

INFINITY TOOLHOLDERS UCHWYTY INFINITY

High quality Bardzo wysoka jakość elementów

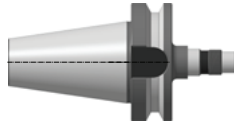
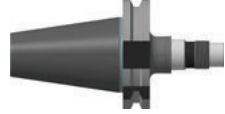
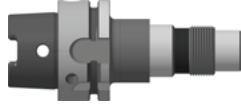

















System modułowy Modular system

Balance Klasa dokładności wyważenia **G1.0**

Seat Runout Bicie osiowe na poziomie **0.003 [mm]**

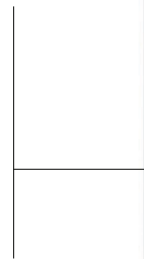
Taper Angle Tolerance Tolerancja wykonania stożka **AT2**



BT BASE TOOLHOLDER FO EXTENSION	BAZOWY UCHWYT BT DO PRZEDŁUŻKI		A5
SK BASE TOOLHOLDER FO EXTENSION	BAZOWY UCHWYT SK DO PRZEDŁUŻKI		A6
HSK-A BASE TOOLHOLDER FO EXTENSION	BAZOWY UCHWYT HSK-A DO PRZEDŁUŻKI		A7-A8
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ER COLLET CHUCK - MINI NUT EXTENSION	UCHWYT Z TULEJĄ ZACISKOWĄ ER - MINI NAKRĘTKA - PRZEDŁUŻKA		A11
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END MILL CHUCK EXTENSION WITHOUT COOLANT	PRZEDŁUŻKA WELDON BEZ CHŁODZENIA		A17
SHELL MILL CHUCK EXTENSION WITH COOLANT	PRZEDŁUŻKA UNIWERSALNA Z CHŁODZENIEM		A18
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End Mill Chuck Extension Interchangeable between Collet Chuck, Screw-In Chuck, High Speed Slim Chuck, Shrink Fit Chuck and more.

Przedłużka weldon wymienna na:
Przedłużka z tuleja zaciskową,
Przedłużka do frezów z gwintem,
Przedłużka do obróbki szybkościowej,
Przedłużka termokurczliwa oraz więcej.



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Przedłużka termokurczliwa oraz więcej.



BT 40 Toolholder Base Interchangeable between:

Uchwy bazowy BT 40 wymienny na:
BT30, BT50, SK30, SK40, SK50,
HSK63A, HSK100A



Etension Chuck
Przedłużka bazowa

Etension Chuck
Przedłużka bazowa

BT 40 Toolholder Base Interchangeable between:

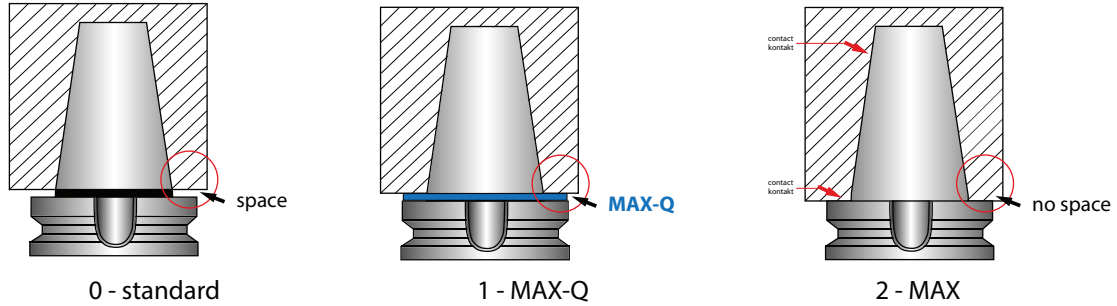
Uchwy bazowy BT 40 wymienny na:
BT30, BT50, SK30, SK40, SK50,
HSK63A, HSK100A



INFINITY SERIES Toolholder
SERIA INFINITY Uchwyt

Code decription for BT, SK

Opis kodu dla BT,SK



0	AD/B
1	AD
2	A

Length Długość
70mm
100mm
102mm
105mm
120mm

B31 1 INF 11 100

Taper type
B3 = BT30
B4 = BT40
B5 = BT50
S4 = SK40
S5 = SK50

BASE TOOLHOLDRER INFINITY UCHWYT BAZOWY INFINITY

Conector size Wielkość złącza
11 = R11
16 = R16
25 = R25
32 = R32
40 = R40

Code decription for HSK-A

Opis kodu dla HSK-A

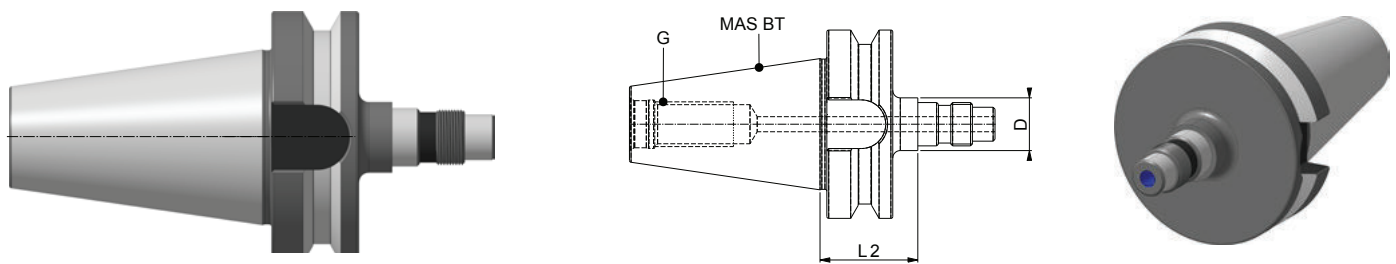
A63 INF 11 100

Taper type
A63 = HSK-63A
A10 = HSK-100A

BASE TOOLHOLDRER INFINITY UCHWYT BAZOWY INFINITY

BT BASE TOOLHOLDER FO EXTENSION
BAZOWY UCHWYT BT DO PRZEDŁUŻKI
FOR COLLETS DIN 6499

DO TULEJEK DIN 6499



EDP No	Taper Stožek	Base Podstawa	D	Length Długość	L2	G
B311INFR08070	BT30	R8	12	70	50,6	M12
B311INFR8S070	BT30	R8S	16	70	50,6	
B311INFR11100	BT30	R11	19	100	65	
B311INFR16100	BT30	R16	28	100	46	
B311INFR20100	BT30	R20	34	100	45	
B311INFR25100	BT30	R25	42	100	38	
B311INFR32100	BT30	R32	50	100	34,5	

B411INFR08070	BT40	R8	12	70	50,6	M16
B411INFR8S070	BT40	R8S	16	70	50,6	
B411INFR11070	BT40	R11	19	70	35	
B411INFR11100	BT40	R11	19	100	65	
B411INFR16100	BT40	R16	28	100	46	
B411INFR20100	BT40	R20	34	100	45	
B411INFR25100	BT40	R25	42	100	38	
B411INFR32100	BT40	R32	50	100	34,5	
B411INFR40100	BT40	R40	63	100	30,5	

B511INFR08070	BT40	R8	12	70	50,6	M24
B511INFR8S070	BT40	R8S	16	70	50,6	
B511INFR11100	BT50	R11	19	100	65	
B511INFR16100	BT50	R16	28	100	46	
B511INFR20100	BT50	R20	34	100	45	
B511INFR25110	BT50	R25	42	110	38	
B511INFR32110	BT50	R32	50	110	44,5	
B511INFR40120	BT50	R40	63	120	50,5	

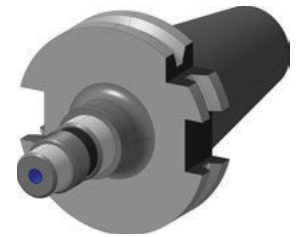
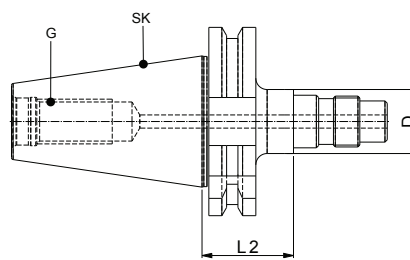
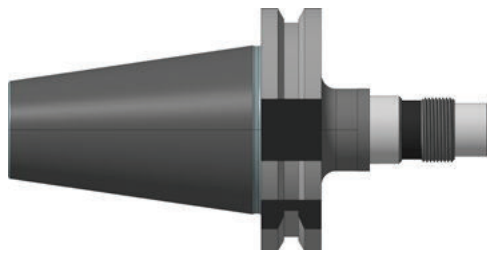
optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 1,0 20 000rpm
Seat runout / Bicie: 0.003mm

SK BASE TOOLHOLDER FO EXTENSION
BAZOWY UCHWYT SK DO PRZEDŁUŻKI
FOR COLLETS DIN 6499

DO TULEJEK DIN 6499



EDP No	Taper Stożek	Base Podstawa	D	Length Długość	L2	G
S411INFR08050	SK40	IR08	12	50	30,6	M16
S411INFR8S050	SK40	IR8S	16	50	30,6	
S411INFR11070	SK40	IR11	19	70	35	
S411INFR16100	SK40	IR16	28	100	46	
S411INFR20100	SK40	IR20	34	100	45	
S411INFR25100	SK40	IR25	42	100	38	
S411INFR32100	SK40	IR32	50	100	34,5	
S411INFR40100	SK40	IR40	63	120	50,5	

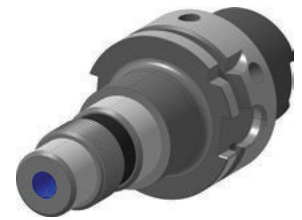
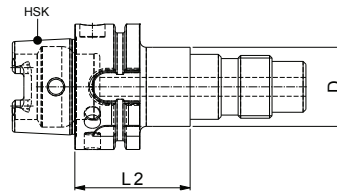
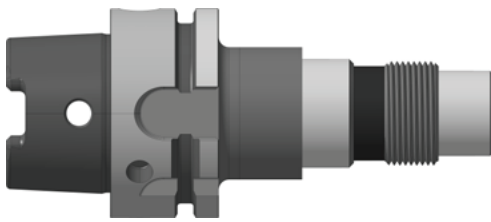
S511INFR08050	SK50	IR08	12	50	30,6	M24
S511INFR8S050	SK50	IR8S	16	50	30,6	
S511INFR11100	SK50	IR11	19	100	65	
S511INFR16100	SK50	IR16	28	100	46	
S511INFR20100	SK50	IR20	34	100	45	
S511INFR25100	SK50	IR25	42	100	38	
S511INFR32100	SK50	IR32	50	100	34,5	
S511INFR40105	SK50	IR40	63	105	35,5	
S511INFR41105	SK50	IR40	70	105	35,5	

optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 1,0 20 000rpm

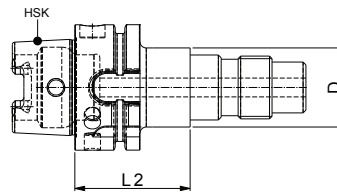
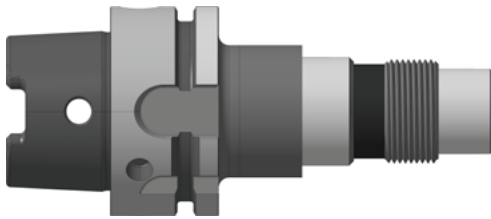
Seat runout / Bicie: 0.003mm

HSK-A BASE TOOLHOLDER FO EXTENSION
BAZOWY UCHWYT HSK-A DO PRZEDŁUŻKI
FOR COLLETS DIN 6499
DO TULEJEK DIN 6499


EDP No	Taper Stożek	Base Podstawa	D	Length Długość	L2
A32INFR08050	HSK32A	R08	12	50	30,6
A32INFR8S050	HSK32A	R8S	16	50	30,6
A32INFR11070	HSK32A	R11	19	70	35
A40INFR08050	HSK40A	R08	12	50	30,6
A40INFR8S050	HSK40A	R8S	16	50	30,6
A40INFR11080	HSK40A	R11	19	80	45
A40INFR16080	HSK40A	R16	28	80	26
A40INFR20080	HSK40A	R20	34	80	25
A50INFR08050	HSK50A	R08	12	50	30,6
A50INFR8S050	HSK50A	R8S	16	50	30,6
A50INFR11070	HSK50A	R11	19	70	35
A50INFR16100	HSK50A	R16	28	100	46
A50INFR20100	HSK50A	R20	34	100	45
A50INFR25100	HSK50A	R25	42	100	38
A50INFR32110	HSK50A	R32	50	100	44,5
A63INFR08070	HSK63A	R08	12	70	50,6
A63INFR8S070	HSK63A	R8S	16	70	50,6
A63INFR11070	HSK63A	R11	19	70	35
A63INFR11100	HSK63A	R11	19	100	65
A63INFR16100	HSK63A	R16	28	100	46
A63INFR20100	HSK63A	R20	34	100	45
A63INFR25100	HSK63A	R25	42	100	38
A63INFR32110	HSK63A	R32	50	110	44,5
A63INFR40120	HSK63A	R40	63	120	50,5

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 1,0 20 000rpm
Seat runout / Bicie: 0.003mm

HSK-A BASE TOOLHOLDER FOR EXTENSION
BAZOWY UCHWYT HSK-A DO PRZEDŁUŻKI
FOR COLLETS DIN 6499
DO TULEJEK DIN 6499


EDP No	Taper Stożek	Base Podstawa	D	Length Długość	L2
A80INFR16100	HSK80A	R16	28	100	46
A80INFR20100	HSK80A	R20	34	100	45
A80INFR25100	HSK80A	R25	42	100	38
A80INFR32110	HSK80A	R32	50	110	44,5
A80INFR40120	HSK80A	R40	63	120	50,5

A10INFR08070	HSK100A	R08	12	70	50,6
A10INFR8S070	HSK100A	R8S	16	70	50,6
A10INFR11100	HSK100A	R11	19	100	65
A10INFR16100	HSK100A	R16	28	100	46
A10INFR20100	HSK100A	R20	34	100	45
A10INFR25110	HSK100A	R25	42	110	38
A10INFR32110	HSK100A	R32	50	110	44,5
A10INFR40120	HSK100A	R40	63	120	50,5
A10INFR42120	HSK100A	R42	85	120	50,5

A12INFR16100	HSK125A	R16	28	100	46
A12INFR20100	HSK125A	R20	34	100	45
A12INFR25100	HSK125A	R25	42	100	38
A12INFR32110	HSK125A	R32	50	110	44,5
A12INFR40120	HSK125A	R40	63	120	50,5
A12INFR42120	HSK125A	R42	70	120	50,5

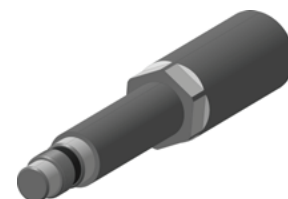
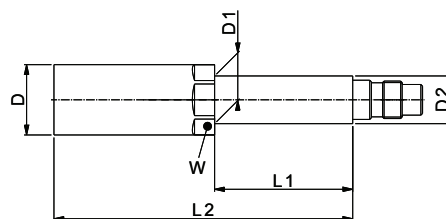
FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 1,0 20 000rpm

Seat runout / Bicie: 0.003mm

EXTENSION BASE SHANK

PRZEDŁUŻKA BAZOWA



EDP No	Base size Rozmiar bazowy	Extension Przedłużka		D	D1	D2	L1	L2	W
		Size Rozmiar	Ln Length Długość						
R08INFR080035EX	R08	R8	35	12	12	12	X	35	WRX108
R08INFR080500EX	R08	R8	50	12	12	12	X	50	WRX108
R08INFR081000EX	R08	R8	100	12	12	12	X	100	WRX108
R8SINFR080500EX	R08	R8	50	16	14	12	X	50	WRX18S
R8SINFR081000EX	R08	R8	100	16	16	12	X	100	WRX18S
R8SINFR8S0500EX	R8S	R8S	50	16	16	16	X	50	WRX18S
R8SINFR8S1000EX	R8S	R8S	100	16	16	16	X	100	WRX18S

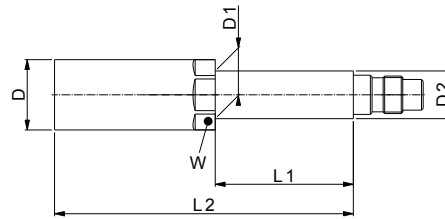
R11INFR080200EX	R11	R8	20	19	12	12	X	20	WRX11
R11INFR080500EX	R11	R8	50	19	15	12	29	50	WRX11
R11INFR080700EX	R11	R8	70	19	17	12	49	70	WRX11
R11INFR081000EX	R11	R8	100	19	12	12	80	100	WRX11
R11INFR8S0500EX	R11	R8S	50	19	16	16	29	50	WRX11
R11INFR8S0700EX	R11	R8S	70	19	16	16	49	70	WRX11
R11INFR8S1000EX	R11	R8S	100	19	16	16	79	100	WRX11
R11INFR111000EX	R11	R11	100	19	19	19	X	100	WRX11
R11INFR112000EX	R11	R11	200	19	19	19	X	200	WRX11

R16INFR110500EX	R16	R11	50	28	28	28	X	50	WRX16
R16INFR111000EX	R16	R11	100	28	19	19	73	100	WRX16
R16INFR161000EX	R16	R16	100	28	28	28	X	100	WRX16
R16INFR161120EX	R16	R16	112	28	28	28	X	112	WRX16
R16INFR162000EX	R16	R16	200	28	28	28	X	200	WRX16

R20INFR160500EX	R20	R16	50	34	34	34	X	50	WRC20
R20INFR161000EX	R20	R16	100	34	28	28	53	100	WRC20
R20INFR161120EX	R20	R16	112	34	28	28	65	112	WRC20
R20INFR201000EX	R20	R20	100	34	34	34	X	100	WRC20
R20INFR201120EX	R20	R20	112	34	34	34	X	112	WRC20

EXTENSION BASE SHANK

PRZEDŁUŻKA BAZOWA



EDP No	Base size Rozmiar bazowy	Extension Przedłużka		D	D1	D2	L1	L2	W
		Size Rozmiar	Ln Length Długość						
R20INFR202000EX	R20	R20	200	34	34	34	X	200	WRC20

R25INFR160500EX	R25	R16	50	42	42	42	X	50	WRH25
R25INFR161000EX	R25	R16	100	42	28	28	47	100	WRH25
R25INFR161120EX	R25	R16	112	42	28	28	59	112	WRH25
R25INFR200500EX	R25	R20	50	42	42	42	X	50	WRH25
R25INFR201000EX	R25	R20	100	42	34	34	46	100	WRH25
R25INFR201120EX	R25	R20	112	42	34	34	58	112	WRH25
R25INFR251000EX	R25	R25	100	42	42	42	X	100	WRH25
R25INFR251120EX	R25	R25	112	42	42	42	X	112	WRH25
R25INFR252000EX	R25	R25	200	42	42	42	X	200	WRH25

R32INFR160500EX	R32	R16	50	50	50	34	4	50	WRH32
R32INFR161000EX	R32	R16	100	50	28	28	54	100	WRH32
R32INFR200500EX	R32	R20	50	50	50	50	X	50	WRH32
R32INFR201000EX	R32	R20	100	50	34	34	40	100	WRH32
R32INFR250500EX	R32	R25	50	50	50	50	X	50	WRH32
R32INFR251000EX	R32	R25	100	50	42	42	77	100	WRH32
R32INFR251120EX	R32	R25	112	50	42	42	89	112	WRH32
R32INFR321000EX	R32	R32	100	50	50	50	X	100	WRH32
R32INFR322000EX	R32	R32	200	50	50	50	X	200	WRH32

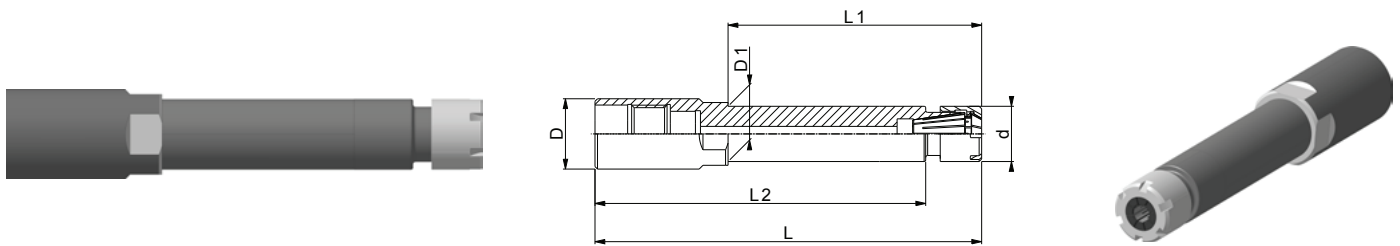
R40INFR250600EX	R40	R25	60	63	42	42	10	60	WRH40
R40INFR251000EX	R40	R25	100	63	42	42	50	100	WRH40
R40INFR251120EX	R40	R25	112	63	42	42	62	112	WRH40
R40INFR320600EX	R40	R32	60	63	50	50	47	60	WRH40
R40INFR321000EX	R40	R32	100	63	50	50	47	100	WRH40
R40INFR321120EX	R40	R32	112	63	50	50	59	112	WRH40
R40INFR401000EX	R40	R40	100	63	63	63	X	100	WRH40
R40INFR401120EX	R40	R40	112	63	63	63	X	112	WRH40
R40INFR411000EX	R40	R41	100	63	70	70	40	100	WRH40
R40INFR421000EX	R40	R42	100	63	85	85	40	100	WRH40

R41NFR411000EX	R41	R41	100	70	70	70	X	100	WRCI41
R41NFR421000EX	R41	R42	100	70	85	85	40	100	WRCI41

R42NFR421000EX	R42	R42	100	85	85	85	X	100	WRCI42
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ER COLLET CHUCK - MINI NUT EXTENSION

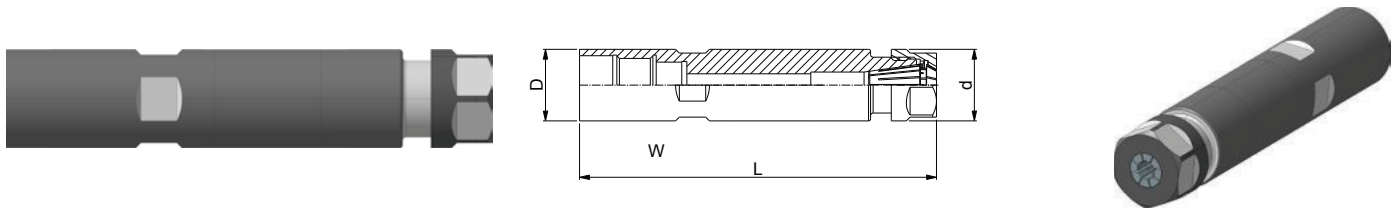
UCHWYT Z TULEJĄ ZACISKOWĄ ER - MINI NAKRĘTKA - PRZEDŁUŻKA



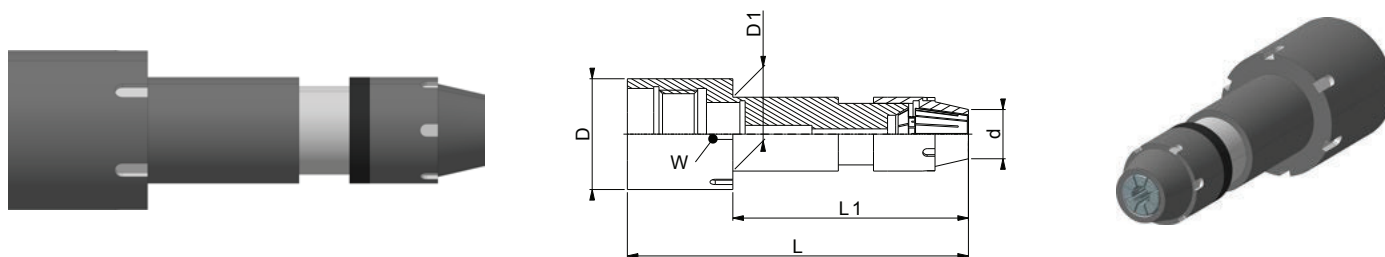
EDP No	Base size Rozmiar bazowy	Extension Przedłużka		D	D1	d	L	L1	L2	W
		Size Rozmiar	Length Długość							
R08INFER080600T	R8	ER8M	60	12	12	12	79,4	X	62,4	WRX108
R08INFER080900T	R8	ER8M	90	12	12	12	109,4	X	92,4	WRX108
R08INFER081000T	R8	ER8M	100	12	12	12	119,4	X	102,4	WRX108
R08INFER081300T	R8	ER8M	130	12	12	12	149,4	X	132,4	WRX108
R8SINFER080600T	R8S	ER8M	60	16	12	12	80	51	63	WRX18S
R8SINFER081000T	R8S	ER8M	100	16	12	12	120	91	133	WRX18S
R8SINFER110300T	R8S	ER11M	30	16	16	16	49,4	X	30,8	WRX18S
R8SINFER110600T	R8S	ER11M	60	16	16	16	79,4	X	60,8	WRX18S
R8SINFER111000T	R8S	ER11M	100	16	16	16	119,4	X	100,8	WRX18S
R11INFER080600T	R11	ER8M	60	19	12	12	95	59	79	WRX11
R11INFER081000T	R11	ER8M	100	19	12	12	135	99	119	WRX11
R11INFER110230T	R11	ER11M	23	19	16	16	58	22	40	WRX11
R11INFER110600T	R11	ER11M	60	19	16	16	95	59	76,4	WRX11
R11INFER111000T	R11	ER11M	100	19	16	16	135	99	116,4	WRX11
R16INFER110600T	R16	ER11M	60	28	16	16	114	61	95,4	WRX16
R16INFER111000T	R16	ER11M	100	28	16	16	154	101	135,4	WRX16
R16INFER160600T	R16	ER16M	60	28	22	22	114	61	89	WRX16
R16INFER161000T	R16	ER16M	100	28	22	22	154	101	129	WRX16
R16INFER200600T	R16	ER20M	60	28	28	28	114	x	86	WRX16
R16INFER201000T	R16	ER20M	100	28	28	28	154	x	126	WRX16

ER COLLET CHUCK EXTENSION

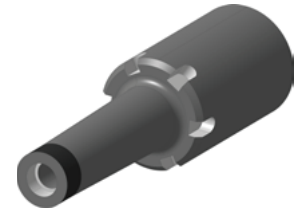
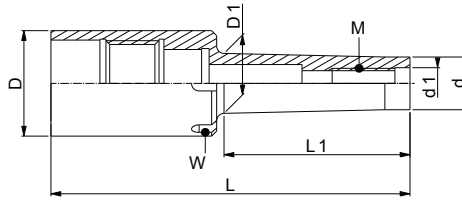
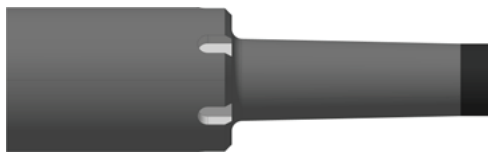
PRZEDŁUŻKA UCHWYTU Z TULEJĄ ZACISKOWĄ ER



EDP No	Base size Rozmiar bazowy	Extension Przedłużka		D	D1	d	L	L1	L2	W
		Size Rozmiar	Length Długość							
R11INFER110600N	R11	ER11	60	19	19	19	95	x	78	WRX11
R11INFER111000N	R11	ER11	100	19	19	19	135	x	118	WRX11
R16INFER110600N	R16	ER11	60	28	19	19	114	48,5	97	WRX16
R16INFER111000N	R16	ER11	100	28	19	19	154	88,5	137	WRX16
R16INFER160600N	R16	ER16	60	28	28	28	115	x	88,5	WRX16
R16INFER161000N	R16	ER16	100	28	28	28	155	x	128,5	WRX16
R16INFER161120N	R16	ER16	112	28	28	28	167	x	140,5	WRX16
R20INFER161000N	R20	ER16	100	34	28	28	156	105,6	129,5	WRC20
R20INFER161120N	R20	ER16	112	34	28	28	168	117,6	141,5	WRC20
R20INFER200600N	R20	ER20	60	34	34	34	117	x	89	WRC20
R20INFER201000N	R20	ER20	100	34	34	34	157	x	129	WRC20
R20INFER201120N	R20	ER20	112	34	34	34	166	x	141	WRC20
R25INFER161000N	R25	ER16	100	42	28	28	163	104,5	136,5	WRH25
R25INFER161120N	R25	ER16	112	42	28	28	175	116,5	148,5	WRH25
R25INFER201000N	R25	ER20	100	42	34	34	164	104,5	136	WRH25
R25INFER250600N	R25	ER25	60	42	42	42	122	x	90	WRH25
R25INFER251000N	R25	ER25	100	42	42	42	162	x	130	WRH25
R32INFER161000N	R32	ER16	100	50	28	28	166	109	140	WRH32
R32INFER161120N	R32	ER16	112	50	28	28	178	121	152	WRH32
R32INFER201000N	R32	ER20	100	50	35	34	166	86	137,5	WRH32
R32INFER201120N	R32	ER20	112	50	35	34	178	98	149,5	WRH32
R32INFER251000N	R32	ER25	100	50	42	42	166	106	108,5	WRH32
R32INFER251120N	R32	ER25	112	50	42	42	178	118	120,5	WRH32
R32INFER320600N	R32	ER32	60	50	50	50	126	x	94	WRH32
R32INFER321000N	R32	ER32	100	50	50	50	166	x	134	WRH32
R32INFER321120N	R32	ER32	112	50	50	50	178	x	146	WRH32
R40INFER251000N	R40	ER25	100	63	42	42	170	141	112,5	WRH40
R40INFER251120N	R40	ER25	112	63	42	42	182	153	124,5	WRH40
R40INFER321000N	R40	ER32	100	63	50	50	170	112	138	WRH40
R40INFER321120N	R40	ER32	112	63	50	50	182	124	150	WRH40
R40INFER400600N	R40	ER40	60	63	63	63	130	x	92,5	WRH40
R40INFER401000N	R40	ER40	100	63	63	63	170	x	132,5	WRH40
R40INFER401120N	R40	ER40	112	63	63	63	182	x	144,5	WRH40

REVERSED ER COLLET CHUCK EXTENSION
PRZEDŁUŻKA UCHWYTU Z ODWROTNĄ TULEJĄ ZACISKOWĄ ER


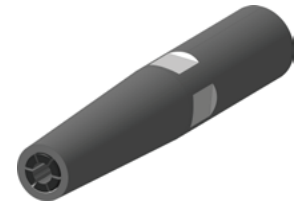
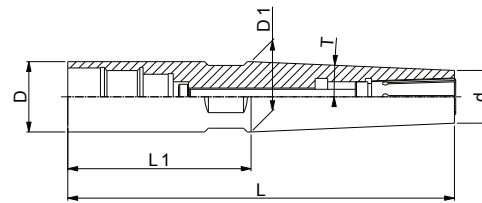
EDP No	Base size Rozmiar bazowy	Extension Przedłużka		D	D1	d	L	L1	L2	L3	W
		Size Rozmiar	Length Długość								
R16INFER160600R	R16	ER16	60	28	28	19	114	114	19	x	WRX16
R16INFER161000R	R16	ER16	100	28	28	19	154	154	19	x	WRX16
R16INFER161120R	R16	ER16	112	28	28	19	166	166	19	x	WRX16
R20INFER161000R	R20	ER16	100	34	28	19	155	102	19	101~	WRC20
R20INFER161120R	R20	ER16	112	34	28	19	167	114	19	113	WRC20
R20INFER200600R	R20	ER20	60	34	34	23	110	110	20	x	WRC20
R20INFER201000R	R20	ER20	100	34	34	23	150	150	20	x	WRC20
R20INFER201120R	R20	ER20	112	34	34	23	167	167	20	x	WRC20
R25INFER161000R	R25	ER16	100	42	28	19	151	83	19	108	WRH25
R25INFER161120R	R25	ER16	112	42	28	19	163	95	19	120	WRH25
R25INFER201000R	R25	ER20	100	42	35	23	131	73	20	107	WRH25
R25INFER201120R	R25	ER20	112	42	35	23	153	85	20	119	WRH25
R25INFER250600R	R25	ER25	60	42	42	28	122	122	22	x	WRH25
R25INFER251000R	R25	ER25	100	42	42	28	162	162	22	x	WRH25
R25INFER251120R	R25	ER25	112	42	42	28	174	174	22	x	WRH25
R32INFER161000R	R32	ER16	100	50	28	19	155	73	19	111	WRH32
R32INFER161120R	R32	ER16	112	50	28	19	167	85	19	123	WRH32
R32INFER201000R	R32	ER20	100	50	35	23	158	88	20	110	WRH32
R32INFER201120R	R32	ER20	112	50	35	23	170	100	20	122	WRH32
R32INFER251000R	R32	ER25	100	50	42	28	160	101	22	103	WRH32
R32INFER251120R	R32	ER25	112	50	42	28	172	113	22	115	WRH32
R32INFER320600R	R32	ER32	60	50	50	34	125	125	25	x	WRH32
R32INFER321000R	R32	ER32	100	50	50	34	165	165	25	x	WRH32
R40INFER251000R	R40	ER25	100	63	42	28	170	98	22	107	WRH40
R40INFER251120R	R40	ER25	112	63	42	28	182	110	22	119	WRH40
R40INFER321000R	R40	ER32	100	63	50	34	170	75	25	104	WRH40
R40INFER321120R	R40	ER32	112	63	50	34	182	87	25	116	WRH40
R40INFER400600R	R40	ER40	60	63	63	42	130	130	24	x	WRH40
R40INFER401000R	R40	ER40	100	63	63	42	170	170	24	x	WRH40
R40INFER401120R	R40	ER40	112	63	63	42	182	182	24	x	WRH40

SCREW-IN CHUCK - EXTENSION
PRZEDŁUŻKA UCHWYTU DO FREZA WKRĘCANEGO


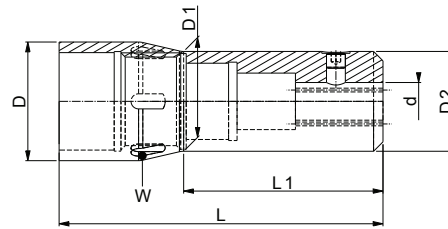
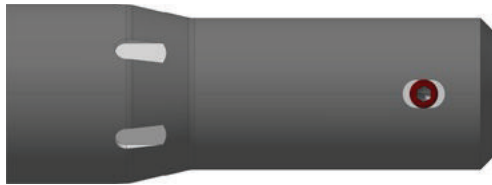
EDP No	Base Baza	Size Rozmiar	Length Długość	D	D1	d	d1	L	L1	W
R11INFM080600S	R11	M08	60	19	19	13	8.5	95	55	WRX11
R11INFM081000S	R11	M08	100	19	19	13	8.5	135	95	WRX11
R11INFM100600S	R11	M10	60	19	19	18	10.5	95	55	WRX11
R11INFM101000S	R11	M10	100	19	19	18	10.5	135	95	WRX11
R16INFM100600S	R16	M10	60	28	25	18	10.5	114	58	WRX16
R16INFM101000S	R16	M10	100	28	25	18	10.5	154	98	WRX16
R16INFM120600S	R16	M12	60	28	25	21	12.5	114	58	WRX16
R16INFM121000S	R16	M12	100	28	25	21	12.5	154	98	WRX16
R20INFM100600S	R20	M10	60	34	25	18	10.5	115	62	WRC20
R20INFM101000S	R20	M10	100	34	25	18	10.5	155	102	WRC20
R20INFM101120S	R20	M10	112	34	25	18	10.5	167	110	WRC20
R20INFM120600S	R20	M12	60	34	24	21	12.5	115	62	WRC20
R20INFM121000S	R20	M12	100	34	24	21	12.5	155	102	WRC20
R20INFM160600S	R20	M16	60	34	34	29	17	115	62	WRC20
R20INFM161000S	R20	M16	100	34	34	29	17	155	102	WRC20
R25INFM121120S	R25	M12	112	42	24	21	12.5	143	77	WRH25
R25INFM161120S	R25	M16	112	42	34	29	17	143	90	WRH25

HIGH SPEED SLIM CHUCK - EXTENSION

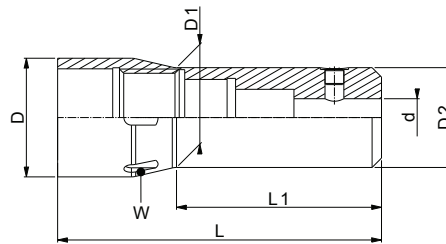
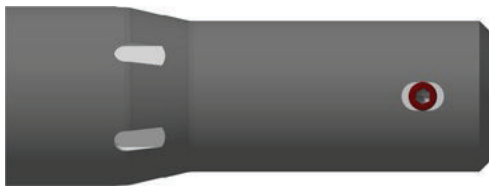
PRZEDŁUŻKA UCHWYTU DO OBRÓBKI SZYBKOŚCIOWEJ



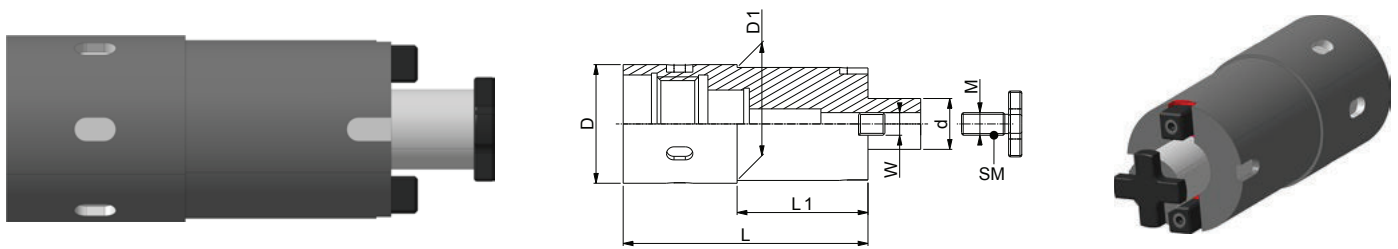
EDP No	Base Baza	Size Rozmiar	Length Długość	D	D1	d	L	L1	T	W
R11INFHC06100H	R11	HC06	100	19	19	13	135	68	2,5	WRX11
R16INFHC06100H	R16	HC06	100	28	21	13	154	87	2,5	WRX16
R16INFHC10100H	R16	HC10	100	28	28	21	154	73	3	WRX16
R20INFHC16100H	R20	HC16	100	34	34	32	155	18	3	WRX20

END MILL CHUCK EXTENSION WITH COOLANT
PRZEDŁUŻKA WELDON Z CHŁODZENIEM


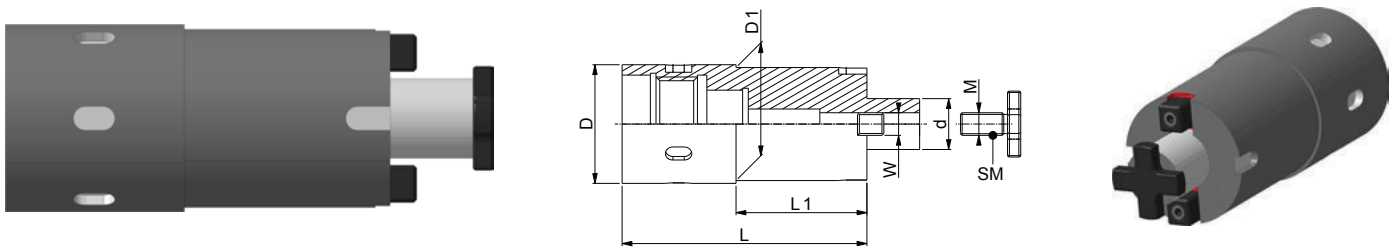
EDP No	Base Baza	Size Rozmiar	Length Długość	D	D1	D2	d	L	L1	W
R16INFEM060600C	R16	EM06	60	28	25	25	6	114	52	WRX16
R16INFEM061000C	R16	EM06	100	28	25	25	6	154	92	WRX16
R16INFEM080600C	R16	EM08	60	28	28	28	8	114	x	WRX16
R16INFEM081000C	R16	EM08	100	28	28	28	8	154	x	WRX16
R20INFEM100600C	R20	EM10	60	34	35	35	10	115	65	WRC20
R20INFEM101000C	R20	EM10	100	34	35	35	10	155	105	WRC20
R25INFEM120600C	R25	EM12	60	42	42	42	12	122	x	WRH25
R25INFEM121000C	R25	EM12	100	42	42	42	12	162	x	WRH25
R25INFEM160600C	R25	EM16	60	42	48	48	16	122	62	WRH25
R25INFEM161000C	R25	EM16	100	42	48	48	16	162	102	WRH25
R32INFEM160600C	R32	EM16	60	50	48	48	16	126	65	WRH32
R32INFEM161000C	R32	EM16	100	50	48	48	16	166	105	WRH32
R32INFEM200600C	R32	EM20	60	50	52	52	20	172	65	WRH32
R32INFEM201000C	R32	EM20	100	50	52	52	20	166	105	WRH32
R40INFEM201000C	R40	EM20	100	63	52	52	20	172	111	WRH40
R40INFEM250600C	R40	EM25	60	63	63	63	25	130	x	WRH40
R40INFEM251000C	R40	EM25	100	63	63	63	25	170	x	WRH40
R41INFEM320600C	R41	EM32	60	70	72	72	32	130	69	WRH40
R41INFEM321000C	R41	EM32	100	70	72	72	32	170	109	WRH40

END MILL CHUCK EXTENSION WITHOUT COOLANT
PRZEDŁUŻKA WELDON BEZ CHŁODZENIA


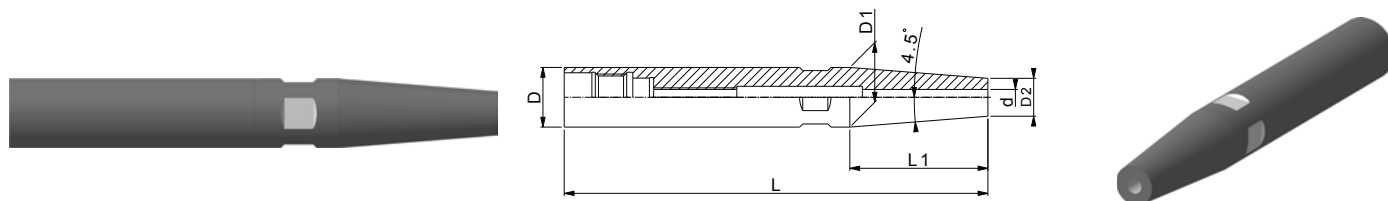
EDP No	Base Baza	Size Rozmiar	Length Długość	D	D1	D2	d	L	L1	W
R16INFR060600E	R16	EM06	60	28	25	25	6	114	52	WRX16
R16INFR061000E	R16	EM06	100	28	25	25	6	154	92	WRX16
R16INFR080600E	R16	EM08	60	28	28	28	8	114	x	WRX16
R16INFR081000E	R16	EM08	100	28	28	28	8	154	x	WRX16
R20INFR081120E	R20	EM08	112	34	28	28	8	167	x	WRC20
R20INFR100600E	R20	EM10	60	34	35	35	10	115	65	WRC20
R20INFR101000E	R20	EM10	100	34	35	35	10	155	105	WRC20
R25INFR120600E	R25	EM12	60	42	42	42	12	122	x	WRH25
R25INFR121000E	R25	EM12	100	42	42	42	12	162	x	WRH25
R25INFR140600E	R25	EM14	60	42	44	44	14	122	62	WRH25
R25INFR140100E	R26	EM14	100	42	44	44	14	162	102	WRH25
R25INFR160600E	R25	EM16	60	42	48	48	16	122	62	WRH25
R25INFR161000E	R25	EM16	100	42	48	48	16	162	102	WRH25
R32INFR160600E	R32	EM16	60	50	48	48	16	126	65	WRH32
R32INFR161000E	R32	EM16	100	50	48	48	16	166	105	WRH32
R32INFR180600E	R32	EM18	60	50	50	50	18	126	x	WRH32
R32INFR180100E	R32	EM18	100	50	50	50	18	166	x	WRH32
R32INFR200600E	R32	EM20	60	50	52	52	20	126	65	WRH32
R32INFR201000E	R32	EM20	100	50	52	52	20	166	105	WRH32
R40INFR201120E	R40	EM20	112	63	52	52	20	182	121	WRH40
R40INFR250600E	R40	EM25	60	63	63	63	25	129,5	x	WRH40
R40INFR251000E	R40	EM25	100	63	63	63	25	169,5	x	WRH40
R40INFR251120E	R40	EM25	112	63	63	63	25	181,5	x	WRH40
R41INFR320600E	R41	EM32	60	70	72	72	32	129,5	69	WRH40
R41INFR321000E	R41	EM32	100	70	72	72	32	169,5	109	WRH40
R41INFR401000E	R41	EM40	100	70	80	80	40	169,5	109	WRH40
R42INFR501000E	R42	EM50	100	85	92	92	50	169,5	109	WRH40

SHELL MILL CHUCK EXTENSION WITH COOLANT
PRZEDŁUŻKA UNIWERSALNA Z CHŁODZENIEM


EDP No	Base Baza	Size Rozmiar	Length Długość	d	L	D1	L1	L2	M	W
R20INFFMA16060C	R20	FMA16	60	16	115	38	17	5	M8	8
R20INFFMA16100C	R20	FMA16	100	16	155	38	17	5	M8	8
R25INFFMA16060C	R25	FMA16	60	16	122	38	17	5	M8	8
R25INFFMA16100C	R25	FMA16	100	16	162	38	17	5	M8	8
R32INFFMA22060C	R32	FMA22	60	22	89	50	19	5	M10	10
R32INFFMA22096C	R32	FMA22	96	22	125	50	19	5	M10	10
R32INFFMA22100C	R32	FMA22	100	22	129	50	19	5	M10	10
R32INFFMA27060C	R32	FMA27	60	27	89	60	21	6	M12	12
R32INFFMA27100C	R32	FMA27	100	27	129	60	21	6	M12	12
R40INFFMA27060C	R40	FMA27	60	27	130	60	21	6	M12	12
R40INFFMA27100C	R40	FMA27	100	27	170	60	21	6	M12	12
R40INFFMA32060C	R40	FMA32	60	32	130	78	24	7	M16	14
R40INFFMA32100C	R40	FMA32	100	32	170	78	24	7	M16	14
R40INFFMA40060C	R40	FMA40	60	40	130	89	27	8,5	M20	16
R40INFFMA40100C	R40	FMA40	100	40	170	89	27	8,5	M20	16
R40INFFMA60060C	R40	FMA60	60	60	130	129	40	12,5	M16*4	25,4
R40INFFMA60100C	R40	FMA60	100	60	170	129	40	12,5	M16*4	25,4

SHELL MILL CHUCK EXTENSION WITHOUT COOLANT
PRZEDŁUŻKA UNIWERSALNA BEZ CHŁODZENIA


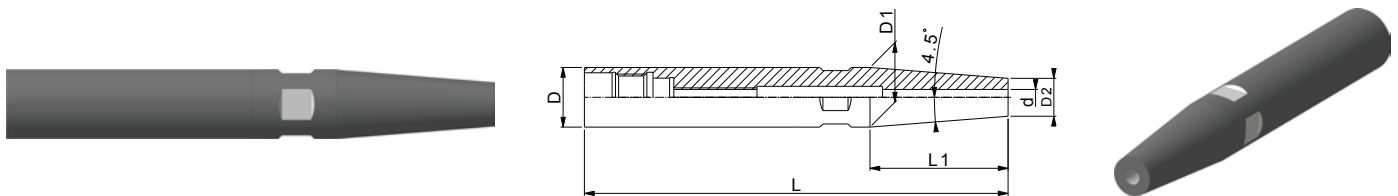
EDP No	Base Baza	Size Rozmiar	Length Długość	d	L	D1	L1	L2	M	W
R20INFFMA16060N	R20	FMA16	60	16	115	38	17	5	M8	8
R20INFFMA16100N	R20	FMA16	100	16	155	38	17	5	M8	8
R25INFFMA16060N	R25	FMA16	60	16	122	38	17	5	M8	8
R25INFFMA16100N	R25	FMA16	100	16	162	38	17	5	M8	8
R32INFFMA22060N	R32	FMA22	60	22	89	50	19	5	M10	10
R32INFFMA22096N	R32	FMA22	96	22	125	50	19	5	M10	10
R32INFFMA22100N	R32	FMA22	100	22	129	50	19	5	M10	10
R32INFFMA27060N	R32	FMA27	60	27	89	60	21	6	M12	12
R32INFFMA27100N	R32	FMA27	100	27	129	60	21	6	M12	12
R40INFFMA27060N	R40	FMA27	60	27	130	60	21	6	M12	12
R40INFFMA27100N	R40	FMA27	100	27	170	60	21	6	M12	12
R40INFFMA32060N	R40	FMA32	60	32	130	78	24	7	M16	14
R40INFFMA32100N	R40	FMA32	100	32	170	78	24	7	M16	14
R40INFFMA40060N	R40	FMA40	60	40	130	89	27	8,5	M20	16
R40INFFMA40100N	R40	FMA40	100	40	170	89	27	8,5	M20	16
R40INFFMA60060N	R40	FMA60	60	60	130	129	40	12,5	M16*4	25,4
R40INFFMA60100N	R40	FMA60	100	60	170	129	40	12,5	M16*4	25,4

4,5° SHRINK FIT HOLDER - EXTENSION
PRZEDŁUŻKA UCHWYTU TERMOKURCZLIWEGO


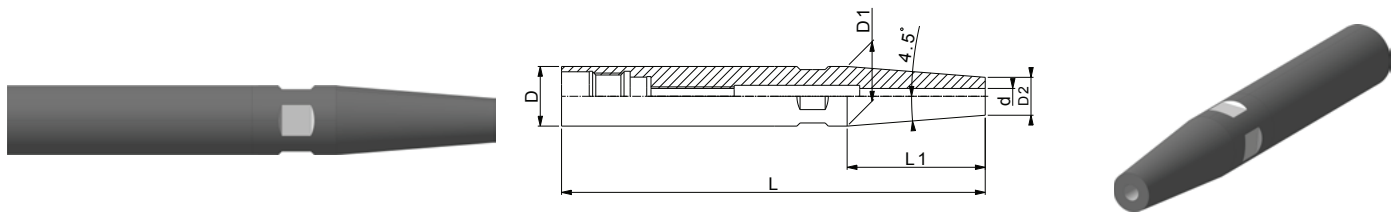
EDP No	Base Baza	Size Rozmiar	Length Długość	D	D1	D2	d	L	L1	W
R8SINF0306004	R8S	S03	60	16	16	10	3	80	38	WRX18S
R8SINF0306014	R8S	S03	100	16	16	10	3	120	38	WRX18S
R11INF0306004	R11	S03	60	19	19	10	3	95	57	WRX11
R11INF0310004	R11	S03	100	19	19	10	3	135	57	WRX11
R11INF0406004	R11	S04	60	19	19	12	4	95	44	WRX11
R11INF0410004	R11	S04	100	19	19	12	4	135	44	WRX11
R11INF0506004	R11	S05	60	19	19	12	5	95	44	WRX11
R11INF0510004	R11	S05	100	19	19	12	5	135	44	WRX11
R16INF0606004	R16	S06	60	28	28	21	6	114	44	WRX16
R16INF0610004	R16	S06	100	28	28	21	6	154	44	WRX16
R16INF0806004	R16	S08	60	28	28	21	8	114	44	WRX16
R16INF0810004	R16	S08	100	28	28	21	8	154	44	WRX16
R16INF1006004	R16	S10	60	28	28	24	10	114	25	WRX16
R16INF1010004	R16	S10	100	28	28	24	10	154	25	WRX16
R16INF1206004	R16	S12	60	28	28	24	12	114	25	WRX16
R16INF1210004	R16	S12	100	28	28	24	12	154	25	WRX16
R20INF1406004	R20	S14	60	34	34	27	14	115	44	WRC20
R20INF1410004	R20	S14	100	34	34	27	14	155	44	WRC20
R20INF1606004	R20	S16	60	34	34	27	16	115	44	WRC20
R20INF1610004	R20	S16	100	34	34	27	16	155	44	WRC20
R25INF1806004	R25	S18	60	42	42	33	18	122	57	WRH25
R25INF1810004	R25	S18	100	42	42	33	18	162	57	WRH25
R25INF2006004	R25	S20	60	42	42	33	20	122	57	WRH25
R25INF2010004	R25	S20	100	42	42	33	20	162	57	WRH25
R32INF2506004	R32	S25	60	50	50	44	25	126	38	WRH32
R32INF2510004	R32	S25	100	50	50	44	25	166	38	WRH32
R32INF3206004	R32	S32	60	50	50	44	32	126	38	WRH32
R32INF3210004	R32	S32	100	50	50	44	32	166	38	WRH32

4,5° SHRINK FIT HOLDER - SLIM - EXTENSION

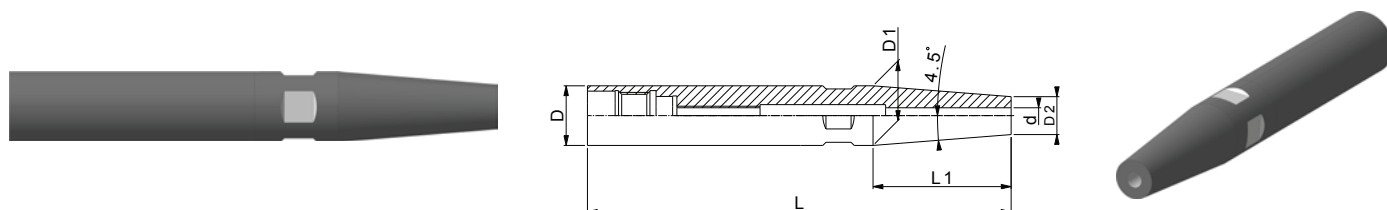
PRZEDŁUŻKA UCHWYTU TERMOKURCZLIWEGO - SMUKŁEGO



EDP No	Base Baza	Size Rozmiar	Length Długość	D	D1	D2	d	L	L1	W
R11INFS060604S	R11	S06	60	19	19	15	6	95	31	WRX11
R11INFS061004S	R11	S06	100	19	19	15	6	135	31	WRX11
R11INFS080604S	R11	S08	60	19	19	15	8	95	31	WRX11
R11INFS081004S	R11	S08	100	19	19	15	8	135	31	WRX11
R16INFS100604S	R16	S10	60	28	27	18	10	114	57	WRX16
R16INFS101004S	R16	S10	100	28	28	18	10	154	63	WRX16
R16INFS120604S	R16	S12	60	28	27	18	12	114	57	WRX16
R16INFS121004S	R16	S12	100	28	27	18	12	154	57	WRX16
R16INFS160604S	R16	S16	60	28	28	21	16	114	45	WRX16
R16INFS161004S	R16	S16	100	28	28	21	16	154	45	WRX16
R20INFS200604S	R20	S20	60	34	34	25	20	114	57	WRX20
R20INFS201004S	R20	S20	100	34	34	25	20	154	57	WRX20

3° SHRINK FIT HOLDER - EXTENSION
PRZEDŁUŻKA UCHWYTU TERMOKURCZLIWEGO


EDP No	Base Baza	Size Rozmiar	Length Długość	D	D1	D2	d	L	L1	W
R8SINF50306003	R8S	S03	60	16	14	9	3	80	44	WRX18S
R8SINF50310003	R8S	S03	100	16	16	9	3	120	66	WRX18S
R8SINF50406003	R8S	S04	60	16	14	10	4	80	39	WRX18S
R8SINF50410003	R8S	S04	100	16	16	10	4	120	57	WRX18S
R8SINF50506003	R8S	S05	60	16	15	11	5	80	39	WRX18S
R8SINF50510003	R8S	S05	100	16	16	11	5	120	47	WRX18S
R8SINF50606003	R8S	S06	60	16	16	12	6	80	38	WRX18S
R8SINF50610003	R8S	S06	100	16	16	12	6	120	38	WRX18S
R11INF50306003	R11	S03	60	19	15	9	3	95	58	WRX11
R11INF50310003	R11	S03	100	19	19	9	3	135	95	WRX11
R11INF50406003	R11	S04	60	19	16	10	4	95	53	WRX11
R11INF50410003	R11	S04	100	19	19	10	4	135	85	WRX11
R11INF50506003	R11	S05	60	19	16	11	5	95	54	WRX11
R11INF50510003	R11	S05	100	19	19	11	5	135	76	WRX11
R11INF50606003	R11	S06	60	19	18	12	6	95	54	WRX11
R11INF50610003	R11	S06	100	19	19	12	6	135	66	WRX11
R11INF50806003	R11	S08	60	19	19	14	8	95	47	WRX11
R11INF50810003	R11	S08	100	19	19	14	8	135	47	WRX11
R11INF51006003	R11	S10	60	19	19	16	10	95	28	WRX11
R11INF51010003	R11	S10	100	19	19	16	10	135	28	WRX11
R11INF51206003	R11	S12	60	21	21	18	12	95	28	WRX11
R11INF51210003	R11	S12	100	21	21	18	12	135	28	WRX11
R16INF51210003	R16	S12	100	28	28	18	12	154	95	WRX16
R16INF51606003	R16	S16	60	28	28	22	16	114	57	WRX16
R16INF51610003	R16	S16	100	28	28	22	16	154	57	WRX16
R20INF51610003	R20	S16	100	34	33	22	16	155	105	WRC20
R20INF52006003	R20	S20	60	34	34	27	20	115	66	WRC20
R20INF52010003	R20	S20	100	34	34	27	20	155	66	WRC20
R25INF52506003	R25	S25	60	42	41	34	25	122	64	WRH25
R25INF52510003	R25	S25	100	42	42	34	25	162	64	WRH25

3° SHRINK FIT HOLDER - SLIM - EXTENSION
PRZEDŁUŻKA UCHWYTU TERMOKURCZLIWEGO - SMUKŁEGO


EDP No	Base Baza	Size Rozmiar	Length Długość	D	D1	D2	d	L	L1	W
R08INFS030603S	R8	S03	60	12	12	6	3	80	43	WRXI08
R08INFS031003S	R8	S03	100	12	12	6	3	120	57	WRXI08
R08INFS040603S	R8	S04	60	12	12	7	4	80	47	WRXI08
R08INFS041003S	R8	S04	100	12	12	7	4	120	47	WRXI08
R08INFS050603S	R8	S05	60	12	12	8	5	80	38	WRXI08
R08INFS051003S	R8	S05	100	12	12	8	5	120	38	WRXI08
R08INFS060603S	R8	S06	60	12	12	9	6	80	28	WRXI08
R08INFS061003S	R8	S06	100	12	12	9	6	120	28	WRXI08
R8SINFS030603S	R8S	S03	60	16	11	6	3	80	42	WRXI8S
R8SINFS031003S	R8S	S03	100	16	14	6	3	120	78	WRXI8S
R8SINFS040603S	R8S	S04	60	16	12	7	4	80	37	WRXI8S
R8SINFS041003S	R8S	S04	100	16	16	7	4	120	85	WRXI8S
R8SINFS050603S	R8S	S05	60	16	12	8	5	80	38	WRXI8S
R8SINFS051003S	R8S	S05	100	16	16	8	5	120	76	WRXI8S
R8SINFS060603S	R8S	S06	60	16	15	9	6	80	43	WRXI8S
R8SINFS061003S	R8S	S06	100	16	16	9	6	120	66	WRXI8S
R8SINFS080603S	R8S	S08	60	16	16	11	8	80	47	WRXI8S
R8SINFS081003S	R8S	S08	100	16	16	11	8	120	47	WRXI8S
R8SINFS100603S	R8S	S10	60	16	16	13	10	80	28	WRXI8S
R8SINFS101003S	R8S	S10	100	16	16	13	10	120	28	WRXI8S
R11INFS030603S	R11	S03	60	19	12	6	3	95	59	WRX11
R11INFS031003S	R11	S03	100	19	16	6	3	135	99	WRX11
R11INFS040603S	R11	S04	60	19	13	7	4	95	57	WRX11
R11INFS041003S	R11	S04	100	19	17	7	4	135	94	WRX11
R11INFS050603S	R11	S05	60	19	14	8	5	95	58	WRX11
R11INFS051003S	R11	S05	100	19	18	8	5	135	94	WRX11
R11INFS060603S	R11	S06	60	19	15	9	6	95	59	WRX11
R11INFS061003S	R11	S06	100	19	19	9	6	135	95	WRX11
R11INFS080603S	R11	S08	60	19	17	11	8	95	59	WRX11
R11INFS081003S	R11	S08	100	19	19	11	8	135	76	WRX11
R11INFS100603S	R11	S10	60	19	19	13	10	95	57	WRX11
R11INFS101003S	R11	S10	100	19	19	13	10	135	57	WRX11
R11INFS120603S	R11	S12	60	19	19	15	12	95	38	WRX11
R11INFS121003S	R11	S12	100	19	19	15	12	135	38	WRX11

ER COLLET- TPT
TULEJKA ER- TPT

DIN 6499



EDP No	Size Rozmiar	Clamping range Zacisk
TPT00ER8030	ER8	3.0-2.5
TPT00ER8035		3.5-3.0
TPT00ER8040		4.0-3.5
TPT00ER8045		4.5-4.0
TPT00ER8050		5.0-4.5

TPT00ER11030	ER11	3.0-2.0
TPT00ER11040		4.0-3.0
TPT00ER11050		5.0-4.0
TPT00ER11060		6.0-5.0
TPT00ER11070		7.0-6.0

TPT00ER16030	ER16	3.0-2.0
TPT00ER16040		4.0-3.0
TPT00ER16050		5.0-4.0
TPT00ER16060		6.0-5.0
TPT00ER16070		7.0-6.0
TPT00ER16080		8.0-7.0
TPT00ER16090		9.0-8.0
TPT00ER16100		10.0-9.0

TPT00ER20030	ER20	3.0-2.0
TPT00ER20040		4.0-3.0
TPT00ER20050		5.0-4.0
TPT00ER20060		6.0-5.0
TPT00ER20070		7.0-6.0
TPT00ER20080		8.0-7.0
TPT00ER20090		9.0-8.0
TPT00ER20100		10.0-9.0
TPT00ER20110		11.0-10.0
TPT00ER20120		12.0-11.0
TPT00ER20130	13.0-12.0	

TPT00ER25030	ER25	3.0-2.0
TPT00ER25040		4.0-3.0
TPT00ER25050		5.0-4.0
TPT00ER25060		6.0-5.0
TPT00ER25070		7.0-6.0

EDP No	Size Rozmiar	Clamping range Zacisk
TPT00ER25080	ER25	8.0-7.0
TPT00ER25090		9.0-8.0
TPT00ER25100		10.0-9.0
TPT00ER25110		11.0-10.0
TPT00ER25120		12.0-11.0
TPT00ER25130		13.0-12.0
TPT00ER25140		14.0-13.0
TPT00ER25150		15.0-14.0
TPT00ER25160		16.0-15.0

TPT00ER32030	ER32	3.0-2.0
TPT00ER32040		4.0-3.0
TPT00ER32050		5.0-4.0
TPT00ER32060		6.0-5.0
TPT00ER32070		7.0-6.0
TPT00ER32080		8.0-7.0
TPT00ER32090		9.0-8.0
TPT00ER32100		10.0-9.0
TPT00ER32110		11.0-10.0
TPT00ER32120		12.0-11.0
TPT00ER32130		13.0-12.0
TPT00ER32140		14.0-13.0
TPT00ER32150		15.0-14.0
TPT00ER32160		16.0-15.0
TPT00ER32170		17.0-16.0
TPT00ER32180		18.0-17.0
TPT00ER32190	19.0-18.0	
TPT00ER32200	20.0-19.0	

TPT00ER40030	ER40	3.0-2.0
TPT00ER40040		4.0-3.0
TPT00ER40050		5.0-4.0
TPT00ER40060		6.0-5.0
TPT00ER40070		7.0-6.0
TPT00ER40080		8.0-7.0
TPT00ER40090		9.0-8.0
TPT00ER40100		10.0-9.0
TPT00ER40110	11.0-10.0	

ER COLLET- TPT

TULEJKA ER- TPT

DIN 6499



EDP No	Size Rozmiar	Clamping range Zacisk
TPT00ER40120	ER40	12.0-11.0
TPT00ER40130		13.0-12.0
TPT00ER40140		14.0-13.0
TPT00ER40150		15.0-14.0
TPT00ER40160		16.0-15.0
TPT00ER40170		17.0-16.0
TPT00ER40180		18.0-17.0
TPT00ER40190		19.0-18.0
TPT00ER40200		20.0-19.0
TPT00ER40210		21.0-20.0
TPT00ER40220		22.0-21.0
TPT00ER40230		23.0-22.0
TPT00ER40240		24.0-23.0
TPT00ER40250		25.0-24.0
TPT00ER40260		26.0-25.0

IR COLLET- TPT

TULEJKA IR- TPT

DIN 6499



EDP No	Size Rozmiar	Clamping range Zacisk
TPT00IR8030	ER8	3.0-2.5
TPT00IR8035		3.5-3.0
TPT00IR8040		4.0-3.5
TPT00IR8045		4.5-4.0
TPT00IR8050		5.0-4.5

TPT00IR11030	ER11	3.0-2.0
TPT00IR11040		4.0-3.0
TPT00IR11050		5.0-4.0
TPT00IR11060		6.0-5.0
TPT00IR11070		7.0-6.0

TPT00IR16030	ER16	3.0-2.0
TPT00IR16040		4.0-3.0
TPT00IR16050		5.0-4.0
TPT00IR16060		6.0-5.0
TPT00IR16070		7.0-6.0
TPT00IR16080		8.0-7.0
TPT00IR16090		9.0-8.0
TPT00IR16100		10.0-9.0

TPT00IR20030	ER20	3.0-2.0
TPT00IR20040		4.0-3.0
TPT00IR20050		5.0-4.0
TPT00IR20060		6.0-5.0
TPT00IR20070		7.0-6.0
TPT00IR20080		8.0-7.0
TPT00IR20090		9.0-8.0
TPT00IR20100		10.0-9.0
TPT00IR20110		11.0-10.0
TPT00IR20120		12.0-11.0
TPT00IR20130	13.0-12.0	

TPT00IR25030	ER25	3.0-2.0
TPT00IR25040		4.0-3.0
TPT00IR25050		5.0-4.0
TPT00IR25060		6.0-5.0
TPT00IR25070		7.0-6.0

EDP No	Size Rozmiar	Clamping range Zacisk
TPT00IR25080	ER25	8.0-7.0
TPT00IR25090		9.0-8.0
TPT00IR25100		10.0-9.0
TPT00IR25110		11.0-10.0
TPT00IR25120		12.0-11.0
TPT00IR25130		13.0-12.0
TPT00IR25140		14.0-13.0
TPT00IR25150		15.0-14.0
TPT00IR25160		16.0-15.0

TPT00IR32030	ER32	3.0-2.0
TPT00IR32040		4.0-3.0
TPT00IR32050		5.0-4.0
TPT00IR32060		6.0-5.0
TPT00IR32070		7.0-6.0
TPT00IR32080		8.0-7.0
TPT00IR32090		9.0-8.0
TPT00IR32100		10.0-9.0
TPT00IR32110		11.0-10.0
TPT00IR32120		12.0-11.0
TPT00IR32130		13.0-12.0
TPT00IR32140		14.0-13.0
TPT00IR32150		15.0-14.0
TPT00IR32160		16.0-15.0
TPT00IR32170		17.0-16.0
TPT00IR32180		18.0-17.0
TPT00IR32190	19.0-18.0	
TPT00IR32200	20.0-19.0	

TPT00IR40030	ER40	3.0-2.0
TPT00IR40040		4.0-3.0
TPT00IR40050		5.0-4.0
TPT00IR40060		6.0-5.0
TPT00IR40070		7.0-6.0
TPT00IR40080		8.0-7.0
TPT00IR40090		9.0-8.0
TPT00IR40100		10.0-9.0
TPT00IR40110		11.0-10.0

IR COLLET- TPT

TULEJKA IR- TPT

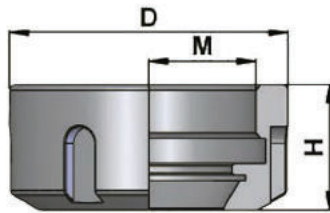
DIN 6499



EDP No	Size Rozmiar	Clamping range Zacisk
TPT00IR40120	ER40	12.0-11.0
TPT00IR40130		13.0-12.0
TPT00IR40140		14.0-13.0
TPT00IR40150		15.0-14.0
TPT00IR40160		16.0-15.0
TPT00IR40170		17.0-16.0
TPT00IR40180		18.0-17.0
TPT00IR40190		19.0-18.0
TPT00IR40200		20.0-19.0
TPT00IR40210		21.0-20.0
TPT00IR40220		22.0-21.0
TPT00IR40230		23.0-22.0
TPT00IR40240		24.0-23.0
TPT00IR40250		25.0-24.0
TPT00IR40260		26.0-25.0

ER CLAMPING NUT
NAKRĘTKI MOCUJĄCE ER

DIN 6499


ER MINI NUT
MINI NAKRĘTKA ER

EDP No		Collet Tulejka	D	H	M	Wrench Klucz	
NTM08	ER8 Mini Nut	ER8	12	10.8	M10xP0.75	Mini	WRM08
NTM11	ER11 Mini Nut	ER11	16	12.0	M13xP0.75	Mini	WR012
NTM16	ER16 Mini Nut	ER16	22	18.4	M19xP1.00	Mini	WRM16
NTM20	ER20 Mini Nut	ER20	28	19.0	M24xP1.00	Mini	WR014

ER MINI BALANCED NUT
MINI NAKRĘTKA ER

EDP No		Collet Tulejka	D	H	M	Wrench Klucz	
NMB08	ER8-HB,Mini Nut	ER8	12	10.8	M10xP0.75	Mini	WRM08
NMB11	ER11-HB,Mini Nut	ER11	16	12.0	M13xP0.75	Mini	WR012
NMB16	ER16-HB,Mini Nut	ER16	22	18.4	M19xP1.00	Mini	WRM16
NMB20	ER20-HB,Mini Nut	ER20	28	19.0	M24xP1.00	Mini	WR014

ER NUT
NAKRĘTKA ER

EDP No		Collet Tulejka	D	H	M	Wrench Klucz	
NSX11	ER11 Nut,Hex	ER11	19	11.3	M14xP0.75	Hex	WRX11
NSX16	ER16 Nut, Hex	ER16	28	17.5	M22xP1.50	Hex	WRX16
NSX20	ER20 Nut,Hex	ER20	34	19.0	M25xP1.50	Hex	WRX20
NSH20	ER20 Nut,Spanner	ER20	35	19.0	M25xP1.50	IR	WRCI20
NSH25	ER25 Nut	ER25	42	20.0	M32xP1.50	ER	WRH25
NSH32	ER32 Nut	ER32	50	22.5	M40xP1.50	ER	WRH32
NSH40	ER40 Nut	ER40	63	25.5	M50xP1.50	ER	WRH40

ER BALANCE NUT
NAKRĘTKA ER

EDP No		Collet Tulejka	D	H	M	Wrench Klucz	
NBH11	ER11-HB Nut	ER11	19	11.3	M14xP0.75	Hex	WRX11
NBH16	ER16-HB Nut	ER16	28	17.5	M22xP1.50	Hex	WRX16
NBH20	ER20-HB Nut	ER20	34	19.0	M25xP1.50	Hex	WRX20
NBH21	ER20-HB Nut,Spanner	ER20	35	19.0	M25xP1.50	IR	WRCI20
NBH25	ER25-HB Nut	ER25	42	20.0	M32xP1.50	ER	WRH25
NBH32	ER32-HB Nut	ER32	50	22.5	M40xP1.50	ER	WRH32
NBH40	ER40-HB Nut	ER40	63	25.5	M50xP1.50	ER	WRH40

ER CLAMPING NUT

NAKRĘTKI MOCUJĄCE ER

DIN 6499

ER RR NUT
 NAKRĘTKA RR ER

EDP No		Collet Tulejka	D	H	M	Wrench Klucz	
NRR11	ER11-RR Nut	ER11	19	11.3	M14xP0.75	Hex	WRX11
NRR16	ER16-RR Nut	ER16	28	17.5	M22xP1.50	Hex	WRX16
NRR20	ER20-RR Nut	ER20	34	19.0	M25xP1.50	Hex	WRX20
NRR25	ER25-RR Nut	ER25	42	20.0	M32xP1.50	ER	WRH25
NRR32	ER32-RR Nut	ER32	50	22.5	M40xP1.50	ER	WRH32
NRR40	ER40-RR Nut	ER40	63	25.5	M50xP1.50	ER	WRH40

ER RR BALANCED NUT
 NAKRĘTKA RR ER

EDP No		Collet Tulejka	D	H	M	Wrench Klucz	
NRRB11	ER11-RR-HB Nut	ER11	19	11.3	M14xP0.75	Hex	WRX11
NRRB16	ER16-RR-HB Nut	ER16	28	17.5	M22xP1.50	Hex	WRX16
NRRB20	ER20-RR-HB Nut	ER20	34	19.0	M25xP1.50	Hex	WRX20
NRRB25	ER25-RR-HB Nut	ER25	42	20.0	M32xP1.50	ER	WRH25
NRRB32	ER32-RR-HB Nut	ER32	50	22.5	M40xP1.50	ER	WRH32
NRRB40	ER40-RR-HB Nut	ER40	63	25.5	M50xP1.50	ER	WRH40

ER BALL BEARING NUT
 NAKRĘTKA BALL BEARING ER

EDP No		Collet Tulejka	D	H	M	Wrench Klucz	
NRBB25	ER25-BB,Ball Bearing	ER25	42	20.0	M32xP1.5	ER	WRH25
NRBB32	ER32-BB,Ball Bearing	ER32	50	22.5	M40xP1.5	ER	WRH32
NRBB40	ER40-BB,Ball Bearing	ER40	63	25.5	M50xP1.5	ER	WRH40

ER COOLANT MINI NUT
 NAKRĘTKA MINI COOLANT ER

EDP No		Collet Tulejka	D	H	M	Wrench Klucz	
NCM08	ER08C,Coolant Mini	ER08	12	10.8	M10xP0.75	Mini	WRM08
NCM11	ER11C,Coolant Mini	ER11	16	12	M13xP0.75	Mini	WR012
NCM16	ER16C,Coolant Mini	ER16	22	18.4	M19xP1.00	Mini	WRM16
NCM20	ER20C,Coolant Mini	ER20	28	19	M24xP1.00	Mini	WR014

ER CLAMPING NUT
NAKRĘTKI MOCUJĄCE ER

DIN 6499

ER RR COOLANT NUT
NAKRĘTKA RR ER

EDP No		Collet Tulejka	D	H	M	Wrench Klucz	
NERCN11	ER11C,Coolant, Hex	ER11	19		M14xP0.75	Hex	WRX11
NERCN16	ER16C,Coolant,Hex	ER16	28		M22xP1.50	Hex	WRX16
NERCN20	ER20C,Coolant,Hex	ER20	34		M25xP1.50	Hex	WRX20
NERCN25	ER25C,Coolant Nut	ER25	42		M32xP1.50	Spanner	WRH25
NERCN32	ER32C,Coolant Nut	ER32	50		M40xP1.50	Spanner	WRH32
NERCN40	ER40C,Coolant Nut	ER40	63		M50xP1.50	Spanner	WRH40

Recommended Torque Polecane klucze					
ER nut ER nakrętka	N-m	ft-lb	ER nut ER nakrętka	N-m	ft-lb
ER08 MINI	5	4	ER16	54	40
ER11 MINI	16	12	ER20	81	60
ER16 MINI	24	18	ER25	108	80
ER20 MINI	28	21	ER32	136	100
ER11	27	20	ER40	176	130

Recommended Torque Polecane klucze					
ER nut ER nakrętka	N-m	ft-lb	ER nut ER nakrętka	N-m	ft-lb
IR08	12	9	IR25	115	85
IR8S	12	9	IR32	140	103
IR11	30	22	IR40	163	120
IR16	60	44	IR41	163	120
IR20	85	63	IR42	163	120

WRENCHES
KLUCZE

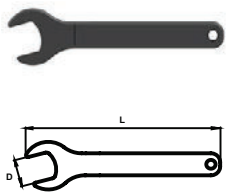
DIN 6499

**MINI WRENCH
KLUCZ MINI**

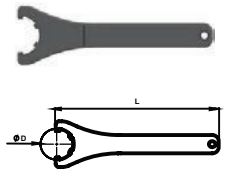
Code Kod	Part Name Nazwa	D	L	Nut Narkętką
WR015	ER08 Mini	12	100	ER08M
WRM11	ER11 Mini	16	100	ER11M
WR017	ER16 Mini	22	120	ER16M
WR018	ER20 Mini	28	120	ER20M


**HEX WRENCH
KLUCZ HEX**

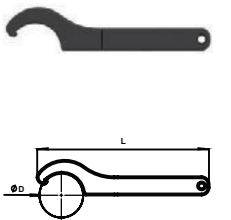
Code Kod	Part Name Nazwa	D	L	Nut Narkętką
WRX08	IR08 Hex	11	165	ER11Hex
WRX85	IR85 Hex	15	165	ER11 Hex
WRX11	ER11 Hex	17	165	ER11 Hex
WRX16	ER16 Hex	25	204	ER16 Hex
WRX20	ER20 Hex	30	210	ER20 Hex


**ER WRENCH
KLUCZ ER**

Code Kod	Part Name Nazwa	D	L	Nut Narkętką
WRH25	ER25 Wrench	42	210	ER25
WRH32	ER32 Wrench	50	250	ER32
WRH40	ER40 Wrench	63	290	ER40


**IR WRENCH
KLUCZ IR**

Code Kod	Part Name Nazwa	D	L	Nut Narkętką
WRCI20	IR20 Wrench	34	203	ER20
WRI25	IR25 Wrench	42	205	ER25
WRCI32	IR32 Wrench	50	240	ER32
WRI40	IR40 Wrench	63	245	ER40
WRI41	IR41 Wrench	70	250	-
WRI42	IR42 Wrench	85	256	-

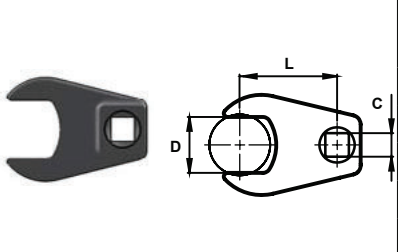


WRENCHES
KLUCZE

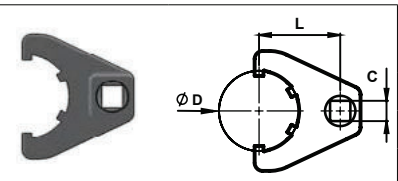
DIN 6499

**HEX WRENCH ADAPTOR
ADAPTOR KLUCZA HEX**

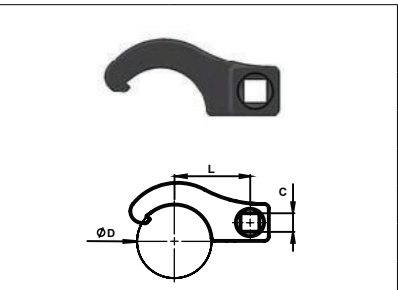
Code Kod	Part Name Nazwa	D	L	C	Nut Narkętką
WRI08H	IR08 Hex Wrench Adaptor	11	50.8	3/8"	-
WRI8SH	IR8S Hex Wrench Adaptor	14	50.8	3/8"	-
WR11H	ER11 Hex Wrench Adaptor	17	50.8	3/8"	ER11 Hex
WR16H	ER16 Hex Wrench Adaptor	25	50.8	1/2"	ER16 Hex
WR20H	ER20 Hex Wrench Adaptor	30	50.8	1/2"	ER20 Hex


**ER WRENCH ADAPTOR
ADAPTOR KLUCZA ER**

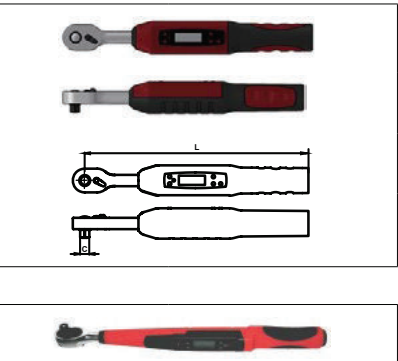
Code Kod	Part Name Nazwa	D	L	C	Nut Narkętką
WR25A	ER 25 Wrench Adaptor	42	50.8	1/2"	ER25
WR32A	ER 32 Wrench Adaptor	50	50.8	1/2"	ER32
WR40A	ER 40 Wrench Adaptor	63	50.8	1/2"	ER40


**IR WRENCH ADAPTOR
ADAPTOR KLUCZA IR**

Code Kod	Part Name Nazwa	D	L	C	Nut Narkętką
WRI20A	IR20 Wrench 1/2" Adaptor	34	50.8	1/2"	-
WRI25A	IR25 Wrench 1/2" Adaptor	42	50.8	1/2"	ER25
WRI32A	IR32 Wrench 1/2" Adaptor	50	50.8	1/2"	ER32
WRI40A	IR40 Wrench 1/2" Adaptor	63	50.8	1/2"	ER40
WRI41A	IR41 Wrench 1/2" Adaptor	70	76.2	1/2"	-
WRI42A	Ir42 Wrench 1/2" Adaptor	83	76.2	1/2"	-

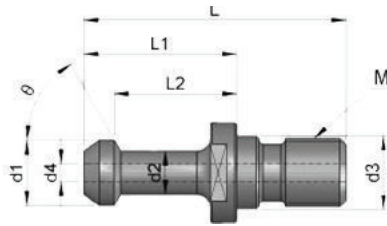

**TORQUE WRENCH
KLUCZ TORX**

Code Kod	Part Name Nazwa	C	L	N-n	ft-lb
W10DT	Digital Torque Wrench, 3/8"	3/8"	310	10-100	7.4-74
W20DT	Digital Torque Wrench, 1/2"	1/2"	480	20-200	15-147
W30DT	Digital Torque Wrench, 1/2"	1/2"	630	68-340	50-250
W20DTV	Digital Torque Wrench, 1/2",V	1/2"	480	20-200	15-147



PULL STUD
ŚRUBA ŚCIAGAJĄCA

DIN 6499


MAS 403

JIS B6339

Mazak
BT PULL STUD - MAS 403
ŚRUBA ŚCIAGAJĄCA BT - MAS 403

EDP No	θ	L	L1	L2	d1	d2	d3	d4	M
SPS04501130	45	43	23	18	11	7	12.5	-	M12
SPS06001130	60	43	23	18	11	7	12.5	-	M12
SPS09001130	90	43	23	18	11	7	12.5	-	M12
SPS04501540	45	60	35	28	15	10	17	-	M16
SPS06001540	60	60	35	28	15	10	17	-	M16
SPS09001540	90	60	35	28	15	10	17	-	M16
SPS04502350	45	85	45	35	23	17	25	-	M24
SPS06002350	60	85	45	35	23	17	25	-	M24
SPS09002350	90	85	45	35	23	17	25	-	M24

BT PULL STUD - Coolant hole - MAS 403
ŚRUBA ŚCIAGAJĄCA BT - Otwory chłodzące - MAS 403

EDP No	θ	L	L1	L2	d1	d2	d3	d4	M
SPS045W1540	45	60	35	28	15	10	17	4	M16
SPS060W1540	60	60	35	28	15	10	17	4	M16
SPS090W1540	90	60	35	28	15	10	17	4	M16
SPS045W2350	45	85	45	35	23	17	25	7	M24
SPS060W2350	60	85	45	35	23	17	25	7	M24
SPS090W2350	90	85	45	35	23	17	25	7	M24

BT PULL STUD - Coolant hole - Mazak
ŚRUBA ŚCIAGAJĄCA BT - Otwory chłodzące - Mazak

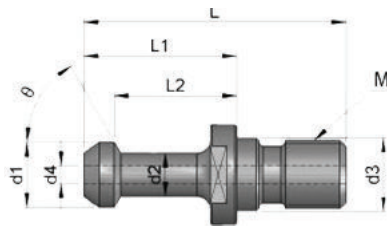
EDP No	θ	L	L1	L2	d1	d2	d3	d4	M
PS02BT40B45	45	44.1	19.1	14	18.8	12.45	17	7	M16
PS03BT40B45	45	41.1	16.1	11	18.8	12.45	17	7	M16
PS02BT50B45	45	65.2	25.2	17.58	28.95	20.83	25	10	M24

BT PULL STUD - Coolant hole - JIS B6339P
ŚRUBA ŚCIAGAJĄCA BT - Otwory chłodzące - JIS B6339P

EDP No	θ	L	L1	L2	d1	d2	d3	d4	M
PS04BT30B75	75	43	23.4	18.4	12	8	12.5	4	M12
PS04BT40B75	75	54	29	23	19	14	17	7	M16
PS04BT50B75	75	74	34	25	28	21	25	10	M24

PULL STUD
ŚRUBA ŚCIĄGAJĄCA

DIN 6499


SK PULL STUD
ŚRUBA ŚCIĄGAJĄCA SK

EDP No	θ	L	L1	L2	d1	d2	d3	d4	M
PS01SK40B15	15	54	26	20	19	14	17	7	M16
PS01SK50B15	15	74	34	25	28	21	25	12	M24

HIGHEST PRECISION WYSOKA PRECYZJA
SK PULL STUD
ŚRUBA ŚCIĄGAJĄCA SK

EDP No	θ	L	L1	L2	d1	d2	d3	d4	M
PS05SK40B15	15	54	26	20	19	14	17	7	M16
PS05SK50B15	15	74	34	25	28	21	25	12	M24



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