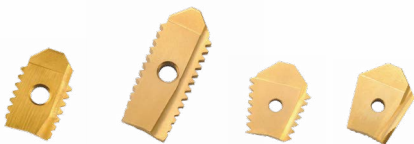


# MODULAR TAPS SYSTEM

## MODUŁOWY SYSTEM GWINTOWNIKÓW



**INSERTS PŁYTKI**

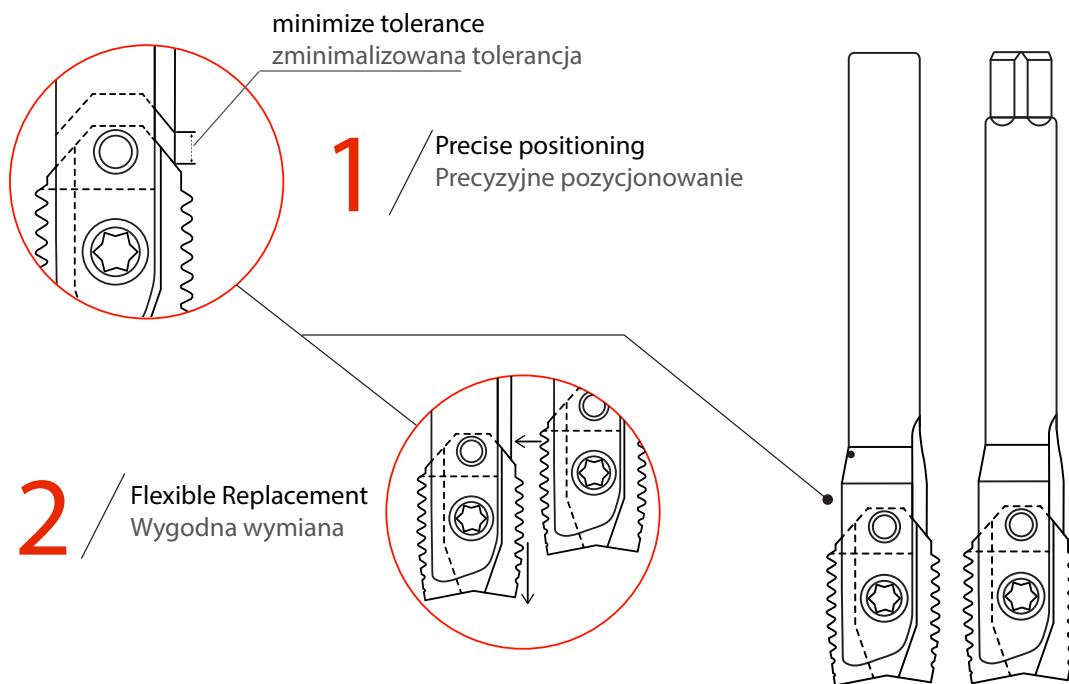


## Optimal Center Positioning Design

Insert taper profile is designed to optimize the center positioning to minimize the tolerance, which can reach the highest accuracy and bear economical efficiency.

## Optymalna geometria pozycjonowania centralnego




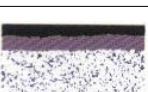


Profil stożka płytki został zaprojektowany w celu optymalizacji pozycjonowania centralnego aby zminimalizować tolerancje, dzięki czemu można osiągnąć najwyższą dokładność i zwiększyć wydajność.




## Insert Grades Gatunki Płytek

Grades	P Steel Stal					M Stainless Steel Stal nierdzewna				K Cast iron Żeliwo					N Non Ferrous Metal Metale nieżelazne				S Heat resistant super alloys Stopy żaroodporne				H Hardened steel Stal utwardzana						
	P01	P10	P20	P30	P40	P50	M01	M10	M20	M30	M40	K01	K10	K20	K30	K40	N01	N10	N20	N30	S01	S10	S20	S30	H01	H10	H20	H3	
PVD	P391																												
	P333																												
	P322																												
	P323																												
	P392																												
	P326																												
	P324																												
	P326																												

### PVD coated grades Gatunki pokryć PVD

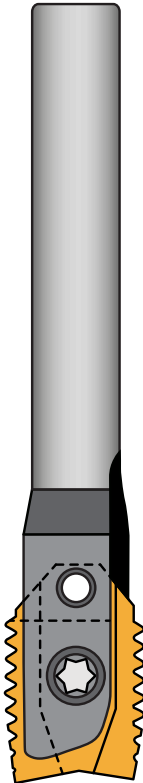
	P332 P321 P333	<b>Hard and wear resistant grade for milling in aluminium and non-ferrous alloys.</b> Twardy i odporny na ścieranie gatunek do frezowania w aluminium i stopach nieżelaznych.
	P322	<b>Tough grade for rough milling in tool steels.</b> Wytrzymały gatunek do obróbki udarowej w stali narzędziowej.
	P324	<b>This grade is in accordance to the ISO K, N classification. For application in Cast iron and non-ferrous metal such as aluminium, copper, plastic, etc.</b> Gatunek przeznaczony do obróbki K i N wg standardów ISO. Zastosowanie w obróbce żeliwa oraz metali nieżelaznych takich jak aluminium, miedź, tworzyw sztucznych, itp.
	P382	<b>P382 is the grade with new and heat-resistance coating suitable for cast iron.</b> P382 jest gatunkiem z nową odporną termicznie powłoką do obróbki żeliwa.
	P323 P392 P391	<b>Tough grade, suitable in hard and interrupt cutting of steel. Especially in GSD system (Tap, Center drill, etc.)</b> <b>P392 is the best recommend grade for steel machining.</b> <b>P391 has enhanced the toughness of the tungsten carbide to enable the durability. It is specifically designed for materials such as stainless steel, super alloys and other materials that are hard to machine.</b> Wytrzymały gatunek zalecany do ciężkiej i przerywanej obróbki stali. Szczególnie w systemie GSD (gwintowanie, nawiercanie, itp.) Najbardziej zalecanym gatunkiem do obróbki stali jest P392. P391 wykazuje podwyższoną wytrzymałość węgla wolframu wpływając na wzrost trwałości. Zaprojektowany do obróbki stali nierdzewnej, nadstopów oraz materiałów ciężko obrabialych.
	P326	<b>Metal cermet grade is oxidation resistant and wear resistant. Suitable for fine to medium rough milling of steel at high cutting speed. Finishing in austenitic stainless steel. First choice for high demand on surface finishes.</b> Gatunek cermetu odporny na utlenianie oraz zużycie. Odpowiedni do obróbki stali od wykańczającej do zgrubnej przy wysokich prędkościach skrawania. Obróbka wykańczająca austenitycznej stali nierdzewnej. Pierwszy wybór do osiągnięcia powierzchni wysokiej jakości.

### PVD coated grades Gatunki pokryć PVD

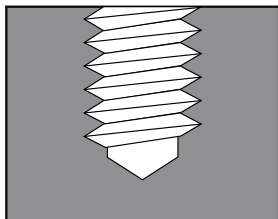
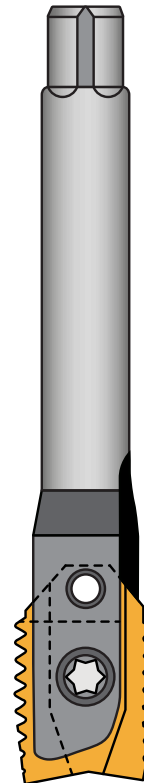
	P326	<b>Hard, wear resistant grade for milling in aluminum and non-ferrous metal.</b> Twardy, odporny na zużycie gatunek do obróbki aluminium oraz metali nieżelaznych.
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MODULAR TAP-GSD SYSTEM GWINTOWNIKI SKŁADANE-GSD SYSTEM

**TAPPING**  
GWINTOWANIE



**THREAD MILLING**  
FREZOWANIE GWINTÓW

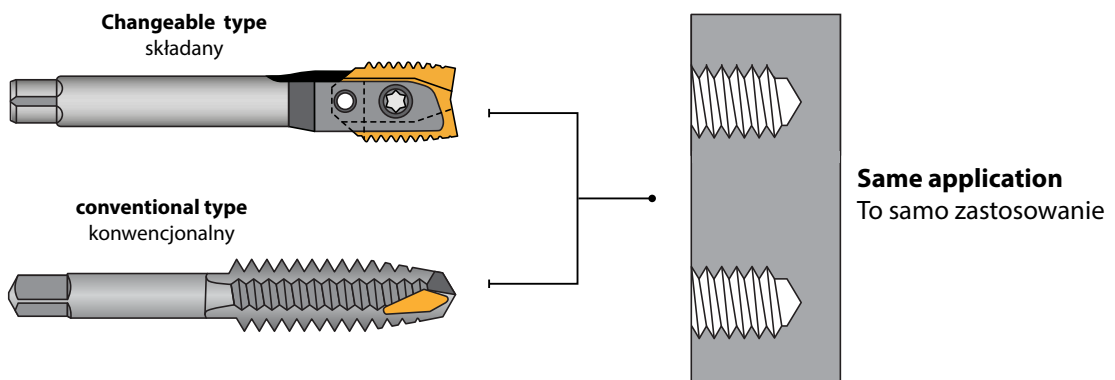


**can replace HSS TAP**  
może zastąpić gwintowniki HSS

## Traditional And New Tradycyjne oraz Nowe

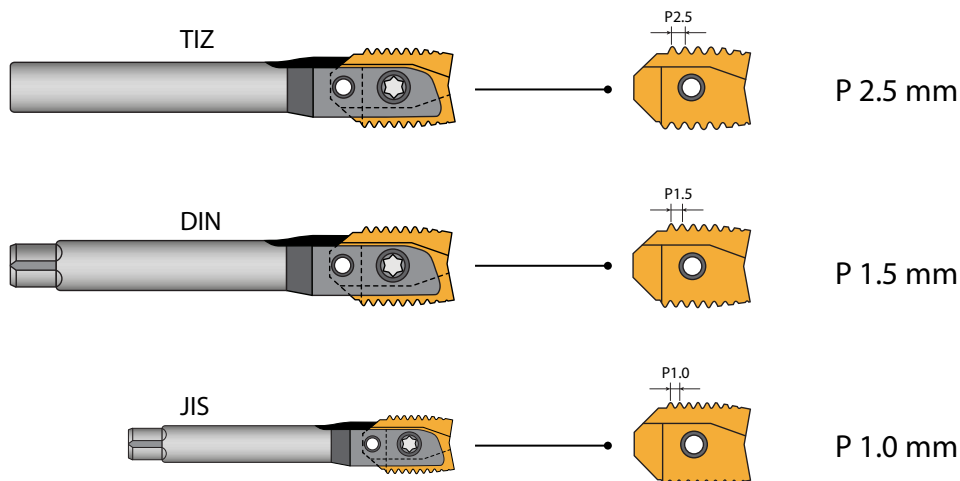
1. **Changeable tap reduces the risk of getting breakage in workpiece.**
2. **Effective chip remover, less heat formation during machining.**
3. **Very strong and durable insert with unique insert geometry design can reach insert tool life 10 times longer.**
4. **300-500% times better cutting efficiency, impressive shorter cycle time.**

1. Gwintowniki składane zmniejszają ryzyko złamania narzędzia w przedmiocie obrabianym.
2. Efektywne odprowadzanie wióra oraz zmniejszenie ciepła podczas obróbki.
3. Bardzo wytrzymałe płytki z unikatowym projektem geometrii może wydłużyć życie narzędzia nawet 10 razy.
4. 300-500% lepsza wydajność skrawania oraz znacznie krótszy czas cyklu.

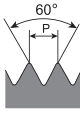

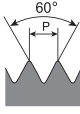

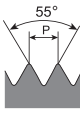

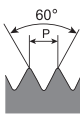

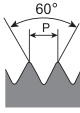

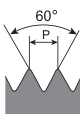



## Locking Type Taps - One Shank For Different Pitches/ One Insert For Different Shanks

Zasada łączenia gwintownika - Jeden uchwyt dla wielu Skoków/ Jedna płytki dla wielu długości uchwytu

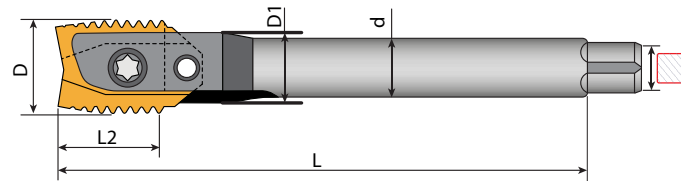


## DESCRIPTION OF THREAD SYSTEMS OPIS SYSTEMÓW GWINTÓW

<b>M</b>	ISO Metric coarse thread Gwint metryczny zwykły ISO		
<b>MF</b>	ISO Metric fine thread Gwint metryczny drobnozwojny ISO		
<b>Rp</b>	Cylindrical whitworth pipe thread where pressure-tight joints are made on the thread Cylindryczny gwint rurowy Whitworth gwint szczelny		
<b>NPS</b>	American standard straight pipe thread for mechanical joints Amerykański standardowy prosty gwint rurowy do połączeń mechanicznych		
<b>Rc</b>	Tapered whitworth pipe thread where pressure-tight joints are made on the threads, taper 1:16 Stożkowy gwint rurowy Whitworth gwint hermetyczny, stożek 1:16		
<b>NPT</b>	American tapered pipe thread for threads with dryseal material, taper 1:16 Amerykański stożkowy gwint rurowy gwint szczelny, stożek 1:16		

## GSD10 - MODULAR TAP TOOLHOLDERS - JIS SYSTEM

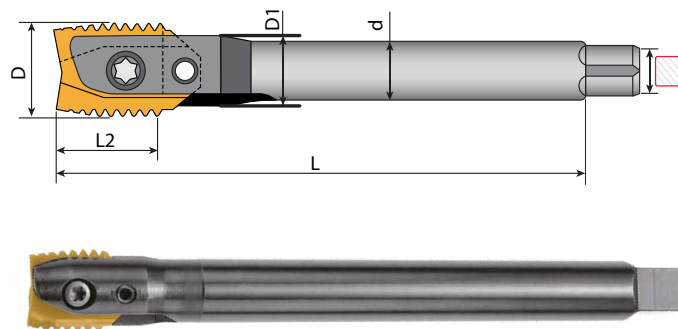
### GSD10 - UCHYTY DO GWINTOWNIKÓW SKŁADANYCH - JIS SYSTEM



EDP Nr.	D	D1	d	L	L2	KG		Insert		Screw	Key
GSD10080606070	8	6.5	6.2	70	10	0.1	5.0	M8	RP 1/16" NPS 1/16"		
GSD10080606090				90		0.13					
GSD10100708080	10	8.3	7.0	80	12	0.12	5.5	M10	RP 1/8" NPS 1/8"		
GSD10100708100				100		0.16					
GSD10110909080	11.1	9.0	8.5	80	13	0.13	6.5	M11	-		
GSD10110909120				120		0.17					
GSD10120910080	12	9.9	8.5	80	14	0.13	8.0	M12	RP 1/4"		
GSD10120910120				120		0.18					
GSD10120910160				160		0.20					
GSD10141011090	14	11.5	10.5	90	14	0.15	10	M14	NPS 1/4"		
GSD10141011135				135		0.20					
GSD10141011180				180		0.25					
GSD10161213090	16	13.5	12.5	90	18	0.16	11	M16	RP 3/8" NPS 1/4"		
GSD10161213135				135		0.22					
GSD10161213180				180		0.30					
GSD10181414100	18	14.5	14.0	100	18	0.16	12	M18	-		
GSD10181414150				150		0.24					
GSD10181414200				200		0.32					
GSD10201517100	20	17	15	100	18	0.20	12	M20	RP 1/2"		
GSD10201517150				150		0.30					
GSD10201517200				200		0.40					
GSD10221718100	22	18.5	17	100	22	0.22	13	M22	RP 5/8 NPS 1/2"		
GSD10221718150				150		0.33					
GSD10221718200				200		0.45					
GSD10241920110	24	20.0	19	110	22	0.24	15	M24	-		
GSD10241920160				160		0.36					
GSD10241920200				220		0.48					

## GSD11 - MODULAR TAP TOOLHOLDERS - DIN SYSTEM 376

### GSD11 - UCHYTY DO GWINTOWNIKÓW SKŁADANYCH - DIN SYSTEM 376

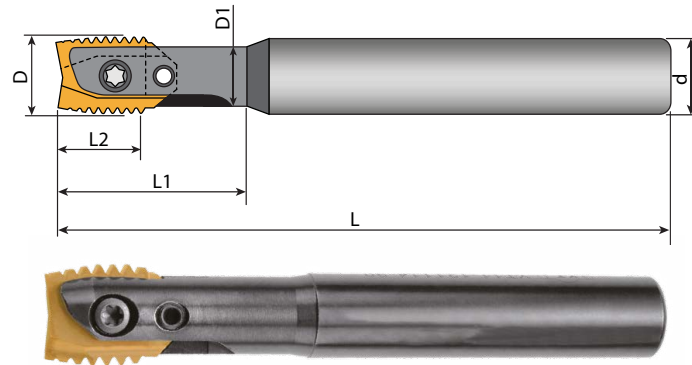


EDP Nr.	D	D1	d	L	L2	KG		Insert		Screw	Key
GSD11080606070	8	6.5	6.0	70	10	0.1	4.9	M8	RP 1/16" NPS 1/16"		
GSD11080606090				90		0.13					
GSD11100708080	10	8.3	7.0	80	12	0.12	5.5	M10	RP 1/8" NPS 1/8"		
GSD11100708100				100		0.16					
GSD11110909080	11.1	9.0	8.0	80	13	0.13	7.0	M11	-		
GSD11110909120				120		0.17					
GSD11120910080	12	9.9	9.0	80	13	0.13	7.0	M12	RP 1/4"		
GSD11120910120				120		0.18					
GSD11120910160				160		0.20					
GSD11141011090	14	11.5	11	90	14	0.15	9.0	M14	NPS 1/4"		
GSD11141011135				135		0.20					
GSD11141011180				180		0.25					
GSD11161213090	16	13.5	12	90	14	0.16	9.0	M16	RP 3/8" NPS 1/4"		
GSD11161213135				135		0.22					
GSD11161213180				180		0.30					
GSD11181414100	18	14.5	14.0	100	18	0.16	11	M18	-		
GSD11181414150				150		0.24					
GSD11181414200				200		0.32					
GSD11201517100	20	17	16	100	18	0.20	12	M20	RP 1/2"		
GSD11201517150				150		0.30					
GSD11201517200				200		0.40					
GSD11221718100	22	18.5	18	100	22	0.22	13	M22	RP 5/8 NPS 1/2"		
GSD11221718150				150		0.33					
GSD11221718200				200		0.45					
GSD11241920110	24	20.0	18	110	22	0.24	15	M24	-		
GSD11241920160				160		0.36					
GSD11241920200				220		0.48					



## GSD11 - MODULAR TAP TOOLHOLDERS - TIZ SYSTEM (HA)

### GSD11 - UCHYTY DO GWINTOWNIKÓW SKŁADANYCH - TIZ SYSTEM (HA)

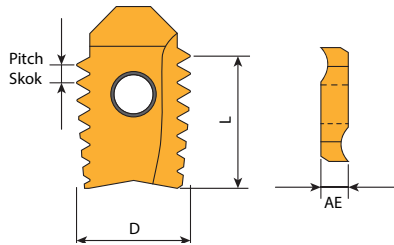


EDP Nr.	D	D1	d	L	L1	L2	KG	Insert		Screw	Key
GSD12080806060	8	6.5	8	60	25	10	0.12	M8	RP 1/16" NPS 1/16"		
GSD12081006080			10								
GSD12101008080	10	8.3	10	80	30	12	0.18	M10	RP 1/16" NPS 1/16"		
GSD12101208100			12								
GSD12121010090	12	9.9	10	90	35	13	0.19	M12	RP 1/4"		
GSD12141211090	14	11.5	12		38	14	0.22	M14	NPS 1/4"		
GSD12161613100	16	13.5	16	100	45	14	0.26	M16	RP3/8" NPS 1/4"		
GSD12181614100	18	14.5			50	18	0.27	M18	-		
GSD12202017110	20	17	20	110	55	18	0.32	M20	RP 1/2"		
GSD12222018110	22	18.5			58	22	0.36	M22	RP 5/8" NPS 1/2"		
GSD12242020115	24	20			62	22	0.38	M24	-		

# ISO METRIC COARSE AND FINE THREAD

## GWINT METRYCZNY ZWYKŁY ORAZ DROBNOZWOJNY ISO

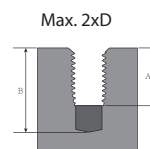
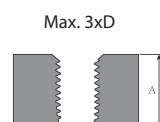
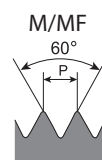
IGSS-M/MF Carbide Inserts-spiral pointed  
IGSS-M/MF Płytki węglikowe



Tolerances Tolerancja D : 6H / AE : ± 0.01~0.015

D	L	AE	Pitch Skok mm	Angle Kąt
8	10	2	1.0	60°
			1.25	
10	12	2.5	1.0	
			1.25	
			1.5	
12	13	3	1.25	
			1.5	
			1.75	
14	14	3	1.0	
			1.25	
			1.5	
			2.0	

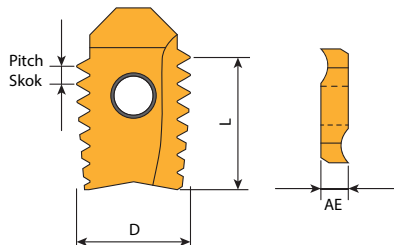
EDP	Carbide Węglik					Metal cermet Cermetal			Uncoated Bez pokrycia		Inserts Płytki
	P321	P391	P392	P324	P382	P325	P326		P327	P329	
IGSS08100E-M											M8 M/MF
IGSS08125E-MF											
IGSS08100ME-M											
IGSS08125ME-MF											M10 M/MF
IGSS10100E-MF											
IGSS10125E-MF											
IGSS10150E-M											
IGSS10100ME-MF											
IGSS10125ME-MF											
IGSS10150ME-M											M12 M/MF
IGSS12125E-MF											
IGSS12150E-MF											
IGSS12175E-M											
IGSS12125ME-MF											
IGSS12150ME-MF											
IGSS12175ME-M											M14 M/MF
IGSS14100E-MF											
IGSS14125E-MF											
IGSS14150E-MF											
IGSS14200E-M											
IGSS14100ME-MF											
IGSS14125ME-MF											
IGSS14150ME-MF											
IGSS14200E-M											



# ISO METRIC COARSE AND FINE THREAD

## GWINT METRYCZNY ZWYKŁY ORAZ DROBNOZWOJNY ISO

IGSS-M/MF Carbide Inserts-spiral pointed  
IGSS-M/MF Płytki węglikowe



D	L	AE	Pitch Skok mm	Angle Kąt
16	14	3	1.0	60°
			1.25	
			1.5	
			2.0	
18	18	3.5	1.0	
			1.25	
			1.5	
			2.0	
			2.5	
20	18	3.5	1.25	
			1.5	
			1.75	
			2.0	
			2.5	

Tolerances Tolerancja D : 6H / AE : ± 0.01~0.015

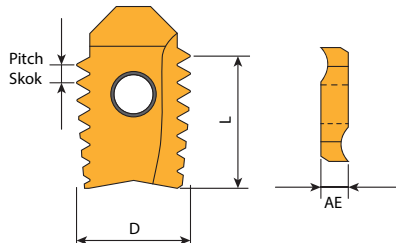
EDP	Carbide Węgliki					Metal cermet Cermetal			Uncoated Bez pokrycia		Inserts Płytki	
	P321	P391	P392	P324	P382	P325	P326		P327	P329		
IGSS16100E-MF											M16 M/MF	
IGSS16125E-MF												
IGSS16150E-MF												
IGSS16200E-M												
IGSS16100ME-MF												
IGSS16125ME-MF												
IGSS16150ME-MF												
IGSS16200ME-M												
IGSS18100E-MF												M18 M/MF
IGSS18125E-MF												
IGSS18150E-MF												
IGSS18200E-MF												
IGSS18250E-M												
IGSS18100ME-MF												
IGSS18125ME-MF												
IGSS18150ME-MF												
IGSS18200ME-MF												
IGSS18250ME-M												
IGSS20100E-MF												M20 M/MF
IGSS20125E-MF												
IGSS20150E-MF												
IGSS20200E-MF												
IGSS20250E-M												
IGSS20100ME-MF												
IGSS20125ME-MF												
IGSS20150ME-MF												
IGSS20200ME-MF												
IGSS20250ME-M												



# ISO METRIC COARSE AND FINE THREAD



## GWINT METRYCZNY ZWYKŁY ORAZ DROBNOZWOJNY ISO

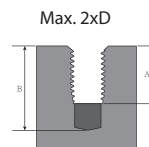
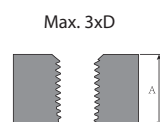
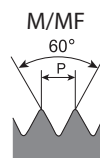
IGSS-M/MF Carbide Inserts-spiral pointed  
IGSS-M/MF Płytki węglkowe



Tolerances Tolerancja D : 6H / AE : ± 0.01~0.015

D	L	AE	Pitch Skok mm	Angle Kąt
22	22	3.5	1.0	60°
			1.25	
			2.0	
			2.5	
24	22	3.5	1.0	
			1.25	
			1.5	
			2.0	
			3.0	

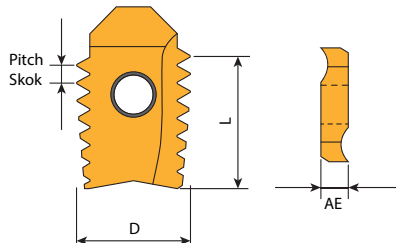
EDP	Carbide Węglki					Metal cermet Cermetal			Uncoated Bez pokrycia		Inserts Płytki
	P321	P391	P392	P324	P382	P325	P326		P327	P329	
IGSS22100E-MF											
IGSS22150E-MF											
IGSS22200E-MF											
IGSS22250E-M											
IGSS22100ME-MF											
IGSS22150ME-MF											
IGSS22200ME-MF											
IGSS22250ME-M											
IGSS24100E-MF											
IGSS24150E-MF											
IGSS24200E-MF											
IGSS24250E-M											
IGSS24100ME-MF											
IGSS24150ME-MF											
IGSS24200ME-MF											
IGSS24250ME-M											



# CYLINDRICAL WHITWORTH PIPE THREAD

## CYLINDRYCZNY GWINT RUROWY WHITWORTH

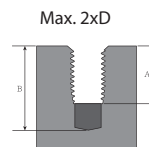
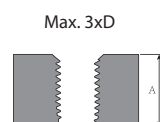
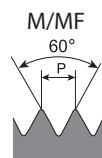
IGSS-RP Carbide Inserts-spiral pointed  
IGSS-RP Płytki węglikowe



Tolerances Tolerancja D : 6H / AE : ± 0.01~0.015

D		L	AE	Pitch Skok t.p.i	Angle Kąt
7.72	1/16"	10	2	28	55°
9.73	1/8"	12	2.5	28	
13.16	1/4"	13	3.0	19	
16.66	3/8"	14	3.0	19	
20.96	1/2"	18	3.5	14	
22.91	5/8"	22	3.5	14	

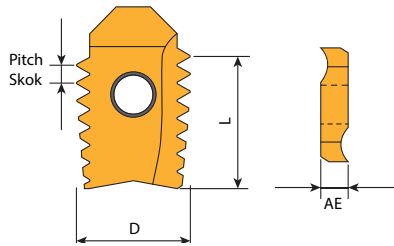
EDP	Carbide Węglík					Metal cermet Cermetal			Uncoated Bez pokrycia		Inserts Płytki
	P321	P391	P392	P324	P382	P325	P326		P327	P329	
IGSS11628E-RP											1/16 RP
IGSS11628ME-RP											
IGSS1828E-RP											1/8 RP
IGSS1828ME-RP											
IGSS1419E-RP											1/4 RP
IGSS1419ME-RP											
IGSS3819E-RP											3/8 RP
IGSS3819ME-RP											
IGSS1214E-RP											1/2 RP
IGSS1214ME-RP											
IGSS5814E-RP											5/8 RP
IGSS5814ME-RP											



# AMERICAN STANDARD STRAIGHT PIPE THREAD






## AMERYKAŃSKI STANDARDOWY PROSTY GWINT RUROWY

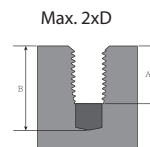
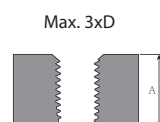
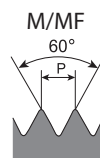
IGSS-NPS Carbide Inserts-spiral pointed  
IGSS-NPS Płytki węglikowe



Tolerances Tolerancja D : 6H / AE : ± 0.01~0.015

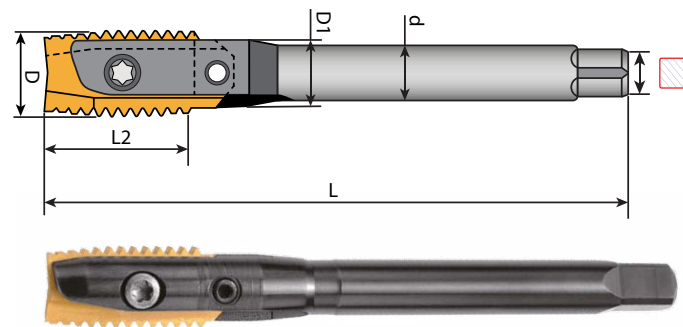
D		L	AE	Pitch Skok t.p.i	Angle Kąt
7.93	1/16"	10	2	27	60°
10.1	1/8"	12	2.5	27	
13.4	1/4"	13	3.0	18	
16.85	3/8"	14	3.0	18	
20.95	1/2"			14	

EDP	Carbide Węglík					Metal cermet Cermetal			Uncoated Bez pokrycia		Inserts Płytki
	P321	P391	P392	P324	P382	P325	P326		P327	P329	
IGSS11627E-NPS											1/16 NPS
IGSS11627ME-NPS											
IGSS1827E-NPS											1/8 NPS
IGSS1827ME-NPS											
IGSS1419E-NPS											1/4 NPS
IGSS1419ME-NPS											
IGSS3818E-NPS											3/8 NPS
IGSS3818ME-NPS											
IGSS1214E-NPS											1/2 NPS
IGSS1214ME-NPS											



## GSD10L - MODULAR TAP TOOLHOLDERS - JIS 11 - LONG INSERT

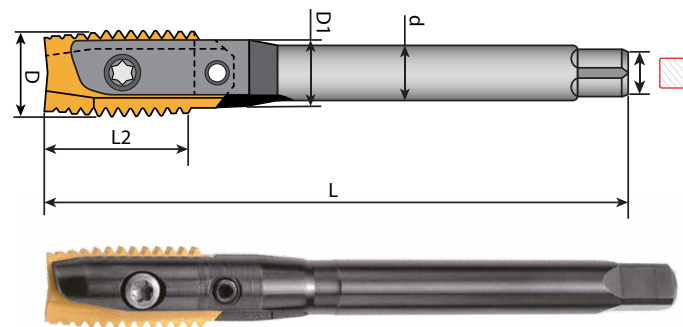
### GSD10L - UCHYTY DO GWINTOWNIKÓW SKŁADANYCH - JIS 11 - DŁUGA PŁYTKA



EDP Nr.	D	D1	d	L	L2	KG		Insert		Screw	Key
GSD10080606070L	8	6.5	6.2	70	16.25	0.1	5.0	M8	-		
GSD10080606090L				90		0.13					
GSD10100708080L	10	8.3	7.0	80	19.50	0.12	5.5	M10	-		
GSD10100708100L				100		0.16					
GSD10110809080L	11.1	9	8.5	80	21.75	0.13	6.5	M11	-		
GSD10110809120L				120		0.17					
GSD10120810080L	12	9.9	8.5	80	21.75	0.13	6.5	M12	-		
GSD10120810120L				120		0.18					
GSD10120810160L				160		0.20					
GSD10141011090L	14	11.5	10.5	90	24	0.15	8.0	M14	-		
GSD10141011135L				135		0.20					
GSD10141011180L				180		0.25					
GSD10161213090L	16	13.5	12.5	90	24	0.16	10	M16	-		
GSD10161213135L				135		0.22					
GSD10161213180L				180		0.30					
GSD10181414100L	18	14.5	14.0	100	28	0.16	11	M18	-		
GSD10181414150L				150		0.24					
GSD10181414200L				200		0.32					
GSD10201517100L	20	17	15	100	28	0.20	12	M20	-		
GSD10201517150L				150		0.30					
GSD10201517200L				200		0.40					
GSD10221718100L	22	18.5	17	100	34	0.22	13	M22	-		
GSD10221718150L				150		0.33					
GSD10221718200L				200		0.45					
GSD10241920110L	24	20	19	110	34	0.24	15	M24	-		
GSD10241920160L				160		0.36					
GSD10241920200L				220		0.48					

## GSD11L - MODULAR TAP TOOLHOLDERS - DIN SYSTEM 376-LONG INSERT

GSD11L - UCHYTY DO GWINTOWNIKÓW SKŁADANYCH - DIN SYSTEM 376 - DŁUGA PŁYTKA



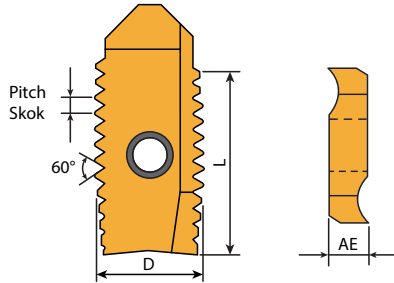
EDP Nr.	D	D1	d	L	L2	KG		Insert		Screw	Key
GSD11080606070L	8	6.5	6	70	16.25	0.10	4.9	M8	-		
GSD11080606090L				90		0.13					
GSD11100708080L	10	8.3	7	80	19.50	0.12	5.5	M10	-		
GSD11100708100L				100		0.16					
GSD11110909080L	11.1	9.0	9	80	21.75	0.13	7.0	M11	-		
GSD11110909120L				100		0.17					
GSD11120910080L	12	9.9	9	80	21.75	0.17	7.0	M12	-		
GSD11120910120L				120		0.18					
GSD11120910160L				160		0.20					
GSD11141111090L	14	11.5	11	90	24	0.15	9.0	M14	-		
GSD11141111135L				135		0.20					
GSD11141111180L				180		0.25					
GSD11161213090L	16	13.5	12	90	24	0.16	9.0	M16	-		
GSD11161213135L				135		0.22					
GSD11161213180L				180		0.30					
GSD11181414100L	18	14.5	14	100	28	0.16	11	M18	-		
GSD11181414150L				150		0.24					
GSD11181414200L				200		0.32					
GSD11201617100L	20	17.0	16	100	28	0.20	12.0	M20	-		
GSD11201617150L				150		0.30					
GSD11201617200L				200		0.40					
GSD11221818100L	22	18.5	18	100	34	0.22	14.5	M22	-		
GSD11221818150L				150		0.33					
GSD11221818200L				200		0.45					
GSD11241820110L	24	20.0	18	100	34	0.24	14.5	M24	-		
GSD11241820160L				160		0.36					
GSD11241820200L				220		0.48					



# ISO METRIC COARSE AND FINE THREAD

## GWINT METRYCZNY ZWYKŁY ORAZ DROBNOZWOJNY ISO - DŁUGA PŁYTKA

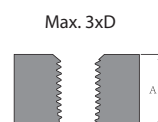
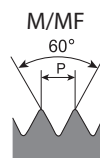
IGSS-M/MF Carbide Long Inserts-spiral pointed  
IGSS-M/MF Płytki węglikowe - długie



D	L	AE	Pitch Skok mm	Angle Kąt
8	16.25	2	1.0	60°
			1.25	
10	19.5	2.5	1.0	
			1.25	
			1.5	
12	21.75	3	1.25	
			1.5	
			1.75	
14	24	3	1.0	
			1.25	
			1.5	
			2.0	

Tolerances Tolerancja D : 6H / AE : ± 0.01~0.015

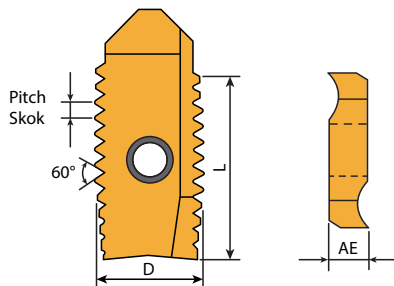
EDP	Carbide Węglík					Metal cermet Cermetal			Uncoated Bez pokrycia		Inserts Płytki
	P321	P391	P392	P324	P382	P325	P326		P327	P329	
IGSS08100E-ML											M8 M/MF
IGSS08125E-MFL											
IGSS08100ME-ML											
IGSS08125ME-MFL											M10 M/MF
IGSS10100E-MFL											
IGSS10125E-MFL											
IGSS10150E-ML											
IGSS10100ME-MFL											
IGSS10125ME-MFL											
IGSS10150ME-ML											
IGSS12125E-MFL											M12 M/MF
IGSS12150E-MFL											
IGSS12175E-ML											
IGSS12125ME-MFL											
IGSS12150ME-MFL											
IGSS12175ME-ML											
IGSS14100E-MFL											
IGSS14125E-MFL											
IGSS14150E-MFL											
IGSS14200E-ML											
IGSS14100ME-MFL											
IGSS14125ME-MFL											
IGSS14150ME-MFL											
IGSS14200E-ML											



# ISO METRIC COARSE AND FINE THREAD

## GWINT METRYCZNY ZWYKŁY ORAZ DROBNOZWOJNY ISO - DŁUGA PŁYTKA

IGSS-M/MF Carbide Long Inserts-spiral pointed  
IGSS-M/MF Płytki węglikowe - długie



D	L	AE	Pitch Skok mm	Angle Kąt
16	24	3	1.0	60°
			1.25	
			1.5	
			2.0	
18	28	3.5	1.0	
			1.25	
			1.5	
			2.0	
20	28	3.5	2.5	
			1.0	
			1.25	
			1.5	
			2.0	
			2.5	

Tolerances Tolerancja D : 6H / AE : ± 0.01~0.015

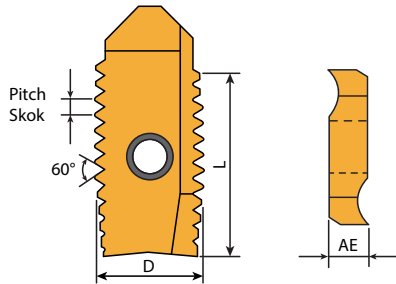
EDP	Carbide Węglík					Metal cermet Cermetal			Uncoated Bez pokrycia		Inserts Płytki
	P321	P391	P392	P324	P382	P325	P326		P327	P329	
IGSS16100E-MFL											M16 M/MF
IGSS16125E-MFL											
IGSS16150E-MFL											
IGSS16200E-ML											
IGSS16100ME-MFL											
IGSS16125ME-MFL											
IGSS16150ME-MFL											
IGSS16200ME-ML											
IGSS18100E-MFL											M18 M/MF
IGSS18125E-MFL											
IGSS18150E-MFL											
IGSS18200E-MFL											
IGSS18250E-ML											
IGSS18100ME-MFL											
IGSS18125ME-MFL											
IGSS18150ME-MFL											
IGSS18200ME-MFL											
IGSS18250ME-ML											
IGSS20100E-MFL											M20 M/MF
IGSS20125E-MFL											
IGSS20150E-MFL											
IGSS20200E-MFL											
IGSS20250E-ML											
IGSS20100ME-MFL											
IGSS20125ME-MFL											
IGSS20150ME-MFL											
IGSS20200ME-MFL											
IGSS20250ME-ML											



# ISO METRIC COARSE AND FINE THREAD

## GWINT METRYCZNY ZWYKŁY ORAZ DROBNOZWOJNY ISO - DŁUGA PŁYTKA

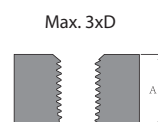
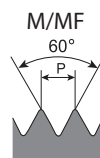
IGSS-M/MF Carbide Long Inserts-spiral pointed  
 IGSS-M/MF Płytki węglkowe - długie



D	L	AE	Pitch Skok mm	Angle Kąt
22	22	3.5	1.0	60°
			1.5	
			2.0	
			2.5	
24	22	3.5	1.0	
			1.5	
			2.0	
			3.0	

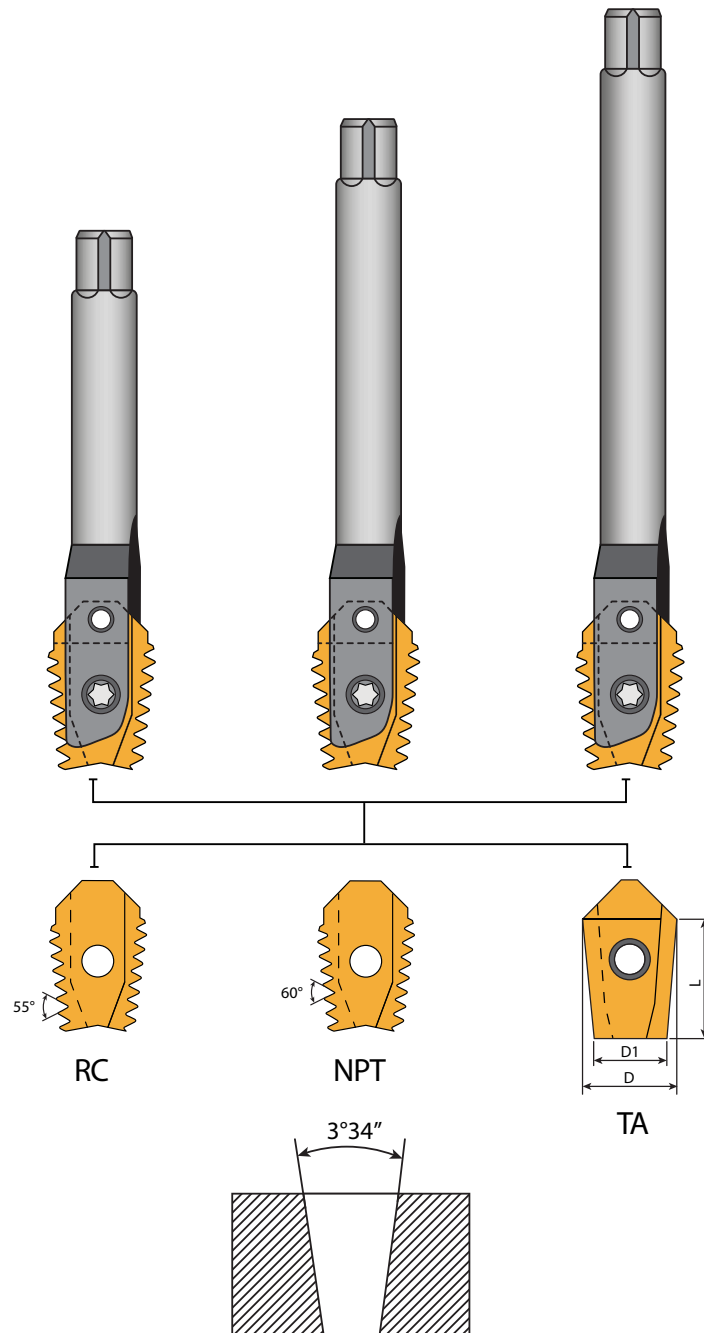
Tolerances Tolerancja D : 6H / AE : ± 0.01~0.015

EDP	Carbide Węglk					Metal cermet Cermetal		Uncoated Bez pokrycia		Inserts Płytki
	P321	P391	P392	P324	P382	P325	P326	P327	P329	
IGSS22100E-MFL										M22 M/MF
IGSS22150E-MFL										
IGSS22200E-MFL										
IGSS22250E-ML										
IGSS22100ME-MFL										
IGSS22150ME-MFL										
IGSS22200ME-MFL										
IGSS22250ME-ML										
IGSS24100E-MFL									M24 M/MF	
IGSS24150E-MFL										
IGSS24200E-MFL										
IGSS24250E-ML										
IGSS24100ME-MFL										
IGSS24150ME-MFL										
IGSS24200ME-MFL										
IGSS24250ME-ML										



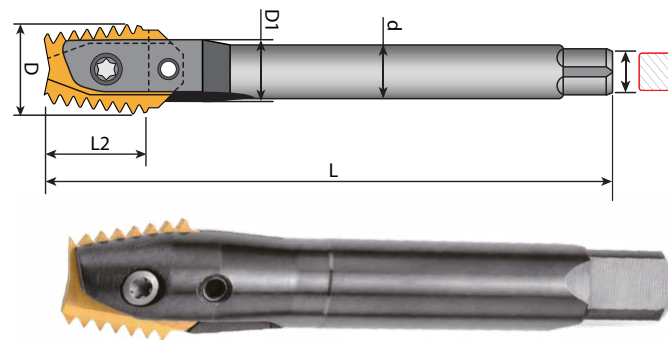
**MODULAR TAP TOOLHOLDERS - PIPE TAPER THREAD**

**UCHYTY DO GWINTOWNIKÓW SKŁADANYCH - GWINT STOŻKOWY RUROWY**



## GSD14 - MODULAR TAP TOOLHOLDERS - PIPE TAPER THREAD

### GSD14 - UCHYTY DO GWINTOWNIKÓW SKŁADANYCH - GWINT STOŻKOWY RUROWY

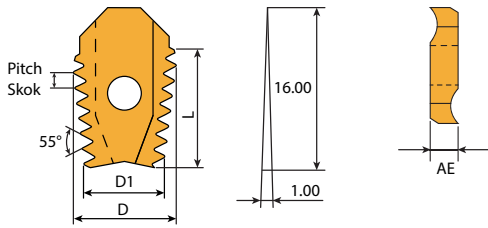


EDP Nr.	D	D1	d	L	L2	KG		Insert		Screw	Key
GSD14080806060	7.7	6.3	8	60	10	0.10	6	1/16"	-		
GSD14080806080				80		0.13					
GSD14100808070	9.8	8.4	8	70	12	0.12	9	1/8"	-		
GSD14100808090				90		0.16					
GSD14131111080	13	11.1	11	80	14	0.15	11	1/4"	-		
GSD14131111120				120		0.20					
GSD14171415080	16.7	14.8	14	80	18	0.16	14	3/8"	-		
GSD14171415120				120		0.24					
GSD14211819090	20.9	18.6	18	90	22	0.22	14	1/2"	-		
GSD14211819140				140		0.33					

# TAPERED WHITWORTH PIPE THREAD

## STOŻKOWY GWINT RUROWY WHITWORTH

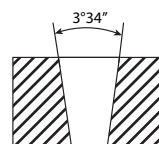
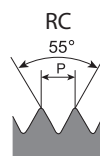
IGSS-RP Carbide Inserts-spiral pointed  
IGSS-RP Płytki węglikowe



Tolerances Tolerancja D : 6H / AE : ± 0.01~0.015

D	L1	L	AE	Pitch Skok t.p.i	Angle Kąt
7.7	1/16"	7.0	10	2.0	55°
9.8	1/8"	9.0	12	2.5	
13.0	1/4"	12.08	14	3.0	
16.7	3/8"	15.58	18	3.5	
20.9	1/2"	19.51	22	3.5	

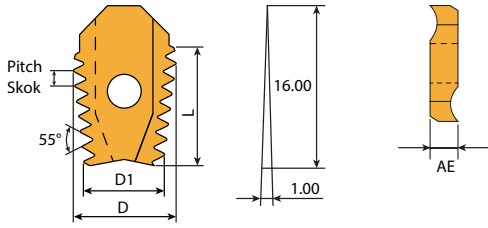
EDP	Carbide Węglík					Metal cermet Cermetal			Uncoated Bez pokrycia		Inserts Płytki
	P321	P391	P392	P324	P382	P325	P326		P327	P329	
IGSS11628E-RC											1/16 RC
IGSS11628ME-RC											
IGSS1828E-RC											1/8 RC
IGSS1828ME-RC											
IGSS1419E-RC											1/4 RC
IGSS1419ME-RC											
IGSS3819E-RC											3/8 RC
IGSS3819ME-RC											
IGSS1214E-RC											1/2 RC
IGSS1214ME-RC											



# AMERICAN TAPERED PIPE THREAD

## AMERYKAŃSKI STOŻKOWY GWINT RUROWY

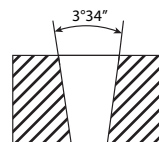
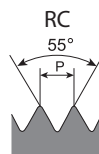
IGSS-NPT Carbide Inserts-spiral pointed  
IGSS-NPT Płytki węglikowe



Tolerances Tolerancja D : 6H / AE : ± 0.01~0.015

D	L1	L	AE	Pitch Skok t.p.i	Angle Kąt
7.5	1/16"	6.89	10	2.0	60°
10.0	1/8"	9.25	12	2.5	
13.0	1/4"	12.16	14	3.0	
16.7	3/8"	15.56	18	3.5	
20.6	1/2"	19.26	22	3.5	

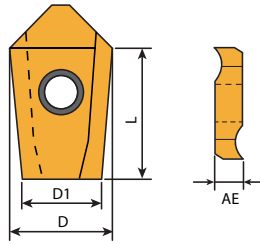
EDP	Carbide Węglík					Metal cermet Cermetal			Uncoated Bez pokrycia		Inserts Płytki
	P321	P391	P392	P324	P382	P325	P326		P327	P329	
IGSS11627E-NPT											1/16 NPT
IGSS11627ME-NPT											
IGSS1827E-NPT											1/8 NPT
IGSS1827ME-NPT											
IGSS1418E-NPT											1/4 NPT
IGSS1418ME-NPT											
IGSS3818E-NPT											3/8 NPT
IGSS3818ME-NPT											
IGSS1214E-NPT											1/2 NPT
IGSS1214ME-NPT											



# TAPER REAMER INSERT 1:16 FOR TAPERED THREADS

## PŁYTKA ROZWIERTAKA STOŻKOWEGO 1:16 DO GWINTÓW STOŻKOWYCH

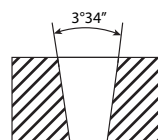
ITAS Carbide Inserts  
ITAS Płytki węglikowe



	D	D1	L	AE
	6.53	1/16"	6.1	10
	8.76	1/8"	8.3	12
	11.10	1/4"	10.8	13
	14.57	3/8"	14.2	14
	18.03	1/2"	17.7	18

Tolerances Tolerancja D : 6H / AE : ± 0.01~0.015

EDP	Carbide Węglík					Metal cermet Cermetal			Uncoated Bez pokrycia		Inserts Płytki
	P321	P391	P392	P324	P382	P325	P326		P327	P329	
ITAS1/16ME											1/16 TA
ITAS1/8ME											
ITAS1/4ME											
ITAS3/8ME											
ITAS1/2ME											





[www.tizimplements.com](http://www.tizimplements.com) [tiz@tiz.pl](mailto:tiz@tiz.pl)