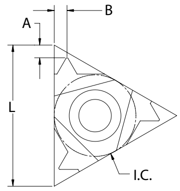
! EDP NO: ORDER CODE + GRADE
KOD EDP: KOD ZAMÓWIENIA + GATUNEK

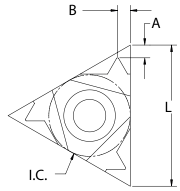
p.135 CUTTING DATA
PARAMETRY OBÓBKI

NPTF EXTERNAL AND INTERNAL THREADING
GWINT NPTF. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

NPTF ST



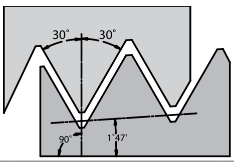


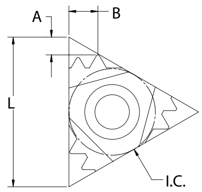


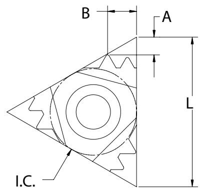
STANDARD TYPE WYKONANIE STANDARDOWE

PITCH SKOK / TPI	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE LEFT LEWY	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE LEFT LEWY
27	6	4.00	0.7	0.5	-	-	HM06IR270NPTF	HM06IL270NPTF
27	8	5.00	0.7	0.6	-	-	HM08IR270NPTF	HM08IL270NPTF
18	8	5.00	0.7	0.7	-	-	HM08IR180NPTF	HM08IL180NPTF
27	11	6.35	0.7	0.8	HM11ER270NPTF	HM11EL270NPTF	HM11IR270NPTF	HM11IL270NPTF
18	11	6.35	0.8	1.0	HM11ER180NPTF	HM11EL180NPTF	HM11IR180NPTF	HM11IL180NPTF
14	11	6.35	0.8	1.0	HM11ER140NPTF	HM11EL140NPTF	HM11IR140NPTF	HM11IL140NPTF
27	16	9.525	0.7	0.8	HM16ER270NPTF	HM16EL270NPTF	HM16IR270NPTF	HM16IL270NPTF
18	16	9.525	0.8	1.0	HM16ER180NPTF	HM16EL180NPTF	HM16IR180NPTF	HM16IL180NPTF
14	16	9.525	0.9	1.2	HM16ER140NPTF	HM16EL140NPTF	HM16IR140NPTF	HM16IL140NPTF
11.5	16	9.525	1.1	1.5	HM16ER115NPTF	HM16EL115NPTF	HM16IR115NPTF	HM16IL115NPTF
8	16	9.525	1.3	1.8	HM16ER080NPTF	HM16EL080NPTF	HM16IR080NPTF	HM16IL080NPTF

NPTF MT







MULTITOOTH TYPE WYKONANIE WIELOZĘBOWE

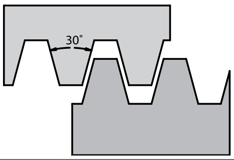
PITCH SKOK / TPI	TEETH ZĘBY	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE ANVIL PODKŁADKA	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE ANVIL PODKŁADKA
11.5	2	22	12.70	2.4	3.4	HM22ER115NPTF2M	SH301	HM22IR115NPTF2M	SH304

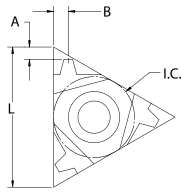
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

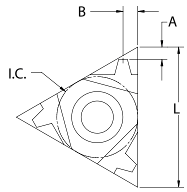
TRAPEZOIDAL DIN 103 EXTERNAL AND INTERNAL THREADING

GWINT TRAPEZOWY DIN 103. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

TR ST





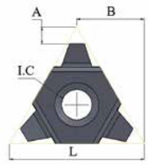


STANDARD TYPE WYKONANIE STANDARDOWE

PITCH SKOK	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE		INTERNAL WEWNĘTRZNE	
MM					RIGHT PRAWY	LEFT LEWY	RIGHT PRAWY	LEFT LEWY
1.5	11	6.35	0.8	0.8	HM11ER0150TR	HM11EL0150TR	HM11IR0150TR	HM11IL0150TR
1.5	16	9.525	1.0	1.1	HM16ER0150TR	HM16EL0150TR	HM16IR0150TR	HM16IL0150TR
2.0	16	9.525	1.1	1.3	HM16ER0200TR	HM16EL0200TR	HM16IR0200TR	HM16IL0200TR
3.0	16	9.525	1.3	1.5	HM16ER0300TR	HM16EL0300TR	HM16IR0300TR	HM16IL0300TR
4.0	16	9.525	1.4	1.6	HM16ER0400TR	HM16EL0400TR	HM16IR0400TR	HM16IL0400TR
4.0	22	12.70	1.7	1.9	HM22ER0400TR	HM22EL0400TR	HM22IR0400TR	HM22IL0400TR
5.0	22	12.70	2.1	2.4	HM22ER0500TR	HM22EL0500TR	HM22IR0500TR	HM22IL0500TR
6.0	22	12.70	2.3	2.6	HM22ER0600TR	HM22EL0600TR	HM22IR0600TR	HM22IL0600TR
6.0	22	12.70	2.0	11.0	HM22ER0600TRU	HM22EL0600TRU	HM22IR0600TRU	HM22IL0600TRU
6.0	27	15.875	2.2	2.6	HM27ER0600TR	HM27EL0600TR	HM27IR0600TR	HM27IL0600TR
7.0	22	12.70	2.3	11.0	HM22ER0700TRU	HM22EL0700TRU	HM22IR0700TRU	HM22IL0700TRU
7.0	27	15.875	2.1	2.5	HM27ER0700TR	HM27EL0700TR	HM27IR0700TR	HM27IL0700TR
8.0	27	15.875	2.5	13.7	HM27ER0800TRU	HM27EL0800TRU	HM27IR0800TRU	HM27IL0800TRU
9.0	27	15.875	3.0	13.7	HM27ER0900TRU	HM27EL0900TRU	HM27IR0900TRU	HM27IL0900TRU
10.0*	27	15.875	3.2	13.7	HM27ER1000TRU	HM27EL1000TRU	HM27IR1000TRU	HM27IL1000TRU
12.0	33	19.05	3.9	16.9	HM33ER1200TRU	HM33EL1200TRU	HM33IR1200TRU	HM33IL1200TRU

* ONE CUTTING EDGE
JEDNA KRAWĘDŹ SKRAWAJĄCA

U U-TYPE
TYP U

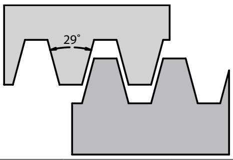


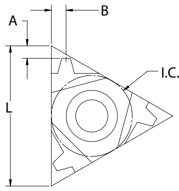
! EDP NO: ORDER CODE + GRADE
KOD EDP: KOD ZAMÓWIENIA + GATUNEK

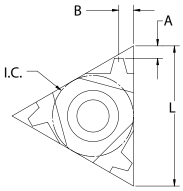
p.135 CUTTING DATA
PARAMETRY OBÓBKI

ACME EXTERNAL AND INTERNAL THREADING
GWINT ACME. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

ACME ST





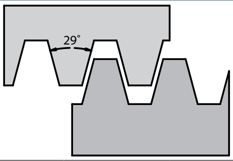


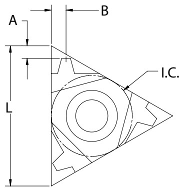
STANDARD TYPE WYKONANIE STANDARDOWE

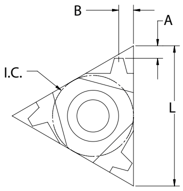
PITCH SKOK / TPI	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE LEFT LEWY	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE LEFT LEWY
16	11	6.35	1.0	1.1	HM11ER160ACME	HM11EL160ACME	HM11IR160ACME	HM11IL160ACME
16	16	9.525	1.0	1.1	HM16ER160ACME	HM16EL160ACME	HM16IR160ACME	HM16IL160ACME
14	16	9.525	1.0	1.2	HM16ER140ACME	HM16EL140ACME	HM16IR140ACME	HM16IL140ACME
12	16	9.525	1.1	1.2	HM16ER120ACME	HM16EL120ACME	HM16IR120ACME	HM16IL120ACME
10	16	9.525	1.3	1.4	HM16ER100ACME	HM16EL100ACME	HM16IR100ACME	HM16IL100ACME
8	16	9.525	1.4	1.5	HM16ER080ACME	HM16EL080ACME	HM16IR080ACME	HM16IL080ACME
6	16	9.525	1.4	1.5	-	-	HM16IR060ACME	HM16IL060ACME
6	22	12.70	1.8	2.1	HM22ER060ACME	HM22EL060ACME	HM22IR060ACME	HM22IL060ACME
5	22	12.70	2.0	2.3	HM22ER050ACME	HM22EL050ACME	HM22IR050ACME	HM22IL050ACME
4	22	12.70	2.1	2.4	HM22ER040ACME	HM22EL040ACME	HM22IR040ACME	HM22IL040ACME
4	22	12.70	2.3	11.0	HM22ER040ACMEU	HM22EL040ACMEU	HM22IR040ACMEU	HM22IL040ACMEU
4	27	15.875	2.4	2.6	HM27ER040ACME	HM27EL040ACME	HM27IR040ACME	HM27IL040ACME
3	27	15.875	2.8	13.7	HM27ER030ACMEU	HM27EL030ACMEU	HM27IR030ACMEU	HM27IL030ACMEU
2	33	19.05	4.3	16.9	HM33ER020ACMEU	HM33EL020ACMEU	HM33IR020ACMEU	HM33IL020ACMEU

STUB ACME EXTERNAL AND INTERNAL THREADING
GWINT NISKI ACME. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

STACME ST





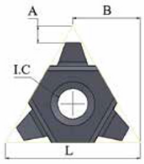


STANDARD TYPE WYKONANIE STANDARDOWE

PITCH SKOK / TPI	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE LEFT LEWY	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE LEFT LEWY
16	11	6.35	1.0	1.1	HM11ER160STACME	HM11EL160STACME	HM11IR160STACME	HM11IL160STACME
16	16	9.525	1.0	1.1	HM16ER160STACME	HM16EL160STACME	HM16IR160STACME	HM16IL160STACME
14	16	9.525	1.0	1.2	HM16ER140STACME	HM16EL140STACME	HM16IR140STACME	HM16IL140STACME
12	16	9.525	1.1	1.2	HM16ER120STACME	HM16EL120STACME	HM16IR120STACME	HM16IL120STACME
10	16	9.525	1.2	1.4	HM16ER100STACME	HM16EL100STACME	HM16IR100STACME	HM16IL100STACME
8	16	9.525	1.4	1.5	HM16ER080STACME	HM16EL080STACME	HM16IR080STACME	HM16IL080STACME
6	16	9.525	1.7	1.8	HM16ER060STACME	HM16EL060STACME	HM16IR060STACME	HM16IL060STACME
6	22	12.70	1.8	2.1	HM22ER060STACME	HM22EL060STACME	HM22IR060STACME	HM22IL060STACME
5	22	12.70	2.1	2.3	HM22ER050STACME	HM22EL050STACME	HM22IR050STACME	HM22IL050STACME
4	22	12.70	2.3	2.3	HM22ER040STACME	HM22EL040STACME	HM22IR040STACME	HM22IL040STACME
4	22	12.70	2.3	11.0	HM22ER040STACMEU	HM22EL040STACMEU	HM22IR040STACMEU	HM22IL040STACMEU
4	27	15.875	2.4	2.5	HM27ER040STACME	HM27EL040STACME	HM27IR040STACME	HM27IL040STACME
3	22	12.70	3.3	11.0	HM22ER030STACMEU	HM22EL030STACMEU	HM22IR030STACMEU	HM22IL030STACMEU
3	27	15.875	2.7	2.8	HM27ER030STACME	HM27EL030STACME	HM27IR030STACME	HM27IL030STACME
2	33	19.05	5.0	16.9	HM33ER020STACMEU	HM33EL020STACMEU	HM33IR020STACMEU	HM33IL020STACMEU

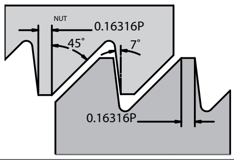
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

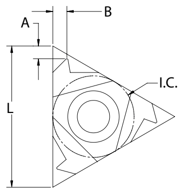
*	ONE CUTTING EDGE JEDNA KRAWĘDŹ SKRAWAJĄCA
U	U-TYPE TYP U

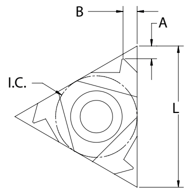


AMERICAN BUTTRESS EXTERNAL AND INTERNAL THREADING
GWINT AMERYKAŃSKI TRAPEZOWY NIESYMETRYCZNY. TOCZENIE GWINTÓW ZEW. I WEW.

ABUT ST

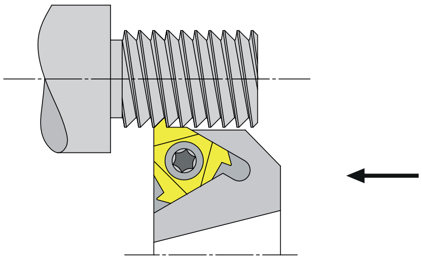


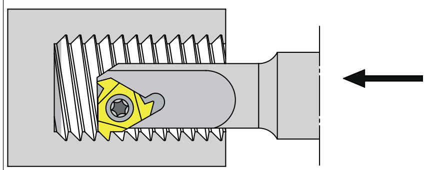




STANDARD TYPE WYKONANIE STANDARDOWE

STANDARD LEADING ANGLE 45°
DOMYŚLNY KĄT PRZYSTAWIENIA 45°



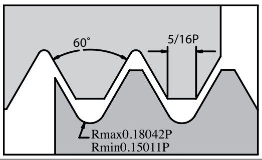


PITCH SKOK	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE		INTERNAL WEWNĘTRZNE	
TPI					RIGHT PRAWY	LEFT LEWY	RIGHT PRAWY	LEFT LEWY
20	11	6.35	1.0	1.4	HM11ER200ABUT	HM11EL200ABUT	HM11IR200ABUT	HM11IL200ABUT
16	11	6.35	1.1	1.6	HM11ER160ABUT	HM11EL160ABUT	HM11IR160ABUT	HM11IL160ABUT
20	16	9.525	1.0	1.4	HM16ER200ABUT	HM16EL200ABUT	HM16IR200ABUT	HM16IL200ABUT
16	16	9.525	1.0	1.5	HM16ER160ABUT	HM16EL160ABUT	HM16IR160ABUT	HM16IL160ABUT
12	16	9.525	1.4	2.0	HM16ER120ABUT	HM16EL120ABUT	HM16IR120ABUT	HM16IL120ABUT
10	16	9.525	1.5	2.3	HM16ER100ABUT	HM16EL100ABUT	HM16IR100ABUT	HM16IL100ABUT
8	22	12.70	2.0	3.2	HM22ER080ABUT	HM22EL080ABUT	HM22IR080ABUT	HM22IL080ABUT
6	22	12.70	2.1	3.4	HM22ER060ABUT	HM22EL060ABUT	HM22IR060ABUT	HM22IL060ABUT

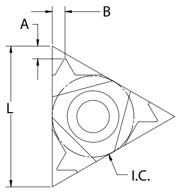
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

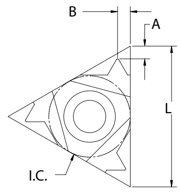
UNJ EXTERNAL AND INTERNAL THREADING
GWINTY UNJ. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

UNJ ST



STANDARD TYPE WYKONANIE STANDARDOWE





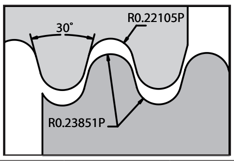
PITCH SKOK / TPI	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE LEFT LEWY	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE LEFT LEWY
32	11	6.35	0.6	0.6	HM11ER320UNJ	HM11EL320UNJ	HM11IR320UNJ	HM11IL320UNJ
28	11	6.35	0.6	0.6	HM11ER280UNJ	HM11EL280UNJ	HM11IR280UNJ	HM11IL280UNJ
24	11	6.35	0.7	0.8	HM11ER240UNJ	HM11EL240UNJ	HM11IR240UNJ	HM11IL240UNJ
20	11	6.35	0.8	0.9	HM11ER200UNJ	HM11EL200UNJ	HM11IR200UNJ	HM11IL200UNJ
18	11	6.35	0.8	1.0	HM11ER180UNJ	HM11EL180UNJ	HM11IR180UNJ	HM11IL180UNJ
16	11	6.35	0.8	1.0	HM11ER160UNJ	HM11EL160UNJ	HM11IR160UNJ	HM11IL160UNJ
14	11	6.35	0.9	1.0	HM11ER140UNJ	HM11EL140UNJ	HM11IR140UNJ	HM11IL140UNJ
32	16	9.525	0.6	0.6	HM16ER320UNJ	HM16EL320UNJ	HM16IR320UNJ	HM16IL320UNJ
28	16	9.525	0.6	0.6	HM16ER280UNJ	HM16EL280UNJ	HM16IR280UNJ	HM16IL280UNJ
24	16	9.525	0.7	0.8	HM16ER240UNJ	HM16EL240UNJ	HM16IR240UNJ	HM16IL240UNJ
20	16	9.525	0.8	0.9	HM16ER200UNJ	HM16EL200UNJ	HM16IR200UNJ	HM16IL200UNJ
18	16	9.525	0.8	1.0	HM16ER180UNJ	HM16EL180UNJ	HM16IR180UNJ	HM16IL180UNJ
16	16	9.525	0.8	1.0	HM16ER160UNJ	HM16EL160UNJ	HM16IR160UNJ	HM16IL160UNJ
14	16	9.525	1.0	1.2	HM16ER140UNJ	HM16EL140UNJ	HM16IR140UNJ	HM16IL140UNJ
13	16	9.525	1.0	1.3	HM16ER130UNJ	HM16EL130UNJ	-	-
12	16	9.525	1.1	1.4	HM16ER120UNJ	HM16EL120UNJ	HM16IR120UNJ	HM16IL120UNJ
11	16	9.525	1.1	1.5	HM16ER110UNJ	HM16EL110UNJ	HM16IR110UNJ	HM16IL110UNJ
10	16	9.525	1.1	1.5	HM16ER100UNJ	HM16EL100UNJ	HM16IR100UNJ	HM16IL100UNJ
9	16	9.525	1.2	1.6	HM16ER090UNJ	HM16EL090UNJ	HM16IR090UNJ	HM16IL090UNJ
8	16	9.525	1.2	1.6	HM16ER080UNJ	HM16EL080UNJ	HM16IR080UNJ	HM16IL080UNJ

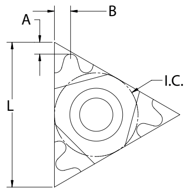
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

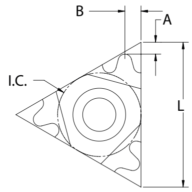
ROUND DIN 405 EXTERNAL AND INTERNAL THREADING

GWINT OKRĄGŁY DIN 405. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

RD ST







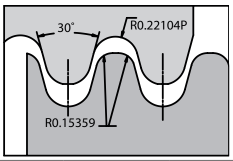
STANDARD TYPE WYKONANIE STANDARDOWE

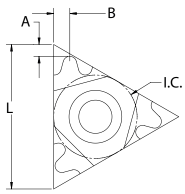
PITCH SKOK / TPI	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE LEFT LEWY	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE LEFT LEWY
10	16	9.525	1.1	1.2	HM16ER100RD	HM16EL100RD	HM16IR100RD	HM16IL100RD
8	16	9.525	1.4	1.4	HM16ER080RD	HM16EL080RD	HM16IR080RD	HM16IL080RD
6	16	9.525	1.4	1.5	HM16ER060RD	HM16EL060RD	HM16IR060RD	HM16IL060RD
6	22	12.70	1.5	1.7	HM22ER060RD	HM22EL060RD	HM22IR060RD	HM22IL060RD
4	22	12.70	2.2	2.3	HM22ER040RD	HM22EL040RD	HM22IR040RD	HM22IL040RD
4	27	15.875	2.3	2.3	HM27ER040RD	HM27EL040RD	HM27IR040RD	HM27IL040RD

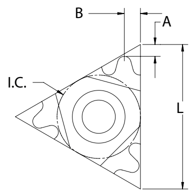
ROUND DIN 20400 EXTERNAL AND INTERNAL THREADING

GWINT OKRĄGŁY DIN 20400. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

DIN ST







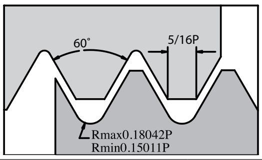
STANDARD TYPE WYKONANIE STANDARDOWE

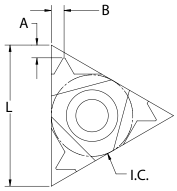
PITCH SKOK / TPI	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE LEFT LEWY	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE LEFT LEWY
3.0	16	9.525	1.3	1.6	HM16ER0300DIN	HM16EL0300DIN	HM16IR0300DIN	HM16IL0300DIN
4.0	22	12.70	1.6	1.5	HM22ER0400DIN	HM22EL0400DIN	HM22IR0400DIN	HM22IL0400DIN
5.0	22	12.70	1.6	1.7	HM22ER0500DIN	HM22EL0500DIN	HM22IR0500DIN	HM22IL0500DIN
6.0	22	12.70	1.7	2.1	HM22ER0600DIN	HM22EL0600DIN	HM22IR0600DIN	HM22IL0600DIN

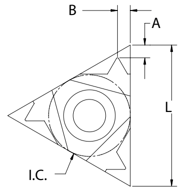
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

MJ EXTERNAL AND INTERNAL THREADING
GWINTY MJ. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

MJ ST





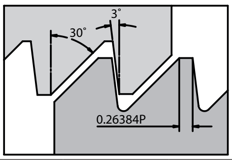


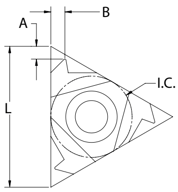
STANDARD TYPE WYKONANIE STANDARDOWE

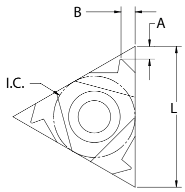
PITCH SKOK MM	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE RIGHT PRAWY
1.0	11	6.35	0.7	0.8	-	HM11IR0100MJ
1.25	11	6.35	0.8	0.9	-	HM11IR0125MJ
1.5	11	6.35	0.8	1.0	-	HM11IR0150MJ
1.0	16	9.525	0.7	0.8	HM16ER0100MJ	HM16IR0100MJ
1.25	16	9.525	0.8	0.9	HM16ER0125MJ	HM16IR0125MJ
1.5	16	9.525	0.8	1.0	HM16ER0150MJ	HM16IR0150MJ
2.0	16	9.525	1.0	1.3	HM16ER0200MJ	HM16IR0200MJ
2.5	16	9.525	0.8	1.5	HM16ER0250MJ	HM16IR0250MJ
3.0	16	9.525	1.1	1.4	HM16ER0300MJ	HM16IR0300MJ

SÄGENGEWINDE EXTERNAL AND INTERNAL THREADING
GWINT PIŁOWY. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

SAGE ST





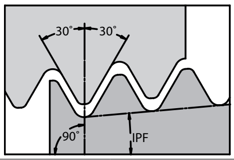


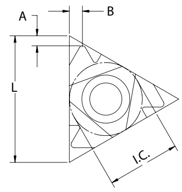
PITCH SKOK TPI	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE RIGHT PRAWY	EXTERNAL ZEWNĘTRZNE LEFT LEWY	INTERNAL WEWNĘTRZNE RIGHT PRAWY	INTERNAL WEWNĘTRZNE LEFT LEWY
2.0	16	9.525	1.3	1.8	HM16ER0200SAGE	HM16EL0200SAGE	HM16IR0200SAGE	HM16IL0200SAGE
3.0	22	12.70	1.8	2.7	HM22ER0300SAGE	HM22EL0300SAGE	HM22IR0300SAGE	HM22IL0300SAGE
4.0	22	12.70	2.1	3.3	HM22ER0400SAGE	HM22EL0400SAGE	HM22IR0400SAGE	HM22IL0400SAGE

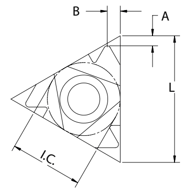
!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

API EXTERNAL AND INTERNAL THREADING
GWINT API. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

API ST





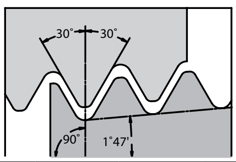


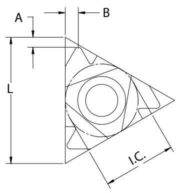
STANDARD TYPE WYKONANIE STANDARDOWE

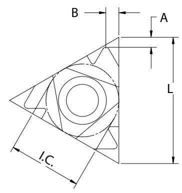
THREAD GWINT	PITCH SKOK	TAPER STOŻEK	L	I.C.	A	B	SIZE ROZMIAR	EXTERNAL ZEWNĘTRZNE	INTERNAL WEWNĘTRZNE
	TPI	IPF						RIGHT PRAWY	RIGHT PRAWY
V-0.040	5	3	22	12.70	1.8	2.6	2 3/8" - 4 1/2" REG	HM22ER403API	HM22IR403API
V-0.038R	4	2	22	12.70	2.0	2.6	NC23-NC50	HM22ER382API	HM22IR382API
V-0.038R	4	3	22	12.70	2.0	2.6	NC56-NC77	HM22ER383API	HM22IR383API
V-0.050	4	2	22	12.70	1.9	2.8	6 5/8" REG	HM22ER502API	HM22IR502API
V-0.050	4	3	22	12.70	1.9	2.8	5 1/2" , 7 5/8" , 8 5/8" REG	HM22ER503API	HM22IR503API
V-0.040	5	3	27	15.875	1.9	2.7	2 3/8" - 4 1/2" REG	HM27ER403API	HM27IR403API
V-0.038R	4	2	27	15.875	2.2	2.8	NC23-NC50	HM27ER382API	HM27IR382API
V-0.038R	4	3	27	15.875	2.2	2.8	NC56-NC77	HM27ER383API	HM27IR383API
V-0.050	4	2	27	15.875	2.2	3.0	6 5/8" REG	HM27ER502API	HM27IR502API
V-0.050	4	3	27	15.875	2.2	3.0	5 1/2" , 7 5/8" , 8 5/8" REG	HM27ER503API	HM27IR503API

API RD EXTERNAL AND INTERNAL THREADING
GWINTY API RD. TOCZENIE GWINTÓW ZEWNĘTRZNYCH I WEWNĘTRZNYCH

API RD ST



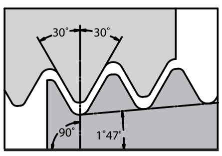


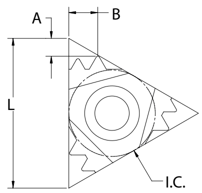


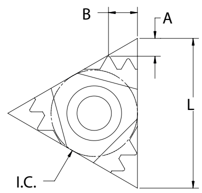
STANDARD TYPE WYKONANIE STANDARDOWE

PITCH SKOK	TAPER STOŻEK	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE	INTERNAL WEWNĘTRZNE
TPI	IPF					RIGHT PRAWY	RIGHT PRAWY
10	0.75	16	9.525	1.4	1.4	HM16ER100APIRD10	HM16IR100APIRD10
8	0.75	16	9.525	1.3	1.5	HM16ER080APIRD8	HM16IR080APIRD8

API MT







MULTITOOTH TYPE WYKONANIE WIELOZĘBOWE

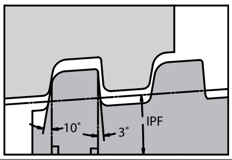
PITCH SKOK	TEETH ZĘBY	L	I.C.	A	B	EXTERNAL ZEWNĘTRZNE		INTERNAL WEWNĘTRZNE	
TPI						RIGHT PRAWY	ANVIL PODKŁADKA	RIGHT PRAWY	ANVIL PODKŁADKA
10	2	22	12.70	2.4	3.6	HM22ER100API2M	SH301	HM22IR100API2M	SH304
10	3	27	15.875	3.6	6.3	HM27ER100API3M	SH302	HM27IR100API3M	SH305
8	2	27	15.875	2.9	4.6	HM27ER080API2M	SH302	HM27IR080API2M	SH305

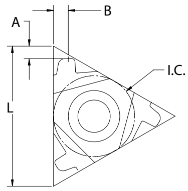
! EDP NO: ORDER CODE + GRADE
KOD EDP: KOD ZAMÓWIENIA + GATUNEK

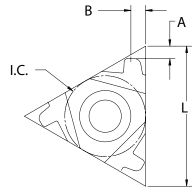
p.135 CUTTING DATA
PARAMETRY OBÓBKI

BUTTRESS CASING EXTERNAL AND INTERNAL THREADING
GWINT TRAPEZOWY NIESYMETRYCZNY RUROWY. TOCZENIE GWINTÓW ZEW. I WEW.

BUT ST





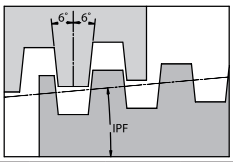


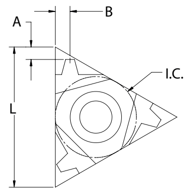
STANDARD TYPE WYKONANIE STANDARDOWE

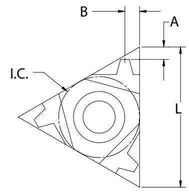
PITCH SKOK	TAPER STOŻEK	L	I.C.	A	B	SIZE ROZMIAR	EXTERNAL ZEWNĘTRZNE	INTERNAL WEWNĘTRZNE
MM	IPF						RIGHT PRAWY	RIGHT PRAWY
5	0.75	22	12.70	2.2	2.3	4 1/2" - 13 3/8"	HM22ER575BUT	HM22IR575BUT
5	1.00	22	12.70	2.2	2.3	16" - 20"	HM22ER510BUT	HM22IR510BUT

EXTREME LINE CASING EXTERNAL AND INTERNAL THREADING
GWINT TRAPEZOWY SYMETRYCZNY WYSOKI. TOCZENIE GWINTÓW ZEW. I WEW.

EL ST







STANDARD TYPE WYKONANIE STANDARDOWE

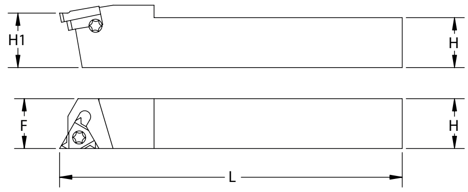
PITCH SKOK	TAPER STOŻEK	L	I.C.	A	B	SIZE ROZMIAR	EXTERNAL ZEWNĘTRZNE	INTERNAL WEWNĘTRZNE
MM	IPF						RIGHT PRAWY	RIGHT PRAWY
6	1.5	22	12.70	2.0	1.9	5 "- 7 5/8"	HM22ER060EL	HM22IR060EL
5	1.25	22	12.70	2.3	2.4	8 5/8" - 10 3/4"	HM22ER050EL	HM22IR050EL

!	EDP NO: ORDER CODE + GRADE KOD EDP: KOD ZAMÓWIENIA + GATUNEK
p.135	CUTTING DATA PARAMETRY OBÓBKI

EXTERNAL TOOLHOLDERS

OPRAWKI NARZĘDZIOWE ZEWNĘTRZNE

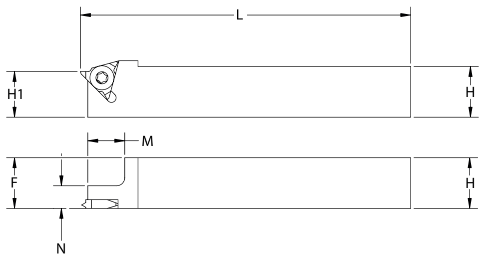
HERE ST



STANDARD TYPE WYKONANIE STANDARDOWE

ORDER CODE KOD ZAMÓWIENIA	DIMENTIONS WYMIARY			INSERT TYPE TYP PŁYTKI	SPARE PARTS AKCESORIA				
	H=H1	L1	F		ANVIL RH PODKŁADKA RH	ANVIL LH PODKŁADKA LH	ANVIL SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX	INSERT SCREW ŚRUBA PŁYTKI
HERE0808ER11	8.0	10.0	100	ER11	-	-	-	W301	SR305
HERE1010ER11	10.0	10.0	100	ER11	-	-	-	W301	SR305
HERE1212ER16	12.0	16.0	100	ER16	ES16	IS16	SR300	W302	SR306
HERE1616ER16	16.0	16.0	100	ER16	ES16	IS16	SR300	W302	SR306
HERE2020ER16	20.0	20.0	125	ER16	ES16	IS16	SR300	W302	SR306
HERE2525ER16	25.0	25.0	150	ER16	ES16	IS16	SR300	W302	SR306
HERE3232ER16	32.0	32.0	170	ER16	ES16	IS16	SR300	W302	SR306
HERE2525ER22	25.0	25.0	150	ER22	ES22	IS22	SR301	W303	SR309
HERE3232ER22	32.0	32.0	170	ER22	ES22	IS22	SR301	W303	SR309
HERE2525ER22U	25.0	25.0	150	ER22U	ES22U	IS22U	SR301	W303	SR309
HERE3232ER22U	32.0	32.0	170	ER22U	ES22U	IS22U	SR301	W303	SR309
HERE2525ER27	25.0	32.0	150	ER27	ES27	IS27	SR302	W304	SR311
HERE3232ER27	32.0	32.0	170	ER27	ES27	IS27	SR302	W304	SR311
HERE2525ER27U	25.0	32.0	150	ER27U	ES27U	IS27U	SR302	W304	SR311
HERE3232ER27U	32.0	32.0	170	ER27U	ES27U	IS27U	SR302	W304	SR311
HERE2525ER33U	25.0	32.0	150	ER33U	-	-	-	W305	SR312
HERE3232ER33U	32.0	32.0	170	ER33U	-	-	-	W305	SR312

HERE VT



STANDARD TYPE WYKONANIE STANDARDOWE

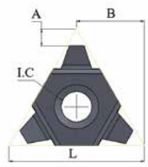
ORDER CODE KOD ZAMÓWIENIA	DIMENTIONS WYMIARY					INSERT TYPE TYP PŁYTKI		
	N	M	H=H1	L1	F		TORX KEY KLUCZ TORX	INSERT SCREW ŚRUBA PŁYTKI
HERE1616ER16V	7.5	15.5	16.0	16.0	100	ER16V	W302	SR308
HERE2020ER16V	7.5	15.5	20.0	20.0	125	ER16V	W302	SR308
HERE2525ER16V	7.5	15.5	25.0	25.0	150	ER16V	W302	SR308

ATTENTION
UWAGA

ALL TOOLHOLDERS ARE MADE WITH 1.5° HELIX ANGLE.
FOR EX. L.H. INSERTS, CHANGE TO HEL INSTEAD OF HER
WSZYSTKIE OPRAWKI WYKONANE Z KĄTEM POCHYLENIA LINII ŚRUBOWEJ 1.5.
DLA OPRAWEK LEWYCH, NALEŻY ZMIENIĆ HEL NA HER W KODZIE.

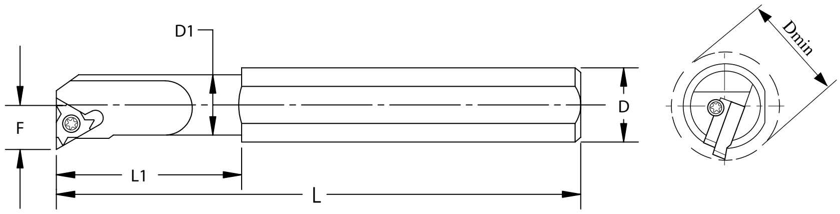
* WITHOUT ANVIL
BEZ PODKŁADKI

U U-TYPE
TYP U



INTERNAL TOOLHOLDERS
OPRAWKI NARZĘDZIOWE WEWNĘTRZNE

HIRE ST



STANDARD TYPE WYKONANIE STANDARDOWE

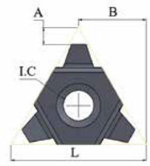
ORDER CODE KOD ZAMÓWIENIA	DIMENTIONS WYMIARY						INSERT TYPE TYP PŁYTKI	SPARE PARTS AKCESORIA				
	D	D1	B	L1	L2	F		ANVIL RH PODKŁADKA RH	ANVIL LH PODKŁADKA LH	ANVIL SCREW ŚRUBA PODKŁADKI	TORX KEY KLUCZ TORX	INSERT SCREW ŚRUBA PŁYTKI
HIRE0012IR06	12.0	5.0	6.1	100	12	4.4	IR06	-	-	-	W300	SR303
HIRE0016IR08	16.0	6.5	8.0	125	17	5.4	IR08	-	-	-	W300	SR304
HIRE0016IR08M	16.0	7.8	9.2	125	17	5.4	IR08	-	-	-	W300	SR304
HIRE0010IR11	10.0	10.0	12.5	100	-	7.3	IR11	-	-	-	W301	SR305
HIRE0016IR11	16.0	10.0	12.5	125	25	7.3	IR11	-	-	-	W301	SR305
HIRE0013IR16	16.0	13.0	16.5	150	32	10.4	IR16	-	-	-	W302	SR307
HIRE0016IR16	20.0	16.0	19.5	170	40	11.6	IR16	-	-	-	W302	SR307
HIRE0020IR16	20.0	20.0	23.5	170	-	13.6	IR16	IS16	ES16	SR300	W302	SR306
HIRE0025IR16	25.0	25.0	28.5	200	-	16.3	IR16	IS16	ES16	SR300	W302	SR306
HIRE0032IR16	32.0	32.0	35.5	250	-	19.6	IR16	IS16	ES16	SR300	W302	SR306
HIRE0040IR16	40.0	40.0	43.5	300	-	23.6	IR16	IS16	ES16	SR300	W302	SR306
HIRE0020IR22	20.0	20.0	25.0	170	-	15.5	IR22	-	-	-	W303	SR310
HIRE0025IR22	25.0	25.0	30.0	200	-	18.3	IR22	IS22	ES22	SR301	W303	SR309
HIRE0032IR22	32.0	32.0	37.0	250	-	21.7	IR22	IS22	ES22	SR301	W303	SR309
HIRE0040IR22	40.0	40.0	45.0	300	-	25.7	IR22	IS22	ES22	SR301	W303	SR309
HIRE0032IR22U	32.0	32.0	38.0	250	-	24.4	IR22U	IS22U	ES22U	SR301	W303	SR309
HIRE0040IR22U	40.0	40.0	46.0	300	-	28.1	IR22U	IS22U	ES22U	SR301	W303	SR309
HIRE0032IR27	32.0	32.0	39.0	250	-	22.8	IR27	IS27	ES27	SR302	W304	SR311
HIRE0040IR27	40.0	40.0	47.0	300	-	26.8	IR27	IS27	ES27	SR302	W304	SR311
HIRE0032IR27U	32.0	32.0	40.0	250	-	25.8	IR27U	IS27U	ES27U	SR302	W304	SR311
HIRE0040IR27U	40.0	40.0	48.0	300	-	29.4	IR27U	IS27U	ES27U	SR302	W304	SR311
HIRE0050IR33U	50.0	50.0	62.0	350	-	37.5	IR33U	-	-	-	W305	SR312

ATTENTION
UWAGA

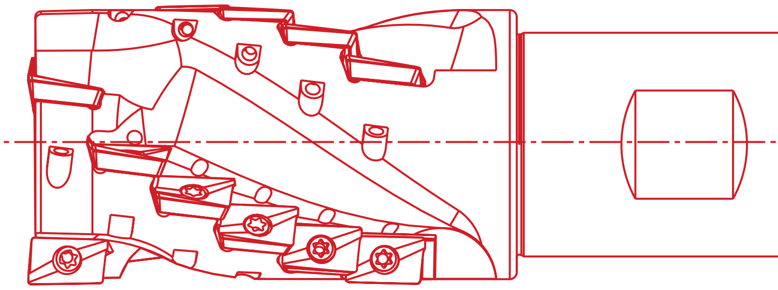
ALL TOOLHOLDERS ARE MADE WITH 1.5º HELIX ANGLE.
FOR EX. L.H. INSERTS, CHANGE TO HIL INSTEAD OF HIR
WSZYSTKIE OPRAWKI WYKONANE Z KĄTEM POCHYLENIA LINII ŚRUBOWEJ 1.5.
DLA OPRAWEK LEWYCH, NALEŻY ZMIENIĆ HIL NA HIR W KODZIE.

* WITHOUT ANVIL
BEZ PODKŁADKI

U U-TYPE
TYP U



MILLING
FREZOWANIE



M180	Z=5-12	p.98

AP..1003..
AP..1604..

SHOULDER MILLING CUTTERS
NARZĘDZIA WALCOWO-CZOŁOWE

M180	Z=2-5	p.98

AP..1003..
AP..1604..

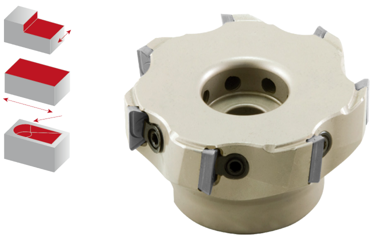
SHOULDER MILLING CUTTERS
NARZĘDZIA WALCOWO-CZOŁOWE

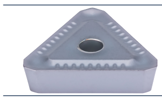
M180	Z=1-4	p.99

AP..1003..
AP..1604..

SHOULDER MILLING CUTTERS
NARZĘDZIA WALCOWO-CZOŁOWE

M175	Z=4-18	p.102

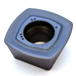




TP.. 1603..
TP.. 2204..

SHOULDER MILLING CUTTERS
NARZĘDZIA WALCOWO-CZOŁOWE

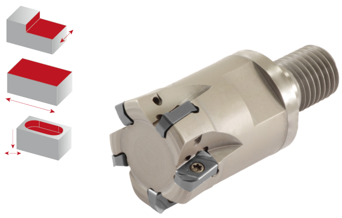
M550	Z=2-4	p.103

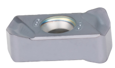


SD.. 09T3..

HIGH FEED MILLING CUTERS
FREZY DO OBRÓBKI SZYBKOŚCIOWEJ

M371	Z=4-6	p.104



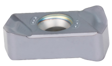


LNMU 0303..

HIGH FEED MILLING CUTERS
FREZY DO OBRÓBKI SZYBKOŚCIOWEJ

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

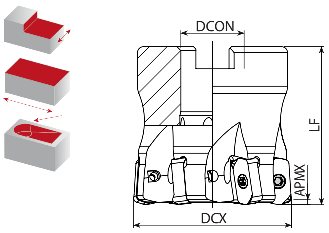
M371 | Z=2-5 | p.104

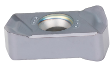
 LNMU 0303..

HIGH FEED MILLING CUTERS

FREZY DO OBRÓBKI SZYBKOŚCIOWEJ

M371 | Z=6-9 | p.105

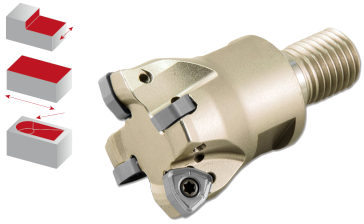


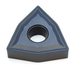
 LNMU 0303..

HIGH FEED MILLING CUTERS

FREZY DO OBRÓBKI SZYBKOŚCIOWEJ

M252 | Z=3-4 | p.106

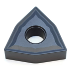


 WNMX 09T3..

HIGH FEED MILLING CUTERS

FREZY DO OBRÓBKI SZYBKOŚCIOWEJ

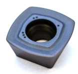
M252 | Z=2-4 | p.106

 WNMX 09T3..

HIGH FEED MILLING CUTERS

FREZY DO OBRÓBKI SZYBKOŚCIOWEJ

M550 | Z=2-4 | p.107

 SD.. 09T3..

HIGH FEED MILLING CUTERS

FREZY DO OBRÓBKI SZYBKOŚCIOWEJ

M179 | Z=2-3 | p.108

 RD.. 10T3
RD.. 1204

PROFILE MILLING CUTTERS

NARZĘDZIA DO PROFILOWANIA

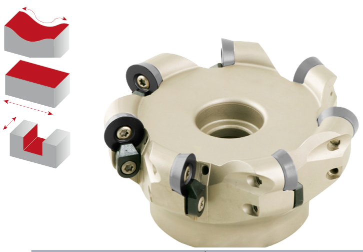
M185 | Z=3-4 | p.108

 RD.. 10T3
RD.. 1204

PROFILE MILLING CUTTERS

NARZĘDZIA DO PROFILOWANIA

M179 | Z=5-8 | p.109

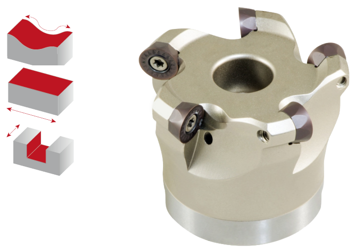


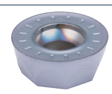
 RD.. 10T3
RD.. 1204

PROFILE MILLING CUTTERS

NARZĘDZIA DO PROFILOWANIA

M495 | Z=4-6 | p.110



 RPM.1204..

PROFILE MILLING CUTTERS

NARZĘDZIA DO PROFILOWANIA

M495 | Z=2-4 | p.110

 RPM.1204..

PROFILE MILLING CUTTERS

NARZĘDZIA DO PROFILOWANIA

M495 | Z=2-3 | p.111

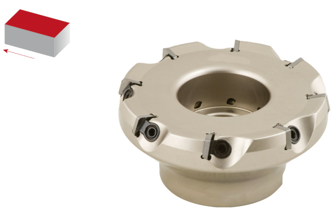
 RPM.1204..

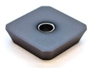
PROFILE MILLING CUTTERS

NARZĘDZIA DO PROFILOWANIA

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

M850	Z=4-12	p.112



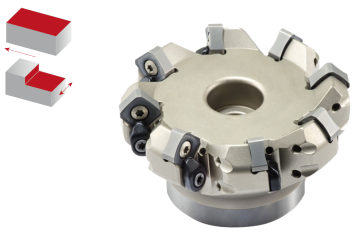


SPKN 1203..

FACE MILLING CUTTERS

NARZĘDZIA DO OBRÓBKI PŁASZCZYZN

M250	Z=4-14	p.113

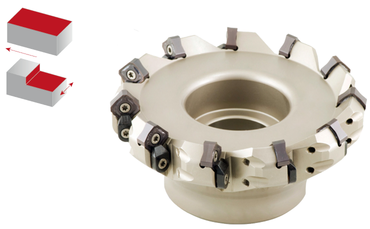


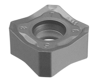
SN.. 12..

FACE MILLING CUTTERS

NARZĘDZIA DO OBRÓBKI PŁASZCZYZN

M250	Z=4-14	p.114



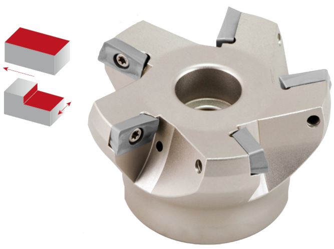


SN.. 1206..

FACE MILLING CUTTERS

NARZĘDZIA DO OBRÓBKI PŁASZCZYZN

M275	Z=4-7	p.115



AP..1604..

FACE MILLING CUTTERS

NARZĘDZIA DO OBRÓBKI PŁASZCZYZN

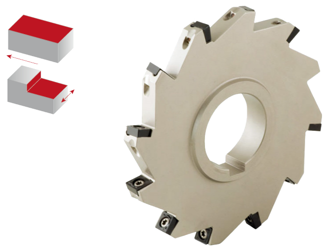
M162	Z=4-12	p.116

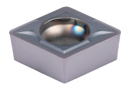
SE..12T3..

FACE MILLING CUTTERS

NARZĘDZIA DO OBRÓBKI PŁASZCZYZN

M493	Z=4-16	p.117



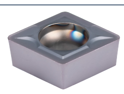


CC.. 0602..
CC.. 09T3..
CC.. 1204..

SIDE AND FACE MILLING

FREZY DO OBRÓBKI BRZEGU ORAZ PROFILU

M40B	Z=2	p.118



CC.. 060204
CC.. 09T304

COUNTERSINK

POGŁĘBIACZ

M111	Z=4-18	p.119

AP..1003..

HELLICAL END MILL

FREZY JEŻOWE

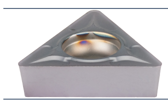
M135	Z=6	p.119

AP..1604..

CHAMFERING MILLING CUTTERS

FREZY DO FAZOWANIA

M401	Z=2	p.120

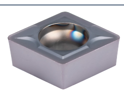


TC.T 110204
TC.T 16T304

CHAMFERING MILLING CUTTERS

FREZY DO FAZOWANIA

M110	Z=2-8	p.120



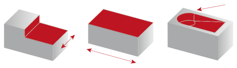
CC.. 0602..
CC.. 09T3..
CC.. 1204..

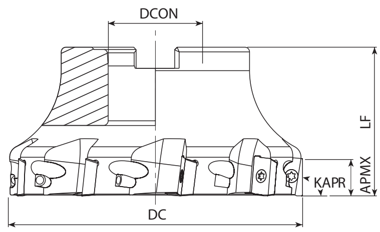
T-SLOT MILLING CUTTERS

FREZY T-SLOT

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

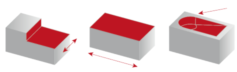
M180

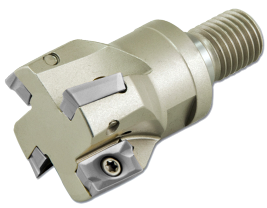


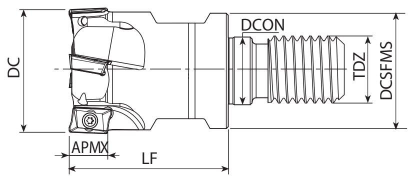


ORDER CODE KOD ZAMÓWIENIA	DCX	ZEFP	DCON	LF	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX	MOUNTING SCREW ŚRUBA MOCUJĄCA
M180AP10040A1605C	40	5	16	40	10		3008M25x6	80T08	2506M8x30
M180AP10050A06C	50	6	22	40	10		3008M25x6	80T08	2508M10x30
M180AP10063A07C	63	7	22	40	10	AP.. 1003..	3008M25x6	80T08	2508M10x30
M180AP10080A708C	80	8	27	50	10		3008M25x6	80T08	2510M12x35
M180AP10100A309C	100	9	32	50	10		3008M25x6	80T08	2514M16x35
M180AP16040A1604C	40	4	16	40	16		4015M4x11	80T15	2506M8x30
M180AP16050A05C	50	5	22	40	16		4015M4x11	80T15	2508M10x30
M180AP1605A05C	52	5	22	40	16		4015M4x11	80T15	2508M10x30
M180AP16063A06C	63	6	22	40	16		4015M4x11	80T15	2508M10x30
M180AP16080A2707C	80	7	27	50	16	AP.. 1604..	4015M4x11	80T15	2510M12x35
M180AP16100A3208C	100	8	32	50	16		4015M4x11	80T15	2514M16x35
M180AP16125B4009	125	9	40	63	16		4015M4x11	80T15	-
M180AP16160C4010	160	10	40	63	16		4015M4x11	80T15	-
M180AP16200C6012	200	12	60	63	16		4015M4x11	80T15	-

M180





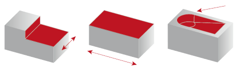


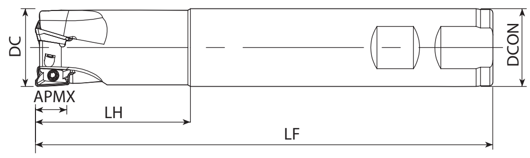
ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCSFMS	TDZ	LF	DCON	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M180AP1016M083002C	16	2	14,75	M08	30	8,5	10		3008M25x6	80T08
M180AP1020M103003C	20	3	18	M10	30	10,5	10		3008M25x6	80T08
M180AP1025M123503C	25	3	21	M12	35	12,5	10		3008M25x6	80T08
M180AP1032M163504C	32	4	29	M16	35	17	10	AP.. 1003..	3008M25x6	80T08
M180AP1032M164004C	32	4	29	M16	40	17	10		3008M25x6	80T08
M180AP1040M164305C	40	5	29	M16	43	17	10		3008M25x6	80T08
M180AP1042M164305C	42	5	29	M16	43	17	10		3008M25x6	80T08
M180AP1625M124302C	42	4	29	M16	43	17	10		4015M4x9	80T15
M180AP1632M164303C	25	2	21	M12	43	12,5	10		4015M4x9	80T15
M180AP1640M164304C	32	3	29	M16	43	17	10	AP.. 1604..	4015M4x9	80T15
M180AP1642M164304	40	4	29	M16	43	17	10		4015M4x9	80T15
M180AP1642M164304C	42	4	29	M16	43	17	10		4015M4x9	80T15

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

M180



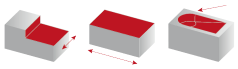


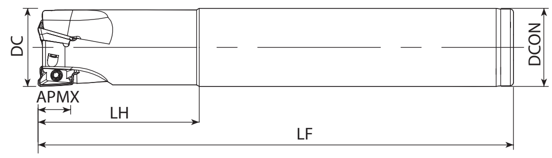
ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	LH	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M180AP1012W1610001C	12	1	16	100	30	10	AP.. 1003..	3008M25x5	80T08
M180AP1012W1615001	12	1	16	150	38	10		3008M25x5	80T08
M180AP1014W1610001C	14	1	16	100	30	10		3008M25x5	80T08
M180AP1014W1615001	14	1	16	150	38	10		3008M25x5	80T08
M180AP1016W1610002C	16	2	16	100	30	10		3008M25x5	80T08
M180AP1016W1615002	16	2	16	150	50	10		3008M25x5	80T08
M180AP1016W1620002	16	2	16	200	100	10		3008M25x5	80T08
M180AP1018W1610002C	18	2	16	100	30	10		3008M25x5	80T08
M180AP1018W1615002	18	2	16	150	30	10		3008M25x5	80T08
M180AP1020W2010003C	20	3	20	100	30	10		3008M25x5	80T08
M180AP1020W2015003	20	3	20	150	50	10		3008M25x5	80T08
M180AP1021W2015003	21	3	20	150	30	10		3008M25x6	80T08
M180AP1022W2010003C	22	3	20	100	30	10		3008M25x6	80T08
M180AP1022W2015003	22	3	20	150	30	10		3008M25x6	80T08
M180AP1023W2015003	23	3	20	150	30	10		3008M25x6	80T08
M180AP1024W2015003	24	3	20	150	30	10		3008M25x6	80T08
M180AP1025W2510003C	25	3	25	100	30	10		3008M25x6	80T08
M180AP1025W2510004C	25	4	25	100	30	10		3008M25x6	80T08
M180AP1025W2515003	25	3	25	150	50	10		3008M25x6	80T08
M180AP1032W2515004	32	4	25	150	35	10		3008M25x6	80T08
M180AP1032W3215004	32	4	32	150	50	10		3008M25x6	80T08
M180AP1040W3215005	40	5	32	150	40	10		4015M4X9	80T15
M180AP1628W2510003C	28	3	25	100	40	16	AP.. 1604..	4015M4X9	80T15
M180AP1628W2515003	28	3	25	150	40	16		4015M4X9	80T15
M180AP1630W2511003C	30	3	25	110	40	16		4015M4X9	80T15
M180AP1630W2515002	30	2	25	150	40	16		4015M4X9	80T15
M180AP1630W2515003	30	3	25	150	40	16		4015M4X9	80T15
M180AP1632W2515003	32	3	25	150	40	16		4015M4X9	80T15
M180AP1632W3211003C	32	3	32	110	40	16		4015M4X9	80T15
M180AP1632W3215003	32	3	32	150	50	16		4015M4X9	80T15
M180AP1632W3215003C	32	3	32	150	50	16		4015M4X9	80T15
M180AP1635W3215003	35	3	32	150	40	16		4015M4X9	80T15
M180AP1636W3211003C	36	3	32	110	40	16		4015M4X9	80T15
M180AP1636W3215003	36	3	32	150	40	16		4015M4X9	80T15
M180AP1640W3211004C	40	4	32	110	40	16		4015M4X9	80T15
M180AP1640W3215004	40	4	32	150	40	16		4015M4X9	80T15

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

M180



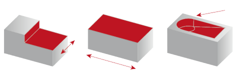


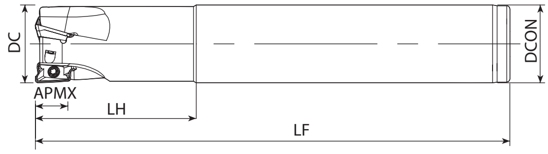
ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	LH	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M180AP1010T1010001	10	1	10	100	20	10		3008M25x5	80T08
M180AP1012T1610001C	12	1	16	100	30	10		3008M25x5	80T08
M180AP1016T1610002C	16	2	16	100	30	10		3008M25x5	80T08
M180AP1016T1612002C	16	2	16	120	30	10		3008M25x5	80T08
M180AP1016T1615002	16	2	16	150	50	10		3008M25x5	80T08
M180AP1016T1615002C	16	2	16	150	50	10		3008M25x5	80T08
M180AP1016T1620002	16	2	16	200	100	10	AP.. 1003..	3008M25x5	80T08
M180AP1016T1620002C	16	2	16	200	100	10		3008M25x5	80T08
M180AP1016T1625002	16	2	16	250	50	10		3008M25x5	80T08
M180AP1020T2010003C	20	3	20	100	30	10		3008M25x5	80T08
M180AP1020T2012003C	20	3	20	120	30	10		3008M25x5	80T08
M180AP1020T2015003	20	3	20	150	50	10		3008M25x5	80T08
M180AP1020T2015003C	20	3	20	150	50	10		3008M25x5	80T08
M180AP1020T2020002	20	2	20	200	100	10		3008M25x5	80T08
M180AP1020T2020003C	20	3	20	200	100	10		3008M25x5	80T08
M180AP1020T2025002	20	2	20	250	150	10		3008M25x5	80T08
M180AP1020T2025002C	20	2	20	250	150	10		3008M25x6	80T08
M180AP1021T2020003	21	3	20	200	30	10		3008M25x6	80T08
M180AP1025T2510003C	25	3	25	100	30	10		3008M25x6	80T08
M180AP1025T2512003C	25	3	25	120	30	10		3008M25x6	80T08
M180AP1025T2515003	25	3	25	150	50	10		3008M25x6	80T08
M180AP1025T2520002	25	2	25	200	100	10	AP.. 1003..	3008M25x6	80T08
M180AP1025T2520003	25	3	25	200	100	10		3008M25x6	80T08
M180AP1025T2525002	25	2	25	250	100	10		3008M25x6	80T08
M180AP1030T2510004C	30	4	25	100	30	10		3008M25x6	80T08
M180AP1030T2512004C	30	4	25	120	30	10		3008M25x6	80T08
M180AP1030T2515004	30	4	25	150	30	10		3008M25x6	80T08
M180AP1032T2510004C	32	4	25	100	35	10		3008M25x6	80T08
M180AP1032T2512004C	32	4	25	120	35	10		3008M25x6	80T08
M180AP1032T2515004	32	4	25	150	35	10		3008M25x6	80T08
M180AP1032T3213005	32	5	32	130	30	10		3008M25x6	80T08

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

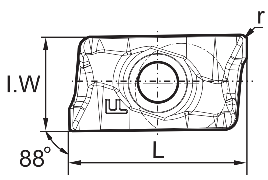
M180

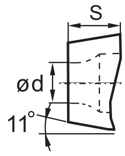




ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	LH	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M180AP1625T2525002	25	2	25	250	100	16	AP.. 1604..	4015M4X9	80T15
M180AP1632T3215003	32	3	32	150	50	16		4015M4X9	80T15
M180AP1632T2520003C	32	3	25	200	40	16		4015M4X9	80T15
M180AP1632T3225002	32	3	32	250	100	16		4015M4X9	80T15
M180AP1632T3225003	32	3	32	250	100	16		4015M4X9	80T15
M180AP1640T3215004	40	4	32	150	40	16		4015M4X9	80T15
M180AP1640T3225002	40	2	32	250	40	16		4015M4X9	80T15
M180AP1640T3225004	40	4	32	250	40	16		4015M4X9	80T15

AP





APKT		L	S	d
10	03	10	3.5	2.8
11	T3	12.24	3.6	2.8
16	04	17.877	5.76	4.4

INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	PVD P1000	PVD P3000	CVD P5000	CVD P6000	CVD P7000
							P, M, K			
	MEDIUM ŚREDNIA	APKT100308CM	0.80	0.50-9.00	0.11-0.26		●			
		APKT160408CS	-	0.50-15.00	0.13-0.29		●			
		APKT1604CM	0.80	0.50-15.00	0.13-0.29		●			

● Ideal machining conditions
Idealne warunki obróbki

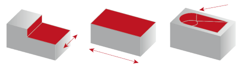
Normal machining conditions
Normalne warunki obróbki

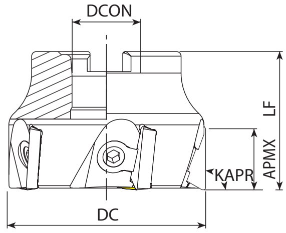
Unfavourable machining conditions
Niekorzystne warunki obróbki

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

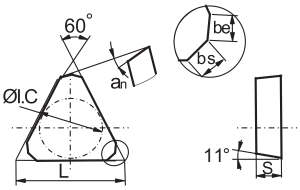
M175





ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	ALLEN KEY KLUCZ IMBUSOWY	MOUNTING SCREW ŚRUBA MOCUJĄCA
M175CTP16050A2204	50	4	22	40	12	TP.. 1603..	TCK10	TKV22M8x1x14	TTL054	2407M10x30
M175CTP16063A2206	63	6	22	45	12		TCK10	TKV13M8x1x16	TTL054	2508M10x30
M175CTP16080A2707	80	7	27	50	12		TCK11	TKV14M8x1x18	TTL054	2510M12x35
M175CTP16100A3208	100	8	32	50	12		TCK11	TKV14M8x1x18	TTL054	2514M16x35
M175CTP16125B4008	125	8	40	63	12		TCK11	TKV14M8x1x18	TTL054	-
M175CTP22063A2205	63	5	22	45	18	TP.. 2204..	TCK11	TKV14M8x1x18	TTL054	2508M10x30
M175CTP22080A2706	80	6	27	50	18		TCK11	TKV14M8x1x18	TTL054	2510M12x35
M175CTP22100A3207	100	7	32	50	18		TCK11	TKV14M8x1x18	TTL054	2514M16x35
M175CTP22125B4008	125	8	40	63	18		TCK11	TKV14M8x1x18	TTL054	-
M175CTP22160C4009	160	9	40	63	18		TCK11	TKV14M8x1x18	TTL054	-
M175CTP22200C6012	200	12	60	63	18		TCK11	TKV14M8x1x18	TTL054	-
M175CTP22250C6015	250	15	60	63	18		TCK11	TKV14M8x1x18	TTL054	-
M175CTP223156018	315	18	60	63	18		TCK11	TKV14M8x1x18	TTL054	-

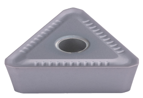
TP



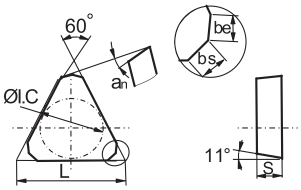
TPKR		L	I.C.	S
16	03	16.5	9.525	3.18
22	04	22	12.7	4.76

	P1000	P3000	P5000	P6000	P7000
	PVD			CVD	
P		◐			
M		◐			
K		◐			
N					
S					
H					

● Ideal machining conditions / Idealne warunki obróbki
◐ Normal machining conditions / Normalne warunki obróbki
✤ Unfavourable machining conditions / Niekorzystne warunki obróbki

INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	FINISHING WYKOŃCZENIOWA	TPKR1603CF	-	0.50-12.00	0.12-0.27		●			
	MEDIUM ŚREDNIA	TPKR2204CM	-	0.50-18.00	0.16-0.27		●			

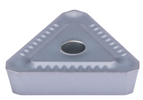
TP



TPKN		L	I.C.	S
16	03	16.5	9.525	3.18
22	04	22	12.7	4.76

	P1000	P3000	P5000	P6000	P7000
	PVD			CVD	
P		◐			
M					
K		◐			
N					
S					
H					

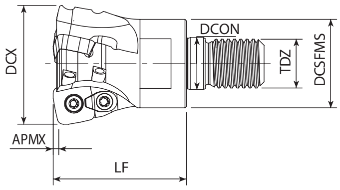
● Ideal machining conditions / Idealne warunki obróbki
◐ Normal machining conditions / Normalne warunki obróbki
✤ Unfavourable machining conditions / Niekorzystne warunki obróbki

INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	MEDIUM ŚREDNIA	TPKN1603CM	-	0.50-12.00	0.15-0.27		●			
	ROUGHING ZGRUBNA	TPKN2204CM	-	0.50-18.00	0.18-0.32		●			

!	INSERT EDP NO: ORDER CODE + GRADE / KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT / CHŁODZENIE	●	FOR P, M, K MATERIALS / DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA / PARAMETRY OBÓBKI	H	JET COOLANT / CHŁODZENIE JET	●	FOR K MATERIAL / DLA MATERIAŁU K

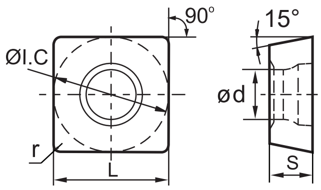
INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

M550



ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCSFMS	TDX	LF	DCON	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX
M550A2502M13030SD09	25	2	22	M12	30	12.5	1.4	SD.. 09T3..	3010-M3.5x9	ACK-15	1510-M3.5x9	80-T10
M550A3203M17043SD09	32	3	29	M16	43	17	1.4		3010-M3.5x9	ACK-15	1510-M3.5x9	80-T10
M550A3503M17043SD09	35	3	29	M16	43	17	1.4		3010-M3.5x9	ACK-15	1510-M3.5x9	80-T10
M550A4004M17043SD09	40	4	29	M16	43	17	1.4		3010-M3.5x9	ACK-15	1510-M3.5x9	80-T10

SD



SDMT		L	I.C.	S	d
09	03	9,525	9,525	3,18	4,4
09	T3	9,525	9,525	3,97	4

	P1000	P3000	P5000	P6000	P7000
P		●			
M		●			
K		●			
N					
S					
H					

PVD: P1000, P3000; CVD: P5000, P6000, P7000

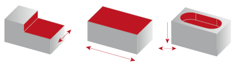
● Ideal machining conditions / Idealne warunki obróbki
Normal machining conditions / Normalne warunki obróbki
Unfavourable machining conditions / Niekorzystne warunki obróbki

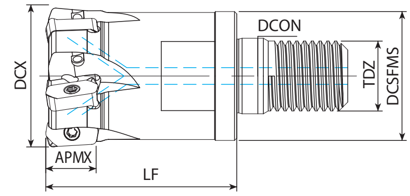
INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	ROUGHING ZGRUBNA	SDMT1205CR	-	0.07-0.12	0.70-1.50		●			
		SDMT09T312CR	1.20	0.07-0.12	0.70-1.50		●			

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

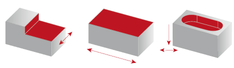
M371

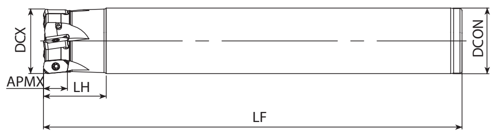




ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCSFMS	TDZ	LF	DCON	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M371A02504M12035LN03	25	4	21	M12	35	12.5	12	LNMU 0303..	3008M25x6	80T08
M371A03205M16043LN03	32	5	29	M16	43	17	12		3008M25x6	80T08
M371A04206M16043LN03	42	6	29	M16	43	17	12		3008M25x6	80T08

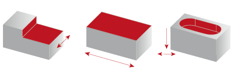
M371

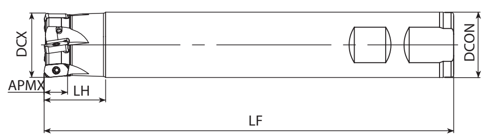




ORDER CODE KOD ZAMÓWIENIA	DCX	ZEFP	DCON	LF	LH	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M371B01602T15150LN03	16	2	15	150	30	12	LNMU 0303..	3008M25x6	80T08
M371B02103T20150LN03	21	3	20	150	30	12		3008M25x6	80T08
M371B02604T25150LN03	26	4	25	150	30	12		3008M25x6	80T08
M371B03305T32200LN03	33	5	32	200	30	12		3008M25x6	80T08

M371



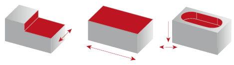


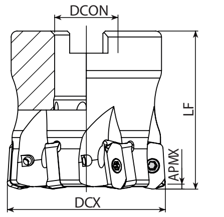
ORDER CODE KOD ZAMÓWIENIA	DCX	ZEFP	DCON	LF	LH	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M371A01602W16150LN03	16	2	16	150	50	12	LNMU 0303..	3008M25x6	80T08
M371A02003W20150LN03	20	3	20	150	50	12		3008M25x6	80T08
M371A02504W25150LN03	25	4	25	150	50	12		3008M25x6	80T08

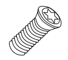
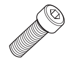
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

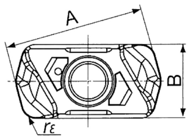
M371





ORDER CODE KOD ZAMÓWIENIA	DCX	ZEFP	DCON	LF	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA 	TORX KEY KLUCZ TORX 	MOUNTING SCREW ŚRUBA MOCUJĄCA 
M371A04006016040LN03	40	6	16	40	12	LNMU 0303..	3008M25X6	80T08	2506M8x30
M371A05007022050LN03	50	7	22	50	12		3008M25X6	80T08	2508M10x30
M371A06309022050LN03	63	9	22	50	12		3008M25X6	80T08	2508M10x30

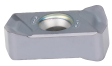
LN



	P1000 (PVD)	P3000 (PVD)	P5000 (CVD)	P6000 (CVD)	P7000 (CVD)
P		◐			
M		◐			
K		◐			
N					
S					
H					

LNMU		L	S
03	03	3.2	4.3

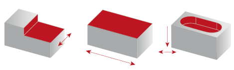
● Ideal machining conditions
Idealne warunki obróbki
◐ Normal machining conditions
Normalne warunki obróbki
✣ Unfavourable machining conditions
Niekorzystne warunki obróbki

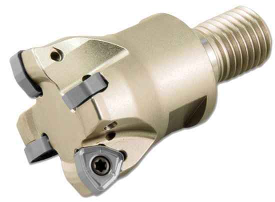
INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	MEDIUM ŚREDNIA	LNMU0303CM	-	0.04-0.10	0.30-1.20		●			

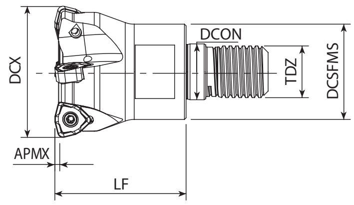
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

M252

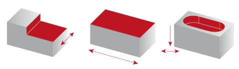


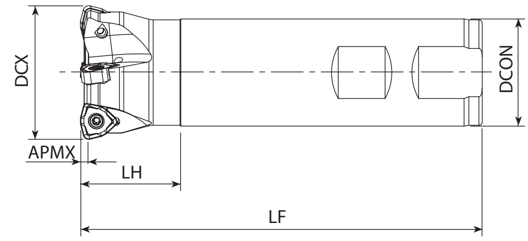




ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCSFMS	TDX	LF	DCON	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M252A03203M16040WN09	32	3	29	M16	40	17	1.5	WNMX 09T3..	4010M3x8	80T10
M252A04004M16040WN09	40	4	29	M16	40	17	1.5		4010M3x8	80T10

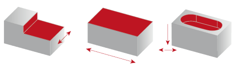
M252

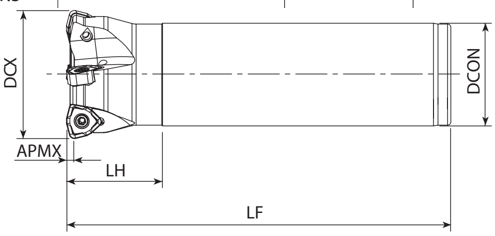




ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	LH	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M252A02502W25120WN09	25	2	25	120	40	1.5	WNMX 09T3..	4010M3x8	80T10
M252A02502W25120WN09	25	2	25	120	40	1.5		4010M3x8	80T10
M252A03203W32120WN09	32	3	32	120	30	1.5		4010M3x8	80T10
M252A03203W32200WN09	32	3	32	200	100	1.5		4010M3x8	80T10
M252A03504W32200WN09	35	4	32	200	50	1.5		4010M3x8	80T10
M252A04004W32120WN09	40	4	32	120	30	1.5		4010M3x8	80T10

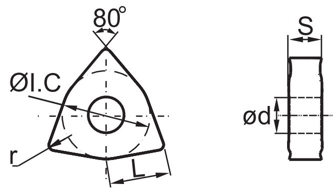
M252





ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	LH	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M252B02502T25200WN09	25	2	25	200	120	1.5	WNMX 09T3..	4010M3x8	80T10
M252B04004T32200WN09	40	4	32	200	30	1.5		4010M3x8	80T10

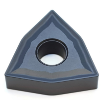
WN



	P1000	P3000	P5000	P6000	P7000
P		●			
M		●			
K		●			
N					
S					
H					
	PVD		CVD		

WN**		L	I.C.	S	d
08	04	8.7	12.7	4.76	5.16
09	T3	9.8	9.525	3.97	3.81

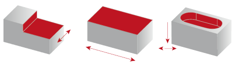
- Ideal machining conditions / Idealne warunki obróbki
- Normal machining conditions / Normalne warunki obróbki
- Unfavourable machining conditions / Niekorzystne warunki obróbki

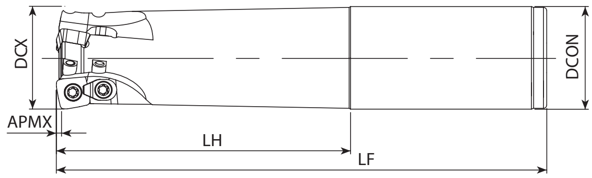
INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	MEDIUM ŚREDNIA	WNMX09T316CS	1.60	0.07-0.12	0.45-1.50		●			

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

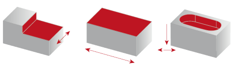
M550

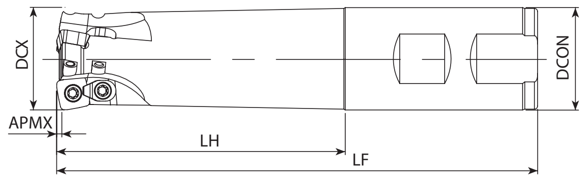




ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	LH	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX
M550B02502T25150SD09	25	2	25	150	94	1.4	SD.. 09T3..	3010M35x9	TCK15	1510M35x9	80T10
M550B02802T25150SD09	28	2	25	150	30	1.4		3010M35x9	TCK15	1510M35x9	80T10
M550B03203T32150SD09	32	3	32	150	100	1.4		3010M35x9	TCK15	1510M35x9	80T10
M550B02503T25150SD09	25	3	25	150	60	1.4		3010M35x9	TCK15	1510M35x9	80T10
M550B03204T25150SD09	32	4	25	150	60	1.4		3010M35x9	TCK15	1510M35x9	80T10

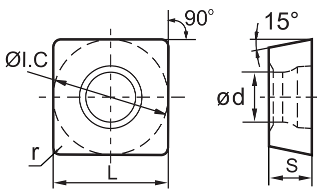
M670





ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	LH	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX
M670B02202W20150SD09	22	2	20	150	30	1.4	SD.. 09T3..	3010M35x9	TCK15	1510M35x9	80T10
M670B02502W25150SD09	25	2	25	150	94	1.4		3010M35x9	0	0	80T10
M670B03203W32150SD09	32	3	32	150	90	1.4		3010M35x9	0	0	80T10

SD



	P1000	P3000	P5000	P6000	P7000
P		◐			
M		◐			
K		◐			
N					
S					
H					

SDMT		L	I.C.	S	d
09	03	9,525	9,525	3,18	4,4
09	T3	9,525	9,525	3,97	4

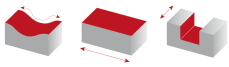
● Ideal machining conditions / Idealne warunki obróbki
◐ Normal machining conditions / Normalne warunki obróbki
✚ Unfavourable machining conditions / Niekorzystne warunki obróbki

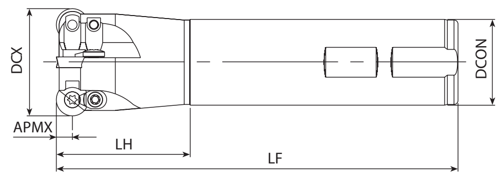
INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	PVD P1000	PVD P3000	CVD P5000	CVD P6000	CVD P7000
	ROUGHING ZGRUBNA	SDMT09T312CR	-	0.04-0.12	0.30-1.50		●			
		SDMT1205CR	1.20	0.04-0.12	0.30-1.50		●			

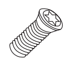
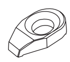
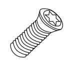
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

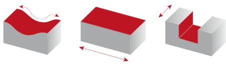
M179

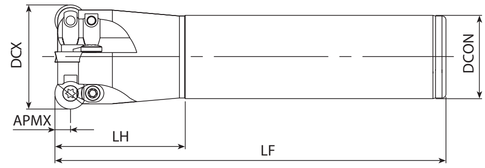


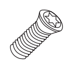
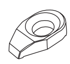
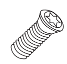


ORDER CODE KOD ZAMÓWIENIA	DCX	ZEFP	DCON	LF	LH	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX
											
M179RD10T320W2015002	20	2	20	150	60	5	RD.. 10T3	4015M35x9	TCK15	4015M35x11	80T15
M179RD10T325W2515002	32	3	32	150	60	5		4015M35x9	TCK15	4015M35x11	80T15
M179RD10T332W3215003	25	2	25	200	100	5		4015M35x9	TCK15	4015M35x11	80T15
M179RD120432W3216003	32	3	32	160	70	6		4015M35x9	TCK15	4015M35x11	80T15

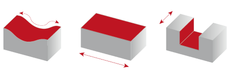
M179

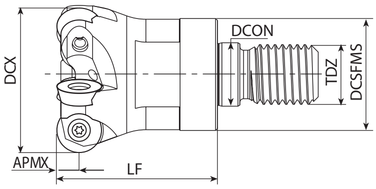


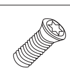
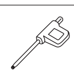


ORDER CODE KOD ZAMÓWIENIA	DCX	ZEFP	DCON	LF	LH	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX
											
M179RD10T320C2015002	20	2	20	150	60	5	RD.. 10T3	4015M35x9	TCK15	4015M35x11	80T15
M179RD10T325C2515002	25	2	25	150	60	5		4015M35x9	TCK15	4015M35x11	80T15
M179RD10T325C2520002C	25	2	25	150	60	5		4015M35x9	TCK15	4015M35x11	80T15
M179RD10T332C2525003C	25	2	25	150	60	5		4015M35x9	TCK15	4015M35x11	80T15
M179RD120432C3216003	32	3	32	160	70	6	RD.. 1204	4015M35x9	TCK15	4015M35x11	80T15
M179RD120433C3216003	33	3	32	160	70	6		4015M35x9	TCK15	4015M35x11	80T15

M185



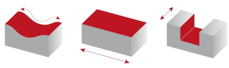


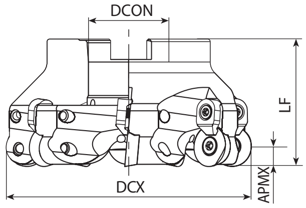
ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCSFMS	TDX	LF	DCON	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
										
M185RD10T3M25123502C	25	3	21	M12	35	12.5	5	RD.. 10T3	4015M35x9	80T15
M185RD10T3M32164303C	32	4	29	M16	45	17	5		4015M35x9	80T15
M185RD1204M32164303C	32	3	29	M16	43	17	6	RD.. 1204	4015M35x9	80T15
M185RD1204M42164304C	42	4	29	M16	43	17	6		4015M35x9	80T15

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

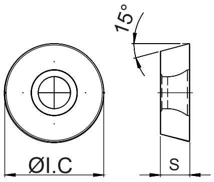
M179





ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX	MOUNTING SCREW ŚRUBA MOCUJĄCA
M179A05005022050RD10	50	5	22	50	5	RD.. 10T3..	4015M35x11	TCK15	4015M35x11	80T15	2508M10x30
M179A06306022050RD10	63	6	22	50	5		4015M35x11	TCK15	4015M35x11	80T15	2508M10x30
M179A04004016040RD12	40	4	16	40	6	RD.. 1204..	4015M35x11	TCK15	4015M35x11	80T15	2406M8x30
M179A05005022050RD12	50	5	22	50	6		4015M35x11	TCK15	4015M35x11	80T15	2508M10x30
M179A05205022050RD12	52	5	22	50	6		4015M35x11	TCK15	4015M35x11	80T15	2508M10x30
M179A06306022050RD12	63	6	22	50	6		4015M35x11	TCK15	4015M35x11	80T15	2508M10x30
M179A08007027050RD12	80	7	27	50	6		4015M35x11	TCK15	4015M35x11	80T15	2510M12x35
M179A10007032050RD12	100	7	32	50	6		4015M35x11	TCK15	4015M35x11	80T15	2514M16x35
M179A10008032050RD12	100	8	32	50	6		4015M35x11	TCK15	4015M35x11	80T15	2514M16x35

RD



	P1000	P3000	P5000	P6000	P7000
P		●			
M		●			
K		●			
N					
S					
H					
	PVD		CVD		

RDMW		L	I.C.	d
10	T3	10	10	3.97
12	04	12	12	4.76

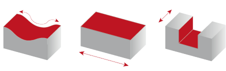
● Ideal machining conditions / Idealne warunki obróbki
● Normal machining conditions / Normalne warunki obróbki
● Unfavourable machining for Cast Iron / Niekorzystne warunki obróbki do żeliwa
● Unfavourable machining conditions / Niekorzystne warunki obróbki

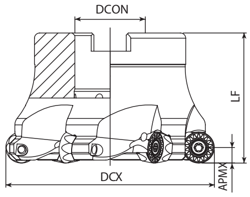
INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	MEDIUM ŚREDNIA	RDMW10T3M0CS	-	0.50-2.50	0.15-0.64		●			
		RDMW1204M0CS	-	0.50-3.00	0.21-0.74		●			
		RDMT10T3M0CM	-	0.50-2.50	0.15-0.64		●			
		RDMT1204M0CM	-	0.50-3.00	0.21-0.74		●			

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

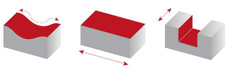
M495

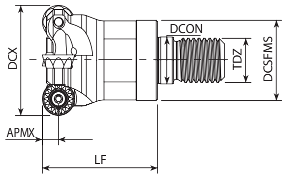




ORDER CODE KOD ZAMÓWIENIA	DCX	ZEFP	DCON	LF	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX	MOUNTING SCREW ŚRUBA MOCUJĄCA
M495A5004C22050RP12	50	4	22	50	6	RPM. 1204..	4015M4x11	80T15	2508M10x30
M495A5205C22050RP12	52	5	22	50	6		4015M4x11	80T15	2508M10x30
M495A6305C22050RP12	63	5	22	50	6		4015M4x11	80T15	2508M10x30
M495A8006C27050RP12	80	6	27	50	6		4015M4x11	80T15	2510M12x35

M495



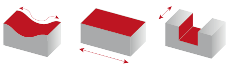


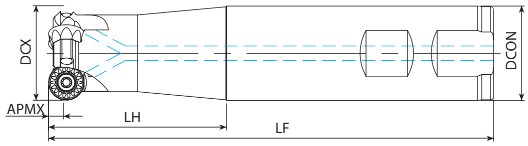
ORDER CODE KOD ZAMÓWIENIA	DCX	ZEFP	DCSFMS	TDZ	LF	DCON	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M495A2502M13035RP10	21	2	21	M12	35	12.5	5	RPM. 10T3..	4015M35x9	80T15
M495A3203M17043RP10	29	3	29	M16	43	17	5		4015M35x9	80T15
M495A3203M17043RP12	29	3	29	M16	43	17	6	RPM. 1204..	4015M4x9	80T15
M495A4004M17043RP12	29	4	29	M16	43	17	6		4015M4x9	80T15

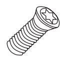
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

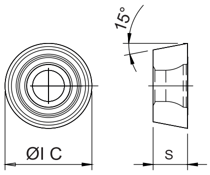
M495





ORDER CODE KOD ZAMÓWIENIA	DCX	ZEFP	DCON	LF	LH	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA 	TORX KEY KLUCZ TORX 
M495A02502W25200RP10	25	2	25	200	100	5	RPM. 10T3..	4015M35x9	80T15
M495A03203W32200RP10	32	3	32	200	100	5		4015M35x9	80T15
M495A03203W32150RP12	32	3	32	150	60	6	RPM. 1204..	4015M4x9	80T15
M495A03203W32200RP12	32	3	32	200	100	6		4015M4x9	80T15

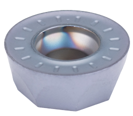
RP



RP**		L	I.C.	d
12	04	12	12	4.76

	PVD		CVD		
	P1000	P3000	P5000	P6000	P7000
P		◒			
M		◒			
K		◒			
N					
S					
H					

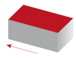
- ● Ideal machining conditions / Idealne warunki obróbki
- ◒ Normal machining conditions / Normalne warunki obróbki
- 🔴 Unfavourable machining for Cast Iron / Niekorzystne warunki obróbki do żeliwa
- ✚ Unfavourable machining conditions / Niekorzystne warunki obróbki

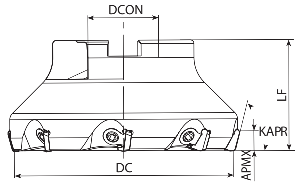
INSERT SHAPE KSZTAŁT PŁYTKI	DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
 MEDIUM ŚREDNIA	RPMT08T2M0CM	-	0.50-2.50	0.14-0.45		●			
	RPMT10T3M0CM	-	0.50-2.50	0.15-0.64		●			
	RPMT1204M0CM	-	0.50-3.00	0.21-0.74		●			
	RPMW10T3M0CS	-	0.50-3.00	0.18-0.82		🔴			
	RPMW1204M0CS	-	0.50-3.00	0.18-0.82		🔴			

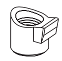
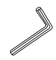
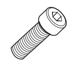
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	🔴	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

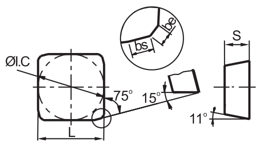
M850





ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	WEDGE CLAMP ZACISK KLINOWY 	CLAMP SCREW ŚRUBA ZACISKU 	ALLEN KEY KLUCZ IMBUSOWY 	MOUNTING SCREW ŚRUBA MOCUJĄCA 
M850SP12050A2204	50	4	22	42	8	SPKN 1203..	TCK10	TKV22M8x1x14	TTL054	2508M10x30
M850SP12063A2205	63	5	22	40	8		TCK10	TKV13M8x1x16	TTL054	2508M10x30
M850SP12080A2706	80	6	27	50	8		TCK10	TKV13M8x1x16	TTL054	2510M12x35
M850SP12100A3207	100	7	32	50	8		TCK10	TKV13M8x1x16	TTL054	2514M16x35
M850SP12125B4008	125	8	40	63	8		TCK10	TKV13M8x1x16	TTL054	0
M850SP12160C4009	160	9	40	63	8		TCK10	TKV13M8x1x16	TTL054	0
M850SP12200C6012	200	12	60	63	8		TCK10	TKV13M8x1x16	TTL054	0

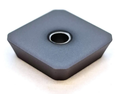
SP



	P1000	P3000	P5000	P6000	P7000
P		◐			
M					
K		◐			
N					
S					
H					
	PVD		CVD		

SPKN		L	I.C.	d
12	03	12.7	4.76	5.16

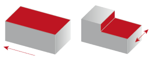
● Ideal machining conditions
Idealne warunki obróbki
◐ Normal machining conditions
Normalne warunki obróbki
Unfavourable machining conditions
Niekorzystne warunki obróbki

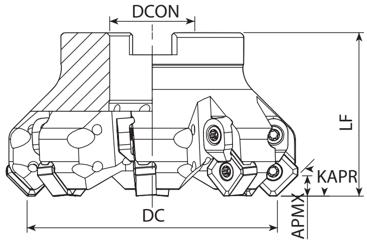
INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	MEDIUM ŚREDNIA	SPKN1203CS	-	0.50-7.00	0.15-0.43		●			

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

M250

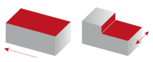


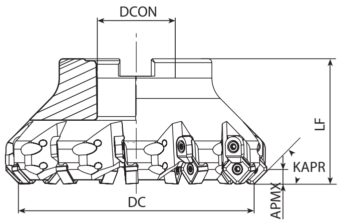


ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX	MOUNTING SCREW ŚRUBA MOCUJĄCA
M250A5004M22042SN12	50	4	22	42	6	SN.. 12..	1015M4x11	TCK05	4015M4x11	80T15	2407M10X30
M250A5005M22042SN12	50	5	22	42	6		1015M4x12	TCK05	4015M4x11	80T15	2407M10X30
M250A6306M22042SN12	63	6	22	42	6		1015M4x13	TCK05	4015M4x11	80T15	2407M10X30
M250A6307M22042SN12	63	7	22	42	6		1015M4x14	TCK05	4015M4x11	80T15	2407M10X30
M250A6307M22042SN12	63	7	22	42	6		1015M4x15	TCK05	4015M4x11	80T15	2407M10X30
M250A8007M27052SN12	80	7	27	52	6		1015M4x16	TCK05	4015M4x11	80T15	2510M12x35
M250A8008M27052SN12	80	8	27	52	6		1015M4x17	TCK05	4015M4x11	80T15	2510M12x35
M250A8008M27052SN12	80	8	27	52	6		1015M4x18	TCK05	4015M4x11	80T15	2510M12x35
M250A10008M32052SN12	100	8	32	52	6		1015M4x19	TCK05	4015M4x11	80T15	2514M16x35
M250A10010M32052SN12	100	10	32	52	6		1015M4x20	TCK05	4015M4x11	80T15	2514M16x35
M250A10010M32052SN12	100	10	32	52	6		1015M4x21	TCK05	4015M4x11	80T15	2514M16x35
M250A12511M40065SN12	125	11	40	65	6		1015M4x22	TCK05	4015M4x11	80T15	-
M250A12511M40065SN12	125	11	40	65	6		1015M4x23	TCK05	4015M4x11	80T15	-
M250A16012M40065SN12	160	12	40	65	6		1015M4x24	TCK05	4015M4x11	80T15	-
M250A20014M60065SN12	200	14	60	65	6		1015M4x25	TCK05	4015M4x11	80T15	-
M250A20014M60065SN12	200	14	60	65	6		1015M4x26	TCK05	4015M4x11	80T15	-

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

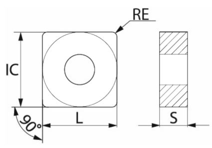
M250





ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	WEDGE CLAMP ZACISK KLINOWY	CLAMP SCREW ŚRUBA ZACISKU	TORX KEY KLUCZ TORX	MOUNTING SCREW ŚRUBA MOCUJĄCA
M250A05004022042SN12	50	4	22	42	6		4015M4x11	TCK05	4015M4x11	80T15	2407M10X30
M250A05005022042SN12	50	5	22	42	6		4015M4x11	TCK05	4015M4x11	80T15	2407M10X30
M250A05005022042SN12	50	5	22	42	6		4015M4x11	TCK05	4015M4x11	80T15	2407M10X30
M250A06306022042SN12	63	6	22	42	6		4015M4x11	TCK05	4015M4x11	80T15	2407M10X30
M250A06307022042SN12	63	7	22	42	6		4015M4x11	TCK05	4015M4x11	80T15	2407M10X30
M250A06307022042SN12	63	7	22	42	6		4015M4x11	TCK05	4015M4x11	80T15	2407M10X30
M250A08007027052SN12	80	7	27	52	6		4015M4x11	TCK05	4015M4x11	80T15	2510M12x35
M250A08008027052SN12	80	8	27	52	6		4015M4x11	TCK05	4015M4x11	80T15	2510M12x35
M250A08008027052SN12	80	8	27	52	6	SN.. 1206..	4015M4x11	TCK05	4015M4x11	80T15	2510M12x35
M250A10008032052SN12	100	8	32	52	6		4015M4x11	TCK05	4015M4x11	80T15	2514M16x35
M250A10010032052SN12	100	10	32	52	6		4015M4x11	TCK05	4015M4x11	80T15	2514M16x35
M250A10010032052SN12	100	10	32	52	6		4015M4x11	TCK05	4015M4x11	80T15	2514M16x35
M250B12511040065SN12	125	11	40	65	6		4015M4x11	TCK05	4015M4x11	80T15	-
M250B12511040065SN12	125	11	40	65	6		4015M4x11	TCK05	4015M4x11	80T15	-
M250B16012040065SN12	160	12	40	65	6		4015M4x11	TCK05	4015M4x11	80T15	-
M250B20014060065SN12	200	14	60	65	6		4015M4x11	TCK05	4015M4x11	80T15	-
M250B20014060065SN12	200	14	60	65	6		4015M4x11	TCK05	4015M4x11	80T15	-

SN



SNMX		L	I.C.	d
12	06	12.7	4.76	5.16

	PVD		CVD		
	P1000	P3000	P5000	P6000	P7000
P		◖ (blue)			
M					
K		◖ (red)			
N					
S					
H					

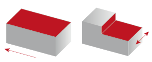
INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	MEDIUM ŚREDNIA	SNMX1206CS	-	0.50-6.00	0.10-0.38		●			

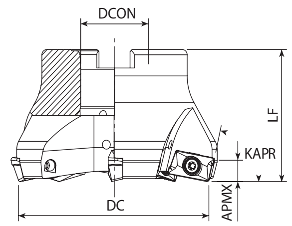
● Ideal machining conditions / Idealne warunki obróbki
◖ Normal machining conditions / Normalne warunki obróbki
✖ Unfavourable machining conditions / Niekorzystne warunki obróbki

!	INSERT EDP NO: ORDER CODE + GRADE / KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT / CHŁODZENIE	●	FOR P, M, K MATERIALS / DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA / PARAMETRY OBÓBKI	H	JET COOLANT / CHŁODZENIE JET	● (red)	FOR K MATERIAL / DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

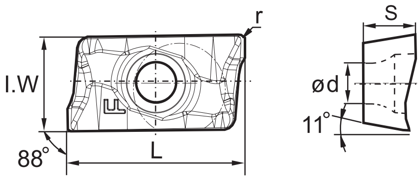
M275





ORDER CODE KOD ZAMÓWIENIA	DCX	ZEFP	DCON	LF	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX	MOUNTING SCREW ŚRUBA MOCUJĄCA
M275AP16063A2204C	63	4	22	40	6	AP.. 1604..	4015M4x11	80T15	2508M10x30
M275AP16080A2705C	80	5	27	50	6		4015M4x11	80T15	2510M12x35
M275AP16100A3206C	100	6	32	50	6		4015M4x11	80T15	2514M16x35
M275AP16125B4007	125	7	40	63	6		4015M4x11	80T15	-

AP



	P1000	P3000	P5000	P6000	P7000
P		◐			
M		◐			
K		◐			
N					
S					
H					
	PVD		CVD		

APKT		L	S	d
10	03	10	3.5	2.8
11	T3	12.24	3.6	2.8
16	04	17.877	5.76	4.4

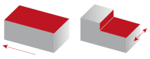
● Ideal machining conditions
Idealne warunki obróbki
◐ Normal machining conditions
Normalne warunki obróbki
✚ Unfavourable machining conditions
Niekorzystne warunki obróbki

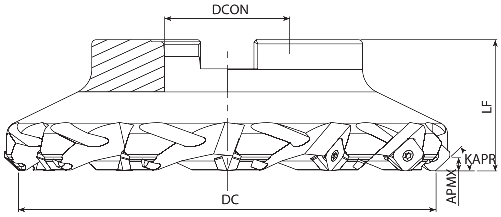
INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	MEDIUM ŚREDNIA	APKT100308CM	0.80	0.50-9.00	0.11-0.26		●			
		APKT160408CS	-	0.50-15.00	0.13-0.29		●			
		APKT1604CM	0.80	0.50-15.00	0.13-0.29		●			

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

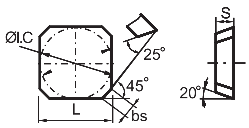
M162





ORDER CODE KOD ZAMÓWIENIA	DC	ZEFP	DCON	LF	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX	MOUNTING SCREW ŚRUBA MOCUJĄCA
M162A05004022040SE12	50	4	22	40	6	SE..12T3..	4015M35x11	80T15	2407M10x30
M162A05004022040SE12	50	4	22	40	6		4015M35x11	80T16	2407M10x30
M162A06305022040SE12	63	5	22	40	6		4015M35x11	80T17	2407M10x30
M162A06305022040SE12	63	5	22	40	6		4015M35x11	80T18	2407M10x30
M162A08006027050SE12	80	6	27	50	6		4015M35x11	80T19	2510M12x35
M162A08006027050SE12	80	6	27	50	6		4015M35x11	80T20	2510M12x35
M162A10007032050SE12	100	7	32	50	6		4015M35x11	80T21	2514M16x35
M162B12508040063SE12	125	8	40	63	6		4015M35x11	80T22	-
M162B16010040063SE12	160	10	40	63	6		4015M35x11	80T23	-
M162B16010040063SE12	160	10	40	63	6		4015M35x11	80T24	-
M162B20012060063SE12	200	12	60	63	6		4015M35x11	80T25	-

SE



SEKT		L	I.C.	d
12	04	12	12	4.76

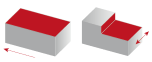
INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	PVD P1000	PVD P3000	CVD P5000	CVD P6000	CVD P7000
P							◐			
M							◐			
K							◐			
N										
S										
H										
	MEDIUM ŚREDNIA	SEKT12T3CM	-	0.50-6.00	0.15-0.45		●			

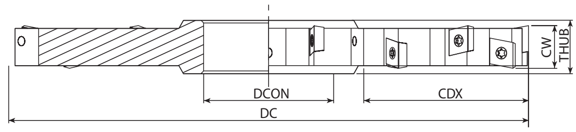
● Ideal machining conditions
Idealne warunki obróbki
◐ Normal machining conditions
Normalne warunki obróbki
✚ Unfavourable machining conditions
Niekorzystne warunki obróbki

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

M493



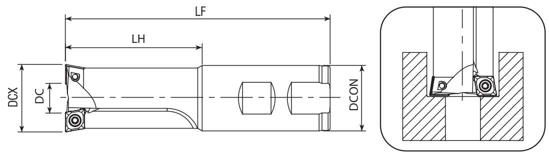


ORDER CODE KOD ZAMÓWIENIA	DC	CW	CDX	DCON	THUB	ZEFP TOTAL WSZYSTKIE	ZEFP EFFECTIVE EFEKTYWNE	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M493B01210027080CC06	80	8	17	27	12	10	5	CC.. 0602..	3008M25x6	80T08
M493B01212032100CC06	100	8	25	32	12	12	6		3008M25x6	80T08
M493B01214040125CC06	125	8	35	40	12	14	7		3008M25x6	80T08
M493B01216040160CC06	160	8	52	40	12	16	8		3008M25x6	80T08
M493B01218040200CC06	200	8	70	40	12	18	9		3008M25x6	80T08
M493B01410027080CC06	80	10	17	27	14	10	5		3008M25x6	80T08
M493B01412032100CC06	100	10	25	32	14	12	6		3008M25x6	80T08
M493B01414040125CC06	125	10	35	40	14	14	7		3008M25x6	80T08
M493B01416040160CC06	160	10	52	40	14	16	8		3008M25x6	80T08
M493B01418040200CC06	200	10	70	40	14	18	9		3008M25x6	80T08
M493B01608027080CC09	80	12	17	27	16	8	4	CC.. 09T3..	4015M35x11	80T15
M493B01610032100CC09	100	12	25	32	16	10	5		4015M35x11	80T15
M493B01612040125CC09	125	12	35	40	16	12	6		4015M35x11	80T15
M493B01614040160CC09	160	12	52	40	16	14	7		4015M35x11	80T15
M493B01616040200CC09	200	12	70	40	16	16	8		4015M35x11	80T15
M493B01808027080CC09	80	14	17	27	18	8	4		4015M35x11	80T15
M493B01810032100CC09	100	14	25	32	18	10	5		4015M35x11	80T15
M493B01812040125CC09	125	14	35	40	18	12	6		4015M35x11	80T15
M493B01814040160CC09	160	14	52	40	18	14	7	CC.. 09T3..	4015M35x11	80T15
M493B01816040200CC09	200	14	70	40	18	16	8		4015M35x11	80T15
M493B02006027080CC12	80	16	17	27	20	6	3	CC.. 1204..	1020M5x11	80T20
M493B02008032100CC12	100	16	25	32	20	8	4		1020M5x11	80T20
M493B02010040125CC12	125	16	35	40	20	10	5		1020M5x11	80T20
M493B02012040160CC12	160	16	52	40	20	12	6		1020M5x11	80T20
M493B02014040200CC12	200	16	70	40	20	14	7		1020M5x11	80T20
M493B02206027080CC12	80	18	17	27	22	6	3		1020M5x11	80T20
M493B02208032100CC12	100	18	25	32	22	8	4		1020M5x11	80T20
M493B02210040125CC12	125	18	35	40	22	10	5		1020M5x11	80T20
M493B02212040160CC12	160	18	52	40	22	12	6		1020M5x11	80T20
M493B02214040200CC12	200	18	70	40	22	14	7		1020M5x11	80T20
M493B02216040250CC12	250	18	90	40	22	16	8		1020M5x11	80T20
M493B02406027080CC12	80	20	17	27	24	6	3		1020M5x11	80T20
M493B02408032100CC12	100	20	25	32	24	8	4		1020M5x11	80T20
M493B02410040125CC12	125	20	35	40	24	10	5		1020M5x11	80T20
M493B02412040160CC12	160	20	52	40	24	12	6		1020M5x11	80T20
M493B02414040200CC12	200	20	70	40	24	14	7		1020M5x11	80T20
M493B02416040250CC12	250	20	90	40	24	16	8		1020M5x11	80T20

!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

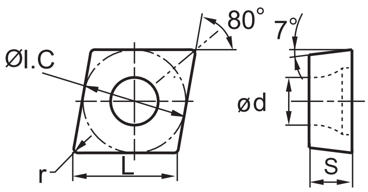
INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

M40B



ORDER CODE KOD ZAMÓWIENIA	DC	DCX	DCON	LH	LF	SCREW ŚRUBA	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M40B06176W1615002	6	17	16	30	150	-	CC.. 060204	3008M25x6	80T08
M40B06187W1610002C	7	18	16	32	100	M10		3008M25x6	80T08
M40B06187W1616002C	7	18	16	32	160	M10		3008M25x6	80T08
M40B06209W2010002C	9	20	20	40	100	M12		3008M25x6	80T08
M40B06209W2016002C	9	20	20	38	160	M12		3008M25x6	80T08
M40B092685W2513002C	8.5	26	25	50	130	M16	CC.. 09T304	4015M35x9	80T15
M40B092685W2520002C	8.5	26	25	50	200	M16		4015M35x9	80T15
M40B0930125W3213002C	12.5	30	32	65	130	-		4015M35x9	80T15
M40B0933155W3213002C	15.5	33	32	65	130	M20		4015M35x9	80T15
M40B0933155W3220002C	15.5	33	32	65	200	M20		4015M35x9	80T15
M40B092685W2520002	8,5	26	25	50	200	M16		4015M35x9	80T15
M40B0933155W3220002	15,5	33	32	65	200	M20		4015M35x9	80T15

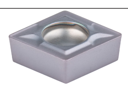
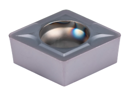
CC



	P1000 (PVD)	P3000	P5000	P6000 (CVD)	P7000
P	●			◐	
M	●			◐	
K	●			◐	
N					
S					
H					

CCMT	L	I.C.	S	d
06 02	6.4	6.35	2.38	2.8
06 T3	9.7	9.525	3.97	4.4
12 04	12.9	12.7	4.76	5.56

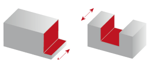
● Ideal machining conditions / Idealne warunki obróbki
◐ Normal machining conditions / Normalne warunki obróbki
✚ Unfavourable machining conditions / Niekorzystne warunki obróbki

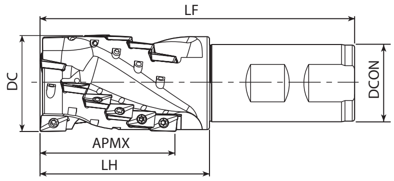
INSERT SHAPE KSZTAŁT PŁYTKI	DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	CCMT060204CM	0.40	0.30-2.10	0.12-0.18	●				
 MEDIUM ŚREDNIA	CCMT09T304CM	0.40	0.30-3.00	0.14-0.22	●			●	
	CCMT09T308CM	0.80	0.50-4.00	0.14-0.22	●			●	
	CCMT120408CM	0.80	0.50-5.00	0.18-0.30	●			●	

!	INSERT EDP NO: ORDER CODE + GRADE / KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT / CHŁODZENIE	●	FOR P, M, K MATERIALS / DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA / PARAMETRY OBÓBKI	H	JET COOLANT / CHŁODZENIE JET	● (red)	FOR K MATERIAL / DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

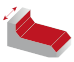
M111

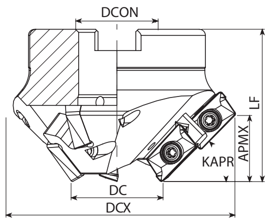




ORDER CODE KOD ZAMÓWIENIA	DC	DCON	APMX	LH	LF	ZEFP TOTAL WSZYSTKIE	ZEFP EFFECTIVE EFEKTYWNE	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M111B02004W20087AP10	20	20	28	37	87	4	2	AP.. 1003..	3008M25x6	80T08
M111B02006W20087AP10	20	20	28	37	87	6	2		3008M25x6	80T08
M111A02508W25105AP10	25	25	37	50	105	8	2		3008M25x6	80T08
M111A03215W32115AP10	32	32	46	55	115	15	3		3008M25x6	80T08
M111A04018W32130AP10	40	32	55	70	130	18	3		3008M25x6	80T08

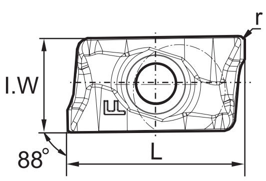
M135

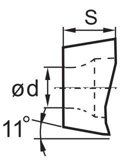




ORDER CODE KOD ZAMÓWIENIA	KAPR	DC	DCX	DCON	APMX	LF	ZEFP TOTAL WSZYSTKIE	ZEFP EFFECTIVE EFEKTYWNE	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M13515AP16D3593A27C	15	35	93	27	8	50	6	3	AP.. 1604..	4015M4x11	80T15
M13530AP16D3587A27C	30	35	87	27	15	50	6	3		4015M4x11	80T15
M13545AP16D3577A27C	45	35	77	27	21.5	50	6	3		4015M4x11	80T15
M13560AP16D3565A22C	60	35	65	22	26.5	50	6	3		4015M4x11	80T15
M13575AP16D3550A22C	75	35	50	22	29.5	50	6	3		4015M4x11	80T15

AP





	PVD P1000	PVD P3000	CVD P5000	CVD P6000	CVD P7000
P		●			
M		●			
K		●			
N					
S					
H					

APKT		L	S	d
10	03	10	3.5	2.8
11	T3	12.24	3.6	2.8
16	04	17.877	5.76	4.4

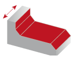
INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
	MEDIUM ŚREDNIA	APKT100308CM	0.80	0.50-9.00	0.11-0.26		●			
		APKT160408CS	-	0.50-15.00	0.13-0.29		●			
		APKT1604CM	0.80	0.50-15.00	0.13-0.29		●			

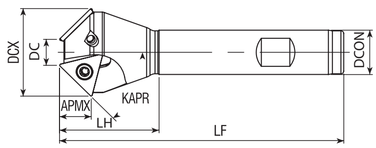
● Ideal machining conditions
Idealne warunki obróbki
Normal machining conditions
Normalne warunki obróbki
Unfavourable machining conditions
Niekorzystne warunki obróbki

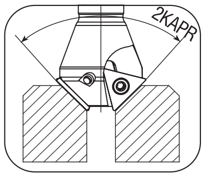
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

M401





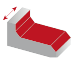


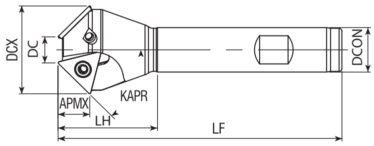
ORDER CODE KOD ZAMÓWIENIA	KAPR	DC	DCX	DCON	LF	LH	ZEFP	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M410161722W169001	10°	17	22	16	90	30	1	15.2		4015M35x9	80T15
M415161724W169001	15°	17	24	16	90	30	1	14.9		4015M35x9	80T15
M415162229W1610001	15°	22	29	16	100	30	1	14.9		4015M35x9	80T15
M415163037W2010002	15°	30	37	20	100	35	2	14.9		4015M35x9	80T15
M415163542W2010003	15°	35	42	20	100	38	3	14.9		4015M35x9	80T15
M415165259W2511003	15°	52	59	25	110	40	3	14.9		4015M35x9	80T15
M420161222W1610001	20°	12	22	16	100	30	1	14.4		4015M35x9	80T15
M420161727W1610001	20°	17	27	16	100	30	1	14.4		4015M35x9	80T15
M420162333W2010002	20°	23	33	20	100	30	2	14.4		4015M35x9	80T15
M420162838W2010002	20°	28	38	20	100	35	2	14.4		4015M35x9	80T15
M420163545W2010003	20°	35	45	20	100	40	3	14.4	TC.T 16T304	4015M35x9	80T15
M420163949W2010003	20°	39	49	20	100	40	3	14.4		4015M35x9	80T15
M420164555W2511003	20°	45	55	25	110	40	3	14.4		4015M35x9	80T15
M420165161W2511003	20°	51	61	25	110	40	3	14.4		4015M35x9	80T15
M40016620W1610001	30°	6	20	16	100	30	1	13.3		4015M35x9	80T15
M400161530W1610001	30°	15	30	16	100	30	1	13.3		4015M35x9	80T15
M40016175325W2010002	30°	17.5	32.5	20	100	30	2	13.3		4015M35x9	80T15
M400162035W1610002	30°	20	35	16	100	35	2	13.3		4015M35x9	80T15
M400163045W2010002	30°	30	45	20	100	40	2	13.3		4015M35x9	80T15
M400163550W2010003	30°	35	50	20	100	40	3	13.3		4015M35x9	80T15
M400164560W2511003	30°	45	60	25	110	40	3	13.3		4015M35x9	80T15
M401111124W1610002	45°	11	24	16	100	25	2	6.9	TC.T 110204	3008M5x6	80T08
M40116526W1610001	45°	5	26	16	100	30	1	10.8		4015M35x9	80T15
M401161031W1610002	45°	10	31	16	100	35	2	10.8		4015M35x9	80T15
M401161031W2010002	45°	10	31	20	100	35	2	10.8		4015M35x9	80T15
M401161839W1610002	45°	18	39	16	100	40	2	10.8		4015M35x9	80T15
M401161839W2010002	45°	18	39	20	100	40	2	10.8		4015M35x9	80T15
M401162041W2010002	45°	20	41	20	100	40	2	10.8	TC.T 16T304	4015M35x9	80T15
M401163051W2010002	45°	30	51	20	100	40	2	10.8		4015M35x9	80T15
M4175161725W169001	17.5°	17	25	16	90	30	1	14,7		4015M35x9	80T15
M41851621330W2010002	18.5°	21,3	30	20	100	30	2	13,5		4015M35x9	80T15
M4225161728W1610001	22.5°	17	28	16	100	30	1	14,2		4015M35x9	80T15
M425161729W1610001	25°	17	29	16	100	30	1	13,9		4015M35x9	80T15

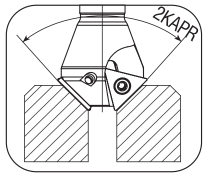
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

M401

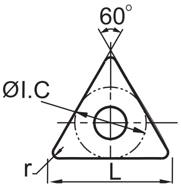


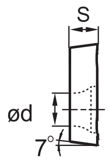




ORDER CODE KOD ZAMÓWIENIA	KAPR	DC	DCX	DCON	LF	LH	ZEFP	APMX	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
M40109718W1610002	45°	7	18	16	100	25	2	5,9	TC.T 090204	3007M25x5	80T09
M455161640W2010003	55°	16	40	20	100	40	3	8,7	TC.T 16T304	4015M35x9	80T15
M462161440W2010003	62°	14	40	20	100	40	3	7,1	TC.T 16T304	4015M35x9	80T15
M472161442W2010003	72°	14	42	20	100	40	3	4,6	TC.T 16T304	4015M35x9	80T15

TC

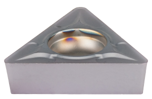




	P1000	P3000	P5000	P6000	P7000
P	●			◐	
M	●			◐	
K	●			◐	
N					
S					
H					

TCMT		L	I.C.	S	d
09	02	9.63	5.56	2.38	2.5
11	02	11	6.35	2.38	2.8
16	T3	16.5	9.525	3.97	4.4

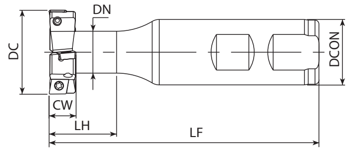
● Ideal machining conditions
Idealne warunki obróbki
◐ Normal machining conditions
Normalne warunki obróbki
✚ Unfavourable machining conditions
Niekorzystne warunki obróbki

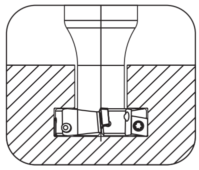
INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	PVD P1000	PVD P3000	PVD P5000	CVD P6000	CVD P7000
	MEDIUM ŚREDNIA	TCMT110204CM	0.40	0.30-2.10	0.08-0.17	●				
		TCMT16T304CM	0.40	0.30-3.00	0.08-0.18	●			●	
		TCMT16T308CM	0.80	0.50-5.00	0.12-0.35	●			●	

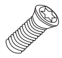
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	● (red)	FOR K MATERIAL DLA MATERIAŁU K

INDEXABLE MILLING TOOLS NARZĘDZIA SKŁADANE DO FREZOWANIA

M110

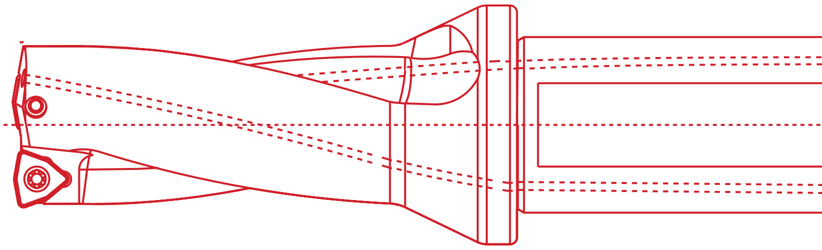




ORDER CODE KOD ZAMÓWIENIA	DC	CW	DCON	LF	DN	LH	ZEFP TOTAL WSZYSTKIE	ZEFP EFFECTIVE EFEKTYWNE	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA 	TORX KEY KLUCZ TORX 
M110CC0617X8W168502	17	8	16	85	10	16	2	1		3008M25x6	80T08
M110CC0628X8W206604	32	8	25	100	16	23	4	2		3008M25x6	80T08
M110CC0632X8W2510004	28	8	20	66	14	15,5	4	2		3008M25x6	80T08
M110CC064558W2510006	45,5	8	25	100	12	30	6	3		3008M25x6	80T08
M110CC0663X8W3212508	63	8	32	125	31,5	30	8	4		3008M25x6	80T08
M110CC0618X9W169002	18	9	16	90	10	16	2	1	CC.. 0602..	3008M25x6	80T08
M110CC0620X9W168504	20	9	16	85	10	16	4	2		3008M25x6	80T08
M110CC0623X10W209004	23	10	20	90	12	25	4	2		3008M25x6	80T08
M110CC063210W2510004	32	10	25	100	16	25	4	2		3008M25x6	80T08
M110CC064510W3212006	45	10	32	120	20	25	6	3		3008M25x6	80T08
M110CC062511W2510004	25	11	25	100	13	20	4	2		3008M25x6	80T08
M110CC093012W2510004	30	12	25	100	16	25	4	2		4015M35x9	80T15
M110CC093212W2510002	32	12	25	100	16	25	2	1		4015M35x9	80T15
M110CC093212W2510004	32	12	25	100	16	25	4	2		4015M35x9	80T15
M110CC093214W2510004	32	14	25	100	16	25	4	2	CC.. 09T3..	4015M35x9	80T15
M110CC093716W3212004	37	16	32	120	17	30	4	2		4015M35x9	80T15
M110CC094217W3212004	42	17	32	120	19	30	4	2		4015M35x9	80T15
M110CC0940173212004C	40	17	32	120	19	30	4	2		4015M35x9	80T15
M110CC124720W3212004	47	20	32	120	25	45	4	2		1020M5x11	80T20
M110CC125221W3212004	52	21	32	120	25	45	4	2	CC.. 1204..	1020M5x11	80T20
M110CC125022W3212004	50	22	32	120	25	45	4	2		1020M5x11	80T20
M110CC125522W3212004	55	22	32	120	25	45	4	2		1020M5x11	80T20

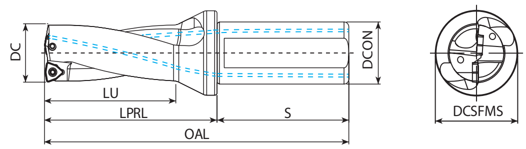
!	INSERT EDP NO: ORDER CODE + GRADE KOD EDP PŁYTKI: KOD ZAMÓWIENIA + GATUNEK	C	COOLANT CHŁODZENIE	●	FOR P, M, K MATERIALS DLA MATERIAŁÓW P, M, K
p.135	CUTTING DATA PARAMETRY OBÓBKI	H	JET COOLANT CHŁODZENIE JET	●	FOR K MATERIAL DLA MATERIAŁU K

DRILLING
WIERCENIE



INDEXABLE DRILLS WIERTŁA SKŁADANE

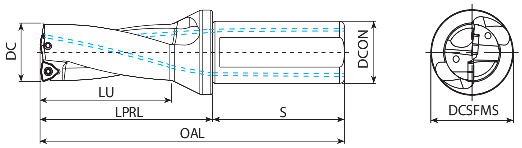
DSFC 2D



ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad] XMAX [mm]	DCMAX [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
DSFC0160003225BN	16	25	34	110	32	54	56	1.5	19	WCM. 030208	3008M25x6	80T08
DSFC0165003225BN	16.5	25	34	110	32	54	56	1.5	19.5	WCM. 030208	3008M25x6	80T08
DSFC0170003425BN	17	25	34	112	34	56	56	1.5	20	WCM. 030208	3008M25x6	80T08
DSFC0175003425BN	17.5	25	34	112	34	56	56	1.5	20.5	WCM. 030208	3008M25x6	80T08
DSFC0180003625BN	18	25	34	114	36	58	56	1.4	20.8	WCM. 030208	3008M25x6	80T08
DSFC0185003625BN	18.5	25	34	114	36	58	56	1.3	21.1	WCM. 030208	3008M25x6	80T08
DSFC0190003825BN	19	25	34	116	38	60	56	1.2	21.4	WCM. 030208	3008M25x6	80T08
DSFC0195003825BN	19.5	25	34	116	38	60	56	1.2	21.9	WCM. 030208	3008M25x6	80T08
DSFC0200004025BN	20	25	34	118	40	62	56	1.4	22.8	WCM. 040208	3008M25x6	80T08
DSFC0205004025BN	20.5	25	34	118	40	62	56	1.4	23.3	WCM. 040208	3008M25x6	80T08
DSFC0210004225BN	21	25	34	120	42	64	56	1	23	WCM. 040208	3008M25x6	80T08
DSFC0215004225BN	21.5	25	34	120	42	64	56	1	23.5	WCM. 040208	3008M25x6	80T08
DSFC0220004425BN	22	25	34	122	44	66	56	0.9	23.8	WCM. 040208	3008M25x6	80T08
DSFC0225004425BN	22.5	25	34	122	44	66	56	0.9	24.3	WCM. 040208	3008M25x6	80T08
DSFC0230004625BN	23	25	34	124	46	68	56	0.8	24.6	WCM. 040208	3008M25x6	80T08
DSFC0235004625BN	23.5	25	34	124	46	68	56	0.8	25.1	WCM. 040208	3008M25x6	80T08
DSFC0240004825BN	24	25	34	126	48	70	56	1.4	26.8	WCM. 050308	3008M3x8	80T08
DSFC0245004825BN	24.5	25	34	126	48	70	56	1.4	27.3	WCM. 050308	3008M3x8	80T08
DSFC0250005025BN	25	25	34	128	50	72	56	1.4	27.8	WCM. 050308	3008M3x8	80T08
DSFC0255005025BN	25.5	25	34	128	50	72	56	1.4	28.3	WCM. 050308	3008M3x8	80T08
DSFC0260005225BN	26	25	34	130	52	74	56	1.4	28.8	WCM. 050308	3008M3x8	80T08
DSFC0265005225BN	26.5	25	34	130	52	74	56	1.4	29.3	WCM. 050308	3008M3x8	80T08
DSFC0270005425BN	27	25	34	132	54	76	56	1.4	29.8	WCM. 050308	3008M3x8	80T08
DSFC0275005425BN	27.5	25	34	132	54	76	56	1.4	30.3	WCM. 050308	3008M3x8	80T08
DSFC0280005625BN	28	25	34	134	56	78	56	1.4	30.8	WCM. 050308	3008M3x8	80T08
DSFC0285005625BN	28.5	25	34	134	56	78	56	1.4	31.3	WCM. 050308	3008M3x8	80T08
DSFC0290005825BN	29	25	34	136	58	80	56	1.4	31.8	WCM. 050308	3008M3x8	80T08
DSFC0295005825BN	29.5	25	34	136	58	80	56	1.4	32.3	WCM. 050308	3008M3x8	80T08
DSFC0300006032BN	30	32	44	147	60	87	60	2.4	34.8	WCM. 06T308	3010M35x9	80T10
DSFC0310006232BN	31	32	44	149	62	89	60	2.3	35.6	WCM. 06T308	3010M35x9	80T10
DSFC0320006432BN	32	32	44	151	64	91	60	2.1	36.2	WCM. 06T308	3010M35x9	80T10
DSFC0330006632BN	33	32	44	153	66	93	60	1.9	36.8	WCM. 06T308	3010M35x9	80T10
DSFC0340006832BN	34	32	44	155	68	95	60	1.9	37.8	WCM. 06T308	3010M35x9	80T10
DSFC0350007032BN	35	32	44	157	70	97	60	1.8	38.6	WCM. 06T308	3010M35x9	80T10
DSFC0360007232BN	36	32	44	159	72	99	60	1.7	39.4	WCM. 06T308	3010M35x9	80T10
DSFC0370007432BN	37	32	44	161	74	101	60	1.6	40,2	WCM. 06T308	3010M35x9	80T10
DSFC0380007632BN	38	32	44	163	76	103	60	1.5	41	WCM. 06T308	3010M35x9	80T10
DSFC0390007832BN	39	32	44	165	78	105	60	1.3	41.6	WCM. 06T308	3010M35x9	80T10
DSFC0400008032BN	40	32	44	167	80	107	60	1	42	WCM. 06T308	3010M35x9	80T10
DSFC0410008232BN	41	32	44	169	82	109	60	0.8	42.6	WCM. 06T308	3010M35x9	80T10
DSFC0420008432BN	42	32	44	171	84	111	60	0.5	43	WCM. 06T308	3010M35x9	80T10
DSFC0430008632BN	43	32	44	173	86	113	60	0.3	43.6	WCM. 06T308	3010M35x9	80T10
DSFC0440008832BN	44	32	44	175	88	115	60	0	44	WCM. 06T308	3010M35x9	80T10
DSFC0450009040BN	45	40	54	192	90	122	70	3.3	51.6	WCM. 080412	4015M4x11	80T15
DSFC0460009240BN	46	40	54	194	92	124	70	3	52	WCM. 080412	4015M4x11	80T15
DSFC0470009440BN	47	40	54	196	94	126	70	2.8	52.6	WCM. 080412	4015M4x11	80T15
DSFC0480009640BN	48	40	54	198	96	128	70	2.5	53	WCM. 080412	4015M4x11	80T15
DSFC0490009840BN	49	40	54	200	98	130	70	2.2	53.4	WCM. 080412	4015M4x11	80T15

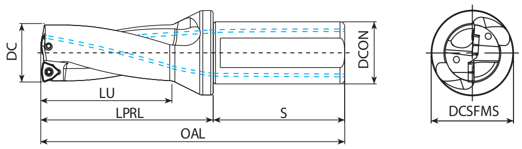
INDEXABLE DRILLS WIERTŁA SKŁADANE

DSFC 2D



ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad] XMAX [mm]	MAX OFFSET [rad] DCMAX [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
DSFC0500010040BN	50	40	54	202	100	132	70	2	54	WCM. 080412	4015M4x11	80T15
DSFC0510010240BN	51	40	54	204	102	134	70	1.8	54.6	WCM. 080412	4015M4x11	80T15
DSFC0520010440BN	52	40	54	206	104	136	70	1.5	55	WCM. 080412	4015M4x11	80T15
DSFC0530010640BN	53	40	54	208	106	138	70	1.3	55.6	WCM. 080412	4015M4x11	80T15
DSFC0540010840BN	54	40	54	210	108	140	70	1	56	WCM. 080412	4015M4x11	80T15
DSFC0550011040BN	55	40	54	212	110	142	70	0,8	56.6	WCM. 080412	4015M4x11	80T15
DSFC0560011240BN	56	40	64	214	112	144	70	0.5	57	WCM. 080412	4015M4x11	80T15
DSFC0570011440BN	57	40	64	216	114	146	70	0.3	57.6	WCM. 080412	4015M4x11	80T15
DSFC0580011640BN	58	40	64	218	116	148	70	0	58	WCM. 080412	4015M4x11	80T15
DSFC0590011840BN	59	40	64	220	118	150	70	0	59	WCM. 080412	4015M4x11	80T15
DSFC0600012040BN	60	40	64	222	120	152	70	0	60	WCM. 080412	4015M4x11	80T15

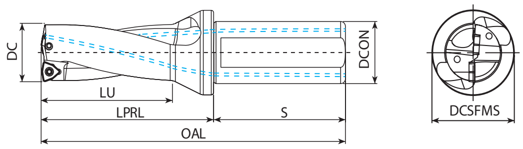
DSFC 3D

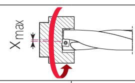
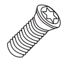


ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad] XMAX [mm]	MAX OFFSET [rad] DCMAX [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
DSFC0160004825BN	16	25	34	126	48	70	56	1.5	19	WCM. 030208	3008M25x6	80T08
DSFC0165004825BN	16.5	25	34	126	48	70	56	1.5	19.5	WCM. 030208	3008M25x6	80T08
DSFC0170005125BN	17	25	34	129	51	73	56	1.5	20	WCM. 030208	3008M25x6	80T08
DSFC0175005125BN	17.5	25	34	129	51	73	56	1.5	20.5	WCM. 030208	3008M25x6	80T08
DSFC0180005425BN	18	25	34	132	54	76	56	1.4	20.8	WCM. 030208	3008M25x6	80T08
DSFC0185005425BN	18.5	25	34	132	54	76	56	1.3	21.1	WCM. 030208	3008M25x6	80T08
DSFC0190005725BN	19	25	34	135	57	79	56	1.2	21.4	WCM. 030208	3008M25x6	80T08
DSFC0195005725BN	19.5	25	34	135	57	79	56	1.2	21.9	WCM. 030208	3008M25x6	80T08
DSFC0200006025BN	20	25	34	138	60	82	56	1.4	22.8	WCM. 040208	3008M25x6	80T08
DSFC0205006025BN	20.5	25	34	138	60	82	56	1.4	23.3	WCM. 040208	3008M25x6	80T08
DSFC0210006325BN	21	25	34	141	63	85	56	1	23	WCM. 040208	3008M25x6	80T08
DSFC0215006325BN	21.5	25	34	141	63	85	56	1	23.5	WCM. 040208	3008M25x6	80T08
DSFC0220006625BN	22	25	34	144	66	88	56	0.9	23.8	WCM. 040208	3008M25x6	80T08
DSFC0225006625BN	22.5	25	34	144	66	88	56	0.9	24.3	WCM. 040208	3008M25x6	80T08
DSFC0230006925BN	23	25	34	147	69	91	56	0.8	24.6	WCM. 040208	3008M25x6	80T08
DSFC0235006925BN	23.5	25	34	147	69	91	56	0.8	25.1	WCM. 040208	3008M25x6	80T08
DSFC0240007225BN	24	25	34	150	72	94	56	1.4	26.8	WCM. 050308	3008M3x8	80T08
DSFC0245007225BN	24.5	25	34	150	72	94	56	1.4	27.3	WCM. 050308	3008M3x8	80T08
DSFC0250007525BN	25	25	34	153	75	97	56	1.4	27.8	WCM. 050308	3008M3x8	80T08
DSFC0255007525BN	25.5	25	34	153	75	97	56	1.4	28.3	WCM. 050308	3008M3x8	80T08
DSFC0260007825BN	26	25	34	156	78	100	56	1.4	28.8	WCM. 050308	3008M3x8	80T08
DSFC0265007825BN	26.5	25	34	156	78	100	56	1.4	29.3	WCM. 050308	3008M3x8	80T08
DSFC0270008125BN	27	25	34	159	81	103	56	1.4	29.8	WCM. 050308	3008M3x8	80T08

INDEXABLE DRILLS WIERTŁA SKŁADANE

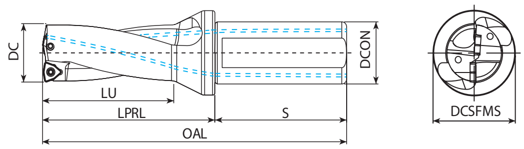
DSFC 3D



ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad]  XMAX [mm]	MAX OFFSET [rad] DCMAX [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA 	TORX KEY KLUCZ TORX 
DSFC0275008125BN	27.5	25	34	159	81	103	56	1.4	30.3	WCM. 050308	3008M3x8	80T08
DSFC0280008425BN	28	25	34	162	84	106	56	1.4	30.8	WCM. 050308	3008M3x8	80T08
DSFC0285008425BN	28.5	25	34	162	84	106	56	1.4	31.3	WCM. 050308	3008M3x8	80T08
DSFC0290008725BN	29	25	34	165	87	109	56	1.4	31.8	WCM. 050308	3008M3x8	80T08
DSFC0295008725BN	29.5	25	34	165	87	109	56	1.4	32.3	WCM. 050308	3008M3x8	80T08
DSFC0300009032BN	30	32	44	177	90	117	60	2.4	34.8	WCM. 06T308	3010M35x9	80T10
DSFC0305009032BN	30.5	32	44	177	90	117	60	2.4	35.3	WCM. 06T308	3010M35x9	80T10
DSFC0310009332BN	31	32	44	180	93	120	60	2.3	35.6	WCM. 06T308	3010M35x9	80T10
DSFC0315009332BN	31.5	32	44	180	93	120	60	2.3	36.1	WCM. 06T308	3010M35x9	80T10
DSFC0320009632BN	32	32	44	183	96	123	60	2.1	36.2	WCM. 06T308	3010M35x9	80T10
DSFC0325009632BN	32.5	32	44	183	96	123	60	2.1	36.7	WCM. 06T308	3010M35x9	80T10
DSFC0330009932BN	33	32	44	186	99	126	60	1.9	36.8	WCM. 06T308	3010M35x9	80T10
DSFC0335009932BN	33.5	32	44	186	99	126	60	1.9	37.3	WCM. 06T308	3010M35x9	80T10
DSFC0340010232BN	34	32	44	189	102	129	60	1.9	37.8	WCM. 06T308	3010M35x9	80T10
DSFC0345010232BN	34.5	32	44	189	102	129	60	1.9	38.3	WCM. 06T308	3010M35x9	80T10
DSFC0350010532BN	35	32	44	192	105	132	60	1.8	38.6	WCM. 06T308	3010M35x9	80T10
DSFC0355010532BN	35.5	32	44	192	105	132	60	1.8	39.1	WCM. 06T308	3010M35x9	80T10
DSFC0360010832BN	36	32	44	195	108	135	60	1.7	39.4	WCM. 06T308	3010M35x9	80T10
DSFC0365010832BN	36.5	32	44	195	108	135	60	2	40.5	WCM. 06T308	3010M35x9	80T10
DSFC0370011132BN	37	32	44	198	111	138	60	1.6	40.2	WCM. 06T308	3010M35x9	80T10
DSFC0375011132BN	37.5	32	44	198	111	138	60	1.8	41.1	WCM. 06T308	3010M35x9	80T10
DSFC0380011432BN	38	32	44	201	114	141	60	1.5	41	WCM. 06T308	3010M35x9	80T10
DSFC0385011432BN	38.5	32	44	201	114	141	60	1.5	41.5	WCM. 06T308	3010M35x9	80T10
DSFC0390011732BN	39	32	44	204	117	144	60	1.3	41.6	WCM. 06T308	3010M35x9	80T10
DSFC0395011732BN	39.5	32	44	204	117	144	60	1.3	42.1	WCM. 06T308	3010M35x9	80T10
DSFC0400012032BN	40	32	44	207	120	147	60	1	42	WCM. 06T308	3010M35x9	80T10
DSFC0405012032BN	40.5	32	44	207	120	147	60	1	42.5	WCM. 06T308	3010M35x9	80T10
DSFC0410012332BN	41	32	44	210	123	150	60	0.8	42.6	WCM. 06T308	3010M35x9	80T10
DSFC0415012332BN	41.5	32	44	210	123	150	60	0.8	43.1	WCM. 06T308	3010M35x9	80T10
DSFC0420012632BN	42	32	44	213	126	153	60	0.5	43	WCM. 06T308	3010M35x9	80T10
DSFC0425012632BN	42.5	32	44	213	126	153	60	0.5	43.5	WCM. 06T308	3010M35x9	80T10
DSFC0430012932BN	43	32	44	216	129	156	60	0.3	43.1	WCM. 06T308	3010M35x9	80T10
DSFC0435012932BN	43.5	32	44	216	129	156	60	0.3	44.1	WCM. 06T308	3010M35x9	80T10
DSFC0440013232BN	44	32	44	219	132	159	60	0	44	WCM. 06T308	3010M35x9	80T10
DSFC0445013232BN	44.5	32	44	219	132	159	60	0	44.5	WCM. 06T308	3010M35x9	80T10
DSFC0450013540BN	45	40	54	237	135	167	70	3.3	51.6	WCM. 080412	4015M4x11	80T15
DSFC0455013540BN	45.5	40	54	237	135	167	70	3.3	52.1	WCM. 080412	4015M4x11	80T15
DSFC0460013840BN	46	40	54	240	138	170	70	3	52	WCM. 080412	4015M4x11	80T15
DSFC0470014140BN	47	40	54	243	141	173	70	2.8	52.6	WCM. 080412	4015M4x11	80T15
DSFC0480014440BN	48	40	54	246	144	176	70	2.5	53	WCM. 080412	4015M4x11	80T15
DSFC0490014740BN	49	40	54	249	147	179	70	2.2	53.4	WCM. 080412	4015M4x11	80T15
DSFC0500015040BN	50	40	54	252	150	182	70	2	54	WCM. 080412	4015M4x11	80T15
DSFC0510015340BN	51	40	54	255	153	185	70	1.8	54.6	WCM. 080412	4015M4x11	80T15
DSFC0520015640BN	52	40	54	258	156	188	70	1.5	55	WCM. 080412	4015M4x11	80T15
DSFC0530015940BN	53	40	54	261	159	191	70	1.3	55.6	WCM. 080412	4015M4x11	80T15
DSFC0540016240BN	54	40	54	264	162	194	70	1	56	WCM. 080412	4015M4x11	80T15
DSFC0550016540BN	55	40	54	267	165	197	70	0.8	56.6	WCM. 080412	4015M4x11	80T15
DSFC0560016840BN	56	40	64	270	168	200	70	0.5	57	WCM. 080412	4015M4x11	80T15
DSFC0570017140BN	57	40	64	273	171	203	70	0.3	57.6	WCM. 080412	4015M4x11	80T15

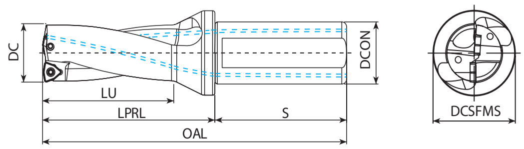
INDEXABLE DRILLS WIERTŁA SKŁADANE

DSFC 3D



ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad] XMAX [mm]	MAX OFFSET [rad] DCMAX [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
DSFC0580017440BN	58	40	64	276	174	206	70	0	58	WCM. 080412	4015M4x11	80T15
DSFC0590017740BN	59	40	64	279	177	209	70	0	59	WCM. 080412	4015M4x11	80T15
DSFC0600018040BN	60	40	64	282	180	212	70	0	60	WCM. 080412	4015M4x11	80T15

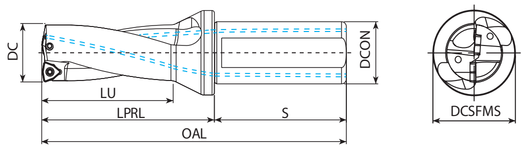
DSFC 4D

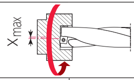
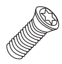


ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad] XMAX [mm]	MAX OFFSET [rad] DCMAX [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
DSFC0160006425BN	16	25	34	142	64	86	56	1.5	19	WCM. 030208	3008M25x6	80T08
DSFC0165006425BN	16.5	25	34	142	64	86	56	1.5	19.5	WCM. 030208	3008M25x6	80T08
DSFC0170006825BN	17	25	34	146	68	90	56	1.5	20	WCM. 030208	3008M25x6	80T08
DSFC0175006825BN	17.5	25	34	146	68	90	56	1.5	20.5	WCM. 030208	3008M25x6	80T08
DSFC0180007225BN	18	25	34	150	72	94	56	1.4	20.8	WCM. 030208	3008M25x6	80T08
DSFC0185007225BN	18.5	25	34	150	72	94	56	1.3	21.1	WCM. 030208	3008M25x6	80T08
DSFC0190007625BN	19	25	34	154	76	98	56	1.2	21.4	WCM. 030208	3008M25x6	80T08
DSFC0195007625BN	19.5	25	34	154	76	98	56	1.2	21.9	WCM. 030208	3008M25x6	80T08
DSFC0200008025BN	20	25	34	158	80	102	56	1.4	22.8	WCM. 040208	3008M25x6	80T08
DSFC0205008025BN	20.5	25	34	158	80	102	56	1.4	23.3	WCM. 040208	3008M25x6	80T08
DSFC0210008425BN	21	25	34	162	84	106	56	1	23	WCM. 040208	3008M25x6	80T08
DSFC0215008425BN	21.5	25	34	162	84	106	56	1	23.5	WCM. 040208	3008M25x6	80T08
DSFC0220008825BN	22	25	34	166	88	110	56	0.9	23.8	WCM. 040208	3008M25x6	80T08
DSFC0225008825BN	22.5	25	34	166	88	110	56	0.9	24.3	WCM. 040208	3008M25x6	80T08
DSFC0230009225BN	23	25	34	170	92	114	56	0.8	24.6	WCM. 040208	3008M25x6	80T08
DSFC0235009225BN	23.5	25	34	170	92	114	56	0.8	25.1	WCM. 040208	3008M25x6	80T08
DSFC0240009625BN	24	25	34	174	96	118	56	1.4	26.8	WCM. 050308	3008M3x8	80T08
DSFC0245009625BN	24.5	25	34	174	96	118	56	1.4	27.3	WCM. 050308	3008M3x8	80T08
DSFC0250010025BN	25	25	34	178	100	122	56	1.4	27.8	WCM. 050308	3008M3x8	80T08
DSFC0255010025BN	25.5	25	34	178	100	122	56	1.4	28.3	WCM. 050308	3008M3x8	80T08
DSFC0260010425BN	26	25	34	182	104	126	56	1.4	28.8	WCM. 050308	3008M3x8	80T08
DSFC0265010425BN	26.5	25	34	182	104	126	56	1.4	29.3	WCM. 050308	3008M3x8	80T08
DSFC0270010825BN	27	25	34	186	108	130	56	1.4	29.8	WCM. 050308	3008M3x8	80T08
DSFC0275010825BN	27.5	25	34	186	108	130	56	1.4	30.3	WCM. 050308	3008M3x8	80T08
DSFC0280011225BN	28	25	34	190	112	134	56	1.4	30.8	WCM. 050308	3008M3x8	80T08
DSFC0285011225BN	28.5	25	34	190	112	134	56	1.4	31.3	WCM. 050308	3008M3x8	80T08
DSFC0290011625BN	29	25	34	194	116	138	56	1.4	31.8	WCM. 050308	3008M3x8	80T08
DSFC0295011625BN	29.5	25	34	194	116	138	56	1.4	32.3	WCM. 050308	3008M3x8	80T08

INDEXABLE DRILLS WIERTŁA SKŁADANE

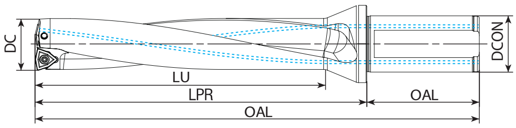
DSFC 4D

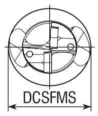


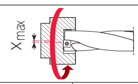
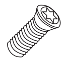
ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad] 		INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA 	TORX KEY KLUCZ TORX 
								XMAX [mm]	DCMAX [mm]			
DSFC0300012032BN	30	32	44	207	120	147	60	2.4	34.8	WCM. 06T308	3010M35x9	80T10
DSFC0310012432BN	31	32	44	211	124	151	60	2.3	35.6	WCM. 06T308	3010M35x9	80T10
DSFC0320012832BN	32	32	44	215	128	155	60	2.1	36.2	WCM. 06T308	3010M35x9	80T10
DSFC0330013232BN	33	32	44	219	132	159	60	1.9	36.8	WCM. 06T308	3010M35x9	80T10
DSFC0335013232BN	33.5	32	44	219	132	159	60	1.9	37.3	WCM. 06T308	3010M35x9	80T10
DSFC0340013632BN	34	32	44	223	136	163	60	1.9	37.8	WCM. 06T308	3010M35x9	80T10
DSFC0350014032BN	35	32	44	227	140	167	60	1.8	38.6	WCM. 06T308	3010M35x9	80T10
DSFC0360014432BN	36	32	44	231	144	171	60	1.7	39.4	WCM. 06T308	3010M35x9	80T10
DSFC0370014832BN	37	32	44	235	148	175	60	1.6	40.2	WCM. 06T308	3010M35x9	80T10
DSFC0380015232BN	38	32	44	239	152	179	60	1.5	41	WCM. 06T308	3010M35x9	80T10
DSFC0385015232BN	38.5	32	44	239	152	179	60	1.5	41.5	WCM. 06T308	3010M35x9	80T10
DSFC0390015632BN	39	32	44	243	156	183	60	1.3	41.6	WCM. 06T308	3010M35x9	80T10
DSFC0400016032BN	40	32	44	247	160	187	60	1	42	WCM. 06T308	3010M35x9	80T10
DSFC0410016432BN	41	32	44	251	164	191	60	0.8	42.6	WCM. 06T308	3010M35x9	80T10
DSFC0420016832BN	42	32	44	255	168	195	60	0.5	43	WCM. 06T308	3010M35x9	80T10
DSFC0430017232BN	43	32	44	259	172	199	60	0.3	43.6	WCM. 06T308	3010M35x9	80T10
DSFC0440017632BN	44	32	44	263	176	203	60	0	44	WCM. 06T308	3010M35x9	80T10
DSFC0450018040BN	45	40	54	282	180	212	70	3.3	51.6	WCM. 080412	4015M4x11	80T15
DSFC0460018440BN	46	40	54	286	184	216	70	3	52	WCM. 080412	4015M4x11	80T15
DSFC0470018840BN	47	40	54	290	188	220	70	2.8	52.6	WCM. 080412	4015M4x11	80T15
DSFC0480019240BN	48	40	54	294	192	224	70	2.5	53	WCM. 080412	4015M4x11	80T15
DSFC0490019640BN	49	40	54	298	196	228	70	2.2	53.4	WCM. 080412	4015M4x11	80T15
DSFC0500020040BN	50	40	54	302	200	232	70	2	54	WCM. 080412	4015M4x11	80T15

INDEXABLE DRILLS WIERTŁA SKŁADANE

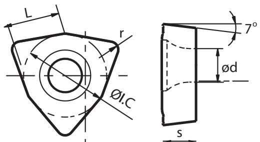
DSFC 5D



ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad] Xmax [mm]	MAX OFFSET [rad] DCmax [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
												
DSFC0200010025BN	20	25	34	178	100	122	56	1.4	22.8	WCM. 040208	3008M25x6	80T08
DSFC0210010525BN	21	25	34	183	105	127	56	1	23	WCM. 040208	3008M25x6	80T08
DSFC0220011025BN	22	25	34	188	110	132	56	0.9	23.8	WCM. 040208	3008M25x6	80T08
DSFC0230011525BN	23	25	34	193	115	137	56	0.8	24.6	WCM. 040208	3008M25x6	80T08
DSFC0240012025BN	24	25	34	198	120	142	56	1.4	26.8	WCM. 050308	3008M3x8	80T08
DSFC0250012525BN	25	25	34	203	125	147	56	1.4	27.8	WCM. 050308	3008M3x8	80T08
DSFC0260013025BN	26	25	34	208	130	152	56	1.4	28.8	WCM. 050308	3008M3x8	80T08
DSFC0270013525BN	27	25	34	213	135	157	56	1.4	29.8	WCM. 050308	3008M3x8	80T08
DSFC0280014025BN	28	25	34	218	140	162	56	1.4	30.8	WCM. 050308	3008M3x8	80T08
DSFC0290014525BN	29	25	34	223	145	167	56	1.4	31.8	WCM. 050308	3008M3x8	80T08
DSFC0300015032BN	30	32	44	237	150	177	60	2.4	34.8	WCM. 06T308	3010M35x9	80T10
DSFC0310015532BN	31	32	44	242	155	182	60	2.3	35.6	WCM. 06T308	3010M35x9	80T10
DSFC0320016032BN	32	32	44	247	160	187	60	2.1	36.2	WCM. 06T308	3010M35x9	80T10
DSFC0330016532BN	33	32	44	252	165	192	60	1.9	36.8	WCM. 06T308	3010M35x9	80T10
DSFC0340017032BN	34	32	44	257	170	197	60	1.9	37.8	WCM. 06T308	3010M35x9	80T10
DSFC0350017532BN	35	32	44	262	175	202	60	1.8	38.6	WCM. 06T308	3010M35x9	80T10
DSFC0370018532BN	37	32	44	272	185	212	60	1.6	40.2	WCM. 06T308	3010M35x9	80T10
DSFC0380019032BN	38	32	44	277	190	217	60	1.5	41	WCM. 06T308	3010M35x9	80T10
DSFC0460023040BN	46	40	54	332	230	262	70	3	52	WCM. 080412	4015M4x11	80T15

WC



	P1000	P3000	P5000	P6000	P7000
P		◐			
M		◐			
K		◐			
N					
S					
H					

WCMX		L	I.C.	S	d
04	02	4.3	6.35	2.38	3.1
06	T3	6.5	9.525	3.97	3.7
08	04	8.7	12.7	4.76	4.3

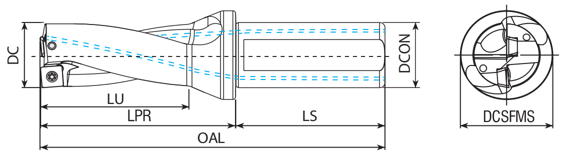
● Ideal machining conditions
Idealne warunki obróbki
◐ Normal machining conditions
Normalne warunki obróbki
✣ Unfavourable machining conditions
Niekorzystne warunki obróbki

INSERT SHAPE KSZTAŁT PŁYTKI		DESCRIPTION OZNACZENIE	r	a_p	f_z	PVD P1000	PVD P3000	CVD P5000	CVD P6000	CVD P7000
	REGULAR FEED NORMALNY POSUW	WCMX030208CM	0.80	-	0.04-0.10		●			
		WCMX040208CM	0.80	-	0.04-0.10		●			
		WCMX050308CM	0.80	-	0.05-0.11		●			
		WCMX06T308CM	0.80	-	0.06-0.12		●			
		WCMX080412CM	1.20	-	0.06-0.15		●			

● For P, M, K materials
● For K material only

INDEXABLE DRILLS WIERTŁA SKŁADANE

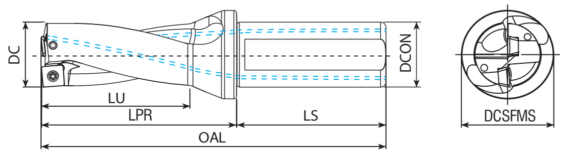
DXFC 2D



ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad] XMAX [mm]	DCMAX [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
DXFC0125002420BN	12.5	20	25	96	24	46	50	0.5	13.5	SP.. 050204	3006M2x4	80T06
DXFC0130002620BN	13	20	25	98	26	48	50	0.5	14	SP.. 050204	3006M2x4	80T06
DXFC0135002620BN	13.5	20	25	98	26	48	50	0.5	14.5	SP.. 050204	3006M2x4	80T06
DXFC0140002820BN	14	20	25	100	28	50	50	0.5	15	SP.. 050204	3006M2x4	80T06
DXFC0145002820BN	14.5	20	25	100	28	50	50	0.5	15.5	SP.. 050204	3006M2x4	80T06
DXFC0150003020BN	15	20	25	102	30	52	50	0.5	16	SP.. 050204	3006M2x4	80T06
DXFC0155003020BN	15.5	20	25	102	30	52	50	0.5	16.5	SP.. 060204	3007M22x5	80T07
DXFC0160003225BN	16	25	34	110	32	54	56	0.5	17	SP.. 060204	3007M22x5	80T07
DXFC0165003225BN	16.5	25	34	110	32	54	56	0.5	17.5	SP.. 060204	3007M22x5	80T07
DXFC0170003425BN	17	25	34	112	34	56	56	0.5	18	SP.. 060204	3007M22x5	80T07
DXFC0175003425BN	17.5	25	34	112	34	56	56	0.5	18.5	SP.. 060204	3007M22x5	80T07
DXFC0180003625BN	18	25	34	114	36	58	56	0.5	19	SP.. 060204	3007M22x5	80T07
DXFC0185003625BN	18.5	25	34	114	36	58	56	0.5	19.5	SP.. 060204	3007M22x5	80T07
DXFC0190003825BN	19	25	34	116	38	60	56	0.25	19.5	SP.. 060204	3007M22x5	80T07
DXFC0195003825BN	19.5	25	34	116	38	60	56	0.25	20	SP.. 060204	3007M22x5	80T07
DXFC0200004025BN	20	25	34	118	40	62	56	0	20	SP.. 060204	3007M22x5	80T07
DXFC0205004025BN	20.5	25	34	118	40	62	56	0	20.5	SP.. 060204	3007M22x5	80T07
DXFC0210004225BN	21	25	34	120	42	64	56	0	21	SP.. 060204	3007M22x5	80T07
DXFC0215004225BN	21.5	25	34	120	42	64	56	0	21.5	SP.. 060204	3007M22x5	80T07
DXFC0220004425BN	22	25	34	122	44	66	56	0.5	23	SP.. 07T308	3008M25X6	80T08
DXFC0225004425BN	22.5	25	34	122	44	66	56	0.5	23.5	SP.. 07T308	3008M25X6	80T08
DXFC0230004625BN	23	25	34	124	46	68	56	0.5	24	SP.. 07T308	3008M25X6	80T08
DXFC0235004625BN	23.5	25	34	124	46	68	56	0.5	24.5	SP.. 07T308	3008M25X6	80T08
DXFC0240004825BN	24	25	34	126	48	70	56	0.5	25	SP.. 07T308	3008M25X6	80T08
DXFC0245004825BN	24.5	25	34	126	48	70	56	0.5	25.5	SP.. 07T308	3008M25X6	80T08
DXFC0250005025BN	25	25	34	128	50	72	56	0.25	25.5	SP.. 07T308	3008M25X6	80T08
DXFC0255005025BN	25.5	25	34	128	50	72	56	0.25	26	SP.. 07T308	3008M25X6	80T08
DXFC0260005225BN	26	25	34	130	52	74	56	0	26	SP.. 07T308	3008M25X6	80T08
DXFC0265005225BN	26.5	25	34	130	52	74	56	0	26.5	SP.. 07T308	3008M25X6	80T08
DXFC0270005425BN	27	25	34	132	54	76	56	0	27	SP.. 07T308	3008M25X6	80T08
DXFC0275005425BN	27.5	25	34	132	54	76	56	0	27.5	SP.. 07T308	3008M25X6	80T08
DXFC0280005625BN	28	25	34	134	56	78	56	0.5	29	SP..090408	4015M35x9	80T15
DXFC0285005625BN	28.5	25	34	134	56	78	56	0.5	29.5	SP..090408	4015M35x9	80T15
DXFC0290005825BN	29	25	34	136	58	80	56	0.5	30	SP..090408	4015M35x9	80T15
DXFC0295005825BN	29.5	25	34	136	58	80	56	0.5	30.5	SP..090408	4015M35x9	80T15
DXFC0300006032BN	30	32	44	147	60	87	60	0.5	31	SP..090408	4015M35x9	80T15
DXFC0310006232BN	31	32	44	149	62	89	60	0.25	31.5	SP..090408	4015M35x9	80T15
DXFC0320006432BN	32	32	44	151	64	91	60	0	32	SP..090408	4015M35x9	80T15
DXFC0330006632BN	33	32	44	153	66	93	60	0	33	SP..090408	4015M35x9	80T15
DXFC0340006832BN	34	32	44	155	68	95	60	0.5	35	SP.. 110408	4015M4x11	80T15
DXFC0350007032BN	35	32	44	157	70	97	60	0.5	36	SP.. 110408	4015M4x11	80T15
DXFC0360007232BN	36	32	44	159	72	99	60	0.5	37	SP.. 110408	4015M4x11	80T15
DXFC0370007432BN	37	32	44	161	74	101	60	0.5	38	SP.. 110408	4015M4x11	80T15
DXFC0380007632BN	38	32	44	163	76	103	60	0.5	39	SP.. 110408	4015M4x11	80T15
DXFC0390007832BN	39	32	44	165	78	105	60	0.5	40	SP.. 110408	4015M4x11	80T15
DXFC0400008032BN	40	32	44	167	80	107	60	0.25	40.5	SP.. 110408	4015M4x11	80T15
DXFC0410008232BN	41	32	44	169	82	109	60	0	41	SP.. 110408	4015M4x11	80T15
DXFC0420008432BN	42	32	44	171	84	111	60	0.5	43	SP..140512	1020M5x11	80T20

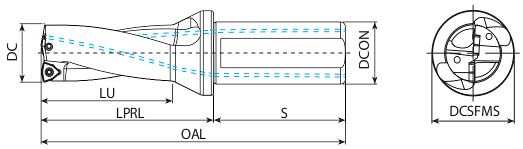
INDEXABLE DRILLS WIERTŁA SKŁADANE

DXFC 2D



ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad] XMAX [mm]	DCMAX [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
DXFC0430008632BN	43	32	44	173	86	113	60	0.5	44	SP..140512	1020M5x11	80T20
DXFC0440008832BN	44	32	44	175	88	115	60	0.5	45	SP..140512	1020M5x11	80T20
DXFC0450009040BN	45	40	54	192	90	122	70	0.5	46	SP..140512	1020M5x11	80T20
DXFC0460009240BN	46	40	54	194	92	124	70	0.5	47	SP..140512	1020M5x11	80T20
DXFC0470009440BN	47	40	54	196	94	126	70	0.5	48	SP..140512	1020M5x11	80T20
DXFC0480009640BN	48	40	54	198	96	128	70	0.25	48.5	SP..140512	1020M5x11	80T20
DXFC0490009840BN	49	40	54	200	98	130	70	0	49	SP..140512	1020M5x11	80T20
DXFC0500010040BN	50	40	54	202	100	132	70	0	50	SP..140512	1020M5x11	80T20

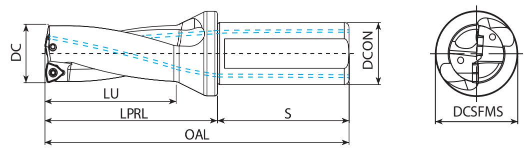
DXFC 3D

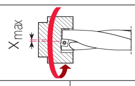
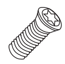


ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad] XMAX [mm]	DCMAX [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
DXFC0125003620BN	12.5	20	25	108	36	58	50	0.5	13.5	SP.. 050204	3006M2x4	80T06
DXFC0130003920BN	13	20	25	111	39	61	50	0.5	14	SP.. 050204	3006M2x4	80T06
DXFC0135003920BN	13.5	20	25	111	39	61	50	0.5	14.5	SP.. 050204	3006M2x4	80T06
DXFC0140004220BN	14	20	25	114	42	64	50	0.5	15	SP.. 050204	3006M2x4	80T06
DXFC0145004220BN	14.5	20	25	114	42	64	50	0.5	15.5	SP.. 050204	3006M2x4	80T06
DXFC0150004520BN	15	20	25	117	45	67	50	0.5	16	SP.. 050204	3006M2x4	80T06
DXFC0155004520BN	15.5	20	25	117	45	67	50	0.5	16.5	SP.. 060204	3007M22x5	80T07
DXFC0160004825BN	16	25	34	126	48	70	56	0.5	17	SP.. 060204	3007M22x5	80T07
DXFC0165004825BN	16.5	25	34	126	48	70	56	0.5	17.5	SP.. 060204	3007M22x5	80T07
DXFC0170005125BN	17	25	34	129	51	73	56	0.5	18	SP.. 060204	3007M22x5	80T07
DXFC0175005125BN	17.5	25	34	129	51	73	56	0.5	18.5	SP.. 060204	3007M22x5	80T07
DXFC0180005425BN	18	25	34	132	54	76	56	0.5	19	SP.. 060204	3007M22x5	80T07
DXFC0185005425BN	18.5	25	34	132	54	76	56	0.5	19.5	SP.. 060204	3007M22x5	80T07
DXFC0190005725BN	19	25	34	135	57	79	56	0.25	19.5	SP.. 060204	3007M22x5	80T07
DXFC0195005725BN	19.5	25	34	135	57	79	56	0.25	20	SP.. 060204	3007M22x5	80T07
DXFC0200006025BN	20	25	34	138	60	82	56	0	20	SP.. 060204	3007M22x5	80T07
DXFC0205006025BN	20.5	25	34	138	60	82	56	0	20.5	SP.. 060204	3007M22x5	80T07
DXFC0210006325BN	21	25	34	141	63	85	56	0	21	SP.. 060204	3007M22x5	80T07
DXFC0215006325BN	21.5	25	34	141	63	85	56	0	21.5	SP.. 060204	3007M22x5	80T07
DXFC0220006625BN	22	25	34	144	66	88	56	0.5	23	SP.. 07T308	3008M25x6	80T08
DXFC0225006625BN	22.5	25	34	144	66	88	56	0.5	23.5	SP.. 07T308	3008M25x6	80T08
DXFC0230006925BN	23	25	34	147	69	91	56	0.5	24	SP.. 07T308	3008M25x6	80T08
DXFC0235006925BN	23.5	25	34	147	69	91	56	0.5	24.5	SP.. 07T308	3008M25x6	80T08
DXFC0240007225BN	24	25	34	150	72	94	56	0.5	25	SP.. 07T308	3008M25x6	80T08
DXFC0245007225BN	24.5	25	34	150	72	94	56	0.5	25.5	SP.. 07T308	3008M25x6	80T08
DXFC0250007525BN	25	25	34	153	75	97	56	0.25	25.5	SP.. 07T308	3008M25x6	80T08
DXFC0255007525BN	25.5	25	34	153	75	97	56	0.25	26	SP.. 07T308	3008M25x6	80T08

INDEXABLE DRILLS WIERTŁA SKŁADANE

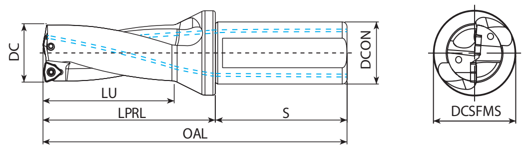
DXFC 3D



ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad]  XMAX [mm]	DCMAX [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA 	TORX KEY KLUCZ TORX 
DXFC0260007825BN	26	25	34	156	78	100	56	0	26	SP.. 07T308	3008M25x6	80T08
DXFC0265007825BN	26.5	25	34	156	78	100	56	0	26.5	SP.. 07T308	3008M25x6	80T08
DXFC0270008125BN	27	25	34	159	81	103	56	0	27	SP.. 07T308	3008M25x6	80T08
DXFC0275008125BN	27.5	25	34	159	81	103	56	0	27.5	SP.. 07T308	3008M25x6	80T08
DXFC0280008425BN	28	25	34	162	84	106	56	0.5	29	SP.. 090408	4015M35x9	80T15
DXFC0285008425BN	28.5	25	34	162	84	106	56	0.5	29.5	SP.. 090408	4015M35x9	80T15
DXFC0290008725BN	29	25	34	165	87	109	56	0.5	30	SP.. 090408	4015M35x9	80T15
DXFC0295008725BN	29.5	25	34	165	87	109	56	0.5	30.5	SP.. 090408	4015M35x9	80T15
DXFC0300009032BN	30	32	44	177	90	117	60	0.5	31	SP.. 090408	4015M35x9	80T15
DXFC0305009032BN	30.5	32	44	177	90	117	60	0.5	31.5	SP.. 090408	4015M35x9	80T15
DXFC0310009332BN	31	32	44	180	93	120	60	0.25	31.5	SP.. 090408	4015M35x9	80T15
DXFC0315009332BN	31.5	32	44	180	93	120	60	0.25	32	SP.. 090408	4015M35x9	80T15
DXFC0320009632BN	32	32	44	183	96	123	60	0	32	SP.. 090408	4015M35x9	80T15
DXFC0325009632BN	32.5	32	44	183	96	123	60	0	32.5	SP.. 090408	4015M35x9	80T15
DXFC0330009932BN	33	32	44	186	99	126	60	0	33	SP.. 090408	4015M35x9	80T15
DXFC0335009932BN	33.5	32	44	186	99	126	60	0	33.5	SP.. 090408	4015M35x9	80T15
DXFC0340010232BN	34	32	44	189	102	129	60	1.4	30.8	SP.. 110408	4015M4x11	80T15
DXFC0345010232BN	34.5	32	44	189	102	129	60	1.4	31.3	SP.. 110408	4015M4x11	80T15
DXFC0350010532BN	35	32	44	192	105	132	60	1.4	31.8	SP.. 110408	4015M4x11	80T15
DXFC0355010532BN	35.5	32	44	192	105	132	60	1.4	32.3	SP.. 110408	4015M4x11	80T15
DXFC0360010832BN	36	32	44	195	108	135	60	2.4	34.8	SP.. 110408	4015M4x11	80T15
DXFC0365010832BN	36.5	32	44	195	108	135	60	2.3	35.6	SP.. 110408	4015M4x11	80T15
DXFC0370011132BN	37	32	44	198	111	138	60	2.1	36.2	SP.. 110408	4015M4x11	80T15
DXFC0375011132BN	37.5	32	44	198	111	138	60	1.9	36.8	SP.. 110408	4015M4x11	80T15
DXFC0380011432BN	38	32	44	201	114	141	60	1.9	37.8	SP.. 110408	4015M4x11	80T15
DXFC0385011432BN	38.5	32	44	201	114	141	60	1.8	38.6	SP.. 110408	4015M4x11	80T15
DXFC0390011732BN	39	32	44	204	117	144	60	1.7	39.4	SP.. 110408	4015M4x11	80T15
DXFC0395011732BN	39.5	32	44	204	117	144	60	1.6	40.2	SP.. 110408	4015M4x11	80T15
DXFC0400012032BN	40	32	44	207	120	147	60	1.5	41	SP.. 110408	4015M4x11	80T15
DXFC0405012032BN	40.5	32	44	207	120	147	60	1.3	41.6	SP.. 110408	4015M4x11	80T15
DXFC0410012332BN	41	32	44	210	123	150	60	1	42	SP.. 110408	4015M4x11	80T15
DXFC0415012332BN	41.5	32	44	210	123	150	60	0.8	42.6	SP.. 110408	4015M4x11	80T15
DXFC0420012632BN	42	32	44	213	126	153	60	0.5	43	SP.. 140512	1020M5x11	80T20
DXFC0425012632BN	42.5	32	44	213	126	153	60	0.3	43.6	SP.. 140512	1020M5x11	80T20
DXFC0430012932BN	43	32	44	216	129	156	60	0	44	SP.. 140512	1020M5x11	80T20
DXFC0435012932BN	43.5	32	44	216	129	156	60	3.3	51.6	SP.. 140512	1020M5x11	80T20
DXFC0440013232BN	44	32	44	219	132	159	60	3	52	SP.. 140512	1020M5x11	80T20
DXFC0445013232BN	44.5	32	44	219	132	159	60	2.8	52.6	SP.. 140512	1020M5x11	80T20
DXFC0450013540BN	45	40	54	237	135	167	70	2.5	53	SP.. 140512	1020M5x11	80T20
DXFC0455013540BN	45.5	40	54	237	135	167	70	2.2	53.4	SP.. 140512	1020M5x11	80T20
DXFC0460013840BN	46	40	54	240	138	170	70	2	54	SP.. 140512	1020M5x11	80T20
DXFC0470014140BN	47	40	54	243	141	173	70	0.2	47.4	SP.. 140512	1020M5x11	80T20
DXFC0480014440BN	48	40	54	246	144	176	70	0	48	SP.. 140512	1020M5x11	80T20
DXFC0490014740BN	49	40	54	249	147	179	70	0	49	SP.. 140512	1020M5x11	80T20
DXFC0500015040BN	50	40	54	252	150	182	70	0	50	SP.. 140512	1020M5x11	80T20
DXFC0510015340BN	51	40	54	255	153	185	70	0	51	SP.. 140512	1020M5x11	80T20
DXFC0520015640BN	52	40	54	258	156	188	70	0	52	SP.. 140512	1020M5x11	80T20

INDEXABLE DRILLS WIERTŁA SKŁADANE

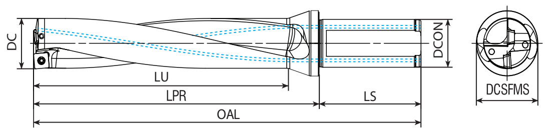
DXFC 4D



ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad] XMAX [mm]	MAX OFFSET [rad] DCMAX [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
DXFC0130005220BN	13	20	25	124	52	74	50	0.5	14	SP.. 050204	3006M2x4	80T06
DXFC0140005620BN	14	20	25	128	56	78	50	0.5	15	SP.. 050204	3006M2x4	80T06
DXFC0150006020BN	15	20	25	132	60	82	50	0.5	16	SP.. 050204	3006M2x4	80T06
DXFC0160006425BN	16	25	34	142	64	86	56	0.5	17	SP.. 060204	3007M22x5	80T07
DXFC0170006825BN	17	25	34	146	68	90	56	0.5	18	SP.. 060204	3007M22x5	80T07
DXFC0170006825BN	17	25	34	146	68	90	56	0.5	18.5	SP.. 060204	3007M22x5	80T07
DXFC0180007225BN	18	25	34	150	72	94	56	0.5	19	SP.. 060204	3007M22x5	80T07
DXFC0190007625BN	19	25	34	154	76	98	56	0.25	19.5	SP.. 060204	3007M22x5	80T07
DXFC0195007625BN	19.5	25	34	154	76	98	56	0.25	20	SP.. 060204	3007M22x5	80T07
DXFC0200008025BN	20	25	34	158	80	102	56	0	20	SP.. 060204	3007M22x5	80T07
DXFC0210008425BN	21	25	34	162	84	106	56	0	21	SP.. 060204	3007M22x5	80T07
DXFC0220008825BN	22	25	34	166	88	110	56	0.5	23	SP.. 07T308	3008M25x6	80T08
DXFC0230009225BN	23	25	34	170	92	114	56	0.5	24	SP.. 07T308	3008M25x6	80T08
DXFC0235009225BN	23.5	25	34	170	92	114	56	0.5	24.5	SP.. 07T308	3008M25x6	80T08
DXFC0240009625BN	24	25	34	174	96	118	56	0.5	25	SP.. 07T308	3008M25x6	80T08
DXFC0250010025BN	25	25	34	178	100	122	56	0.25	25.5	SP.. 07T308	3008M25x6	80T08
DXFC0260010425BN	26	25	34	182	104	126	56	0	26	SP.. 07T308	3008M25x6	80T08
DXFC0270010825BN	27	25	34	186	108	130	56	0	27	SP.. 07T308	3008M25x6	80T08
DXFC0275010825BN	27.5	25	34	186	108	130	56	0	27.5	SP.. 07T308	3008M25x6	80T08
DXFC0280011225BN	28	25	34	190	112	134	56	0.5	29	SP.. 090408	4015M35x9	80T15
DXFC0290011625BN	29	25	34	194	116	138	56	0.5	30	SP.. 090408	4015M35x9	80T15
DXFC0300012032BN	30	32	44	207	120	147	60	0.5	31	SP.. 090408	4015M35x9	80T15
DXFC0310012432BN	31	32	44	211	124	151	60	0.25	31.5	SP.. 090408	4015M35x9	80T15
DXFC0320012832BN	32	32	44	215	128	155	60	0	32	SP.. 090408	4015M35x9	80T15
DXFC0330013232BN	33	32	44	219	132	159	60	0	33	SP.. 090408	4015M35x9	80T15
DXFC0335013232BN	33.5	32	44	219	132	159	60	0	33.5	SP.. 090408	4015M35x9	80T15
DXFC0340013632BN	34	32	44	223	136	163	60	0.5	35	SP.. 110408	4015M4x11	80T15
DXFC0350014032BN	35	32	44	227	140	167	60	0.5	36	SP.. 110408	4015M4x11	80T15
DXFC0360014432BN	36	32	44	231	144	171	60	0.5	37	SP.. 110408	4015M4x11	80T15
DXFC0370014832BN	37	32	44	235	148	175	60	0.5	38	SP.. 110408	4015M4x11	80T15
DXFC0380015232BN	38	32	44	239	152	179	60	0.5	39	SP.. 110408	4015M4x11	80T15
DXFC0390015632BN	39	32	44	243	156	183	60	0.5	40	SP.. 110408	4015M4x11	80T15
DXFC0400016032BN	40	32	44	247	160	187	60	0.25	40.5	SP.. 110408	4015M4x11	80T15
DXFC0410016432BN	41	32	44	251	164	191	60	0	41	SP.. 110408	4015M4x11	80T15
DXFC0420016832BN	42	32	44	255	168	195	60	0.5	43	SP.. 140512	1020M5x11	80T20
DXFC0430017232BN	43	32	44	259	172	199	60	0.5	44	SP.. 140512	1020M5x11	80T20
DXFC0440017632BN	44	32	44	263	176	203	60	0.5	45	SP.. 140512	1020M5x11	80T20

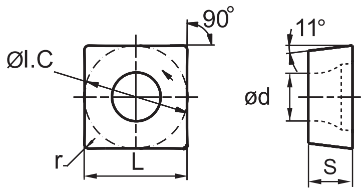
INDEXABLE DRILLS WIERTŁA SKŁADANE

DXFC 5D



ORDER CODE KOD ZAMÓWIENIA	DC	DCON	DCSFMS	OAL	LU	LPR	LS	MAX OFFSET [rad] XMAX [mm]	 DCMAX [mm]	INSERT SHAPE KSZTAŁT PŁYTKI	SCREW ŚRUBA	TORX KEY KLUCZ TORX
DXFC0140007020BN	14	20	25	142	70	92	50	0.5	15.00	SP. 050204	3006M2x4	80T06
DXFC0160008025BN	16	25	34	158	80	102	56	0.5	17.00	SP. 060204	3007M22x5	80T07
DXFC0170008525BN	17	25	34	163	85	107	56	0.5	18.00	SP. 060204	3007M22x5	80T07
DXFC0180009025BN	18	25	34	168	90	112	56	0.5	19.00	SP. 060204	3007M22x5	80T07
DXFC0190009525BN	19	25	34	173	95	117	56	0.25	19.50	SP. 060204	3007M22x5	80T07
DXFC0200010025BN	20	25	34	178	100	122	56	0	20.00	SP. 060204	3007M22x5	80T07
DXFC0210010525BN	21	25	34	183	105	127	56	0	21.00	SP. 060204	3007M22x5	80T07
DXFC0220011025BN	22	25	34	188	110	132	56	0.5	23.00	SP. 07T308	3008M25x6	80T08
DXFC0220011032BN	22	32	44	197	110	137	60	0.5	23.00	SP. 07T308	3008M25x6	80T08
DXFC0230011525BN	23	25	34	193	115	137	56	0.5	24.00	SP. 07T308	3008M25x6	80T08
DXFC0230011532BN	23	32	44	202	115	142	60	0.5	24.00	SP. 07T308	3008M25x6	80T08
DXFC0240012032BN	24	32	44	207	120	147	60	0.5	25.00	SP. 07T308	3008M25x6	80T08
DXFC0250012525BN	25	25	34	203	125	147	56	0.25	25.50	SP. 07T308	3008M25x6	80T08
DXFC0250012532BN	25	32	44	212	125	152	60	0.25	25.50	SP. 07T308	3008M25x6	80T08
DXFC0260013025BN	26	25	34	208	130	152	56	0	26.00	SP. 07T308	3008M25x6	80T08
DXFC0260013032BN	26	32	44	217	130	157	60	0	26.00	SP. 07T308	3008M25x6	80T08
DXFC0270013525BN	27	25	34	213	135	157	56	0	27.00	SP. 07T308	3008M25x6	80T08
DXFC0270013532BN	27	32	44	222	135	162	60	0	27.00	SP. 07T308	3008M25x6	80T08
DXFC0280014032BN	28	32	44	227	140	167	60	0.5	29.00	SP.. 090408	4015M35x9	80T15
DXFC0290014532BN	29	32	44	232	145	172	60	0.5	30.00	SP.. 090408	4015M35x9	80T15
DXFC0300015032BN	30	32	44	237	150	177	60	0.5	31.00	SP.. 090408	4015M35x9	80T15
DXFC0310015532BN	31	32	44	242	155	182	60	0.25	31.50	SP.. 090408	4015M35x9	80T15
DXFC0320016032BN	32	32	44	247	160	187	60	0	32.00	SP.. 090408	4015M35x9	80T15
DXFC0330016532BN	33	32	44	252	165	192	60	0	33.00	SP.. 090408	4015M35x9	80T15

SP



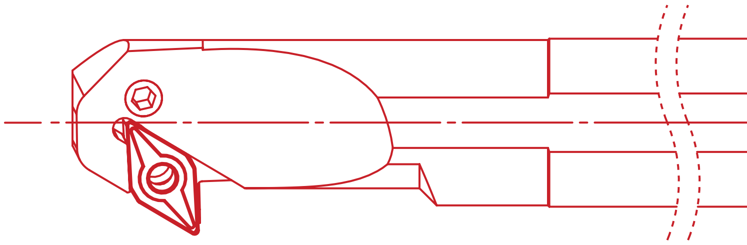
	P1000	P3000	P5000	P6000	P7000
P		◒			
M		◒			
K		◒			
N					
S					
H					
	PVD		CVD		

● Ideal machining conditions
Idealne warunki obróbki
◒ Normal machining conditions
Normalne warunki obróbki
✚ Unfavourable machining conditions
Niekorzystne warunki obróbki

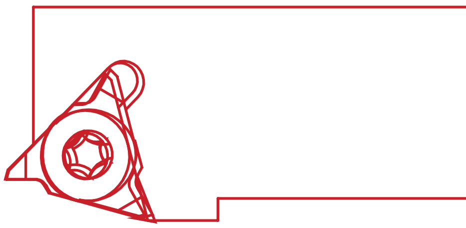
INSERT SHAPE KSZTAŁT PŁYTKI	DESCRIPTION OZNACZENIE	r	a_p	f_z	P1000	P3000	P5000	P6000	P7000
REGULAR FEED NORMALNY POSUW	SPMG050204CM	0.40	-	0,04-0,09		●			
	SPMG060204CM	0.40	-	0,04-0,10		●			
	SPMG07T308CM	0.80	-	0,05-0,11		●			
	SPMG090408CM	0.80	-	0,06-0,12		●			
	SPMG110408CM	0.80	-	0,06-0,15		●			
	SPMG140512CM	1.20	-	0,12-0,18		●			
HIGH FEED WYSOKI POSUW	SPMG050204CR	0.40	-	0,07-0,14		●			
	SPMG060204CR	0.40	-	0,10-0,16		●			
	SPMG07T308CR	0.80	-	0,16-0,22		●			
	SPMG090408CR	0.80	-	0,15-0,22		●			
	SPMG110408CR	0.80	-	0,18-0,26		●			

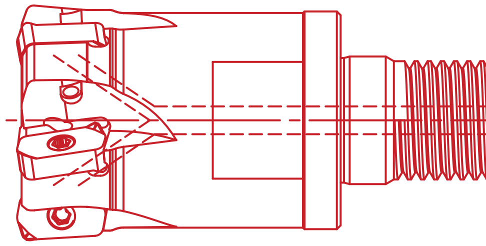
SPMG		L	I.C.	S	d
05	02	5	5	2.38	2.2
06	02	6	6	2.38	2.6
07	T3	7.97	7.97	3.97	2.8
09	04	9.8	9.8	4.76	4.2
11	04	11.5	11.5	4.76	4.4
14	05	14.3	14.3	5.2	5.75

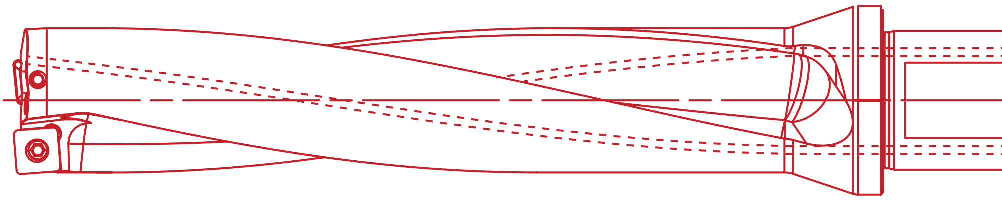
● For P, M, K materials
● For K material only



CUTTING DATA
PARAMETRY SKRAWANIA







TURNING CUTTING DATA PARAMETRY SKRAWANIADLA TOCZENIA

ORDER CODE KOD ZAMÓWIENIA	INSERT SHAPE KSZTAŁT PŁYTKI	P STEEL STAL						M STAINLESS STEEL STAL NIERDZENA						K CAST IRON ŻELIWO					
		Vc MIN	Vc MAX	Fz MIN	Fz MAX	Ap MIN	Ap MAX	Vc MIN	Vc MAX	Fz MIN	Fz MAX	Ap MIN	Ap MAX	Vc MIN	Vc MAX	Fz MIN	Fz MAX	Ap MIN	Ap MAX
T0000001	CNMA120408P7000	-	-	-	-	-	-	-	-	-	-	-	-	140,00	300,00	0,15	0,60	0,20	8,00
T0000002	CNMA120412P7000	-	-	-	-	-	-	-	-	-	-	-	-	140,00	300,00	0,15	0,60	0,40	8,00
T0000004	CNMG120408CSP6000	120,00	200,00	0,24	0,45	0,50	7,00	140,00	210,00	0,24	0,45	0,50	7,00	140,00	230,00	0,24	0,45	0,50	7,00
T0000005	CNMG120408CSP7000	140,00	220,00	0,24	0,45	0,50	7,00	140,00	210,00	0,24	0,45	0,50	7,00	140,00	220,00	0,24	0,45	0,50	7,00
T0000006	CNMG120412CSP6000	140,00	220,00	0,24	0,45	0,80	7,00	140,00	210,00	0,24	0,45	0,80	7,00	140,00	220,00	0,24	0,45	0,80	7,00
T0000007	CNMG120412CSP7000	140,00	220,00	0,24	0,45	0,80	7,00	140,00	210,00	0,24	0,45	0,80	7,00	140,00	220,00	0,24	0,45	0,80	7,00
T0000009	DNMG150612CSP6000	120,00	240,00	0,18	0,50	0,60	5,50	140,00	240,00	0,20	0,50	0,60	5,50	120,00	250,00	0,18	0,50	0,60	5,50
T0000011	TNMA160408P7000	-	-	-	-	-	-	-	-	-	-	-	-	150,00	230,00	0,15	0,60	0,40	7,00
T0000012	TNMA160412P7000	-	-	-	-	-	-	-	-	-	-	-	-	150,00	230,00	0,15	0,60	0,60	7,00
T0000013	TNMG160408CSP6000	120,00	240,00	0,18	0,50	0,60	5,50	140,00	240,00	0,20	0,50	0,60	5,50	120,00	250,00	0,18	0,50	0,60	5,50
T0000015	TNMG160412CSP6000	120,00	240,00	0,18	0,50	0,80	5,50	140,00	240,00	0,20	0,50	0,80	5,50	120,00	250,00	0,18	0,50	0,80	5,50
T0000017	TNUX160404RCSP1000	80,00	180,00	0,10	0,20	0,30	2,50	100,00	180,00	0,10	0,20	0,30	2,50	80,00	180,00	0,10	0,20	0,30	2,50
T0000019	TNUX160408RCSP1000	80,00	180,00	0,14	0,24	0,40	2,50	100,00	180,00	0,14	0,24	0,40	2,50	80,00	180,00	0,14	0,24	0,40	2,50
T0000021	WNMA080408P7000	-	-	-	-	-	-	-	-	-	-	-	-	140,00	300,00	0,15	0,60	0,20	8,00
T0000022	WNMA080412P7000	-	-	-	-	-	-	-	-	-	-	-	-	140,00	300,00	0,15	0,60	0,40	8,00
T0000024	WNMG080408CSP6000	140,00	220,00	0,24	0,45	0,50	7,00	140,00	210,00	0,24	0,45	0,50	7,00	140,00	220,00	0,24	0,45	0,50	7,00
T0000025	WNMG080408CSP7000	140,00	220,00	0,24	0,45	0,50	7,00	140,00	210,00	0,24	0,45	0,50	7,00	140,00	220,00	0,24	0,45	0,50	7,00
T0000026	WNMG080412CSP6000	140,00	220,00	0,24	0,45	0,80	7,00	140,00	210,00	0,24	0,45	0,80	7,00	140,00	220,00	0,24	0,45	0,80	7,00
T0000027	WNMG080412CSP7000	140,00	220,00	0,24	0,45	0,80	7,00	140,00	210,00	0,24	0,45	0,80	7,00	140,00	220,00	0,24	0,45	0,80	7,00
T0000029	CNMG120404CFP6000	120,00	280,00	0,10	0,40	0,30	1,50	140,00	240,00	0,10	0,40	0,30	1,50	160,00	270,00	0,10	0,40	0,30	1,50
T0000031	CNMG120408CFP6000	120,00	280,00	0,10	0,40	0,40	1,50	140,00	240,00	0,10	0,40	0,40	1,50	160,00	270,00	0,10	0,40	0,40	1,50
T0000032	DNMG150608CFP6000	120,00	240,00	0,10	0,40	0,30	1,50	140,00	240,00	0,10	0,40	0,30	1,50	160,00	250,00	0,10	0,40	0,30	1,50
T0000033	TNMG160404CFP1000	80,00	180,00	0,10	0,40	0,30	2,50	100,00	200,00	0,10	0,40	0,30	2,50	100,00	180,00	0,10	0,40	0,30	2,50
T0000034	TNMG160404CFP6000	120,00	240,00	0,10	0,40	0,30	1,50	140,00	240,00	0,10	0,40	0,30	1,50	160,00	250,00	0,10	0,40	0,30	1,50
T0000035	TNMG160408CFP1000	80,00	180,00	0,10	0,40	0,40	2,50	100,00	200,00	0,10	0,40	0,40	2,50	100,00	180,00	0,10	0,40	0,40	2,50
T0000036	TNMG160408CFP6000	120,00	240,00	0,10	0,40	0,40	1,50	140,00	240,00	0,10	0,40	0,40	1,50	160,00	250,00	0,10	0,40	0,40	1,50
T0000037	VNMG160404CFP6000	140,00	250,00	0,08	0,30	0,25	1,50	160,00	230,00	0,08	0,30	0,25	1,50	140,00	250,00	0,08	0,30	0,25	1,50
T0000040	WNMG080404CFP6000	120,00	280,00	0,10	0,40	0,30	1,50	140,00	240,00	0,10	0,40	0,30	1,50	160,00	270,00	0,10	0,40	0,30	1,50
T0000042	WNMG080408CFP6000	120,00	280,00	0,10	0,40	0,40	1,50	140,00	240,00	0,10	0,40	0,40	1,50	160,00	270,00	0,10	0,40	0,40	1,50
T0000045	CNMG120408CMP6000	120,00	280,00	0,14	0,30	0,40	5,50	140,00	240,00	0,14	0,30	0,40	5,50	160,00	270,00	0,14	0,30	0,40	5,50
T0000048	CNMG120412CMP6000	120,00	280,00	0,14	0,30	0,70	5,50	140,00	240,00	0,14	0,30	0,70	5,50	160,00	270,00	0,14	0,30	0,70	5,50
T0000051	DNMG150608CMP6000	120,00	240,00	0,14	0,42	0,50	5,00	140,00	240,00	0,16	0,42	0,50	5,00	120,00	250,00	0,14	0,42	0,50	5,00
T0000052	TNMG160404CMP1000	80,00	180,00	0,14	0,42	0,40	5,00	100,00	200,00	0,14	0,42	0,40	5,00	100,00	180,00	0,14	0,42	0,40	5,00
T0000053	TNMG160408CMP1000	80,00	180,00	0,14	0,42	0,50	5,00	100,00	200,00	0,16	0,42	0,50	5,00	100,00	180,00	0,14	0,42	0,50	5,00
T0000054	TNMG160408CMP6000	120,00	240,00	0,14	0,42	0,50	5,00	140,00	240,00	0,16	0,42	0,50	5,00	120,00	250,00	0,14	0,42	0,50	5,00
T0000057	VNMG160408CMP6000	140,00	250,00	0,08	0,30	0,35	1,50	160,00	230,00	0,08	0,30	0,35	1,50	140,00	250,00	0,08	0,30	0,35	1,50
T0000062	WNMG080408CMP6000	120,00	280,00	0,14	0,30	0,40	5,50	140,00	240,00	0,14	0,30	0,40	5,50	160,00	270,00	0,14	0,30	0,40	5,50
T0000065	CNMG120408CRP6000	140,00	220,00	0,34	0,50	0,70	7,00	140,00	210,00	0,34	0,50	0,70	7,00	140,00	220,00	0,34	0,50	0,70	7,00
T0000068	CNMG120412CRP6000	140,00	220,00	0,34	0,50	0,10	7,00	140,00	210,00	0,34	0,50	0,10	7,00	140,00	220,00	0,34	0,50	0,10	7,00
T0000070	TNMG160408CRP6000	120,00	240,00	0,34	0,55	0,70	6,00	140,00	240,00	0,34	0,55	0,70	6,00	120,00	250,00	0,34	0,55	0,70	6,00
T0000071	TNMG160412CRP6000	120,00	240,00	0,34	0,55	0,70	6,00	140,00	240,00	0,34	0,55	0,70	6,00	120,00	250,00	0,34	0,55	0,70	6,00
T0000073	WNMG080408CRP6000	140,00	220,00	0,34	0,50	0,70	7,00	140,00	210,00	0,34	0,50	0,70	7,00	140,00	220,00	0,34	0,50	0,70	7,00
T0000076	WNMG080412CRP6000	140,00	220,00	0,34	0,50	0,10	7,00	140,00	210,00	0,34	0,50	0,10	7,00	140,00	220,00	0,34	0,50	0,10	7,00
T0000086	CCMT060204CMP1000	80,00	180,00	0,12	0,18	0,30	1,40	100,00	200,00	0,12	0,18	0,30	1,80	100,00	180,00	0,12	0,18	0,30	2,10
T0000088	CCMT09T304CMP1000	80,00	180,00	0,14	0,22	0,30	2,00	100,00	200,00	0,14	0,22	0,30	2,50	100,00	180,00	0,14	0,22	0,30	3,00
T0000089	CCMT09T304CMP6000	120,00	210,00	0,14	0,22	0,30	2,00	170,00	270,00	0,14	0,22	0,30	2,50	160,00	230,00	0,14	0,22	0,30	3,00
T0000090	CCMT09T308CMP1000	80,00	180,00	0,14	0,22	0,50	3,20	100,00	200,00	0,14	0,22	0,50	4,00	100,00	180,00	0,14	0,22	0,50	4,00
T0000091	CCMT09T308CMP6000	120,00	210,00	0,14	0,22	0,50	3,20	170,00	270,00	0,14	0,22	0,50	4,00	160,00	230,00	0,14	0,22	0,50	4,00
T0000092	CCMT120408CMP1000	80,00	180,00	0,18	0,30	0,50	4,00	100,00	200,00	0,18	0,30	0,50	5,00	100,00	180,00	0,18	0,30	0,50	5,00
T0000093	CCMT120408CMP6000	120,00	210,00	0,18	0,30	0,50	4,00	170,00	270,00	0,18	0,30	0,50	5,00	160,00	230,00	0,18	0,30	0,50	5,00
T0000094	DCMT070204CMP1000	80,00	180,00	0,08	0,15	0,30	1,40	100,00	200,00	0,06	0,15	0,30	1,80	100,00	180,00	0,06	0,17	0,30	2,10
T0000096	DCMT11T304CMP1000	80,00	180,00	0,10	0,18	0,30	2,00	100,00	200,00	0,08	0,18	0,30	2,50	100,00	180,00	0,08	0,02	0,30	3,00
T0000097	DCMT11T304CMP6000	120,00	210,00	0,10	0,18	0,30	2,00	170,00	270,00	0,08	0,18	0,30	2,50	160,00	230,00	0,08	0,02	0,30	3,00
T0000098	DCMT11T308CMP1000	80,00	180,00	0,10	0,18	0,30	2,00	100,00	200,00	0,08	0,18	0,30	2,50	100,00	180,00	0,08	0,02	0,30	3,00
T0000099	DCMT11T308CMP6000	120,00	210,00	0,10	0,18	0,30	2,00	170,00	270,00	0,08	0,18	0,30	2,50	160,00	230,00	0,08	0,02	0,30	3,00
T0000100	TCMT110204CMP1000	80,00	180,00	0,10	0,15	0,30	1,40	100,00	200,00	0,12	0,15	0,30	1,80	100,00	180,00	0,08	0,17	0,30	2,10
T0000102	TCMT16T304CMP1000	80,00	180,00	0,10	0,18	0,30	2,00	100,00	200,00	0,08	0,18	0,30	2,50	100,00	180,00	0,08	0,02	0,30	3,00
T0000103	TCMT16T304CMP6000	120,00	210,00	0,10	0,18	0,30	2,00	170,00	270,00	0,08	0,18	0,30	2,50	160,00	230,00	0,08	0,02	0,30	3,00
T0000104	TCMT16T308CMP1000	80,00	180,00	0,12	0,24	0,50	4,00	100,00	200,00	0,14	0,24	0,50	5,00	100,00	180,00	0,12	0,35	0,50	5,00
T0000105	TCMT16T308CMP6000	120,00	210,00	0,12	0,24	0,50	4,00	170,00	270,00	0,14	0,24	0,50	5,00	160,00	230,00	0,12	0,35	0,50	5,00
T0000106	VBMT160404CMP1000	80,00	180,00	0,10	0,18	0,30	2,00	100,00	200,00	0,08	0,18	0,30	2,50	80,00	180,00	0,08	0,20	0,30	3,00
T0000108	VBMT160408CMP1000	80,00	180,00	0,16	0,32	0,50	2,80	100,00	200,00	0,18	0,32	0,50	3,50	80,00	180,00	0,14	0,48	0,50	3,50
T0000110	CNMG120404CFP1000	120,00	260,00	0,10	0,40	0,40	1,50	140,00	230,00	0,10	0,40	0,40	1,50	150,00	250,00	0,10	0,40	0,40	1,50
T0000111	CNMG120408CMP1000	120,00	260,00	0,14	0,30	0,40	5,50	140,00	230,00	0,14	0,30	0,40	5,50	150,00	250,00	0,14	0,30	0,40	5,50

THREAD TURNING CUTTING DATA PARAMETRY SKRAWANIADLA TOCZENIA GWINTÓW

	MATERIAL MATERIAŁ	HARDNESS HB TWARDOŚĆ HB	COATED POKRYWANE		UNCOATED NIEPOKRYWANE
			P508	P509	P511
			CUTTING SPEED VC M/MIN PRĘDKOŚĆ SKRAWANIA VC M/MIN		
P STEEL STAL	NON-ALLOY STEEL FREE MACHINING STEEL STAL NIESTOPOWA STALA AUTOMATOWA	130	120-200	110-180	-
	LOW CARBON ALLOY STEEL STAL STOPOWA NISKOWĘGLOWA	200	110-180	100-170	-
	HIGH CARBON ALLOY STEEL STAL STOPOWA WYSOKOWĘGLOWA	240	100-170	90-160	-
	TOOL STEEL CAST STEEL STAL NARZĘDZIOWA STALIWO	270	70-120	60-110	-
	HEAT TREATED STEEL STAL ULEPSZANA CIEPLNIE	400	50-90	50-90	-
M STAINLESS STEEL STAL NIERDZENA	300 STAINLESS STEEL STAL NIERDZEWNA KWASOODPORNA: (303,304,316)	200	70-140	70-130	-
	400 STAINLESS STEEL STAL NIERDZEWNA KWASOODPORNA: (420, 440)	240	80-120	80-130	-
	17-4 PH, 15-5 PH, 13-8MO PH	400	50-110	50-110	-
K CAST IRON ŻELIWO	GREY CAST IRON ŻELIWO SZARE	190	70-150	80-150	80-120
	NODULAR CAST IRON ŻELIWO SFEROIDALNE	180	100-140	90-130	90-130
	MALLEABLE CAST IRON ŻELIWO CIĄGLIWE	240	90-150	90-140	80-130
N ALUMINIUM ALUMINIUM	WROUGHT ALUMINUM ALUMINIUM CZYSTE: (2024, 6061, 7075...)	80	100-400	100-400	100-300
	CAST ALUMINUM ALUMINIUM ODLEWNICZE	90	150-400	150-400	100-250
	COPPER ALLOYS: BRASS, BRONZE, COPPER SILICON STOPY MIEDZI: MOSIĄDZ, BRĄZ, MIEDŹ KRZEMOWA	100	80-180	80-180	60-150
	NON METALIC: RUBBER, POLYPROPYLENE, THERMOPLASTICS (PVC), THERMOSETTING PLASTICS (FIBERGLASS), POLYAMIDES NIEMETALE: KAUCZUK, POLPROPYLEN, TWORZYWA TERMOPLASTYCZNE (WŁÓKNA SZKLANE)	-	200-500	200-500	200-500
S HEAT RESISTENT/ TITANIUM ALLOYS ODPORNE NA CIEPŁO/ STOPY TYTANU	PURE TITANIUM TYTAN CZYSTY: 99.0TI	-	100-150	100-150	70-130
	ALPHA ALLOYS STOPY -A:TI 5AL2.5SN	-	40-60	40-60	30-50
	BETA ALLOYS STOPY -B: TI 13V11CR3AL	-	30-50	30-50	25-40
	ALPHA-BETA ALLOYS STOPY A-B: TI 6AL4V	-	30-50	30-50	25-40
	COBALT BASE ALLOYS: STELLITE STOPY KOBALTU: STELLIT	350	20-40	20-40	20-30
	NIKEL BASE ALLOYS: INCONEL, HASTELLOY, WASPALLOY, KOVAR STOPY NIKLU: INKONEL, HASTALLOY, WASPALOY, KOVAR (FE-NI-CO)	300	20-40	20-35	20-40
	HIGH TEMPERATURE ALLOYS: IRON BASED:INCOLOY STOP ŻELAZA ŻAROWYTRZYMAŁY: INCOLOY	270	30-60	30-50	-
H HARDENED MATERIALS STAL HARTOWANA	HARDENED STEEL STALE HARTOWANE	56 HRC	30-50	25-45	-
	HARDENED CAST IRON ŻELIWO UTWARDZONE	50 HRC	25-35	25-40	-

THREAD TURNING CUTTING DATA PARAMETRY SKRAWANIA DLA TOCZENIA GWINTÓW

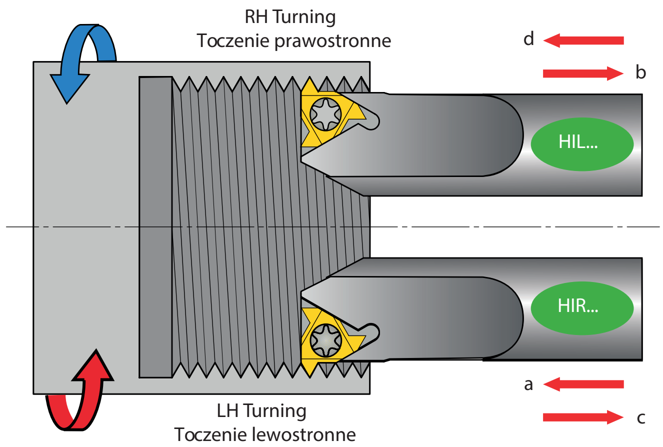
P STEEL STAL				M STAINLESS STEEL STAL NIERDZENA				K CAST IRON ŻELIWO				N ALUMINIUM ALUMINIUM				S HEAT RESISTENT/ TITANIUM ALLOYS ODPORNE NA CIEPŁO/ STOPY TYTANU				H HARDENED MATERIALS STAL HARTOWANA			
P10	P20	P30	P40	M10	M20	M30	M40	K10	K20	K30	K40	N10	N20	N30	N40	S10	S20	S30	S40	H10	H20	H30	H40
	P508	P508			P508	P508			P508	P508		P508	P508	P508		P508	P508			P508	P508	P508	
	P509	P509			P509	P509	P509		P509	P509	P509		P509	P509	P509		P509	P509			P509	P509	P509
									P511	P511	P511		P511	P511	P511		P511	P511	P511				

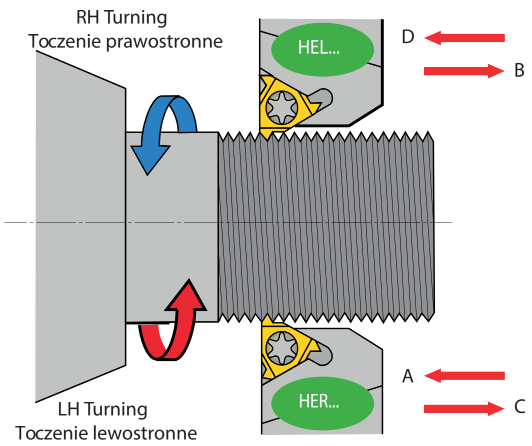
GRADE GATUNEK	DESCRIPTION OPIS	APPLICATION ISO ZASTOSOWANIE WG ISO
P508	AN ADVANCED PVD COATED GRADE OVER A TOUGH WEAR-RESISTANT SUBMICRON SUB-STRATE FOR GENERAL PURPOSE MACHINING OF STEEL, STAINLESS STEEL, SUPERALLOYS. GATUNEK WĘGLIKA Z ZAAWANSOWANĄ POWŁOKĄ PVD NA SUB-MIKRONOWYM PODŁOŻU O DUŻEJ ODPORNOŚCI NA OBCIĄŻENIA DYNAMICZNE DO OBRÓBKI OGÓLNEJ STALI, STALI NIERDZEWNEJ, SUPERSTOPÓW.	P20-P30 M20-M30 K20-K30 N10-N30 S10-S20 H10-H30
P509	SPECIAL MULTILAYER PVD COATING WITH A TOUGH, VERY FINE GRAIN SUBSTRATE, FOR MA- CHINING MOST STEEL, STAINLESS STEELS, CAST IRON, NON-FERROUS MATERIALS AND SUPER ALLOYS. TWARDY GATUNEK O BARDZO MAŁYM ZIARNIE ZE SPECJALNĄ WIELOWARSTWOWĄ POWŁOKĄ PVD DO OBRÓBKI WIĘKSZOŚCI STALI, STALI NIERDZEWNYCH, ŻELIWA, METALI NIEŻELAZNYCH ORAZ SUPERSTOPÓW.	P20-P30 M20-M40 K20-K40 N20-N30 S20-S30 H20-H40
P511	UNCOATED GRADE , FOR MACHINING CAST IRON, NON-FERROUS MATERIALS ALUMINUM AND SUPER ALLOYS. GATUNEK BEZ POKRYCIA, DO OBRÓBKI ŻELIWA, MATERIAŁÓW NIEMETALOWYCH, ALUMI- NIUM I SUPER-STOPÓW.	K20-K40 N20-N40 S20-S40

HELIX ANGLE ANVILS SELECTION
DOBÓR PŁYTKI PODPOROWEJ W ZALEŻNOŚCI OD KĄTA POCHYLENIA LINII ŚRUBOWEJ

L L	HOLDER TYPE TYP UCHWYTU	THREAD HELIX ANGLE KĄT HELISY GWINTU							
		4.5	3.5	2.5	1.5	0.5	0	-0.5	-1.5
16	ER/IL	ES16+4.5	ES16+3.5	ES16+2.5	ES16	ES16+0.5	ES16-0	ES16-0.5	ES16-1.5
	IR/EL	IS16+4.5	IS16+3.5	IS16+2.5	IS16	IS16+0.5	IS16-0	IS16-0.5	IS16-1.5
22	ER/IL	ES22+4.5	ES22+3.5	ES22+2.5	ES22	ES22+0.5	ES22-0	ES22-0.5	ES22-1.5
	IR/EL	IS22+4.5	IS22+3.5	IS22+2.5	IS22	IS22+0.5	IS22-0	IS22-0.5	IS22-1.5
27	ER/IL	ES27+4.5	ES27+3.5	ES27+2.5	ES27	ES27+0.5	ES27-0	ES27-0.5	ES27-1.5
	IR/EL	IS27+4.5	IS27+3.5	IS27+2.5	IS27	IS27+0.5	IS27-0	IS27-0.5	IS27-1.5

THREAD TURNING CUTTING DATA PARAMETRY SKRAWANIADLA TOCZENIA GWINTÓW



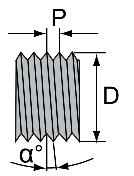


METHOD METODA	THREAD TYPE TYP GWINTU	TURNING TOCZENIE	INSERT & HOLDER TYPE TYP PŁYTKI I OPRAWKI
A, a	R.H.	R.H.	R.H.
B, b	R.H.	L.H.	L.H.
C, c	L.H.	R.H.	R.H.
D, d	L.H.	L.H.	L.H.

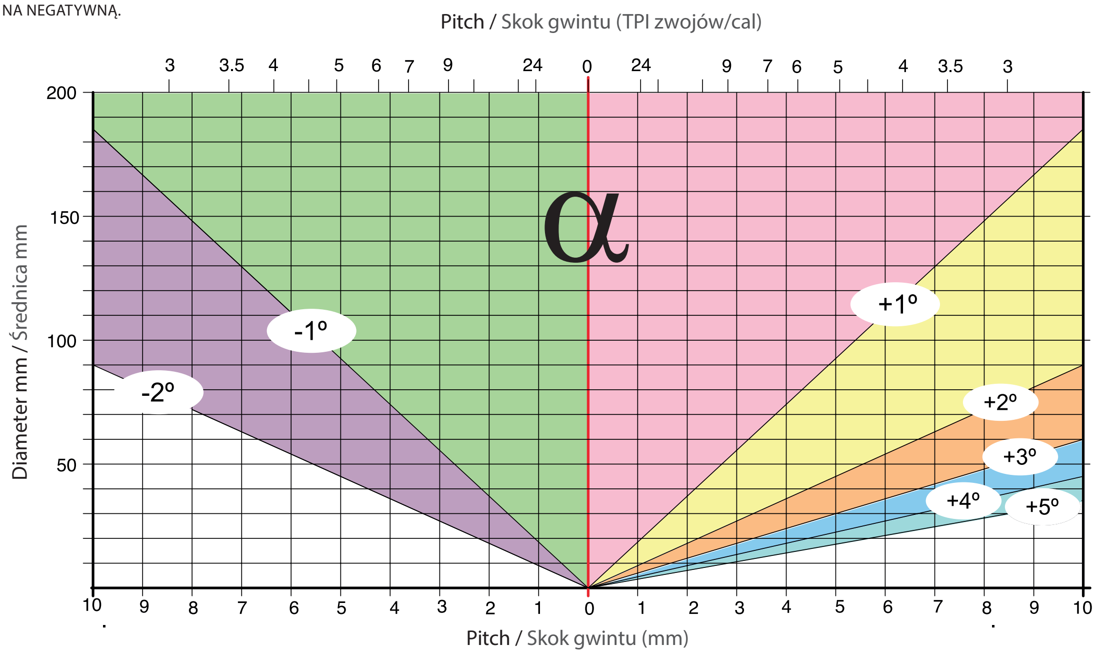
THREAD HELIX ANGLE KĄT POCHYLENIA LINII ŚRUBOWEJ

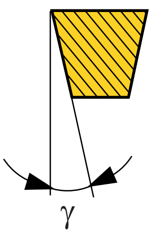
ALL STANDARD TOOLHOLDERS MADE WITH 1.5° HELIX ANGLE. IF THE HELIX ANGLE Λ<1° OR Λ>2° THEN THE ANVIL MUST CHANGE. IN CASE OF METHOD B, C, B, C THE ANVIL MUST CHANGE TO NEGATIVE ANVIL.

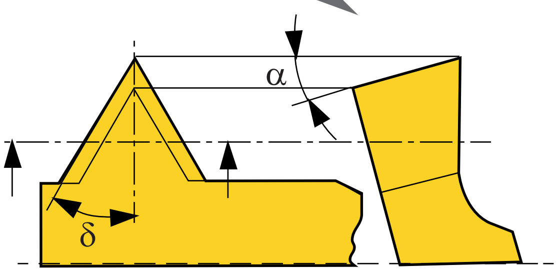
WSZYSTKIE STANDARDOWE OPRAWKI WYKONANE Z KĄTEM POCHYLENIA LINII ŚRUBOWEJ 1.5°. KIEDY KĄT POCHYLENIA LINII ŚRUBOWEJ Λ<1° LUB Λ>2° W PRZYPADKU METODY B, C, B, C, PŁYTKA PODPOROWA MUSI BYĆ ZAMIENIONA - NA NEGATYWNĄ.



tgα = P / ½ x D







FLANK CLEARANCE ANGLE
BOCZNY KĄT PRZYŁOŻENIA KRAWĘDZI SKRAWAJĄCEJ (γ)

γ = tg– 1[tgα x tgδ]

Insert clearance angle
Kąt przyłożenia płytki:
α = 10° for external toolholders
do oprawek zewnętrznych
α = 15° for internal toolholders
do oprawek wewnętrznych

THREAD TURNING TROUBLESHOOTING ELIMINOWANIE PROBLEMÓW TOCZENIA GWINTÓW

ISSUE PROBLEM	CAUSE PRZYPADEK	SOLUTION ROZWIĄZANIE
PLASTIC DEFORMATION DEFORMACJA PLASTYCZNA	WRONG CARBIDE GRADE, INSUFFICIENT COOLANT, CUTTING SPEED TOO HIGH, CUTTING RESISTANCE HIGH NIEODPOWIEDNI GATUNEK WĘGLIKA, NIEDOSTATECZNE CHŁODZENIE, ZBYT DUŻA PRĘDKOŚĆ SKRAWANIA, WYSOKIE OPORY SKRAWANIA	CHANGE GRADE, CHECK COOLANT FLOW, DECREASE CUT-TING SPEED, INCREASE THE NUMBER OF PASSES ZMIENIĆ GATUNEK WĘGLIKA, SPRAWDZIĆ PRZEPŁYW CHŁODZIWA, ZMNIEJSZYĆ PRĘDKOŚĆ SKRAWANIA, ZWIĘKSZYĆ ILOŚĆ PRZEJŚĆ ROBOCZYCH
FRACTURE AND CHIPPING PĘKANIE I WYKRUSZANIE	UNSTABLE CONDITIONS, CUTTING SPEED TOO HIGH, DEPTH OF CUT, LARGE POOR CHIP CONTROL, WRONG CARBIDE GRADE, INCORRECT CENTER HIGH, WRONG ANVIL NIESTABILNE WARUNKI SKRAWANIA, ZBYT DUŻA PRĘDKOŚĆ, DUŻA GŁĘBOKOŚĆ SKRAWANIA, SŁABA KONTROLA SPŁYWU WIÓRÓW, ŹLE DO- BRANY GATUNEK WĘGLIKA, ŹLE WYCENTROWANY KIEŁ, ZŁA PODPORA PŁYTKI	CHECK TOOL AND WORKPIECE CLAMPING AND STABILITY, DE-CREASE CUTTING SPEED, INCREASE THE NUMBER OF PASSES, CHANGE TO FLANK FEED, CHANGE GRADE, CHECK CENTER HIGH, CHECK HELIX ANGLE SPRAWDZIĆ MOCOWANIE I STABILNOŚĆ NARZĘDZIA I CZĘŚCI OBRABI- ANEJ, ZMNIEJSZYĆ PRĘDKOŚĆ SKRAWANIA, ZWIĘKSZYĆ ILOŚĆ PRZEJŚĆ ROBOCZYCH, ZMIENIĆ WARTOŚĆ POSUW NA BOK/FLANKĘ GWINTU, ZMIENIĆ GATUNEK WĘGLI-KA, SPRAWDZIĆ WYSOKOŚĆ KŁA, SPRAWDZIĆ KĄT POCHYLENIA LINII ŚRUBOWEJ GWINTU
BUILT UP EDGE NAROST	INCORRECT CUTTING SPEED, WRONG CARBIDE GRADE, INSUFFICIENT COOLANT NIEWŁAŚCIWA PRĘDKOŚĆ SKRAWANIA, NIEODPOWIEDNI GATUNEK WĘGLIKA, NIEWYSTARCZAJĄCE CHŁODZENIE	INCREASE CUTTING SPEED, CHANGE GRADE, INCREASE COOLANT FLOW ZWIĘKSZYĆ PRĘDKOŚĆ SKRAWANIA, ZMIENIĆ GATUNEK WĘGLIKA, ZWIĘKSZYĆ PRZEPŁYW CHŁODZIWA
VIBRATIONS WIBRACJE	CUTTING SPEED TOO HIGH INCORRECT TOOL AND WORK-PIECE INSTALLATION LARGE DEPTH OF CUT PRĘDKOŚĆ SKRAWANIA ZA DUŻA, NIEWŁAŚCIWE NARZĘDZIE I ZAMO- COWANIE CZĘŚCI OBRABIANEJ, DUŻA GŁĘBOKOŚĆ SKRAWANIA	CHANGE CUTTING SPEED CHECK CENTER HIGH AND CLAMP-ING INCREASE NUMBER OF PASSES ZMIENIĆ PRĘDKOŚĆ SKRAWANIA, SPRAWDZIĆ WYSOKOŚĆ KŁA I MOCOWANIE CZĘŚCI, ZWIĘKSZYĆ ILOŚĆ PRZEJŚĆ ROBOCZYCH
ASYMMETRIC WEAR OF THREAD FLANKS ASYMETRYCZNE ZUŻYCIE BOKÓW PŁYTKI	INCORRECT ANVIL NIEWŁAŚCIWA PODPORA PŁYTKI	CALCULATE HELIX ANGLE AND SELECT AN APPROPRIATE ANVIL OBLICZYĆ KĄT POCHYLENIA LINII ŚRUBOWEJ I DOBRAĆ ODPOWIEDNIĄ PODPORĘ

EXTERNAL ISO METRIC RECOMMENDED NUMBER OF PASSES
ZEWNĘTRZNY GWINT METRYCZNY ISO ZALECANA LICZBA PRZEJŚĆ

NO NR	PITCH MM SKOK MM															
	6	5.5	5	4.5	4	3.5	3	2.5	2	1.75	1.5	1.25	1	0.75	0.5	0.35
1	0.45	0.43	0.42	0.39	0.34	0.34	0.27	0.26	0.24	0.23	0.23	0.20	0.19	0.17	0.11	0.1
2	0.37	0.36	0.37	0.33	0.30	0.31	0.23	0.22	0.23	0.21	0.21	0.18	0.16	0.15	0.09	0.08
3	0.33	0.31	0.31	0.29	0.25	0.24	0.20	0.20	0.19	0.16	0.18	0.14	0.13	0.11	0.08	0.06
4	0.28	0.27	0.28	0.25	0.21	0.20	0.18	0.17	0.17	0.14	0.16	0.12	0.10	0.06	0.06	-
5	0.26	0.25	0.25	0.23	0.19	0.19	0.17	0.16	0.15	0.12	0.11	0.10	0.06	-	-	-
6	0.24	0.23	0.23	0.20	0.18	0.17	0.16	0.14	0.12	0.10	0.06	0.06	-	-	-	-
7	0.23	0.22	0.21	0.19	0.16	0.16	0.15	0.13	0.10	0.08	-	-	-	-	-	-
8	0.22	0.20	0.20	0.18	0.15	0.15	0.13	0.12	0.06	0.06	-	-	-	-	-	-
9	0.20	0.19	0.19	0.16	0.15	0.14	0.12	0.10	-	-	-	-	-	-	-	-
10	0.19	0.18	0.18	0.15	0.14	0.12	0.11	0.06	-	-	-	-	-	-	-	-
11	0.18	0.17	0.16	0.14	0.13	0.10	0.09	-	-	-	-	-	-	-	-	-
12	0.17	0.16	0.14	0.12	0.12	0.06	0.06	-	-	-	-	-	-	-	-	-
13	0.16	0.15	0.10	0.10	0.10	-	-	-	-	-	-	-	-	-	-	-
14	0.14	0.12	0.06	0.06	0.06	-	-	-	-	-	-	-	-	-	-	-
15	0.13	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	0.10	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OGÓŁEM	3.71	3.40	3.10	2.79	2.48	2.18	1.87	1.56	1.26	1.10	0.95	0.80	0.64	0.49	0.49	0.24

INTERNAL ISO METRIC RECOMMENDED NUMBER OF PASSES
WEWNĘTRZNY GWINT METRYCZNY ISO ZALECANA LICZBA PRZEJŚĆ

NO NR	PITCH MM SKOK MM															
	6	5.5	5	4.5	4	3.5	3	2.5	2	1.75	1.5	1.25	1	0.75	0.5	0.35
1	0.44	0.43	0.42	0.36	0.32	0.32	0.25	0.25	0.23	0.22	0.22	0.19	0.18	0.16	0.10	0.09
2	0.36	0.34	0.37	0.32	0.27	0.29	0.22	0.21	0.21	0.20	0.20	0.16	0.15	0.14	0.09	0.08
3	0.32	0.29	0.28	0.28	0.22	0.23	0.19	0.19	0.18	0.15	0.17	0.13	0.12	0.10	0.07	0.06
4	0.27	0.24	0.26	0.25	0.20	0.19	0.17	0.16	0.16	0.13	0.15	0.11	0.10	0.06	0.06	-
5	0.25	0.23	0.24	0.22	0.19	0.18	0.16	0.15	0.14	0.11	0.10	0.10	0.06	-	-	-
6	0.23	0.22	0.21	0.19	0.18	0.16	0.16	0.13	0.11	0.09	0.06	0.06	-	-	-	-
7	0.22	0.21	0.20	0.18	0.16	0.15	0.14	0.12	0.09	0.08	-	-	-	-	-	-
8	0.21	0.20	0.19	0.17	0.15	0.14	0.12	0.11	0.06	0.06	-	-	-	-	-	-
9	0.19	0.18	0.18	0.15	0.14	0.13	0.11	0.09	-	-	-	-	-	-	-	-
10	0.17	0.16	0.16	0.14	0.14	0.11	0.10	0.06	-	-	-	-	-	-	-	-
11	0.16	0.16	0.14	0.12	0.12	0.09	0.08	-	-	-	-	-	-	-	-	-
12	0.15	0.15	0.12	0.10	0.10	0.06	0.06	-	-	-	-	-	-	-	-	-
13	0.14	0.14	0.09	0.09	0.09	-	-	-	-	-	-	-	-	-	-	-
14	0.13	0.11	0.06	0.06	0.06	-	-	-	-	-	-	-	-	-	-	-
15	0.11	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	0.09	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OGÓŁEM	3.50	3.21	2.92	2.63	2.34	2.05	1.76	1.47	1.18	1.04	0.90	0.75	0.61	0.46	0.32	0.23

EXTERNAL UNIFIED UNC, UNF, UNEF RECOMMENDED NUMBER OF PASSES
ZEWNĘTRZNY GWINT CALOWY ZUNIFIKOWANY UNC, UNF, UNEF ZALECANA LICZBA PRZEJŚĆ

NO NR	PITCH TPI SKOK TPI																		
	4	4.5	5	6	7	8	9	10	11	12	13	14	16	18	20	24	28	32	48
1	0.44	0.43	0.42	0.37	0.33	0.29	0.29	0.26	0.25	0.25	0.24	0.23	0.22	0.21	0.20	0.20	0.18	0.18	0.13
2	0.38	0.35	0.37	0.32	0.28	0.22	0.24	0.22	0.22	0.23	0.22	0.20	0.20	0.19	0.16	0.17	0.15	0.16	0.09
3	0.33	0.30	0.32	0.27	0.23	0.20	0.23	0.20	0.19	0.20	0.18	0.18	0.18	0.17	0.15	0.14	0.11	0.12	0.07
4	0.29	0.28	0.27	0.25	0.22	0.18	0.22	0.17	0.17	0.18	0.16	0.14	0.14	0.16	0.13	0.11	0.09	0.06	0.06
5	0.27	0.26	0.26	0.24	0.21	0.17	0.18	0.16	0.16	0.16	0.14	0.12	0.11	0.11	0.11	0.06	0.06	-	-
6	0.26	0.23	0.24	0.18	0.19	0.16	0.16	0.15	0.15	0.14	0.13	0.11	0.09	0.06	0.06	-	-	-	-
7	0.24	0.22	0.22	0.17	0.18	0.16	0.15	0.14	0.13	0.11	0.10	0.10	0.06	-	-	-	-	-	-
8	0.23	0.21	0.20	0.16	0.15	0.15	0.12	0.12	0.12	0.06	0.06	0.06	-	-	-	-	-	-	-
9	0.21	0.20	0.19	0.15	0.14	0.14	0.11	0.11	0.06	-	-	-	-	-	-	-	-	-	-
10	0.20	0.19	0.18	0.13	0.14	0.14	0.06	0.06	-	-	-	-	-	-	-	-	-	-	-
11	0.19	0.18	0.17	0.12	0.12	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-
12	0.18	0.17	0.14	0.10	0.06	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-
13	0.18	0.15	0.11	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	0.17	0.14	0.06	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	0.16	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	0.13	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OGÓŁEM	3.92	3.49	3.15	2.63	2.25	1.98	1.76	1.59	1.45	1.33	1.23	1.14	1.00	0.90	0.81	0.68	0.59	0.52	0.35

INTERNAL UNIFIED UNC, UNF, UNEF RECOMMENDED NUMBER OF PASSES
WEWNĘTRZNY GWINT CALOWY ZUNIFIKOWANY UNC, UNF, UNEF ZALECANA LICZBA PRZEJŚĆ

NO NR	PITCH TPI SKOK TPI																		
	4	4.5	5	6	7	8	9	10	11	12	13	14	16	18	20	24	28	32	48
1	0.43	0.43	0.42	0.34	0.31	0.29	0.23	0.25	0.24	0.24	0.23	0.22	0.21	0.20	0.19	0.19	0.17	0.17	0.12
2	0.34	0.35	0.37	0.28	0.27	0.22	0.23	0.21	0.20	0.21	0.21	0.20	0.19	0.18	0.16	0.16	0.14	0.15	0.09
3	0.32	0.29	0.28	0.26	0.22	0.19	0.20	0.19	0.18	0.19	0.17	0.17	0.17	0.16	0.14	0.13	0.10	0.11	0.07
4	0.28	0.24	0.26	0.22	0.20	0.17	0.20	0.16	0.16	0.17	0.15	0.13	0.13	0.15	0.11	0.10	0.08	0.06	0.06
5	0.26	0.23	0.24	0.21	0.19	0.16	0.16	0.15	0.15	0.15	0.13	0.11	0.10	0.09	0.10	0.06	0.06	-	-
6	0.25	0.22	0.21	0.18	0.18	0.16	0.15	0.13	0.14	0.13	0.12	0.10	0.09	0.06	0.06	-	-	-	-
7	0.23	0.21	0.20	0.17	0.16	0.14	0.14	0.12	0.12	0.10	0.09	0.09	0.06	-	-	-	-	-	-
8	0.21	0.20	0.19	0.16	0.15	0.14	0.13	0.12	0.10	0.06	0.06	0.06	-	-	-	-	-	-	-
9	0.20	0.19	0.18	0.15	0.14	0.13	0.11	0.11	0.06	-	-	-	-	-	-	-	-	-	-
10	0.19	0.18	0.16	0.13	0.14	0.12	0.06	0.06	-	-	-	-	-	-	-	-	-	-	-
11	0.18	0.17	0.16	0.12	0.10	0.08	-	-	-	-	-	-	-	-	-	-	-	-	-
12	0.17	0.16	0.13	0.10	0.06	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-
13	0.16	0.14	0.10	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	0.16	0.12	0.06	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	0.14	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	0.12	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OGÓŁEM	3.70	3.29	2.96	2.47	2.12	1.86	1.67	1.50	1.35	1.25	1.16	1.08	0.95	0.84	0.76	0.64	0.55	0.49	0.34

WHITWORTH BSW, BSF, BSP RECOMMENDED NUMBER OF PASSES
GWINT CALOWY WHITWORTH(BSW, BSF, BSP ZALECANA LICZBA PRZEJŚĆ

NO NR	PITCH TPI SKOK TPI																		
	4	4.5	5	6	7	8	9	10	11	12	13	14	16	18	20	24	28	32	48
1	0.45	0.44	0.43	0.38	0.34	0.30	0.28	0.27	0.26	0.26	0.24	0.22	0.24	0.22	0.21	0.20	0.18	0.19	0.16
2	0.40	0.36	0.38	0.33	0.29	0.24	0.25	0.23	0.23	0.23	0.21	0.18	0.21	0.19	0.19	0.18	0.15	0.16	0.14
3	0.35	0.31	0.33	0.28	0.24	0.21	0.22	0.21	0.20	0.21	0.17	0.15	0.16	0.17	0.15	0.16	0.12	0.13	0.06
4	0.31	0.29	0.28	0.27	0.23	0.19	0.21	0.18	0.18	0.19	0.15	0.13	0.15	0.14	0.13	0.11	0.10	0.06	-
5	0.28	0.27	0.27	0.25	0.22	0.18	0.20	0.17	0.17	0.17	0.14	0.12	0.11	0.11	0.10	0.06	0.06	-	-
6	0.27	0.24	0.25	0.19	0.20	0.17	0.17	0.16	0.16	0.15	0.12	0.10	0.06	0.06	0.06	-	-	-	-
7	0.25	0.23	0.23	0.18	0.19	0.17	0.17	0.14	0.13	0.12	0.10	0.09	-	-	-	-	-	-	-
8	0.24	0.22	0.21	0.17	0.16	0.16	0.15	0.13	0.12	0.06	0.06	0.06	-	-	-	-	-	-	-
9	0.22	0.21	0.20	0.16	0.15	0.14	0.13	0.11	0.06	-	-	-	-	-	-	-	-	-	-
10	0.21	0.20	0.19	0.14	0.15	0.13	0.06	0.06		-	-	-	-	-	-	-	-	-	-
11	0.20	0.19	0.18	0.12	0.12	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-
12	0.19	0.18	0.15	0.10	0.06	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-
13	0.18	0.16	0.12	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	0.18	0.15	0.06	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	0.17	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	0.13	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OGÓŁEM	4.09	3.64	3.28	2.74	2.35	2.06	1.84	1.66	1.51	1.39	1.19	1.05	0.93	0.89	0.84	0.71	0.61	0.54	0.36

PT RECOMMENDED NUMBER OF PASSES
GWINT NPT ZALECANA LICZBA PRZEJŚĆ

NO NR	PITCH TPI SKOK TPI				
	8	11.5	14	18	27
1	0.32	0.23	0.22	0.18	0.14
2	0.25	0.19	0.18	0.15	0.11
3	0.21	0.17	0.15	0.13	0.11
4	0.17	0.16	0.14	0.13	0.10
5	0.16	0.15	0.13	0.12	0.09
6	0.16	0.13	0.12	0.11	0.08
7	0.15	0.12	0.10	0.09	0.06
8	0.15	0.10	0.10	0.08	-
9	0.14	0.10	0.09	0.06	-
10	0.13	0.10	0.08	-	-
11	0.13	0.09	0.06	-	-
12	0.12	0.08	-	-	-
13	0.12	0.06	-	-	-
14	0.10	-	-	-	-
15	0.08	-	-	-	-
16	0.06	-	-	-	-
TOTAL OGÓŁEM	2.45	1.68	1.37	1.05	0.69

NPTF RECOMMENDED NUMBER OF PASSES
GWINT NPTF ZALECANA LICZBA PRZEJŚĆ

NO NR	PITCH TPI SKOK TPI				
	8	11.5	14	18	27
1	0.31	0.22	0.21	0.17	0.14
2	0.24	0.17	0.17	0.14	0.10
3	0.20	0.16	0.14	0.13	0.09
4	0.16	0.16	0.14	0.12	0.09
5	0.16	0.14	0.14	0.11	0.08
6	0.15	0.13	0.12	0.10	0.08
7	0.15	0.12	0.10	0.09	0.06
8	0.14	0.11	0.10	0.08	-
9	0.14	0.10	0.09	0.06	-
10	0.13	0.10	0.08	-	-
11	0.13	0.09	0.06	-	-
12	0.12	0.08	-	-	-
13	0.12	0.06	-	-	-
14	0.10	-	-	-	-
15	0.08	-	-	-	-
16	0.06	-	-	-	-
TOTAL OGÓŁEM	2.39	1.64	1.35	1.00	0.64

TRAPEZOIDAL DIN 103 RECOMMENDED NUMBER OF PASSES
GWINT TRAPEZOWY DIN 103 ZALECANA LICZBA PRZEJŚĆ

NO NR	PITCH MM SKOK MM						
	7	6	5	4	3	2	1,5
1	0.38	0.36	0.34	0.32	0.31	0.30	0.24
2	0.34	0.32	0.30	0.23	0.26	0.26	0.22
3	0.28	0.28	0.25	0.20	0.23	0.22	0.17
4	0.26	0.25	0.23	0.19	0.19	0.18	0.14
5	0.25	0.24	0.22	0.18	0.19	0.16	0.12
6	0.23	0.23	0.21	0.17	0.18	0.12	-
7	0.22	0.22	0.19	0.16	0.15	0.06	-
8	0.21	0.20	0.18	0.15	0.12	-	-
9	0.20	0.19	0.17	0.14	0.11	-	-
10	0.19	0.17	0.16	0.12	0.06	-	-
11	0.19	0.16	0.14	0.10	-	-	-
12	0.18	0.15	0.13	0.06	-	-	-
13	0.18	0.13	0.12	-	-	-	-
14	0.16	0.13	0.10	-	-	-	-
15	0.16	0.12	0.06	-	-	-	-
16	0.15	0.12	-	-	-	-	-
17	0.15	0.11	-	-	-	-	-
18	0.14	0.11	-	-	-	-	-
19	0.12	0.06	-	-	-	-	-
20	0.06	-	-	-	-	-	-
TOTAL OGÓŁEM	4.05	3.55	2.80	2.30	1.80	1.30	0.95

ACME RECOMMENDED NUMBER OF PASSES
GWINT ACME ZALECANA LICZBA PRZEJŚĆ

NO NR	PITCH TPI SKOK TPI							
	4	5	6	8	10	12	14	16
1	0.36	0.34	0.31	0.27	0.26	0.26	0.25	0.24
2	0.32	0.30	0.29	0.23	0.23	0.22	0.21	0.22
3	0.28	0.25	0.25	0.19	0.20	0.18	0.18	0.18
4	0.25	0.23	0.21	0.18	0.19	0.16	0.15	0.15
5	0.24	0.22	0.18	0.17	0.16	0.14	0.13	0.12
6	0.23	0.21	0.17	0.16	0.14	0.12	0.10	0.06
7	0.22	0.19	0.16	0.15	0.12	0.10	0.06	-
8	0.20	0.19	0.15	0.14	0.11	0.06	-	-
9	0.19	0.18	0.15	0.12	0.10	-	-	-
10	0.17	0.17	0.14	0.12	0.06	-	-	-
11	0.15	0.15	0.13	0.10	-	-	-	-
12	0.14	0.13	0.12	0.06	-	-	-	-
13	0.13	0.12	0.10	-	-	-	-	-
14	0.12	0.10	0.06	-	-	-	-	-
15	0.11	0.06	-	-	-	-	-	-
16	0.11	-	-	-	-	-	-	-
17	0.10	-	-	-	-	-	-	-
18	0.10	-	-	-	-	-	-	-
19	0.06	-	-	-	-	-	-	-
TOTAL OGÓŁEM	3.48	2.84	2.42	1.89	1.57	1.24	1.08	0.97

STUB ACME RECOMMENDED NUMBER OF PASSES
GWINT STUB ACME ZALECANA LICZBA PRZEJŚĆ

NO NR	PITCH TPI SKOK TPI							
	4	5	6	8	10	12	14	16
1	0.31	0.30	0.27	0.23	0.23	0.22	0.21	0.18
2	0.26	0.26	0.23	0.19	0.17	0.17	0.18	0.16
3	0.21	0.21	0.20	0.16	0.14	0.14	0.15	0.13
4	0.19	0.18	0.16	0.15	0.13	0.12	0.12	0.12
5	0.17	0.16	0.15	0.13	0.12	0.10	0.06	0.06
6	0.17	0.15	0.14	0.12	0.11	0.06	-	-
7	0.16	0.15	0.13	0.11	0.10	-	-	-
8	0.15	0.13	0.12	0.10	0.06	-	-	-
9	0.15	0.12	0.10	0.06	-	-	-	-
10	0.14	0.10	0.06	-	-	-	-	-
11	0.13	0.06	-	-	-	-	-	-
12	0.11	-	-	-	-	-	-	-
13	0.06	-	-	-	-	-	-	-
TOTAL OGÓŁEM	2.21	1.82	1.56	1.25	1.06	0.81	0.72	0.65

UNJ RECOMMENDED NUMBER OF PASSES
GWINT UNJ ZALECANA LICZBA PRZEJŚĆ

NO NR	PITCH TPI SKOK TPI												
	8	9	10	11	12	13	14	16	18	20	24	28	32
1	0.29	0.29	0.26	0.25	0.25	0.24	0.23	0.22	0.21	0.20	0.20	0.18	0.18
2	0.22	0.24	0.22	0.22	0.23	0.22	0.20	0.20	0.19	0.16	0.17	0.14	0.15
3	0.20	0.22	0.19	0.19	0.19	0.18	0.17	0.17	0.16	0.14	0.13	0.10	0.11
4	0.18	0.20	0.17	0.16	0.17	0.15	0.14	0.13	0.15	0.12	0.10	0.09	0.06
5	0.16	0.17	0.15	0.15	0.15	0.13	0.11	0.10	0.10	0.10	0.06	0.06	-
6	0.16	0.16	0.14	0.14	0.13	0.12	0.10	0.09	0.06	0.06	-	-	-
7	0.15	0.14	0.13	0.12	0.10	0.09	0.09	0.06	-	-	-	-	-
8	0.14	0.12	0.11	0.11	0.06	0.06	0.06	-	-	-	-	-	-
9	0.13	0.10	0.10	0.06	-	-	-	-	-	-	-	-	-
10	0.12	0.06	0.06	-	-	-	-	-	-	-	-	-	-
11	0.10	-	-	-	-	-	-	-	-	-	-	-	-
12	0.06	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL OGÓŁEM	1.91	1.70	1.53	1.40	1.28	1.19	1.10	0.97	0.87	0.78	0.66	0.57	0.50

EXTERNAL MJ
ZEWNETRZNY GWINT MJ

NO NR	PITCH TPI SKOK TPI					
	1	1.25	1.5	2.0	2.5	3.0
1	0.18	0.18	0.22	0.23	0.25	0.26
2	0.15	0.16	0.20	0.22	0.21	0.22
3	0.13	0.14	0.18	0.18	0.19	0.19
4	0.10	0.12	0.15	0.16	0.16	0.17
5	0.06	0.10	0.11	0.14	0.15	0.16
6	-	0.06	0.06	0.12	0.14	0.15
7	-	-	-	0.10	0.13	0.14
8	-	-	-	0.06	0.12	0.13
9	-	-	-	-	0.10	0.12
10	-	-	-	-	0.06	0.11
11	-	-	-	-	-	0.09
12	-	-	-	-	-	0.06
TOTAL OGÓŁEM	0.62	0.76	0.92	1.21	1.51	1.80

INTERNAL MJ
WEWNETRZNY GWINT MJ

NO NR	PITCH TPI SKOK TPI					
	1	1.25	1.5	2.0	2.5	3.0
1	0.16	0.17	0.22	0.23	0.24	0.24
2	0.13	0.14	0.19	0.21	0.21	0.20
3	0.11	0.12	0.14	0.18	0.18	0.18
4	0.09	0.10	0.11	0.16	0.16	0.17
5	0.06	0.09	0.09	0.14	0.14	0.16
6	-	0.06	0.06	0.10	0.13	0.15
7	-	-	-	0.06	0.12	0.13
8	-	-	-	-	0.10	0.12
9	-	-	-	-	0.06	0.10
10	-	-	-	-	-	0.09
11	-	-	-	-	-	0.06
12	-	-	-	-	-	-
TOTAL OGÓŁEM	0.55	0.68	0.81	1.08	1.34	1.60

ROUND DIN 408
GWINT OKRĄGŁY DIN 405

NO NR	PITCH MM SKOK MM			
	4	6	8	10
1	0.35	0.25	0.24	0.23
2	0.32	0.24	0.22	0.21
3	0.31	0.22	0.20	0.19
4	0.30	0.21	0.19	0.18
5	0.29	0.20	0.18	0.16
6	0.28	0.19	0.16	0.14
7	0.25	0.18	0.14	0.11
8	0.22	0.16	0.11	0.09
9	0.21	0.15	0.10	0.06
10	0.18	0.13	0.09	-
11	0.16	0.12	0.06	-
12	0.13	0.11	-	-
13	0.12	0.06	-	-
14	0.10	-	-	-
15	0.06	-	-	-
TOTAL OGÓŁEM	3.28	2.22	1.69	1.37

ROUND DIN 20400
GWINT OKRĄGŁY DIN 20400

NO NR	PITCH MM SKOK MM			
	4	6	8	10
1	0.35	0.32	0.25	0.24
2	0.33	0.28	0.24	0.23
3	0.32	0.27	0.23	0.21
4	0.31	0.26	0.22	0.20
5	0.30	0.25	0.21	0.19
6	0.29	0.24	0.20	0.18
7	0.26	0.22	0.19	0.14
8	0.23	0.20	0.18	0.11
9	0.22	0.19	0.16	0.10
10	0.19	0.16	0.14	0.09
11	0.17	0.15	0.12	0.06
12	0.15	0.13	0.10	-
13	0.12	0.12	0.06	-
14	0.10	0.06	-	-
15	0.06	-	-	-
TOTAL OGÓŁEM	3.40	2.85	2.30	1.75

PG PANZERROUHR-GEWINDE
GWINTY INSTALACYJNE PANCERNY

NO NR	PITCH MM SKOK MM		
	4	6	8
1	0.17	0.18	0.19
2	0.15	0.14	0.16
3	0.14	0.12	0.13
4	0.10	0.10	0.11
5	0.06	0.09	0.10
6	-	0.06	0.09
7	-	-	0.06
TOTAL OGÓŁEM	0.62	0.69	0.78

AMERICAN BUTTRESS RECOMMENDED NUMBER OF PASSES
GWINT AMERYKAŃSKI TRAPEZOWY ZALECANA LICZBA PRZEJŚĆ

NO NR	PITCH TPI SKOK TPI					
	6	8	10	12	16	20
1	0.28	0.25	0.22	0.21	0.20	0.18
2	0.24	0.22	0.20	0.19	0.18	0.16
3	0.21	0.19	0.19	0.18	0.17	0.14
4	0.20	0.19	0.17	0.16	0.14	0.13
5	0.20	0.17	0.16	0.15	0.13	0.12
6	0.19	0.16	0.15	0.14	0.12	0.10
7	0.19	0.16	0.13	0.13	0.10	0.06
8	0.18	0.15	0.12	0.12	0.06	-
9	0.17	0.14	0.12	0.11	-	-
10	0.16	0.13	0.11	0.06	-	-
11	0.15	0.12	0.10	-	-	-
12	0.14	0.11	0.06	-	-	-
13	0.14	0.10	-	-	-	-
14	0.13	0.06	-	-	-	-
15	0.12	-	-	-	-	-
16	0.10	-	-	-	-	-
17	0.06	-	-	-	-	-
TOTAL OGÓŁEM	2.86	2.15	1.73	1.45	1.10	0.89

EXTERNAL SAGENGEWINDE
GWINT PIŁOWY ZEWNĘTRZNY

NO NR	PITCH MM SKOK MM		
	4	3	2
1	0.32	0.30	0.29
2	0.30	0.28	0.26
3	0.27	0.26	0.24
4	0.25	0.24	0.19
5	0.23	0.22	0.18
6	0.21	0.21	0.17
7	0.20	0.20	0.15
8	0.19	0.18	0.14
9	0.18	0.17	0.11
10	0.17	0.15	0.06
11	0.16	0.14	-
12	0.15	0.13	-
13	0.15	0.11	-
14	0.15	0.06	-
15	0.14	-	-
16	0.14	-	-
17	0.13	-	-
18	0.12	-	-
19	0.06	-	-
TOTAL OGÓŁEM	3.52	2.65	1.79

INTERNAL SAGENGEWINDE
GWINT PIŁOWY WEWNĘTRZNY

NO NR	PITCH MM SKOK MM		
	4	3	2
1	0.32	0.31	0.29
2	0.30	0.29	0.27
3	0.27	0.27	0.25
4	0.24	0.24	0.21
5	0.23	0.23	0.18
6	0.21	0.22	0.16
7	0.20	0.20	0.12
8	0.19	0.19	0.06
9	0.18	0.16	-
10	0.17	0.13	-
11	0.16	0.06	-
12	0.15	-	-
13	0.14	-	-
14	0.13	-	-
15	0.10	-	-
16	0.06	-	-
TOTAL OGÓŁEM	3.05	2.30	1.54

API RECOMMENDED NUMBER OF PASSES
GWINT API ZALECANA LICZBA PRZEJŚĆ

NO NR	V0.038R 4TPI		V0.050R 4TPI		V0.040R 5TPI	Buttress Casing 5TPI	
	2 IPF	3 IPF	2 IPF	3 IPF	3 IPF	0.75 IPF	1.0 IPF
1	0.45	0.45	0.44	0.44	0.41	0.24	0.24
2	0.38	0.38	0.39	0.39	0.36	0.22	0.22
3	0.33	0.33	0.34	0.34	0.32	0.18	0.18
4	0.30	0.30	0.31	0.31	0.28	0.14	0.14
5	0.28	0.28	0.28	0.28	0.26	0.12	0.12
6	0.24	0.24	0.26	0.26	0.24	0.12	0.12
7	0.22	0.22	0.24	0.24	0.22	0.12	0.12
8	0.20	0.20	0.23	0.23	0.20	0.10	0.10
9	0.18	0.18	0.21	0.21	0.18	0.10	0.10
10	0.14	0.14	0.19	0.19	0.14	0.10	0.10
11	0.13	0.13	0.18	0.18	0.13	0.10	0.10
12	0.12	0.12	0.16	0.16	0.12	0.06	0.06
13	0.11	0.10	0.14	0.14	0.11	-	-
14	0.06	0.06	0.13	0.13	0.06	-	-
15	-	-	0.12	0.12	-	-	-
16	-	-	0.10	0.11	-	-	-
17	-	-	0.06	0.06	-	-	-
TOTAL OGÓŁEM	3.14	3.13	3.79	3.78	3.03	1.60	1.60

EL RECOMMENDED NUMBER OF PASSES
GWINT EL ZALECANA LICZBA PRZEJŚĆ

NO NR	EXTREME LINE CASING GWINT TRAPEZOWY SYMETRYCZNY WYSOKI 6TPI 1.5IPF		EXTREME LINE CASING GWINT TRAPEZOWY SYMETRYCZNY WYSOKI 5TPI 1.25IPF		ROUND API GWINT API RD 0,75IPF 8TPI		ROUND API GWINT API RD 0,75IPF 10TPI	
	EXTERNAL ZEWNĘTRZNE	INTERNAL WEWNĘTRZNE	EXTERNAL ZEWNĘTRZNE	INTERNAL WEWNĘTRZNE	EXTERNAL ZEWNĘTRZNE	INTERNAL WEWNĘTRZNE	EXTERNAL ZEWNĘTRZNE	INTERNAL WEWNĘTRZNE
1	0.23	0.25	0.25	0.25	0.25	0.25	0.25	0.25
2	0.20	0.20	0.22	0.23	0.22	0.22	0.20	0.20
3	0.16	0.17	0.20	0.21	0.20	0.20	0.17	0.17
4	0.15	0.15	0.18	0.19	0.18	0.18	0.15	0.15
5	0.13	0.14	0.15	0.16	0.16	0.16	0.14	0.14
6	0.12	0.13	0.14	0.15	0.15	0.15	0.13	0.13
7	0.11	0.12	0.13	0.14	0.14	0.14	0.12	0.12
8	0.10	0.12	0.12	0.13	0.13	0.13	0.12	0.12
9	0.06	0.10	0.11	0.12	0.12	0.12	0.10	0.10
10	-	0.06	0.10	0.11	0.11	0.11	0.06	0.06
11	-	-	0.10	0.11	0.11	0.11	-	-
12	-	-	0.06	0.10	0.06	0.06	-	-
13	-	-	-	0.06	-	-	-	-
TOTAL OGÓŁEM	1.26	1.44	1.76	1.96	1.83	1.83	1.44	1.44

MULTITOOTH INSERTS RECOMMENDED NUMBER OF PASSES
PŁYTKI WIELOZĘBOWE ZALECANA LICZBA PRZEJŚĆ

STANDARD NORMA	PITCH SKOK	Z Z	ORDER CODE KOD ZAMÓWIENIA	NO OF PASSES LICZBA PRZEJŚĆ	DEPTH OD CUT PER PASS NADDATEK NA PRZEJŚCIE			
					1	2	3	4
ISO EXTERNAL ISO ZEWNĘTRZNE	1.0	3	HM16ER0100ISO3M	2	0.37	0.26	-	-
	1.5	2	HM16ER0150ISO2M	3	0.44	0.29	0.21	-
	1.5	3	HM22ER0150ISO3M	2	0.56	0.37	-	-
	2.0	2	HM22ER0200ISO2M	3	0.56	0.41	0.28	-
	2.0	3	HM22ER0200ISO3M	2	0.77	0.48	-	-
	2.5	2	HM22ER0250ISO2M	4	0.55	0.40	0.34	0.26
	3.0	2	HM27ER0300ISO2M	4	0.60	0.52	0.40	0.32
ISO INTERNAL ISO WEWNĘTRZNE	1.0	3	HM16IR0100ISO3M	2	0.34	0.24	-	-
	1.5	2	HM16IR0150ISO2M	3	0.39	0.28	0.20	-
	1.5	3	HM22IR0150ISO3M	2	0.52	0.35	-	-
	2.0	2	HM22IR0200ISO2M	3	0.53	0.37	0.25	-
	2.0	3	HM22IR0200ISO3M	2	0.72	0.43	-	-
	3.0	2	HM27IR0300ISO2M	4	0.60	0.45	0.37	0.29
UN EXTERNAL UN ZEWNĘTRZNE	20	2	HM16ER200UN2M	3	0.38	0.24	0.18	-
	16	2	HM16ER160UN2M	3	0.45	0.30	0.22	-
	14	2	HM16ER140UN2M	3	0.52	0.38	0.24	-
	16	3	HM22ER160UN3M	2	0.57	0.40	-	-
	12	2	HM22ER120UN2M	3	0.58	0.41	0.31	-
	12	3	HM22ER120UN3M	2	0.79	0.51	-	-
	8	2	HM27ER080UN2M	4	0.64	0.53	0.44	0.35
UN INTERNAL UN WEWNĘTRZNE	20	2	HM16IR200UN2M	3	0.35	0.24	0.18	-
	16	2	HM16IR160UN2M	3	0.44	0.27	0.21	-
	14	2	HM16IR140UN2M	3	0.47	0.36	0.25	-
	12	2	HM16IR120UN2M	3	0.54	0.38	0.30	-
	16	3	HM22IR160UN3M	2	0.54	0.38	-	-
	12	2	HM22IR120UN2M	3	0.54	0.38	0.30	-
	12	3	HM22IR120UN3M	2	0.73	0.49	-	-
	8	2	HM27IR080UN2M	4	0.65	0.49	0.39	0.30
W EXTERNAL W ZEWNĘTRZNE	14	2	HM16ER140W2M	3	0.54	0.35	0.27	-
	14	3	HM22ER140W3M	2	0.69	0.47	-	-
	11	2	HM22ER110W2M	3	0.66	0.48	0.34	-
W INTERNAL W WEWNĘTRZNE	14	2	HM16IR140W2M	3	0.54	0.35	0.27	-
	14	3	HM22IR140W3M	2	0.69	0.47	-	-
	11	2	HM22IR110W2M	3	0.66	0.48	0.34	-
NPT EXTERNAL NPT ZEWNĘTRZNE	11.5	2	HM22ER115NPT2M	4	0.53	0.47	0.38	0.30
	11.5	3	HM27ER115NPT3M	3	0.77	0.54	0.37	-
	8	2	HM27ER080NPT2M	4	0.82	0.60	0.54	0.45
NPT INTERNAL NPT WEWNĘTRZNE	11.5	2	HM22IR115NPT2M	4	0.53	0.47	0.38	0.30
	11.5	3	HM27IR115NPT3M	3	0.77	0.54	0.37	-
	8	2	HM27IR080NPT2M	4	0.82	0.60	0.54	0.45
NPTF EXTERNAL NPTF ZEWNĘTRZNE	11.5	2	HM22ER115NPTF2M	4	0.52	0.46	0.38	0.30
NPTF INTERNAL NPTF WEWNĘTRZNE	11.5	2	HM22IR115NPTF2M	4	0.52	0.46	0.38	0.30
RD API EXTERNAL RD API ZEWNĘTRZNE	10	2	HM22ER100API2M	3	0.61	0.49	0.31	-
	10	3	HM27ER100API3M	2	0.99	0.42	-	-
	8	2	HM27ER080API2M	3	0.82	0.59	0.40	-
RD API INTERNAL RD API EWNĘTRZNE	10	2	HM22IR100API2M	3	0.61	0.49	0.31	-
	10	3	HM27IR100API3M	2	0.99	0.42	-	-
	8	2	HM27IR080API2M	3	0.82	0.59	0.40	-

NATIONAL TAPER PIPE THREAD (NPT) INTERNAL THREADING RECOMMENDED TOOLS
GWINT CALOWY RUROWY STOŻKOWY (NPT). TOCZENIE GWINTÓW WEWNĘTRZNYCH ZALECANE NARZĘDZIA

THREAD TYPE TYP GWINTU	PITCH SKOK		PROFILE DEPTH GŁĘBOKOŚĆ PROFILU	RECOMMENDED TOOLS ZALECANE NARZĘDZIA	
	MM	TPI		INSERT PŁYTKA	TOOLHOLDER OPRWKA
NPT 1/16	27	0.941	0.69	HM06IR270NPT	HIRE0012H06
NPT 1/8	27	0.941	0.69	HM08IR270NPT	HIRE0016K08
NPT 1/4	18	1.411	1.05	HM08IR180NPT	HIRE0016K08M
NPT 3/8	18	1.411	1.05	HM11IR180NPT	HIRE0010H11
NPT 1/2	14	1.814	1.37	HM16IR140NPT	HIRE0010K11
NPT 3/4	14	1.814	1.37	HM16IR140NPT	HIRE0013M16
NPT 1	11.5	2.209	1.68	HM16IR115NPT	HIRE0016P16
NPT 1 1/4	11.5	2.209	1.68	HM16IR115NPT	HIRE0020P16
NPT 1 1/2	11.5	2.209	1.68	HM16IR115NPT	HIRE0025R16
NPT 2	11.5	2.209	1.68	HM16IR115NPT	HIRE0032S16
NPT 2 1/2	8	3.175	2.45	HM16IR080NPT	HIRE0040T16
NPT 3	8	3.175	2.45	HM16IR080NPT	HIRE0020P22
NPT 3 1/2	8	3.175	2.45	HM16IR080NPT	HIRE0025R22
NPT 4	8	3.175	2.45	HM16IR080NPT	HIRE0032S22
NPT 5	8	3.175	2.45	HM16IR080NPT	HIRE0040T22

NATIONAL DRYSEAL PIPE THREAD (NPTF) INTERNAL THREADING RECOMMENDED TOOLS
GWINT CALOWY RUROWY SZCZELNY (NPTF) . TOCZENIE GWINTÓW WEWNĘTRZNYCH ZALECANE NARZĘDZIA

THREAD TYPE TYP GWINTU	PITCH SKOK		PROFILE DEPTH GŁĘBOKOŚĆ PROFILU	RECOMMENDED TOOLS ZALECANE NARZĘDZIA	
	MM	TPI		INSERT PŁYTKA	TOOLHOLDER OPRWKA
NPTF 1/16	27	0.941	0.64	HM06IL270NPTF	HIRE0012H06
NPTF 1/8	27	0.941	0.64	HM08IL270NPTF	HIRE0016K08
NPTF 1/4	18	1.411	1.00	HM08IL180NPTF	HIRE0016K08
NPTF 3/8	18	1.411	1.00	HM11IR180NPTF	HIRE0010K11
NPTF 1/2	14	1.814	1.35	HM16IR140NPTF	HIRE0013M16
NPTF 3/4	14	1.814	1.35	HM16IR140NPTF	HIRE0016P16
NPTF 1	11.5	2.209	1.64	HM16IR115NPTF	HIRE0020P16
NPTF 1 1/4	11.5	2.209	1.64	HM16IR115NPTF	HIRE0025R16
NPTF 1 1/2	11.5	2.209	1.64	HM16IR115NPTF	HIRE0032S16
NPTF 2	11.5	2.209	1.64	HM16IR115NPTF	HIRE0032S16
NPTF 2 1/2	8	3.175	2.39	HM16IR080NPTF	HIRE0040T16
NPTF 3	8	3.175	2.39	HM16IR080NPTF	HIRE0040T16

PARALLEL PIPE THREAD (BSP(G)) INTERNAL THREADING RECOMMENDED TOOLS
GWINT CALOWY RUROWY STOŻKOWY. TOCZENIE GWINTÓW WEWNĘTRZNYCH ZALECANE NARZĘDZIA

THREAD TYPE TYP GWINTU	PITCH SKOK		PROFILE DEPTH GŁĘBOKOŚĆ PROFILU	BORE DIAMETER ŚREDNICA OTWORU	RECOMMENDED TOOLS ZALECANE NARZĘDZIA	
	MM	TPI			INSERT PŁYTKA	TOOLHOLDER OPRWKA
G1/16	28	0.907	0.581	6.561	HM06IR280W	HIRE0012IR06
G1/8	28	0.907	0.581	8.556	HM06IR280W	HIRE0016IR08
G1/4	19	1.337	0.856	11.445	HM08IR190W	HIRE0016IR08
G3/8	19	1.337	0.856	14.950	HM11IR190W	HIRE0016IR11
G1/2	14	1.814	1.162	18.631	HM16IR140W	HIRE0013IR16
G5/8	14	1.814	1.162	20.587	HM16IR140W	HIRE0016IR16
G3/4	14	1.814	1.162	24.117	HM16IR140W	HIRE0016IR16
G7/8	14	1.814	1.162	27.877	HM16IR140W	HIRE0020IR16
G1	11	2.309	1.479	30.291	HM16IR110W	HIRE0020IR16
G1 1/8	11	2.309	1.479	34.939	HM16IR110W	HIRE0025IR16
G1 1/4	11	2.309	1.479	38.952	HM16IR110W	HIRE0025IR16
G1 1/2	11	2.309	1.479	44.845	HM16IR110W	HIRE0032IR16
G1 3/4	11	2.309	1.479	50.788	HM16IR110W	HIRE0032IR16
G2	11	2.309	1.479	56.656	HM16IR110W	HIRE0032IR16

BRITISH STANDARD PIPE TAPER THREAD (RC SERIES) RECOMMENDED TOOLS
GWINT CALOWY RUROWY STOKOWY (WYKONANIE RC) ZALECANE NARZĘDZIA

THREAD TYPE TYP GWINTU	PITCH SKOK		PROFILE DEPTH GŁĘBOKOŚĆ PROFILU	BORE DIAMETER ŚREDNICA OTWORU	RECOMMENDED TOOLS ZALECANE NARZĘDZIA	
	MM	TPI			INSERT PŁYTKA	TOOLHOLDER OPRWKA
Rc 1/16	28	0.907	0.581	6.561	HM06IR280BSPT	HIRE0012IR06
Rc 1/8	28	0.907	0.581	8.556	HM08IR280BSPT	HIRE0016IR08
Rc 1/4	19	1.337	0.856	11.445	HM08IR190BSPT	HIRE0016IR08
Rc 3/8	19	1.337	0.856	14.950	HM11IR190BSPT	HIRE0016IR11
Rc 1/2	14	1.814	1.162	18.631	HM16IR140BSPT	HIRE0013IR16
Rc 5/8	14	1.814	1.162	20.587	HM16IR140BSPT	HIRE0016IR16
Rc 3/4	14	1.814	1.162	24.117	HM16IR140BSPT	HIRE0016IR16
Rc 7/8	14	1.814	1.162	27.877	HM16IR140BSPT	HIRE0020IR16
Rc 1	11	2.309	1.479	30.291	HM16IR110BSPT	HIRE0020IR16
Rc 1 1/8	11	2.309	1.479	34.939	HM16IR110BSPT	HIRE0025IR16
Rc 1 1/4	11	2.309	1.479	38.952	HM16IR110BSPT	HIRE0025IR16
Rc 1 1/2	11	2.309	1.479	44.845	HM16IR110BSPT	HIRE0032IR16
Rc 1 3/4	11	2.309	1.479	50.788	HM16IR110BSPT	HIRE0032IR16
Rc 2	11	2.309	1.479	56.656	HM16IR110BSPT	HIRE0032IR16

MILLING CUTTING DATA PARAMETRY SKRAWANIA DLA FREZOWANIA

ORDER CODE KOD ZAMÓWIENIA	INSERT SHAPE KSZTAŁT PŁYTKI	P STEEL STAL						M STAINLESS STEEL STAL NIERDZENA						K CAST IRON ŻELIWO					
		Vc MIN	Vc MAX	Fz MIN	Fz MAX	Ap MIN	Ap MAX	Vc MIN	Vc MAX	Fz MIN	Fz MAX	Ap MIN	Ap MAX	Vc MIN	Vc MAX	Fz MIN	Fz MAX	Ap MIN	Ap MAX
M0000001	LNMU0303CMP3000	100,00	300,00	0,50	1,20	0,04	0,10	100,00	200,00	0,30	0,70	0,04	0,10	100,00	300,00	0,50	1,20	0,04	0,10
M0000003	RDMW10T3M0CSP3000	-	-	-	-	-	-	-	-	-	-	-	-	150,00	220,00	0,18	0,64	0,50	2,50
M0000004	RDMW1204M0CSP3000	-	-	-	-	-	-	-	-	-	-	-	-	150,00	220,00	0,25	0,74	0,50	3,00
M0000005	RPMW10T3M0CSP3000	-	-	-	-	-	-	-	-	-	-	-	-	150,00	220,00	0,18	0,72	0,50	2,50
M0000006	RPMW1204M0CSP3000	-	-	-	-	-	-	-	-	-	-	-	-	150,00	220,00	0,25	0,82	0,50	3,00
M0000007	SDMT09T312CRP3000	100,00	300,00	0,50	1,20	0,04	0,10	100,00	200,00	0,30	0,70	0,04	0,10	100,00	300,00	0,50	1,20	0,04	0,10
M0000008	SDMT1205CRP3000	100,00	300,00	0,70	1,50	0,07	0,12	100,00	200,00	0,45	0,90	0,07	0,12	100,00	300,00	0,70	1,50	0,07	0,12
M0000009	SEKN1203CSP3000	130,00	190,00	0,15	0,32	0,50	7,00	-	-	-	-	-	-	150,00	220,00	0,18	0,46	0,50	7,00
M0000011	SEKR1203CSP3000	130,00	190,00	0,15	0,32	0,50	7,00	190,00	250,00	0,15	0,32	0,50	7,00	150,00	220,00	0,18	0,46	0,50	7,00
M0000013	SNMX1206CSP3000	130,00	270,00	0,11	0,32	0,50	6,00	-	-	-	-	-	-	130,00	270,00	0,10	0,38	0,50	6,00
M0000014	SPKN1203CSP3000	130,00	190,00	0,15	0,30	0,50	7,00	-	-	-	-	-	-	150,00	220,00	0,18	0,43	0,50	7,00
M0000015	SPKR1203CSP3000	130,00	190,00	0,15	0,30	0,50	7,00	150,00	210,00	0,15	0,30	0,50	7,00	150,00	220,00	0,18	0,43	0,50	7,00
M0000019	SEKT1204CFP3000	130,00	190,00	0,14	0,28	0,50	6,00	190,00	250,00	0,16	0,32	0,50	6,00	150,00	220,00	0,12	0,38	0,50	6,00
M0000020	TPKR1603CFP3000	130,00	190,00	0,12	0,19	0,50	12,00	140,00	200,00	0,13	0,19	0,50	12,00	150,00	220,00	0,14	0,27	0,50	12,00
M0000024	RDMT10T3M0CMP3000	130,00	190,00	0,15	0,44	0,50	2,50	190,00	250,00	0,15	0,50	0,50	2,50	150,00	220,00	0,18	0,64	0,50	2,50
M0000025	RDMT1204M0CMP3000	130,00	190,00	0,21	0,51	0,50	3,00	190,00	250,00	0,21	0,58	0,50	3,00	150,00	220,00	0,25	0,74	0,50	3,00
M0000026	RPMT08T2M0CMP3000	130,00	190,00	0,14	0,38	0,50	2,50	190,00	250,00	0,14	0,38	0,50	2,50	150,00	220,00	0,16	0,45	0,50	2,50
M0000027	RPMT10T3M0CMP3000	130,00	190,00	0,15	0,44	0,50	2,50	190,00	250,00	0,15	0,50	0,50	2,50	150,00	220,00	0,18	0,64	0,50	2,50
M0000028	RPMT1204M0CMP3000	130,00	190,00	0,21	0,51	0,50	3,00	190,00	250,00	0,21	0,58	0,50	3,00	150,00	220,00	0,25	0,74	0,50	3,00
M0000029	SEKT12T3CMP3000	130,00	190,00	0,15	0,32	0,50	6,00	190,00	250,00	0,15	0,32	0,50	6,00	150,00	220,00	0,18	0,46	0,50	6,00
M0000030	SEKT1204CMP3000	130,00	190,00	0,18	0,38	0,50	6,00	190,00	250,00	0,20	0,38	0,50	6,00	150,00	220,00	0,16	0,46	0,50	6,00
M0000031	TPKN1603CMP3000	130,00	170,00	0,16	0,25	0,50	12,00	-	-	-	-	-	-	150,00	220,00	0,15	0,27	0,50	12,00
M0000032	TPKR2204CMP3000	130,00	190,00	0,16	0,25	0,50	18,00	140,00	200,00	0,16	0,25	0,50	18,00	150,00	220,00	0,16	0,27	0,50	18,00
M0000033	APKT100308CMP3000	130,00	190,00	0,11	0,18	0,50	9,00	190,00	250,00	0,11	0,21	0,50	9,00	150,00	220,00	0,13	0,26	0,50	9,00
M0000034	APKT160408CSP3000	130,00	190,00	0,22	0,35	0,50	15,00	190,00	250,00	0,24	0,35	0,50	15,00	150,00	220,00	0,20	0,32	0,50	15,00
M0000037	TPKN2204CMP3000	130,00	190,00	0,18	0,30	0,50	18,00	-	-	-	-	-	-	150,00	220,00	0,18	0,32	0,50	18,00
M0000038	APKT1604CMP3000	130,00	190,00	0,15	0,28	0,50	15,00	190,00	250,00	0,17	0,29	0,50	15,00	150,00	220,00	0,13	0,26	0,50	15,00
M0000039	WNMX09T316CSP3000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

DRILLING CUTTING DATA PARAMETRY SKRAWANIA DLA WIERCENIA

ORDER CODE KOD ZAMÓWIENIA	INSERT SHAPE KSZTAŁT PŁYTKI	P STEEL STAL						M STAINLESS STEEL STAL NIERDZENA						K CAST IRON ŻELIWO					
		Vc MIN	Vc MAX	Fz MIN	Fz MAX	Ap MIN	Ap MAX	Vc MIN	Vc MAX	Fz MIN	Fz MAX	Ap MIN	Ap MAX	Vc MIN	Vc MAX	Fz MIN	Fz MAX	Ap MIN	Ap MAX
D0000001	SPMG050204CMP3000	100,00	170,00	0,04	0,09	-	-	170,00	230,00	0,04	0,09	-	-	150,00	210,00	0,07	0,09	-	-
D0000002	SPMG060204CMP3000	100,00	170,00	0,04	0,09	-	-	170,00	230,00	0,04	0,09	-	-	150,00	210,00	0,04	0,10	-	-
D0000003	SPMG07T308CMP3000	100,00	170,00	0,05	0,10	-	-	170,00	230,00	0,05	0,10	-	-	150,00	210,00	0,10	0,11	-	-
D0000004	SPMG090408CMP3000	100,00	170,00	0,06	0,11	-	-	170,00	230,00	0,06	0,11	-	-	150,00	210,00	0,10	0,12	-	-
D0000005	SPMG110408CMP3000	100,00	170,00	0,07	0,14	-	-	170,00	230,00	0,06	0,11	-	-	150,00	210,00	0,10	0,15	-	-
D0000006	SPMG140512CMP3000	100,00	170,00	0,12	0,18	-	-	170,00	230,00	0,13	0,18	-	-	150,00	210,00	0,12	0,18	-	-
D0000007	WCMX030208CMP3000	100,00	170,00	0,04	0,09	-	-	170,00	230,00	0,04	0,09	-	-	150,00	210,00	0,07	0,10	-	-
D0000008	WCMX040208CMP3000	100,00	170,00	0,04	0,09	-	-	170,00	230,00	0,04	0,09	-	-	150,00	210,00	0,07	0,10	-	-
D0000009	WCMX050308CMP3000	100,00	170,00	0,05	0,10	-	-	170,00	230,00	0,05	0,10	-	-	150,00	210,00	0,10	0,11	-	-
D0000010	WCMX06T308CMP3000	100,00	170,00	0,06	0,11	-	-	170,00	230,00	0,06	0,11	-	-	150,00	210,00	0,10	0,12	-	-
D0000011	WCMX080412CMP3000	100,00	170,00	0,07	0,14	-	-	170,00	230,00	0,06	0,11	-	-	150,00	210,00	0,10	0,15	-	-
D0000012	SPMG050204CRP3000	100,00	170,00	0,08	0,12	-	-	170,00	230,00	0,08	0,12	-	-	150,00	210,00	0,07	0,14	-	-
D0000013	SPMG060204CRP3000	100,00	170,00	0,10	0,16	-	-	170,00	230,00	0,10	0,16	-	-	150,00	210,00	0,10	0,16	-	-
D0000014	SPMG07T308CRP3000	100,00	170,00	0,16	0,22	-	-	170,00	230,00	0,17	0,22	-	-	150,00	210,00	0,16	0,22	-	-
D0000015	SPMG090408CRP3000	100,00	170,00	0,15	0,22	-	-	170,00	230,00	0,16	0,22	-	-	150,00	210,00	0,15	0,22	-	-
D0000016	SPMG110408CRP3000	100,00	170,00	0,20	0,26	-	-	170,00	230,00	0,21	0,26	-	-	150,00	210,00	0,18	0,26	-	-

REFERENCES
REFERENCJE

WHO DO WE COLLABORATE WITH?
Z KIM WSPÓŁPRACUJEMY?

TIZ Implements collaborates with many domestic and international companies with a well-established position on the market. Every year, the number of our trading partners is increasing. We are proud of the fact that more and more companies, which have achieved success, trust us and value the quality of our services. The satisfaction of the customers is the greatest motivation and reward for us.

TIZ Implements is a member of the most important organisation, which pertains to research in manufacturing engineering – the CIRP, and a European organisation focused on industrial research – the EFFRA.

TIZ Implements współpracuje z wieloma krajowymi i międzynarodowymi firmami o ugruntowanej pozycji na rynku. Z roku na rok przybywa naszych partnerów handlowych. Jesteśmy dumni z tego, że coraz więcej firm, które odniosły sukces, ufa nam i ceni jakość naszych usług. Zadowolenie klientów jest dla nas największą motywacją i nagrodą.

TIZ Implements jest członkiem najważniejszej organizacji zajmującej się badaniami w inżynierii wytwarzania - CIRP oraz europejskiej organizacji zajmującej się badaniami przemysłowymi - EFFRA.

CIRP THE INTERNATIONAL ACADEMY FOR PRODUCTION ENGINEERING

EFFRA EUROPEAN FACTORIES OF THE FUTURE RESEARCH ASSOCIATION

FoF Factories of the Future Public Private Partnership

TYPES OF INDUSTRIES THAT USE OUR SERVICES:

- Aerospace
- Automobile
- Railway
- Tool
- Machine
- Medical

RODZAJE BRANŻ, KTÓRE KORZYSTAJĄ Z NASZYCH USŁUG:

- Lotnictwo
- Samochód
- Kolej żelazna
- Narzędzie
- Maszyna
- Medyczny

TIZ IMPLEMENTS

tiz@tiz.pl
(+48 22) 423-33-14
(+48 22) 423-33-15