

Member IMC Group
Ingersoll
Cutting Tools

FINE GOLD

2016/2017












Milling



GOLD RUSH

MILLING	DESCRIPTION	SERIES	PAGE
	SUPEROMAX™	9M2L	8
	BLACKOMAX™	12N1A, 9N6A	10
	GOLDOSLOT	3VJ4V	12
	COUGAROMILL™	5C2M	18
	DIPOSOTETRA™	1TJ1C, 1TJ1D	20
	DIPOSHEXA™	1WJ1F, WJ5F	30
	DIPOSHEXA™	Plunging - FHU	32
	GOLDQUAD	Plunging - QHU	36
	GOLDQUAD	90° Shoulder - 9M2L	40
	GOLDQUAD	Extended Flute - 9M2L	44
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	ISOPLUS	1DD1H, DD6H	58
	ISOPLUS	DJ6T, DJ5T, DL6T, DL5T	60

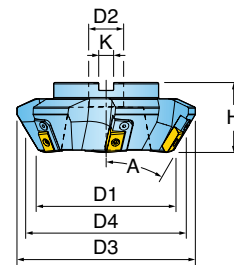
MILLING	DESCRIPTION	SERIES	PAGE
	HIPOSOALU	1AX2K, AX2K, 1AX2Q, AX2Q	63
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	PRODUO	1TW7	100
	TEKROUNDS	47DRX	102
	HYPERROUNDS	47CRQ, 48/49CRQ	104

Features & Benefits:

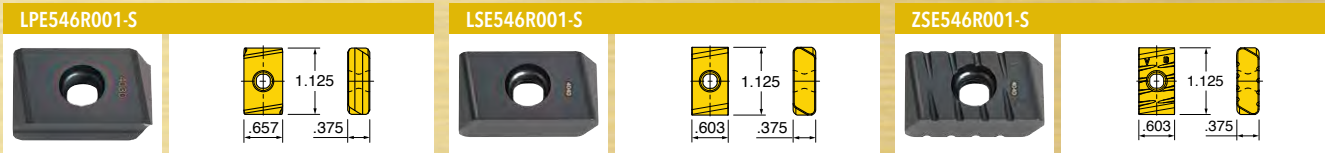
- Extreme Duty In a 30° Lead Facemill
- 4.000" to 12.000" Diameters Standard
- .750" Depth Of Cut Performance
- Well Equipped For Massive Chip Loads in Cast, Forged and Rolled Steels, Irons and Stainless Steels
- Three Inserts, Each Capable Of Powerful Performance

SUPERMAX™ SERIES 9M2L

HEAVY DUTY 60° FACE MILL WITH 4 INDEXES



Cutter Number	D1 Effective Diameter	D3 Max. Dia.	D4 Body O.D.	A Angle	H Height	D2 Bore Dia.	K Keyway	Bolt Circle	Number of Inserts
9M2L-04R01	4.000	4.90	5.66	30.0	3.000	1.500	0.625	NA	5
9M2L-06R01	6.000	6.90	7.66	30.0	3.000	1.500	0.625	NA	6
9M2L-08R01	8.000	8.90	9.66	30.0	3.000	2.500	1.000	4.00	8
9M2L-10R01	10.000	10.90	11.66	30.0	3.000	2.500	1.000	4.00	10
9M2L-12R01	12.000	12.90	13.66	30.0	3.000	2.500	1.000	4.00, 4.75, 7.00	12



Part Number	Application	Grades		
		IN2530	IN4030	IN4040
LPE546R001-S	Multi-Purpose - 0.059" Wiper			
LSE546R001-S	Heavy-Duty - 0.090" R w/.022" Wiper			
ZSE546R001-S	Serrated - 0.090" R w/.022" Wiper			

HARDWARE					
	SM50-160-R0	SE-03-65	NE143R13	DS-A00T	DS-T206B

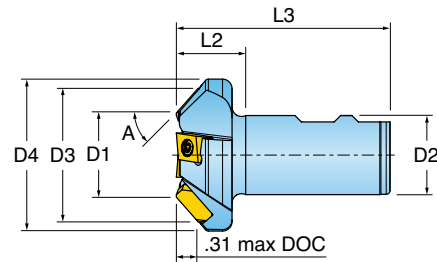
● = P ● = M ● = K ● = N ● = S ● = H

Features & Benefits:

- Heavy Duty 45 degree lead Facemill series is ideally suited for massive chip-loads in forged steels, cast steels and irons
- Ingersoll's "Shear-Clear" combines an extremely strong insert with high axial shear, "a unique combination of insert strength and shear."
- High insert-to-pocket preload provides stable chip formation in the most demanding applications.
- Integral and ground wiping flats deliver exceptional surface finishes

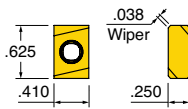
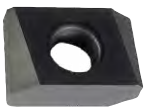
BLACKMAX™ SERIES 19N1A

45° END MILL WITH 4 INDEXES



Cutter Number	D1 Minor Dia.	D3 Major Dia.	D4 Body O.D.	A Angle	L2 Extension Length	L3 Overall Length	D2 Shank Size/Style	Number of Inserts
19N1A-1001180R01	1.000	1.560	1.84	47.8	1.13	3.38	1.000" Weldon	4
19N1A-1501181R01	1.500	2.120	2.40	45.1	1.13	3.38	1.250" Weldon	4
19N1A-2001181R01	2.000	2.640	2.90	44.1	1.13	3.38	1.250" Weldon	6

LSE324R045-S



Part Number	Application	Grades	IN4030	IN4040
LSE324R045-S	Multi-Purpose - 0.038" Chamfer			

HARDWARE



Screw

SM40-140-R0



Driver Handle

DS-A00T

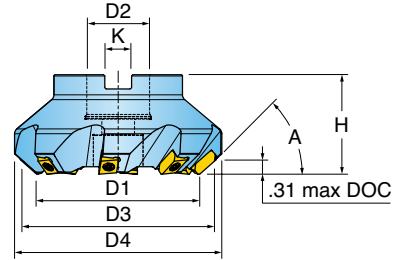
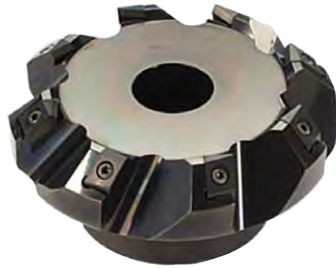


Screw Driver Blade

DS-T156B

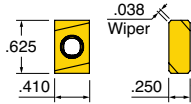
● = P ○ = M ● = K ● = N ● = S ○ = H

45° FACE MILL WITH 4 INDEXES



Cutter Number	D1 Effective Diameter	D3 Max. Dia.	D4 Body O.D.	A Angle	H Height	D2 Bore Dia.	K Keyway	Number of Inserts
9N6A-02R01	2.000	2.64	2.90	44.1	1.750	0.750	0.312	4
9N6A-02R02	2.000	2.64	2.90	44.1	1.750	1.000	0.375	6
9N6A-03R01	3.000	3.66	3.95	43.3	1.750	1.000	0.375	6
9N6A-04R01	4.000	4.67	4.95	42.9	2.375	1.500	0.625	8
9N6A-06R01	6.000	6.68	7.00	42.5	2.375	1.500	0.625	8

LSE324R045-S



Part Number	Application	Grades	IN4030	IN4040
LSE324R045-S	Multi-Purpose - 0.038" Chamfer			

HARDWARE				
	Screw	Retention Bolt	Driver Handle	Screw Driver Blade
9N6A-02R01	SM40-140-R0	SD-06-46	DS-A00T	DS-T156B
9N6A-02R02	SM40-140-R0	SD-08-46	DS-A00T	DS-T156B
9N6A-03R01	SM40-140-R0	SD-08-46	DS-A00T	DS-T156B
9N6A-04R01	SM40-140-R0	SD-12-82	DS-A00T	DS-T156B
9N6A-06R01	SM40-140-R0	SD12-01	DS-A00T	DS-T156B

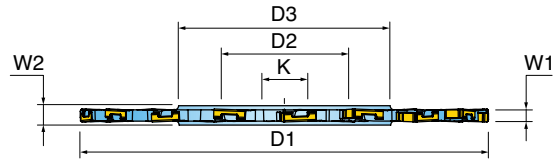
● = P ● = M ● = K ● = N ● = S ● = H

Features & Benefits:

- Fastened-Up For Reliable Accuracy In a Thin Slotter
- Slotter Diameters From 1.500" to 8.000"
- Slotter Widths From .125" to .500"
- 4 Edge Economy (2RH + 2LH per Insert)
- Significant Advances in Durability, Accuracy & Rigidity


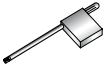


GOLD SLOT SERIES 3VJ4V (AXIAL DRIVE)

LIGHT - MEDIUM DUTY SLOTTERS



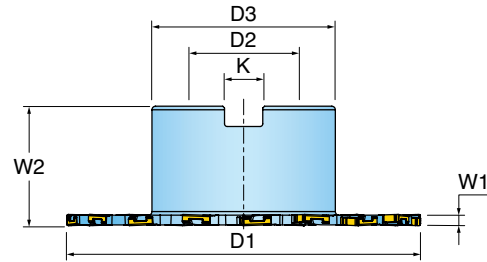
Cutter Number	W1 Cutter Width	D1 Nom. Dia.	D2 Bore Dia.	W2 Hub Width	D3 Hub Diameter	K Keyway	Total No. of Inserts	No. of Effective Inserts	Insert Series
3VJ4V-03012AF-01	0.125	3.000	1.000	0.375	1.56	0.250	10	5	IXH211
3VJ4V-04012AF-01	0.125	4.000	1.000	0.375	1.75	0.250	14	7	IXH211
3VJ4V-03015AF-01	0.156	3.000	1.000	0.375	1.56	0.250	10	5	IXH311
3VJ4V-04015AF-01	0.156	4.000	1.000	0.375	1.75	0.250	12	6	IXH311
3VJ4V-06015AG-01	0.156	6.000	1.250	0.375	1.87	0.312	18	9	IXH311
3VJ4V-03018AF-01	0.187	3.000	1.000	0.375	1.56	0.250	10	5	IXH312
3VJ4V-04018AF-01	0.187	4.000	1.000	0.375	1.75	0.250	12	6	IXH312
3VJ4V-05018AG-01	0.187	5.000	1.250	0.375	1.87	0.312	14	7	IXH312
3VJ4V-06018AG-01	0.187	6.000	1.250	0.375	1.87	0.312	18	9	IXH312
3VJ4V-04025AF-01	0.250	4.000	1.000	0.375	1.75	0.250	10	5	IXH412
3VJ4V-05025AF-01	0.250	5.000	1.000	0.375	1.87	0.250	12	6	IXH412
3VJ4V-06025AG-01	0.250	6.000	1.250	0.375	1.87	0.312	14	7	IXH412
3VJ4V-08025AH-01	0.250	8.000	1.500	0.375	2.75	0.375	18	9	IXH412
3VJ4V-04031AG-01	0.312	4.000	1.250	0.375	1.87	0.312	10	5	IXH413
3VJ4V-06031AG-01	0.312	6.000	1.250	0.375	1.87	0.312	14	7	IXH413
3VJ4V-08031AH-01	0.312	8.000	1.500	0.375	2.75	0.375	18	9	IXH413
3VJ4V-04037AG-01	0.375	4.000	1.250	0.375	1.87	0.312	10	5	IXH414
3VJ4V-06037AG-01	0.375	6.000	1.250	0.375	1.87	0.312	14	7	IXH414
3VJ4V-08037AH-01	0.375	8.000	1.500	0.375	2.75	0.375	18	9	IXH414
3VJ4V-04050AG-01	0.500	4.000	1.250	0.375	1.75	0.312	10	5	IXH415
3VJ4V-05050AH-01	0.500	5.000	1.500	0.375	2.25	0.375	12	6	IXH415
3VJ4V-06050AH-01	0.500	6.000	1.500	0.375	1.87	0.375	14	7	IXH415
3VJ4V-08050AK-01	0.500	8.000	2.000	0.375	3.07	0.500	14	7	IXH415

See Page 11 for insert options.

HARDWARE				
	Screw	Driver	Screw Driver Blade	Driver Handle
3VJ4V-03012AF-01	SM25-025-80	DS-T06F	-	-
3VJ4V-04012AF-01	SM25-025-80	DS-T06F	-	-
3VJ4V-03015AF-01	SM35-034-50	DS-T09W	-	-
3VJ4V-04015AF-01	SM35-034-50	DS-T09W	-	-
3VJ4V-06015AG-01	SM35-034-50	DS-T09W	-	-
3VJ4V-03018AF-01	SM35-042-50	DS-T09W	-	-
3VJ4V-04018AF-01	SM35-042-50	DS-T09W	-	-
3VJ4V-05018AG-01	SM35-042-50	DS-T09W	-	-
3VJ4V-06018AG-01	SM35-042-50	DS-T09W	-	-
3VJ4V-04025AF-01	SM40-055-50	-	DS-T156B	DS-A00T
3VJ4V-05025AF-01	SM40-055-50	-	DS-T156B	DS-A00T
3VJ4V-06025AG-01	SM40-055-50	-	DS-T156B	DS-A00T
3VJ4V-08025AH-01	SM40-055-50	-	DS-T156B	DS-A00T
3VJ4V-04031AG-01	SM40-070-50	-	DS-T156B	DS-A00T
3VJ4V-06031AG-01	SM40-070-50	-	DS-T156B	DS-A00T
3VJ4V-08031AH-01	SM40-070-50	-	DS-T156B	DS-A00T
3VJ4V-04037AG-01	SM40-080-50	-	DS-T156B	DS-A00T
3VJ4V-06037AG-01	SM40-080-50	-	DS-T156B	DS-A00T
3VJ4V-08037AH-01	SM40-080-50	-	DS-T156B	DS-A00T
3VJ4V-04050AG-01	SM40-100-00	-	DS-T156B	DS-A00T
3VJ4V-05050AH-01	SM40-100-00	-	DS-T156B	DS-A00T
3VJ4V-06050AH-01	SM40-100-00	-	DS-T156B	DS-A00T
3VJ4V-08050AK-01	SM40-100-00	-	DS-T156B	DS-A00T


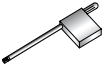



GOLD[®]SLOT SERIES 3VJ4V (RADIAL DRIVE)

LIGHT - MEDIUM DUTY SLOTTERS



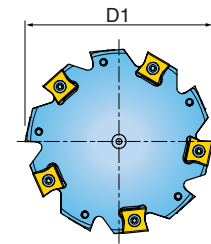
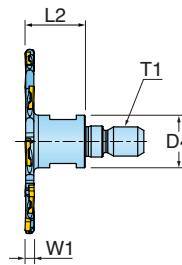
Cutter Number	W1 Cutter Width	D1 Nom. Dia.	D2 Bore Dia.	W2 Hub Width	D3 Hub Diameter	K Keyway	Total No. of Inserts	No. of Effective Inserts	Insert Series
3VJ4V-02012D1R01	0.125	2.500	0.750	1.375	1.18	0.312	8	4	IXH211
3VJ4V-03012D1R01	0.125	3.000	0.750	1.500	1.50	0.312	10	5	IXH211
3VJ4V-04012D3R01	0.125	4.000	1.000	1.500	1.75	0.375	14	7	IXH211
3VJ4V-02015D1R01	0.156	2.500	0.750	1.375	1.18	0.312	8	4	IXH311
3VJ4V-03015D1R01	0.156	3.000	0.750	1.500	1.50	0.312	10	5	IXH311
3VJ4V-04015D3R01	0.156	4.000	1.000	1.500	1.75	0.375	12	6	IXH311
3VJ4V-0601558R01	0.156	6.000	1.500	2.000	3.07	0.625	18	9	IXH311
3VJ4V-02018D1R01	0.187	2.500	0.750	1.375	1.18	0.312	8	4	IXH312
3VJ4V-03018D1R01	0.187	3.000	0.750	1.500	1.50	0.312	10	5	IXH312
3VJ4V-04018D3R01	0.187	4.000	1.000	1.500	1.75	0.375	12	6	IXH312
3VJ4V-05018D3R01	0.187	5.000	1.000	1.500	2.25	0.375	14	7	IXH312
3VJ4V-0601858R01	0.187	6.000	1.500	2.000	3.07	0.625	18	9	IXH312
3VJ4V-02025D1R01	0.250	2.500	0.750	1.500	1.18	0.312	6	3	IXH412
3VJ4V-03025D1R01	0.250	3.000	0.750	1.500	1.50	0.312	8	4	IXH412
3VJ4V-04025D3R01	0.250	4.000	1.000	1.500	1.75	0.375	10	5	IXH412
3VJ4V-05025D3R01	0.250	5.000	1.000	1.500	2.25	0.375	12	6	IXH412
3VJ4V-0602558R01	0.250	6.000	1.500	2.000	3.07	0.625	14	7	IXH412
3VJ4V-04031D3R01	0.312	4.000	1.000	1.500	1.75	0.375	10	5	IXH413
3VJ4V-0603158R01	0.312	6.000	1.500	2.000	3.07	0.625	14	7	IXH413
3VJ4V-0803158R01	0.312	8.000	1.500	2.000	3.80	0.625	18	9	IXH413
3VJ4V-04037D3R01	0.375	4.000	1.000	1.500	1.75	0.375	10	5	IXH414
3VJ4V-05037D3R01	0.375	5.000	1.000	1.500	2.25	0.375	12	6	IXH414
3VJ4V-0603758R01	0.375	6.000	1.500	2.000	3.07	0.625	14	7	IXH414
3VJ4V-0803758R01	0.375	8.000	1.500	2.000	3.80	0.625	18	9	IXH414
3VJ4V-04050D3R01	0.500	4.000	1.000	1.500	1.75	0.375	10	5	IXH415
3VJ4V-05050D3R01	0.500	5.000	1.000	1.500	2.25	0.375	12	6	IXH415
3VJ4V-0605058R01	0.500	6.000	1.500	2.000	3.07	0.625	14	7	IXH415
3VJ4V-0805058R01	0.500	8.000	1.500	2.000	3.80	0.625	18	9	IXH415

See Page 11 for insert options.

HARDWARE					
	Screw	Driver	Retention Bolt	Screw Driver Blade	Driver Handle
3VJ4V-02012D1R01	SM25-025-80	DS-T06F	SD-06-46	-	-
3VJ4V-03012D1R01	SM25-025-80	DS-T06F	SD-06-46	-	-
3VJ4V-04012D3R01	SM25-025-80	DS-T06F	SD-08-46	-	-
3VJ4V-02015D1R01	SM35-034-50	DS-T09W	SD-06-46	-	-
3VJ4V-03015D1R01	SM35-034-50	DS-T09W	SD-06-46	-	-
3VJ4V-04015D3R01	SM35-034-50	DS-T09W	SD-08-46	-	-
3VJ4V-0601558R01	SM35-034-50	DS-T09W	-	-	-
3VJ4V-02018D1R01	SM35-042-50	DS-T09W	SD-06-46	-	-
3VJ4V-03018D1R01	SM35-042-50	DS-T09W	SD-06-46	-	-
3VJ4V-04018D3R01	SM35-042-50	DS-T09W	SD-08-46	-	-
3VJ4V-05018D3R01	SM35-042-50	DS-T09W	SD-08-46	-	-
3VJ4V-0601858R01	SM35-042-50	DS-T09W	-	-	-
3VJ4V-02025D1R01	SM40-055-50	-	SD-06-46	DS-T156B	DS-A00T
3VJ4V-03025D1R01	SM40-055-50	-	SD-06-46	DS-T156B	DS-A00T
3VJ4V-04025D3R01	SM40-055-50	-	SD-08-46	DS-T156B	DS-A00T
3VJ4V-05025D3R01	SM40-055-50	-	-	DS-T156B	DS-A00T
3VJ4V-0602558R01	SM40-055-50	-	-	DS-T156B	DS-A00T
3VJ4V-04031D3R01	SM40-070-50	-	SD-08-46	DS-T156B	DS-A00T
3VJ4V-0603158R01	SM40-070-50	-	-	DS-T156B	DS-A00T
3VJ4V-0803158R01	SM40-070-50	-	-	DS-T156B	DS-A00T
3VJ4V-04037D3R01	SM40-080-50	-	SD-08-46	DS-T156B	DS-A00T
3VJ4V-05037D3R01	SM40-080-50	-	SD-08-46	DS-T156B	DS-A00T
3VJ4V-0603758R01	SM40-080-50	-	-	DS-T156B	DS-A00T
3VJ4V-0803758R01	SM40-080-50	-	-	DS-T156B	DS-A00T
3VJ4V-04050D3R01	SM40-100-00	-	SD-08-46	DS-T156B	DS-A00T
3VJ4V-05050D3R01	SM40-100-00	-	SD-08-46	DS-T156B	DS-A00T
3VJ4V-0605058R01	SM40-100-00	-	-	DS-T156B	DS-A00T
3VJ4V-0805058R01	SM40-100-00	-	-	DS-T156B	DS-A00T

GOLD SLOT SERIES 3VJ4V (TOP-ON DRIVE)

LIGHT - MEDIUM DUTY SLOTTERS



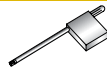
Cutter Number	D1 Nom. Diam.	W Width of Cut	L1 Exten.	T1 Thread Size	Wrench Size	D4 Neck Dia.	Total No. of Inserts	No. of Effective Inserts	Insert Series
3VJ4V-01512X5R01	1.500	0.125	0.80	M08	10mm	0.50	6	3	IXH211
3VJ4V-02012X6R01	2.000	0.125	0.80	M10	15mm	0.70	8	4	IXH211
3VJ4V-02512X6R01	2.500	0.125	0.80	M10	15mm	0.70	10	5	IXH211
3VJ4V-02015X6R01	2.000	0.156	1.00	M10	15mm	0.70	6	3	IXH311
3VJ4V-02515X6R01	2.500	0.156	1.00	M10	15mm	0.70	8	4	IXH311
3VJ4V-02018X6R01	2.000	0.187	1.20	M10	15mm	0.70	6	3	IXH312
3VJ4V-02518X6R01	2.500	0.187	1.20	M10	15mm	0.70	8	4	IXH312
3VJ4V-02525X6R01	2.500	0.250	1.40	M10	15mm	0.70	10	5	IXH412

See Page 11 for insert options.

HARDWARE



Screw



Driver



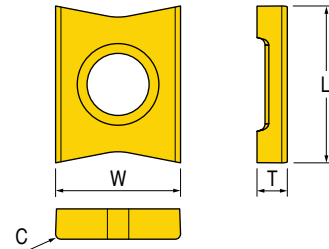
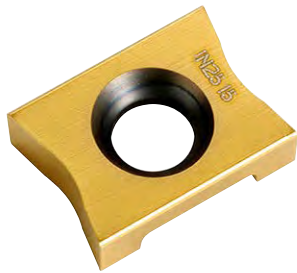
Screw Driver Blade



Driver Handle

Cutter Number	Screw	Driver	Screw Driver Blade	Driver Handle
3VJ4V-01512X5R01	SM25-025-80	DS-T06F	-	-
3VJ4V-02012X6R01	SM25-025-80	DS-T06F	-	-
3VJ4V-02512X6R01	SM25-025-80	DS-T06F	-	-
3VJ4V-02015X6R01	SM35-034-50	DS-T09W	-	-
3VJ4V-02515X6R01	SM35-034-50	DS-T09W	-	-
3VJ4V-02018X6R01	SM35-042-50	DS-T09W	-	-
3VJ4V-02518X6R01	SM35-042-50	DS-T09W	-	-
3VJ4V-02525X6R01	SM40-055-50	-	DS-T156B	DS-A00T

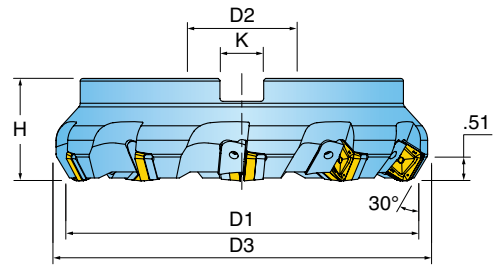
MILLING INSERT



Part Number	L Length	W Width	T Thickness	C Corner	Hand	Grades	IN05S	IN2530	IN2535	IN4005	IN4015	IN4030
IXH211-G01	0.330	0.310	0.070	0.015 R	Neutral				●	●		●
IXH211-G01-P	0.330	0.310	0.070	0.015 R	Neutral	●						
IXH311-G01	0.440	0.350	0.085	0.015 R	Neutral			●		●	●	●
IXH311-G01-P	0.440	0.350	0.085	0.015 R	Neutral	●						
IXH311-G02	0.440	0.350	0.085	0.031 R	Neutral			●	●			●
IXH311-G02-P	0.440	0.350	0.085	0.031 R	Neutral	●						
IXH312-G01	0.468	0.350	0.124	0.015 R	Neutral			●	●	●	●	●
IXH312-G01-P	0.468	0.350	0.124	0.015 R	Neutral	●						
IXH312-G02	0.468	0.350	0.124	0.031 R	Neutral			●	●			●
IXH312-G02-P	0.440	0.350	0.085	0.031 R	Neutral	●						
IXH412-G01	0.550	0.420	0.162	0.015 R	Neutral			●	●	●	●	●
IXH412-G01-P	0.550	0.420	0.162	0.015 R	Neutral	●						
IXH412-G02	0.550	0.420	0.162	0.031 R	Neutral			●	●	●	●	●
IXH412-G02-P	0.550	0.420	0.162	0.031 R	Neutral	●						
IXH412-G03	0.550	0.420	0.162	0.062 R	Neutral				●			●
IXH413-G01	0.551	0.420	0.200	0.015 R	Neutral			●	●	●		●
IXH413-G01-P	0.551	0.420	0.200	0.015 R	Neutral	●						
IXH413-G02	0.551	0.420	0.200	0.031 R	Neutral			●	●			●
IXH413-G02-P	0.551	0.420	0.200	0.031 R	Neutral	●						
IXH414-G01	0.551	0.426	0.240	0.015 R	Neutral			●		●		●
IXH414-G01-P	0.551	0.426	0.240	0.015 R	Neutral	●						
IXH414-G02	0.551	0.426	0.240	0.031 R	Neutral				●			●
IXH414-G02-P	0.551	0.426	0.240	0.031 R	Neutral	●						
IXH414-G03	0.551	0.426	0.240	0.062 R	Neutral							●
IXH415-G01	0.555	0.428	0.300	0.015 R	Neutral					●		●
IXH415-G01-P	0.555	0.428	0.300	0.015 R	Neutral	●						
IXH415-G02	0.555	0.428	0.300	0.031 R	Neutral				●			●
IXH415-G02-P	0.555	0.428	0.300	0.031 R	Neutral	●						
IXH415-G03	0.555	0.428	0.300	0.062 R	Neutral					●		●
IXH415-G03-P	0.555	0.428	0.300	0.062 R	Neutral	●						

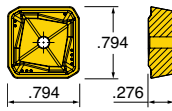
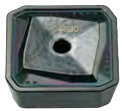
● = P ● = M ● = K ● = N ● = S ● = H

HEAVY DUTY 60° SHEAR CLEAR FACE MILL RH

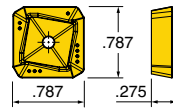


Cutter Number	D1 Effective Diameter	D3 Overall Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Bolt Circle
5C2M-04R01	4.000	4.67	6	2.500	1.500	0.625	NA
5C2M-06R01	6.000	6.67	6	2.375	1.500	0.625	NA
5C2M-06R02	6.000	6.67	8	2.375	1.500	0.625	NA
5C2M-08R01	8.000	8.67	8	2.375	2.500	1.000	4.00
5C2M-08R02	8.000	8.67	10	2.375	2.500	1.000	4.00
5C2M-10R01	10.000	10.67	10	2.375	2.500	1.000	4.00
5C2M-10R02	10.000	10.67	12	2.375	2.500	1.000	4.00, 7.00
5C2M-12R01	12.000	12.67	12	2.375	2.500	1.000	4.00, 4.75, 7.00
5C2M-12R02	12.000	12.67	14	2.375	2.500	1.000	4.00, 4.75, 7.00
5C2M-14R01	14.000	14.67	14	2.375	2.500	1.000	4.00, 4.75, 7.00
5C2M-14R02	14.000	14.67	16	2.375	2.500	1.000	4.00, 4.75, 7.00

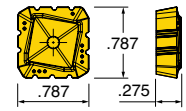
SPEN2007DPTR-MR



SPKN2007DPTR-HD



ZPKN2007DPTR-HD



Part Number	Application	Grades	IN4005	IN4015	IN4030	IN4040
SPEN2007DPTR-MR	Multi-Purpose - 0.090" Wiper w/Radius					
SPKN2007DPTR-HD	Heavy-Duty - 0.090" Wiper w/Radius					
ZPKN2007DPTR-HD	Serrated - 0.090" Wiper w/Radius					

HARDWARE



Screw

SM50-130-R0



Driver

DS-H04T



Wedge

WSC8R-21



Seat

PAR0748



Wedge Screw

TS80200W



Driver Handle

DS-A00T

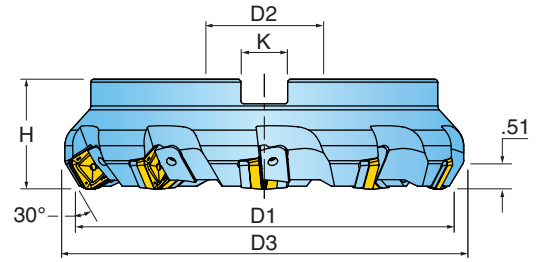


Screw Driver Blade


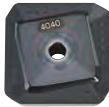

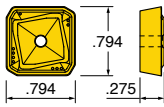
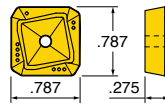
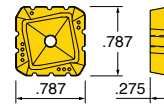
DS-T206B

● = P ● = M ● = K ● = N ● = S ○ = H








HEAVY DUTY 60° SHEAR CLEAR FACE MILL LH



Cutter Number	D1 Effective Diameter	D3 Overall Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Bolt Circle
5C2M-08L01	8.000	8.67	8	2.375	2.500	1.000	4.00
5C2M-08L02	8.000	8.67	10	2.375	2.500	1.000	4.00
5C2M-10L01	10.000	10.67	10	2.375	2.500	1.000	4.00
5C2M-10L02	10.000	10.67	12	2.375	2.500	1.000	4.00, 7.00
5C2M-12L01	12.000	12.67	12	2.375	2.500	1.000	4.00, 4.75, 7.00
5C2M-12L02	12.000	12.67	14	2.375	2.500	1.000	4.00, 4.75, 7.00
5C2M-14L01	14.000	14.67	14	2.375	2.500	1.000	4.00, 4.75, 7.00
5C2M-14L02	14.000	14.67	16	2.375	2.500	1.000	4.00, 4.75, 7.00

SPEN2007DPTL-MR	SPKN2007DPTL-HD	ZPKN2007DPTL-HD
		
		

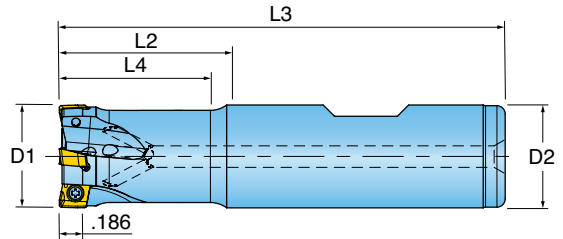
Part Number	Application	Grades	IN4005	IN4015	IN4030	IN4040
SPEN2007DPTL-MR	Multi-Purpose - 0.090" Wiper w/Radius					
SPKN2007DPTL-HD	Heavy-Duty - 0.090" Wiper w/Radius					
ZPKN2007DPTL-HD	Serrated - 0.090" Wiper w/Radius					

HARDWARE							
	Screw	Driver	Wedge	Seat	Wedge Screw	Driver Handle	Screw Driver Blade
	SM50-130-R0	DS-H04T	WSC8L-21	PAL0748	TS80200W	DS-A00T	DS-T206B

● = P ● = M ● = K ● = N ● = S ○ = H

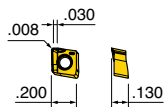
DIPOSOTETRA™ SERIES 1TJ1C (5MM INSERT)

90° END MILL WITH 2 INDEXES

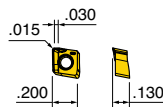


Cutter Number	D1 Nominal Diameter	L2 Extension Length	L3 Overall Length	L4 Projection Length	D2 Shank Size/Style	Number of Inserts	Ramp Angle
1TJ1C-05012S4R01	0.500	1.22	3.00	0.75	.500" Cylind.	2	6.9
1TJ1C-0600779R01	0.625	0.75	2.66	0.72	.625" Weldon	3	4.4
1TJ1C-06020S6R01	0.625	2.09	4.00	1.25	.625" Cylind.	3	4.4
1TJ1C-0701284R01	0.750	1.25	3.25	1.22	.750" Weldon	4	3.3
1TJ1C-07030S7R01	0.750	3.00	5.00	1.25	.750" Cylind.	4	3.3
1TJ1C-1001780R01	1.000	1.75	4.00	1.72	1.000" Weldon	6	2.2
1TJ1C-1001784R01	1.000	1.75	3.75	1.75	.750" Weldon	5	2.2
1TJ1C-10037S1R01	1.000	3.75	6.00	1.25	1.000" Cylind.	5	2.2

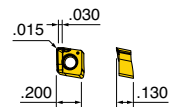
ENHU050302R



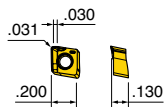
ENHU050304R



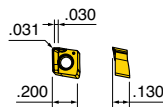
ENHU050304R-PH



ENHU050308R



ENHU050308R-PH



Part Number	Application	Grades	IN2504	IN2505	IN2510	IN2530	IN6515	IN7035
			ENHU050302R	Multi-Purpose - 0.008" R		●		●
ENHU050304R	Multi-Purpose - 0.015" R	●	●	●	●	●		
ENHU050304R-PH	SS/Hi-Temp/Ti - 0.015" R				●		●	
ENHU050308R	Multi-Purpose - 0.031" R	●	●	●	●	●		
ENHU050308R-PH	SS/Hi-Temp/Ti - 0.031" R		●		●		●	

HARDWARE



Insert Screw



Driver



Torque Driver Handle (Optional)



Torque Driver Blade (Optional)

SM20-043-00

DS-TP06S-NEU

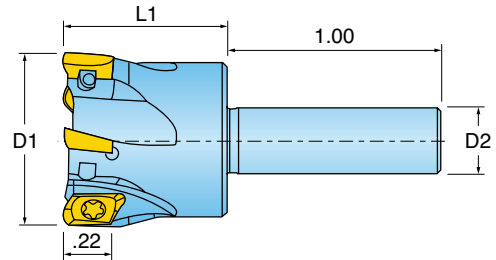
DTN005S

DS-TP06TB

● = P ○ = M ● = K ● = N ● = S ○ = H

DIPOSO TETRA™ SERIES 1TJ1C (5MM INSERT)

90° END MILL WITH 2 INDEXES (SHANK FOR LIVE TOOLING & SWISS)



Cutter Number	D1 Nominal Diameter	L1 Extension Length	L2 Overall Length	D2 Shank Size/Style	Number of Inserts	Ramp Angle
1TJ1C-0700777R01	0.750	0.75	1.75	.375" Cylind.	4	3.3
1TJ1C-1000777R01	1.000	0.75	1.75	.375" Cylind.	5	2.2
1TJ1C-15007S4R01	1.500	0.75	1.75	.500" Cylind.	7	1.3
1TJ1C-20007S6R01	2.000	0.75	1.75	.625" Cylind.	7	.9

ENHU050302R 	ENHU050304R 	ENHU050304R-PH
ENHU050308R 	ENHU050308R-PH 	

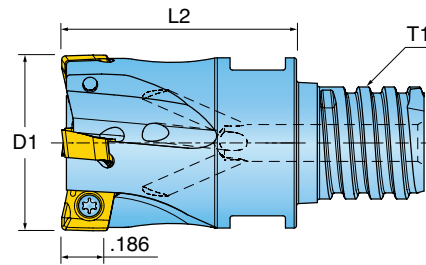
Part Number	Application	Grades	IN2504	IN2505	IN2510	IN2530	IN6515	IN7035
ENHU050302R	Multi-Purpose - 0.008" R			●		●		
ENHU050304R	Multi-Purpose - 0.015" R		●	●	●	●	●	
ENHU050304R-PH	SS/Hi-Temp/Ti - 0.015" R					●		●
ENHU050308R	Multi-Purpose - 0.031" R		●	●	●	●	●	
ENHU050308R-PH	SS/Hi-Temp/Ti - 0.031" R			●		●		●

HARDWARE				
	SM20-043-00	DS-TP06S-NEU	DTN005S	DS-TP06TB

● = P ○ = M ● = K ● = N ● = S ○ = H

DIPOSOTETRA™ SERIES 1TJ1C (5MM INSERT)

90° END MILL WITH 2 INDEXES (CHIP-SURFER STYLE)



Cutter Number	T1 Thread Size	D1 Nominal Diameter	Number of Inserts	L2 Extension Length	Ramp Angle
1TJ1C-05006T8R01	T08	0.500	2	0.65	6.9
1TJ1C-06008TRR01	T10	0.625	3	0.80	4.4
1TJ1C-07007T8R01	T08	0.750	4	0.75	3.3
1TJ1C-07010TSR01	T12	0.750	4	1.00	3.3
1TJ1C-10007T8R01	T08	1.000	5	0.75	2.2
1TJ1C-10012TUR01	T15	1.000	5	1.25	2.2

ENHU050302R 	ENHU050304R 	ENHU050304R-PH
ENHU050308R 	ENHU050308R-PH 	

Part Number	Application	Grades	IN2504	IN2505	IN2510	IN2530	IN6515	IN7035
			ENHU050302R	Multi-Purpose - 0.008" R				
ENHU050304R	Multi-Purpose - 0.015" R							
ENHU050304R-PH	SS/Hi-Temp/Ti - 0.015" R							
ENHU050308R	Multi-Purpose - 0.031" R							
ENHU050308R-PH	SS/Hi-Temp/Ti - 0.031" R							

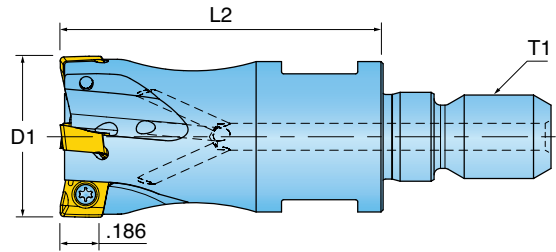
Cutter Number	HARDWARE						
	Insert Screw	Driver	Thin Wrench	Torque Wrench (Optional)	Torque Driver Handle (Optional)	Torque Driver Blade (Optional)	
1TJ1C-05006T8R01	SM20-043-00	DS-TP06S-NEU	WS-0030	DT-130-10	DTN005S	DS-TP06TB	
1TJ1C-06008TRR01	SM20-043-00	DS-TP06S-NEU	WS-0044	DT-250-13	DTN005S	DS-TP06TB	
1TJ1C-07007T8R01	SM20-043-00	DS-TP06S-NEU	WS-0030	-	DTN005S	DS-TP06TB	
1TJ1C-07010TSR01	SM20-043-00	DS-TP06S-NEU	WS-0059	DT-250-16	DTN005S	DS-TP06TB	
1TJ1C-10007T8R01	SM20-043-00	DS-TP06S-NEU	WS-0059	-	DTN005S	DS-TP06TB	
1TJ1C-10012TUR01	SM20-043-00	DS-TP06S-NEU	WS-0061	-	DTN005S	DS-TP06TB	

● = P ○ = M ● = K ● = N ● = S ○ = H

FINE GOLD

DIPOSOTETRA™ SERIES 1TJ1C (5MM INSERT)

90° END MILL WITH 2 INDEXES (TOP-ON STYLE)



Cutter Number	D1 Nom. Dia.	T1 Adaption	L2 Extension Length	Number of Inserts	Wrench Size	Ramp Angle
1TJ1C-06010X5R01	0.625	M8	1.00	3	10mm	4.4
1TJ1C-07015X6R01	0.750	M10	1.50	4	15mm	3.3
1TJ1C-10015X7R01	1.000	M12	1.50	5	17mm	2.1

ENHU050302R 	ENHU050304R 	ENHU050304R-PH
ENHU050308R 	ENHU050308R-PH 	

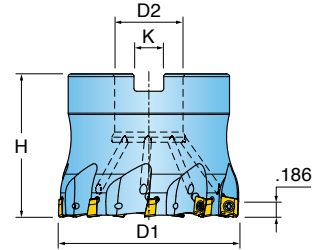
Part Number	Application	Grades	IN2504	IN2505	IN2510	IN2530	IN6515	IN7035
ENHU050302R	Multi-Purpose - 0.008" R			●		●		
ENHU050304R	Multi-Purpose - 0.015" R		●	●	●	●	●	
ENHU050304R-PH	SS/Hi-Temp/Ti - 0.015" R					●		●
ENHU050308R	Multi-Purpose - 0.031" R		●	●	●	●	●	
ENHU050308R-PH	SS/Hi-Temp/Ti - 0.031" R			●		●		●

HARDWARE					
	Insert Screw	Driver	Wrench (Optional)	Torque Driver Handle (Optional)	Torque Driver Blade (Optional)
1TJ1C-06010X5R01	SM20-043-00	DS-TP06S-NEU	610MM	DTN005S	DS-TP06TB
1TJ1C-07015X6R01	SM20-043-00	DS-TP06S-NEU	615MM	DTN005S	DS-TP06TB
1TJ1C-10015X7R01	SM20-043-00	DS-TP06S-NEU	617MM	DTN005S	DS-TP06TB

● = P ● = M ● = K ● = N ● = S ○ = H

DIPOSOTETRA™ SERIES TJ1C (5MM INSERT)







90° FACE MILL WITH 2 INDEXES



Cutter Number	D1 Nominal Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Ramp Angle
TJ1C-15R01	1.500	8	1.570	0.500	0.250	1.3
TJ1C-20R01	2.000	9	1.570	0.750	0.312	.9

ENHU050302R	ENHU050304R	ENHU050304R-PH
 	 	 
ENHU050308R	ENHU050308R-PH	
 	 	

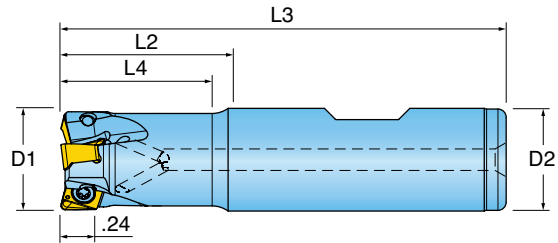
Part Number	Application	Grades	IN2504	IN2505	IN2510	IN2530	IN6515	IN7035
			ENHU050302R	Multi-Purpose - 0.008" R				
ENHU050304R	Multi-Purpose - 0.015" R							
ENHU050304R-PH	SS/Hi-Temp/Ti - 0.015" R							
ENHU050308R	Multi-Purpose - 0.031" R							
ENHU050308R-PH	SS/Hi-Temp/Ti - 0.031" R							

HARDWARE						
	Insert Screw	Driver	Retention Bolt	Torque Driver Handle (Optional)	Torque Driver Blade (Optional)	Coolant Bolt (Optional)
TJ1C-15R01	SM20-043-00	DS-TP06S-NEU	SD-04-46	DTN005S	DS-TP06TB	-
TJ1C-20R01	SM20-043-00	DS-TP06S-NEU	SD-06-46	DTN005S	DS-TP06TB	SD-06-89

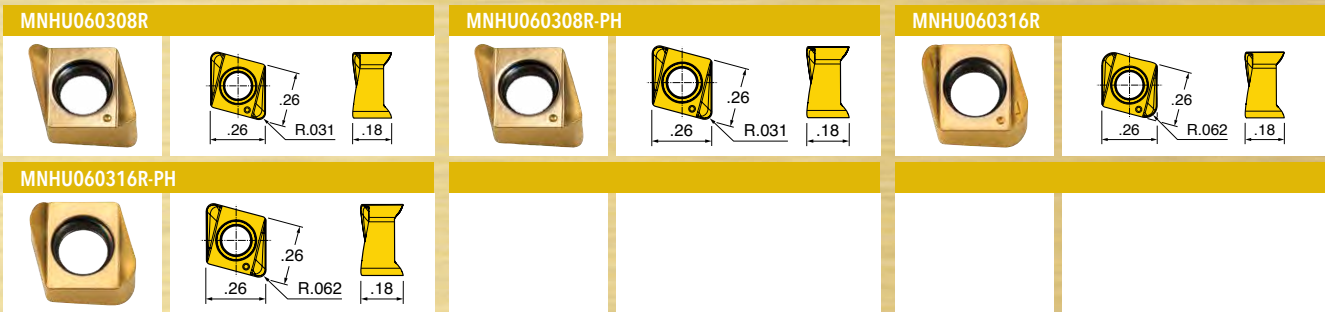
● = P ○ = M ● = K ● = N ● = S ○ = H

DIPOSOTETRA™ SERIES 1TJ1D (6MM INSERT)

90° ROUGH & RAMP END MILL WITH 4 INDEXES



Cutter Number	D1 Nominal Diameter	L2 Extension Length	L3 Overall Length	L4 Projection Length	D2 Shank Size/Style	Number of Inserts	Ramp Angle
1TJ1D-0600779R01	0.625	0.75	2.66	0.72	.625" Weldon	2	3.1
1TJ1D-06020S6R01	0.625	2.09	4.00	1.25	.625" Cylind.	2	3.1
1TJ1D-0701284R01	0.750	1.25	3.25	1.20	.750" Weldon	3	4.1
1TJ1D-07030S7R01	0.750	3.00	5.00	1.25	.750" Cylind.	3	4.1
1TJ1D-1001780R01	1.000	1.75	4.00	1.72	1.000" Weldon	4	4.8
1TJ1D-1001784R01	1.000	1.75	3.75	1.72	.750" Weldon	4	4.8
1TJ1D-10037S1R01	1.000	3.75	6.00	1.25	1.000" Cylind.	4	4.8
1TJ1D-1201781R01	1.250	1.75	4.00	1.72	1.250" Weldon	5	3.6
1TJ1D-1201784R01	1.250	1.75	3.75	1.75	.750" Weldon	5	3.6
1TJ1D-12042S9R01	1.250	4.25	6.50	1.25	1.250" Cylind.	5	3.6
1TJ1D-1501784R01	1.500	1.75	3.75	1.75	.750" Weldon	6	2.8
1TJ1D-1502281R01	1.500	2.25	4.50	2.25	1.250" Weldon	6	2.8
1TJ1D-15047S5R01	1.500	4.75	7.00	1.25	1.500" Cylind.	6	2.8



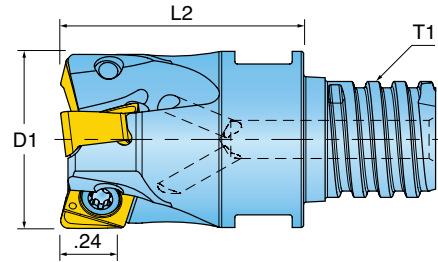
Part Number	Application	Grades				
		IN2035	IN2505	IN2510	IN2530	IN6515
MNHU060308R	Multi-Purpose - 0.031" R		●	●	●	●
MNHU060308R-PH	SS/Hi-Temp/Ti - 0.031" R	●	●		●	
MNHU060316R	Multi-Purpose - 0.062" R		●	●	●	●
MNHU060316R-PH	SS/Hi-Temp/Ti - 0.062" R	●	●		●	

HARDWARE				
	Screw	Screw Driver	Torque Driver Handle (Optional)	Driver Bit (Optional)
	SM30-068-30	DS-T08W	DTQ-18W	DS-T08QB

● = P ○ = M ● = K ● = N ● = S ○ = H

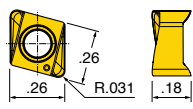
DIPOSOTETRA™ SERIES 1TJ1D (6MM INSERT)

90° ROUGH & RAMP END MILL WITH 4 INDEXES (CHIP SURFER STYLE)

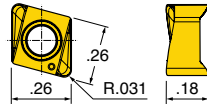


Cutter Number	T1 Thread Size	D1 Nominal Diameter	# Effective	L2 Extension Length	Ramp Angle
1TJ1D-06008TRR01	T10	0.625	2	0.80	3.1
1TJ1D-07010TSR01	T12	0.750	3	1.00	4.1
1TJ1D-10012TUR01	T15	1.000	4	1.25	4.8

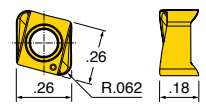
MNHU060308R



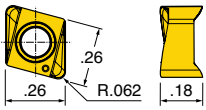
MNHU060308R-PH



MNHU060316R



MNHU060316R-PH

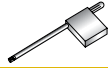


Part Number	Application	Grades	IN2035	IN2505	IN2510	IN2530	IN6515
MNHU060308R	Multi-Purpose - 0.031" R			●	●	●	●
MNHU060308R-PH	SS/Hi-Temp/Ti - 0.031" R		●	●	●	●	●
MNHU060316R	Multi-Purpose - 0.062" R			●	●	●	●
MNHU060316R-PH	SS/Hi-Temp/Ti - 0.062" R		●	●	●	●	●

HARDWARE



Screw



Screw Driver



Thin Wrench



Torque Wrench (Optional)



Torque Driver Handle (Optional)



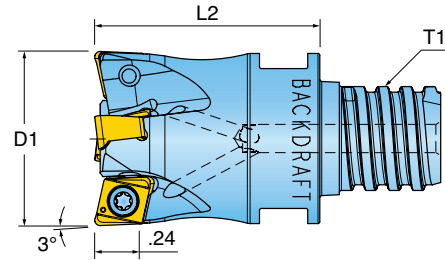
Driver Bit (Optional)

1TJ1D-06008TRR01	SM30-068-30	DS-T08W	WS-0044	DT-250-13	DTQ-18W	DS-T08QB
1TJ1D-07010TSR01	SM30-068-30	DS-T08W	WS-0059	DT-250-16	DTQ-18W	DS-T08QB
1TJ1D-10012TUR01	SM30-068-30	DS-T08W	WS-0061	-	DTQ-18W	DS-T08QB

● = P ○ = M ● = K ● = N ● = S ○ = H

DIPOSOTETRA™ SERIES 1TV1D (6MM INSERT)

BACKDRAFT ROUGH & FINISH END MILL WITH 4 INDEXES (CHIP SURFER STYLE)



Cutter Number	T1 Thread Size	D1 Nominal Diameter	# Effective	L2 Extension Length	Ramp Angle
1TV1D-07010TSR02	T12	0.750	3	1.00	4.7
1TV1D-10012TUR02	T15	1.000	4	1.25	3.9

Recommend .020" max axial step down on straight wall finish applications. Well suited for long reach applications.

MNHU060308R	MNHU060308R-PH	MNHU060316R
MNHU060316R-PH		

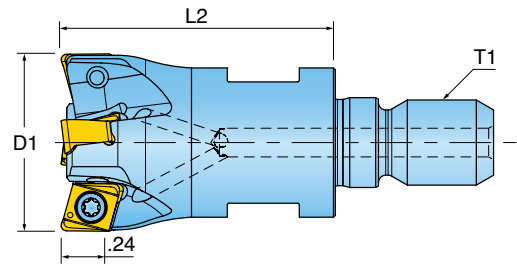
Part Number	Application	Grades	IN2035	IN2505	IN2510	IN2530	IN6515
MNHU060308R	Multi-Purpose - 0.031" R						
MNHU060308R-PH	SS/Hi-Temp/Ti - 0.031" R						
MNHU060316R	Multi-Purpose - 0.062" R						
MNHU060316R-PH	SS/Hi-Temp/Ti - 0.062" R						

HARDWARE						
	Screw	Screw Driver	Thin Wrench	Torque Wrench (Optional)	Torque Driver Handle (Optional)	Driver Bit (Optional)
1TV1D-07010TSR02	SM30-068-30	DS-T08W	WS-0059	DT-250-16	DTQ-18W	DS-T08QB
1TV1D-10012TUR02	SM30-068-30	DS-T08W	WS-0061	-	DTQ-18W	DS-T08QB

● = P ○ = M ● = K ● = N ● = S ○ = H

DIPOSOTETRA™ SERIES 1TJ1D (6MM INSERT)

90° ROUGH & RAMP END MILL WITH 4 INDEXES (TOPON STYLE)



Cutter Number	D1 Nom. Dia.	T1 Adaption	L2 Extension Length	Number of Inserts	Wrench Size	Ramp Angle
1TJ1D-07015X6R01	0.750	M10	1.50	3	15mm	4.1
1TJ1D-10015X7R01	1.000	M12	1.50	4	17mm	4.8
1TJ1D-12017X8R01	1.250	M16	1.75	5	22mm	3.6
1TJ1D-15017X8R01	1.500	M16	1.75	6	22mm	2.8

MNHU060308R	MNHU060308R-PH	MNHU060316R

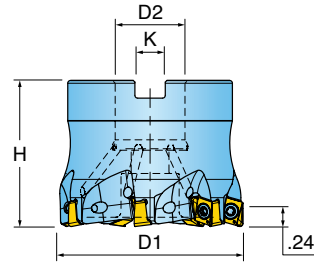
Part Number	Application	Grades				
		IN2035	IN2505	IN2510	IN2530	IN6515
MNHU060308R	Multi-Purpose - 0.031" R					
MNHU060308R-PH	SS/Hi-Temp/Ti - 0.031" R					
MNHU060316R	Multi-Purpose - 0.062" R					
MNHU060316R-PH	SS/Hi-Temp/Ti - 0.062" R					

HARDWARE					
	Screw	Screw Driver	Wrench (Optional)	Torque Driver Handle (Optional)	Driver Bit (Optional)
1TJ1D-07015X6R01	SM30-068-30	DS-T08W	615MM	DTQ-18W	DS-T08QB
1TJ1D-10015X7R01	SM30-068-30	DS-T08W	617MM	DTQ-18W	DS-T08QB
1TJ1D-12017X8R01	SM30-068-30	DS-T08W	622MM	DTQ-18W	DS-T08QB
1TJ1D-15017X8R01	SM30-068-30	DS-T08W	622MM	DTQ-18W	DS-T08QB

● = P ○ = M ● = K ● = N ● = S ○ = H

DIPOSO TETRA™ SERIES TJ1D (6MM INSERT)

90° ROUGH & RAMP FACE MILL WITH 4 INDEXES



Cutter Number	D1 Nominal Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Ramp Angle
TJ1D-15R01	1.500	6	1.570	0.500	0.250	2.8
TJ1D-20R01	2.000	7	1.570	0.750	0.312	2.0

MNHU060308R	MNHU060308R-PH	MNHU060316R
MNHU060316R-PH		

Part Number	Application	Grades	IN2035	IN2505	IN2510	IN2530	IN6515
MNHU060308R	Multi-Purpose - 0.031" R						
MNHU060308R-PH	SS/Hi-Temp/Ti - 0.031" R						
MNHU060316R	Multi-Purpose - 0.062" R						
MNHU060316R-PH	SS/Hi-Temp/Ti - 0.062" R						

HARDWARE						
	Screw	Retention Bolt	Screw Driver	Torque Driver Handle (Optional)	Driver Bit (Optional)	Coolant Bolt (Optional)
TJ1D-15R01	SM30-068-30	SD-04-46	DS-T08W	DTQ-18W	DS-T08QB	-
TJ1D-20R01	SM30-068-30	SD-06-46	DS-T08W	DTQ-18W	DS-T08QB	SD-06-89

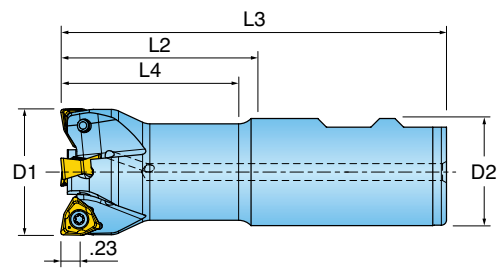
● = P ● = M ● = K ● = N ● = S ○ = H

Features & Benefits:

- Economical and free-cutting 90 degree shoulder milling geometry
- 2-side technology applied with 6 cutting edges (3+3)
- Aggressive roughing and ramping capabilities at .230 depth of cut
- Equipped with fine pitched densities for high productivity machining
- Surface finishes between 63 - 125+ Ra (dependant upon corner radius & feed rate)

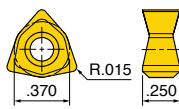
DIPOS HEXA™ SERIES 1WJ1F (6MM INSERT)

90° ROUGH & RAMP END MILL WITH 6 INDEXES

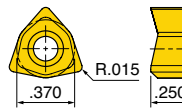


Cutter Number	D1 Nominal Diameter	L2 Extension Length	L3 Overall Length	L4 Projection Length	D2 Shank Size/Style	Number of Inserts	Ramp Angle
1WJ1F-1001780R01	1.000	1.75	4.00	1.72	1.000" Weldon	2	2.7
1WJ1F-1202281R01	1.250	2.25	4.50	2.22	1.250" Weldon	3	2.0
1WJ1F-1502281R01	1.500	2.25	4.50	2.22	1.250" Weldon	4	1.6

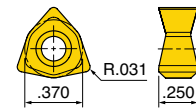
WNCU060608FN-P



WNMU060604N



WNMU060608N



Part Number	Application	Grades				
		IN10K	IN2504	IN2505	IN2530	IN6535
WNCU060608FN-P	Aluminum - 0.031" R	●				
WNMU060604N	Multi-Purpose - 0.015" R		●	●	●	●
WNMU060608N	Multi-Purpose - 0.031" R	●	●	●	●	●

HARDWARE



Screw

SM35-088-60



Driver Handle

DS-A00T



Screw Driver Blade

DS-T106B



Driver Bit (Optional)

DS-T10B



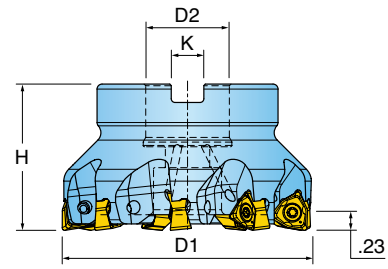
Torque Driver Handle (Optional)

DT-28-01

● = P ○ = M ● = K ● = N ● = S ○ = H

DIPOSOHEXA™ SERIES WJ5F (6MM INSERT)

90° ROUGH & RAMP FACE MILL WITH 6 INDEXES



Cutter Number	D1 Nominal Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Ramp Angle
WJ5F-20R01	2.000	6	1.570	0.750	0.312	1.4
WJ5F-25R01	2.500	7	1.570	0.750	0.312	1.8
WJ5F-30R01	3.000	9	1.750	1.000	0.375	2.1
WJ5F-40R01	4.000	11	2.375	1.500	0.625	2.2

Part Number	Application	Grades	IN10K	IN2504	IN2505	IN2530	IN6535
WNCU060608FN-P	Aluminum - 0.031" R		●				
WNMU060604N	Multi-Purpose - 0.015" R			●	●	●	●
WNMU060608N	Multi-Purpose - 0.031" R		●	●	●	●	●

Cutter Number	HARDWARE						
	Screw	Retention Bolt	Coolant Bolt (Optional)	Driver Handle	Screw Driver Blade	Driver Bit (Optional)	Torque Driver Handle (Optional)
WJ5F-20R01	SM35-088-60	SD-06-46	SD-06-89	DS-A00T	DS-T106B	DS-T10B	DT-28-01
WJ5F-25R01	SM35-088-60	SD-06-46	SD-06-89	DS-A00T	DS-T106B	DS-T10B	DT-28-01
WJ5F-30R01	SM35-088-60	SD-08-46	SD-08-92	DS-A00T	DS-T106B	DS-T10B	DT-28-01
WJ5F-40R01	SM35-088-60	SD-12-82	SD-12-99	DS-A00T	DS-T106B	DS-T10B	DT-28-01

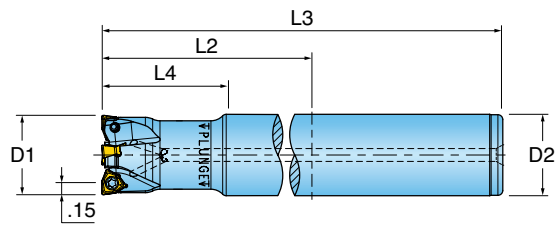
● = P ● = M ● = K ● = N ● = S ○ = H

Features & Benefits:

- 6 smooth cutting edges (3+3)
- Geometry produces a Flat Bottom on the piece part
- Multiple corner radii, grades and geometries for all materials
- Ideal for roughing in unstable conditions
- Same insert used with end mills and face mills

DIPOS HEXA™ SERIES FHU (4MM INSERT)

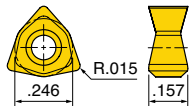
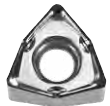
FLAT BOTTOM PLUNGE ROUGHING MILLS WITH 6 INDEXES (STRAIGHT SHANK STYLE)



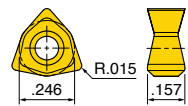
Cutter Number	D1 Eff. Dia.	L2 Extension Length	L3 Overall Length	L4 Projection Length	D2 Shank Size/Style	Number of Inserts
FHU-0703057R01	0.750	3.00	5.00	1.50	.750" Cylind.	3
FHU-1003251R01	1.000	3.25	5.50	1.50	1.000" Cylind.	4

Cutter body can be modified; shorten by cutting off back end or add projection length by turning back neck diameter.

WNCU04T304FN-P



WNMU04T304N



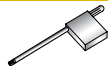
Part Number	Application	Grades	IN10K	IN2504	IN2505	IN2530	IN6535
WNCU04T304FN-P	Aluminum - 0.015" R		●				
WNMU04T304N	Multi-Purpose - 0.015" R		●	●	●	●	●

HARDWARE



Screw

SM25-064-00



Screw Driver

DS-T08W



Torque Driver Handle (Optional)

DTQ-11W



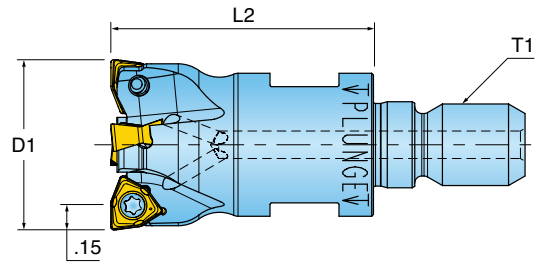
Torque Driver Bit (Optional)

DTQ-11WK

● = P ● = M ● = K ● = N ● = S ○ = H

DIPOSOHEXA™ SERIES FHU (4MM INSERT)

FLAT BOTTOM MODULAR PLUNGE ROUGHING MILLS WITH 6 INDEXES (TOPON STYLE)



Cutter Number	D1 Nominal Diameter	T1 Adaption	L2 Extension Length	Number of Inserts	Wrench Size
FHU-07012X6R01	0.750	M10	1.25	3	15mm
FHU-10015X7R01	1.000	M12	1.50	4	17mm

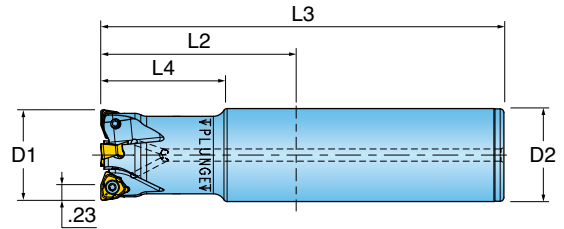
Part Number	Application	Grades				
		IN10K	IN2504	IN2505	IN2530	IN6535
WNCU04T304FN-P	Aluminum - 0.015" R	●				
WNMU04T304N	Multi-Purpose - 0.015" R	●	●	●	●	●

Cutter Number	HARDWARE				
	Screw	Screw Driver	Wrench (Optional)	Torque Driver Handle (Optional)	Torque Driver Bit (Optional)
FHU-07012X6R01	SM25-064-00	DS-T08W	615MM	DTQ-11W	DTQ-11WK
FHU-10015X7R01	SM25-064-00	DS-T08W	617MM	DTQ-11W	DTQ-11WK

● = P ● = M ● = K ● = N ● = S ○ = H

DIPOSOHEXA™ SERIES FHU (6MM INSERT)

FLAT BOTTOM PLUNGE ROUGHING MILLS WITH 6 INDEXES (STRAIGHT SHANK STYLE)



Cutter Number	D1 Eff. Dia.	L2 Extension Length	L3 Overall Length	L4 Projection Length	D2 Shank Size/Style	Number of Inserts
FHU-1203759R01	1.250	3.75	6.00	2.00	1.250" Cylind.	3
FHU-1503855R01	1.500	3.84	6.50	2.00	1.500" Cylind.	4

Cutter body can be modified; shorten by cutting off back end or add projection length by turning back neck diameter.

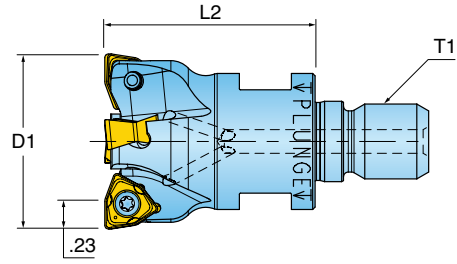
Part Number	Application	Grades	Material Grades				
			IN10K	IN2504	IN2505	IN2530	IN6535
WNCU060608FN-P	Aluminum - 0.031" R		●				
WNMU060604N	Multi-Purpose - 0.015" R			●	●	●	●
WNMU060608N	Multi-Purpose - 0.031" R		●	●	●	●	●

HARDWARE					
	Screw	Driver Handle	Screw Driver Blade	Driver Bit (Optional)	Torque Driver Handle (Optional)
	SM35-088-60	DS-A00T	DS-T106B	DS-T10B	DT-28-01

● = P ○ = M ● = K ● = N ● = S ○ = H

DIPOSOHEXA™ SERIES FHU (6MM INSERT)

FLAT BOTTOM MODULAR PLUNGE ROUGHING MILLS WITH 6 INDEXES (TOPON STYLE)



Cutter Number	D1 Nominal Diameter	T1 Adaption	L2 Extension Length	Number of Inserts	Wrench Size
FHU-12017X8R01	1.250	M16	1.75	3	22mm
FHU-15017X8R01	1.500	M16	1.75	4	22mm

Part Number	Application	Grades				
		IN10K	IN2504	IN2505	IN2530	IN6535
WNCU060608FN-P	Aluminum - 0.031" R	●				
WNMU060604N	Multi-Purpose - 0.015" R		●	●	●	●
WNMU060608N	Multi-Purpose - 0.031" R		●	●	●	●

HARDWARE						
	Screw	Driver Handle	Screw Driver Blade	Wrench (Optional)	Driver Bit (Optional)	Torque Driver Handle (Optional)
	SM35-088-60	DS-A00T	DS-T106B	622MM	DS-T10B	DT-28-01

● = P ○ = M ● = K ● = N ● = S ○ = H

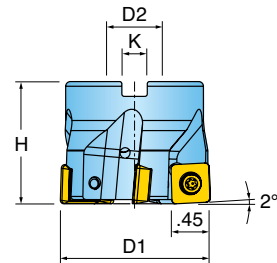
GOLD^QQUAD **Plunging**

Features & Benefits:

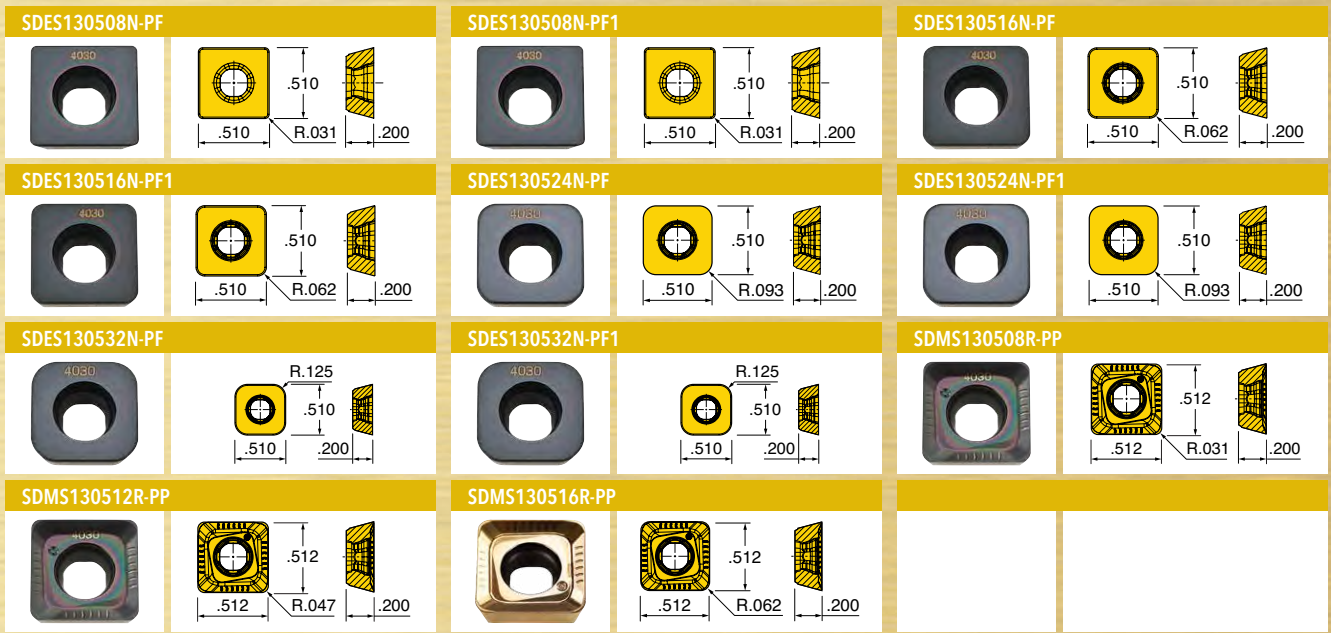
- .45" max. radial depth of cut capability (depending on corner radius)
- Excels in general purpose roughing and long reach plunge applications
- Perfect for roughing on small spindle machines
- Inserts offered with clean shearing Hi-Temp Alloy geometry and strong Flat Top geometry
- Internal coolant supply (face mills only)

GOLD^QQUAD SERIES QHU (13MM INSERT)

PLUNGE ROUGHING MILL (SHELL MILL STYLE)



Cutter Number	D1 Effective Diameter	Number of Inserts	D2 Bore Dia.	K Keyway	H Height
QHU-20015D1R01	2.000	5	0.750	0.312	1.570
QHU-20015D1R02	2.000	4	0.750	0.312	1.570
QHU-25015D1R01	2.500	5	0.750	0.312	1.570
QHU-30017D3R01	3.000	7	1.000	0.375	1.750
QHU-30017D3R02	3.000	5	1.000	0.375	1.750
QHU-40023D5R01	4.000	9	1.500	0.625	2.375
QHU-40023D5R02	4.000	7	1.500	0.625	2.375



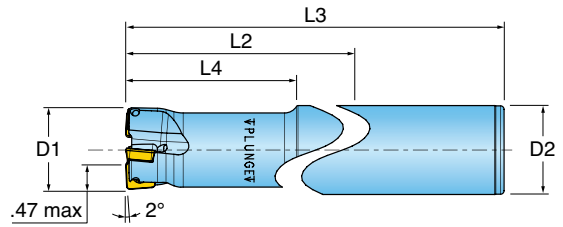
Part Number	Application	Grades					
		IN2530	IN2535	IN4005	IN4015	IN4030	IN4035
SDES130508N-PF	Flat Top - Landed Edge - 0.031" R			●	●	●	●
SDES130508N-PF1	Flat Top - Keen Edge - 0.031" R				●	●	●
SDES130516N-PF	Flat Top - Landed Edge - 0.062" R			●	●	●	●
SDES130516N-PF1	Flat Top - Keen Edge - 0.062" R				●	●	●
SDES130524N-PF	Flat Top - Landed Edge - 0.093" R			●		●	
SDES130524N-PF1	Flat Top - Keen Edge - 0.093" R				●	●	●
SDES130532N-PF	Flat Top - Landed Edge - 0.125" R			●		●	
SDES130532N-PF1	Flat Top - Keen Edge - 0.125" R				●	●	●
SDMS130508R-PP	Positive Geometry - 0.031" R						●
SDMS130512R-PP	Positive Geometry - 0.047" R					●	●
SDMS130516R-PP	Positive Geometry - 0.062" R	●	●	●		●	●

Hardware					
	Screw	Retention Bolt	Coolant Bolt (Optional)	Driver Handle	Screw Driver Blade
QHU-20015D1R01	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B
QHU-20015D1R02	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B
QHU-25015D1R01	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B
QHU-30017D3R01	SM40-100-R0	SD-08-46	SD-08-92	DS-A00T	DS-T156B
QHU-30017D3R02	SM40-100-R0	SD-08-46	SD-08-92	DS-A00T	DS-T156B
QHU-40023D5R01	SM40-100-R0	SD-12-82	SD-12-99	DS-A00T	DS-T156B
QHU-40023D5R02	SM40-100-R0	SD-12-82	SD-12-99	DS-A00T	DS-T156B

● = P ● = M ● = K ● = N ● = S ○ = H

GOLDQUAD SERIES QHU (13MM INSERT)

PLUNGE ROUGHING MILL (STRAIGHT SHANK STYLE)



Cutter Number	D1 Eff. Dia.	L2 Extension Length	L3 Overall Length	L4 Projection Length	D2 Shank Size/Style	Number of Inserts
QHU-15073S5R01	1.500	7.34	10.00	3.00	1.500" Cylind.	3

Cutter body can be modified; shorten by cutting off back end or add projection length by turning back neck diameter.

SDES130508N-PF 	SDES130508N-PF1 	SDES130516N-PF
SDES130516N-PF1 	SDES130524N-PF 	SDES130524N-PF1
SDES130532N-PF 	SDES130532N-PF1 	SDMS130508R-PP
SDMS130512R-PP 	SDMS130516R-PP 	

Part Number	Application	Grades	IN2530	IN2535	IN4005	IN4015	IN4030	IN4035
SDES130508N-PF	Flat Top - Landed Edge - 0.031" R				●	●	●	●
SDES130508N-PF1	Flat Top - Keen Edge - 0.031" R					●	●	●
SDMS130508R-PP	Positive Geometry - 0.031" R						●	●
SDMS130512R-PP	Positive Geometry - 0.047" R						●	●
SDES130516N-PF	Flat Top - Landed Edge - 0.062" R				●	●	●	●
SDES130516N-PF1	Flat Top - Keen Edge - 0.062" R					●	●	●
SDMS130516R-PP	Positive Geometry - 0.062" R		●	●	●	●	●	●
SDES130524N-PF	Flat Top - Landed Edge - 0.093" R				●	●	●	●
SDES130524N-PF1	Flat Top - Keen Edge - 0.093" R					●	●	●
SDES130532N-PF	Flat Top - Landed Edge - 0.125" R				●	●	●	●
SDES130532N-PF1	Flat Top - Keen Edge - 0.125" R					●	●	●

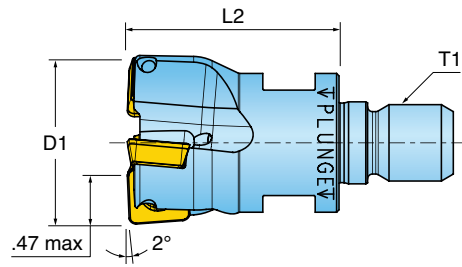
HARDWARE			
	SM40-100-R0	DS-A00T	DS-T156B

● = P ● = M ● = K ● = N ● = S ○ = H



GOLDQUAD SERIES QHU (13MM INSERT)

MODULAR PLUNGE ROUGHING MILL (TOPON STYLE)



Cutter Number	D1 Nominal Diameter	T1 Adaption	L2 Extension Length	Number of Inserts	Wrench Size
QHU-15017X8R01	1.500	M16	1.75	3	22mm

SDES130508N-PF 	SDES130508N-PF1 	SDES130516N-PF
SDES130516N-PF1 	SDES130524N-PF 	SDES130524N-PF1
SDES130532N-PF 	SDES130532N-PF1 	SDMS130508R-PP
SDMS130512R-PP 	SDMS130516R-PP 	

Part Number	Application	Grades	IN2530	IN2535	IN4005	IN4015	IN4030	IN4035
SDES130508N-PF	Flat Top - Landed Edge - 0.031" R				●	●	●	●
SDES130508N-PF1	Flat Top - Keen Edge - 0.031" R					●	●	●
SDMS130508R-PP	Positive Geometry - 0.031" R						●	●
SDMS130512R-PP	Positive Geometry - 0.047" R						●	●
SDES130516N-PF	Flat Top - Landed Edge - 0.062" R				●	●	●	●
SDES130516N-PF1	Flat Top - Keen Edge - 0.062" R						●	●
SDMS130516R-PP	Positive Geometry - 0.062" R		●	●	●	●	●	●
SDES130524N-PF	Flat Top - Landed Edge - 0.093" R				●		●	●
SDES130524N-PF1	Flat Top - Keen Edge - 0.093" R						●	●
SDES130532N-PF	Flat Top - Landed Edge - 0.125" R				●		●	●
SDES130532N-PF1	Flat Top - Keen Edge - 0.125" R						●	●

HARDWARE				
	SM40-100-R0	DS-A00T	DS-T156B	622MM

● = P ○ = M ● = K ● = N ● = S ○ = H

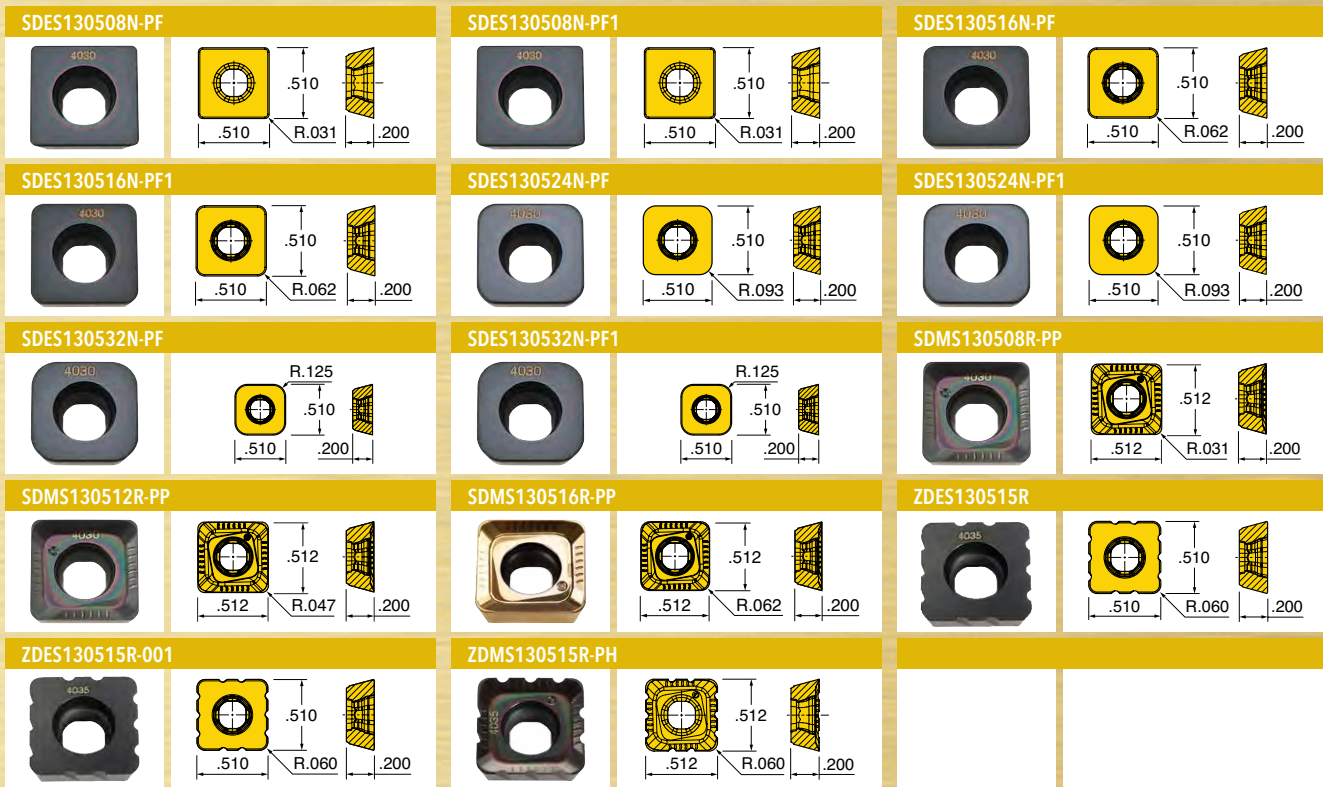
GOLD•QUAD 90° Shoulders

Features & Benefits:

- 90° shoulder milling geometry with 4 indexes
- .45" depth of cut availability
- Corner radius options R.031", .047", .062", .093", .125", & .250"
- Rake face insert geometries for hi-shear and hi-efficiency
- Flat-top insert geometries for edge strength
- Chip splitter geometry available
- Utilizes same insert pocket as GOLD•QUAD long edge, plunge and hi-feed lines
- Coolant through the tool

GOLD•QUAD SERIES 5J5P (13MM INSERT)

90° FACE MILL						
Cutter Number	D1 Effective Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Ramp Angle
5J5P-20R01	2.000	5	1.570	0.750	0.312	3.0
5J5P-25R01	2.500	6	1.570	0.750	0.312	2.0
5J5P-30R01	3.000	8	1.750	1.000	0.375	1.5
5J5P-40R01	4.000	10	2.375	1.500	0.625	1.0



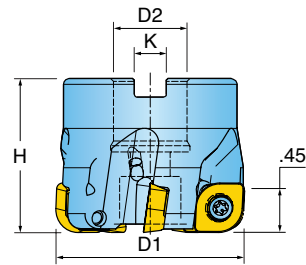
Part Number	Application	Grades					
		IN2530	IN2535	IN4005	IN4015	IN4030	IN4035
SDES130508N-PF	Flat Top - Landed Edge - 0.031" R			●	●	●	●
SDES130508N-PF1	Flat Top - Keen Edge - 0.031" R					●	●
SDMS130508R-PP	Positive Geometry - 0.031" R						●
SDMS130512R-PP	Positive Geometry - 0.047" R					●	
SDES130516N-PF	Flat Top - Landed Edge - 0.062" R			●	●	●	●
SDES130516N-PF1	Flat Top - Keen Edge - 0.062" R					●	●
SDMS130516R-PP	Positive Geometry - 0.062" R	●	●	●		●	●
SDES130524N-PF	Flat Top - Landed Edge - 0.093" R			●		●	
SDES130524N-PF1	Flat Top - Keen Edge - 0.093" R					●	●
SDES130532N-PF	Flat Top - Landed Edge - 0.125" R			●		●	
SDES130532N-PF1	Flat Top - Keen Edge - 0.125" R					●	●
ZDES130515R	Flat Top - Splitters - Landed Edge - 0.060" R			●	●	●	
ZDES130515R-001	Flat Top - Splitters - Keen Edge - 0.060" R						●
ZDMS130515R-PH	Positive - Splitters - 0.060" R						●

Hardware							
	Screw	Retention Bolt	Coolant Bolt (Optional)	Driver Handle	Screw Driver Blade	Driver Bit (Optional)	Torque Driver Handle (Optional)
5J5P-20R01	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
5J5P-25R01	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
5J5P-30R01	SM40-100-R0	SD-08-46	SD-08-92	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
5J5P-40R01	SM40-100-R0	SD-12-82	SD-12-99	DS-A00T	DS-T156B	DS-T15B1	DT-35-02

● = P ● = M ● = K ● = N ● = S ○ = H

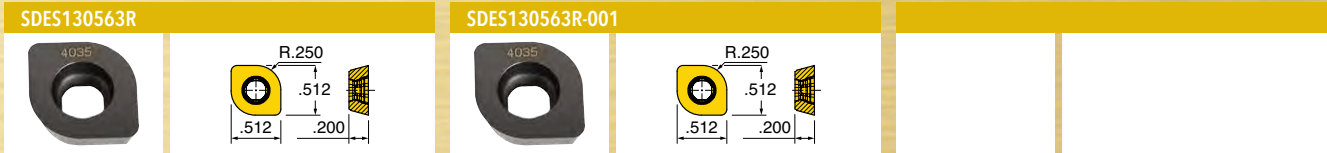
GOLD[®]QUAD SERIES 5J5P-R (13MM INSERT)






90° FACE MILL FOR LARGE CORNER RADIUS










Cutter Number	D1 Effective Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Ramp Angle
5J5P-20R01-R	2.000	5	1.570	0.750	0.312	3.0
5J5P-25R01-R	2.500	6	1.570	0.750	0.312	2.0
5J5P-30R01-R	3.000	8	1.750	1.000	0.375	1.5
5J5P-40R01-R	4.000	10	2.375	1.500	0.625	1.0

Recommend .125" or less depth of cut increments



Part Number	Application	Grades	IN4005	IN4030	IN4035
SDES130563R	Flat Top - Landed Edge - 0.250" R				
SDES130563R-001	Flat Top - Keen Edge - 0.250" R				

HARDWARE							
	Screw	Retention Bolt	Coolant Bolt (Optional)	Driver Handle	Screw Driver Blade	Driver Bit (Optional)	Torque Driver Handle (Optional)
5J5P-20R01-R	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
5J5P-25R01-R	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
5J5P-30R01-R	SM40-100-R0	SD-08-46	SD-08-92	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
5J5P-40R01-R	SM40-100-R0	SD-12-82	SD-12-99	DS-A00T	DS-T156B	DS-T15B1	DT-35-02

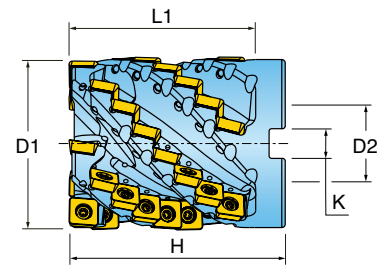
● = P ● = M ● = K ● = N ● = S ○ = H

Features & Benefits:

- Extreme geometry promotes high-shearing action for efficient cutting of Stainless Steels and Nickel Alloys
- Corner radius offerings of .031", .060", .125" & .250"
- R.031 & R.060 inserts may be used in both end and side stations
- Rake face insert geometry for optimum shear
- Flat top insert geometry for strength & durability
- Chip splitter insert geometry for vibration resistance & channel cut efficiency
- Internal coolant supply

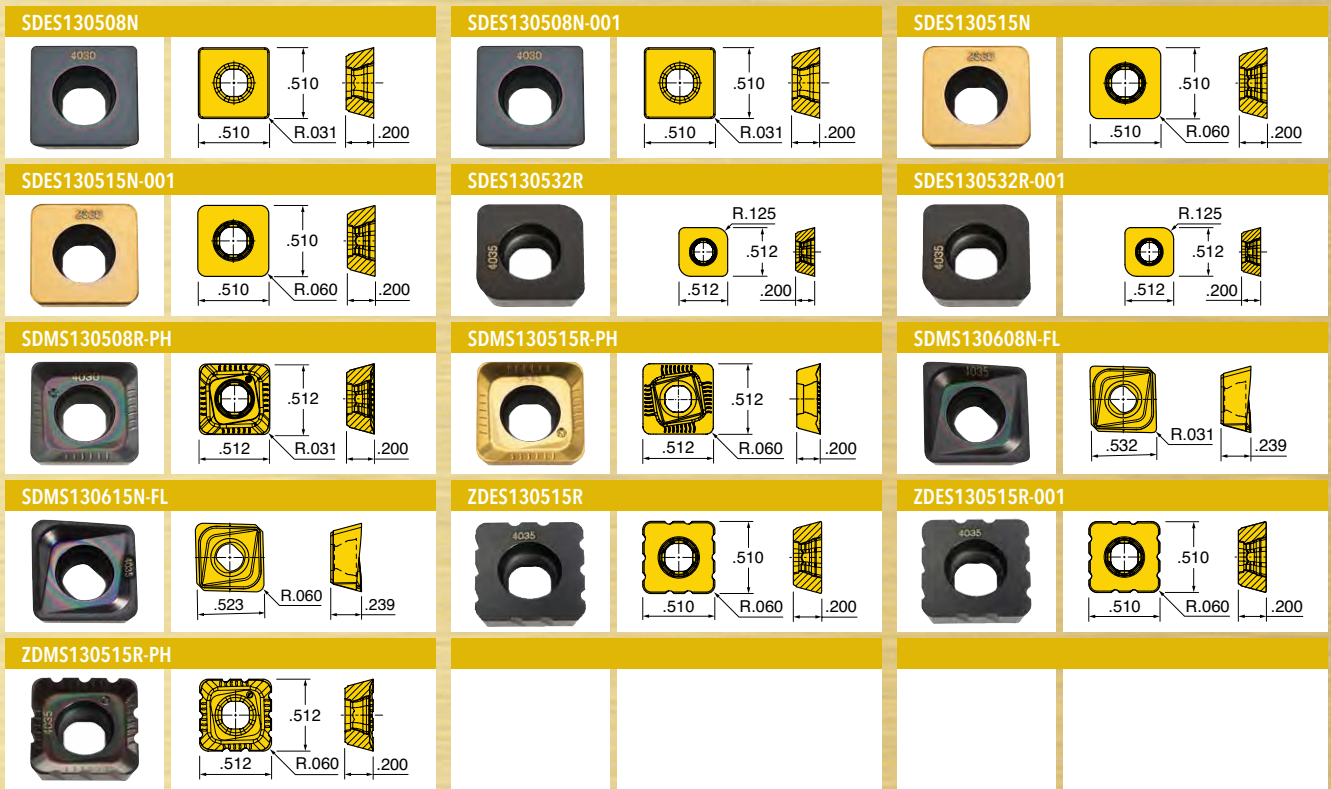
GOLD^QQUAD SERIES 25J3P (13MM INSERT)

90° HIGH SHEAR EXTENDED FLUTE MILL (SHELL MILL STYLE)



Cutter Number	D1 Nom. Dia.	L1 Length of Cut	H Height	D2 Bore Dia.	Keyway Width	No. of Flutes Effective	No. of Flutes Total	Total Inserts
25J3P-20023D1R01	2.000	1.53	2.35	0.750	0.312	3	3	12
25J3P-20023D1R02	2.000	1.53	2.35	0.750	0.312	4	4	16
25J3P-20030D1R01	2.000	1.90	3.00	0.750	0.312	3	3	15
25J3P-20030D1R02	2.000	1.90	3.00	0.750	0.312	4	4	20
25J3P-20035D1R01	2.000	2.60	3.50	0.750	0.312	3	3	21
25J3P-20035D1R02	2.000	2.60	3.50	0.750	0.312	4	4	28
25J3P-25040D3R01	2.500	3.00	4.00	1.000	0.375	4	4	32
25J3P-30037D4R01	3.000	3.00	3.75	1.250	0.500	5	5	40
25J3P-30050D4R10	3.000	4.08	5.00	1.250	0.500	5	5	55
25J3P-40050D5R01	4.000	4.08	5.00	1.500	0.625	5	5	55

2.00 diameter x 4 flute cutters must use ZDES/ZDMS (chip splitters) if radial width of cut is over .50".
Nose insert is tipped on a slight angle and may fall outside true form up to .010", depending on insert corner radius.



Part Number	Application	Station	Grades						
				IN2505	IN2530	IN4005	IN4015	IN4030	IN4035
SDES130508N	Flat Top - Landed Edge - 0.031" R	End & Side				●	●	●	
SDES130508N-001	Flat Top - Keen Edge - 0.031" R	End & Side						●	●
SDMS130508R-PH	Positive Geometry - 0.031" R	End & Side							●
SDMS130608N-FL	Positive Geometry - 0.031" R	End: True 90						●	●
SDES130515N	Flat Top - Landed Edge - 0.060" R	End & Side	●	●	●	●	●	●	
SDES130515N-001	Flat Top - Keen Edge - 0.060" R	End & Side	●	●			●	●	●
SDMS130515R-PH	Positive Geometry - 0.060" R	End & Side	●	●	●		●	●	●
SDMS130615N-FL	Positive Geometry - 0.060" R	End: True 90					●	●	●
SDES130532R	Flat Top - Landed Edge - 0.125" R	End			●		●	●	
SDES130532R-001	Flat Top - Keen Edge - 0.125" R	End					●	●	●
ZDES130515R	Flat Top - Splitters - Landed Edge - 0.060" R	End & Side			●	●	●	●	
ZDES130515R-001	Flat Top - Splitters - Keen Edge - 0.060" R	End & Side							●
ZDMS130515R-PH	Positive - Splitters - 0.060" R	End & Side							●

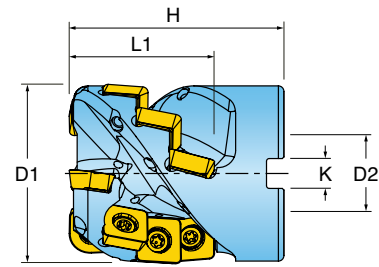
Part Number	Hardware						
	Screw	Retention Bolt	Driver Handle	Screw Driver Blade	Driver Bit (Optional)	Torque Driver Handle (Optional)	
25J3P-20023D1R01	SM40-100-R0	SD-06-50	DS-A00T	DS-T156B	DS-T15B1	DT-35-02	
25J3P-20023D1R02	SM40-100-R0	SD-06-50	DS-A00T	DS-T156B	DS-T15B1	DT-35-02	
25J3P-20030D1R01	SM40-100-R0	SD-06-79	DS-A00T	DS-T156B	DS-T15B1	DT-35-02	
25J3P-20030D1R02	SM40-100-R0	SD-06-79	DS-A00T	DS-T156B	DS-T15B1	DT-35-02	
25J3P-20035D1R01	SM40-100-R0	SD-06-B2	DS-A00T	DS-T156B	DS-T15B1	DT-35-02	
25J3P-20035D1R02	SM40-100-R0	SD-06-B2	DS-A00T	DS-T156B	DS-T15B1	DT-35-02	
25J3P-25040D3R01	SM40-100-R0	SD-08-D3	DS-A00T	DS-T156B	DS-T15B1	DT-35-02	
25J3P-30037D4R01	SM40-100-R0	SD-10-54	DS-A00T	DS-T156B	DS-T15B1	DT-35-02	
25J3P-30050D4R10	SM40-100-R0	SD-10-04	DS-A00T	DS-T156B	DS-T15B1	DT-35-02	
25J3P-40050D5R01	SM40-100-R0	SD-12-79	DS-A00T	DS-T156B	DS-T15B1	DT-35-02	

● = P ● = M ● = K ● = N ● = S ○ = H



GOLD[®]QUAD SERIES 25J3P-R (13MM INSERT)

90° HIGH SHEAR EXTENDED FLUTE MILL, FOR LARGE CORNER RADIUS (SHELL MILL STYLE)



Cutter Number	D1 Nom. Dia.	L1 Length of Cut	H Height	D2 Bore Dia.	Keyway Width	No. of Flutes Effective	No. of Flutes Total	Total Inserts
25J3P-20023D1R01-R	2.000	1.53	2.35	0.750	0.312	3	3	12
25J3P-20023D1R02-R	2.000	1.53	2.35	0.750	0.312	4	4	16
25J3P-20030D1R01-R	2.000	1.90	3.00	0.750	0.312	3	3	15
25J3P-20030D1R02-R	2.000	1.90	3.00	0.750	0.312	4	4	20
25J3P-20035D1R01-R	2.000	2.60	3.50	0.750	0.312	3	3	21
25J3P-20035D1R02-R	2.000	2.60	3.50	0.750	0.312	4	4	28
25J3P-25040D3R01-R	2.500	3.00	4.00	1.000	0.375	4	4	32
25J3P-30037D4R01-R	3.000	3.00	3.75	1.250	0.500	5	5	40
25J3P-30050D4R10-R	3.000	4.08	5.00	1.250	0.500	5	5	55
25J3P-40050D5R01-R	4.000	4.08	5.00	1.500	0.625	5	5	55



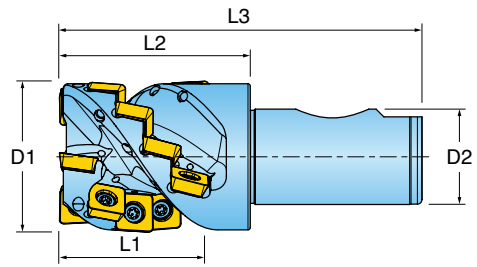
Part Number	Application	Station	Grades	IN2505	IN2530	IN4005	IN4015	IN4030	IN4035
SDES130515N	Flat Top - Landed Edge - 0.060" R	Side		●	●	●	●	●	
SDES130515N-001	Flat Top - Keen Edge - 0.060" R	Side		●	●			●	●
SDES130563R	Flat Top - Landed Edge - 0.250" R	End				●		●	
SDES130563R-001	Flat Top - Keen Edge - 0.250" R	End						●	●
SDMS130508R-PH	Positive Geometry - 0.031" R	Side							●
SDMS130515R-PH	Positive Geometry - 0.060" R	Side		●	●	●		●	●
ZDES130515R	Flat Top - Splitters - Landed Edge - 0.060" R	Side				●	●	●	
ZDES130515R-001	Flat Top - Splitters - Keen Edge - 0.060" R	Side							●
ZDMS130515R-PH	Positive - Splitters - 0.060" R	Side							●

Hardware						
	Screw	Retention Bolt	Driver Handle	Screw Driver Blade	Driver Bit (Optional)	Torque Driver Handle (Optional)
25J3P-20023D1R01-R	SM40-100-R0	SD-06-50	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
25J3P-20023D1R02-R	SM40-100-R0	SD-06-50	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
25J3P-20030D1R01-R	SM40-100-R0	SD-06-79	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
25J3P-20030D1R02-R	SM40-100-R0	SD-06-79	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
25J3P-20035D1R01-R	SM40-100-R0	SD-06-B2	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
25J3P-20035D1R02-R	SM40-100-R0	SD-06-B2	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
25J3P-25040D3R01-R	SM40-100-R0	SD-08-D3	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
25J3P-30037D4R01-R	SM40-100-R0	SD-10-54	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
25J3P-30050D4R10-R	SM40-100-R0	SD-10-04	DS-A00T	DS-T156B	DS-T15B1	DT-35-02
25J3P-40050D5R01-R	SM40-100-R0	SD-12-79	DS-A00T	DS-T156B	DS-T15B1	DT-35-02

● = P ● = M ● = K ● = N ● = S ○ = H

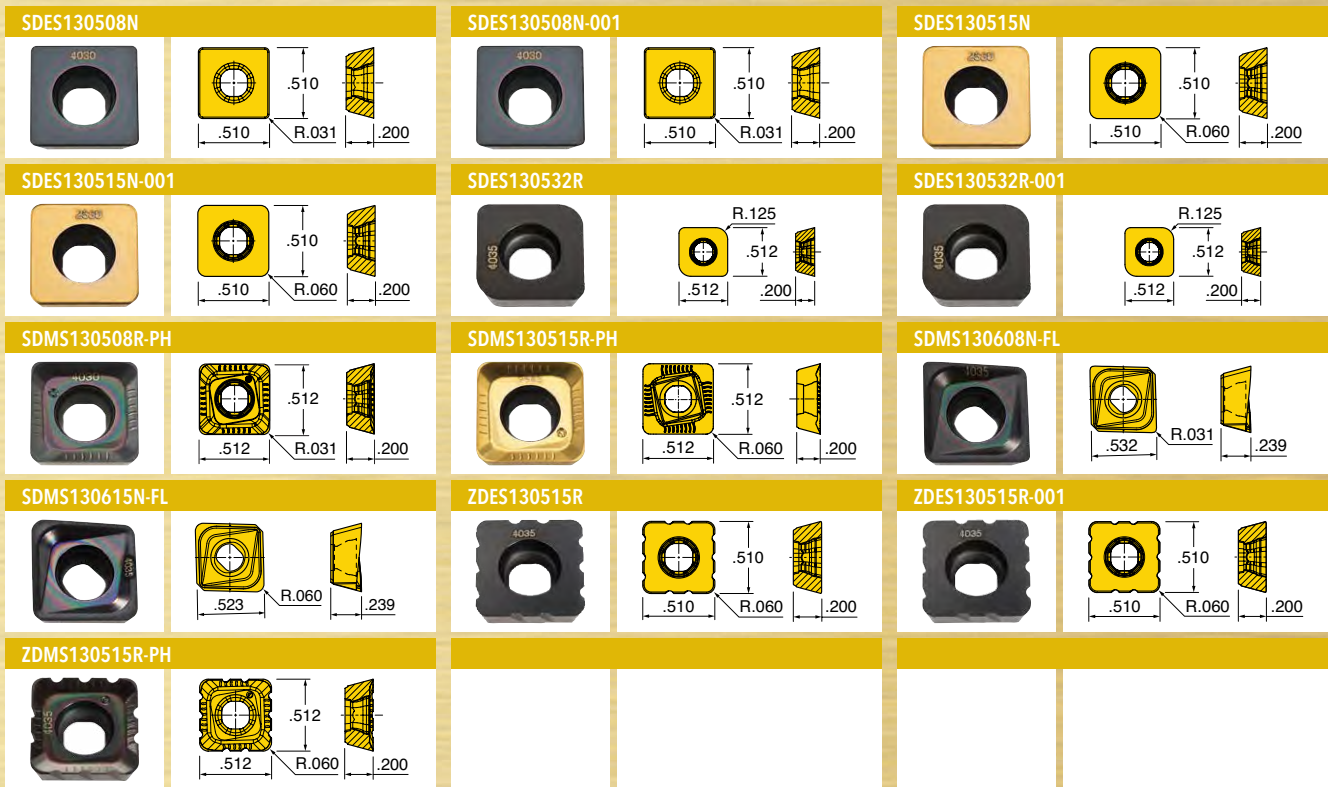
GOLD[®]QUAD SERIES 25J3P (13MM INSERT)

90° HIGH SHEAR EXTENDED FLUTE END MILL (STRAIGHT SHANK STYLE)



Cutter Number	D1 Nom. Dia.	L1 Length of Cut	L2 Extension Length	L3 Overall Length	D2 Shank Size/Style	Number of Effective Flutes	Number of Flutes Total	Number of Inserts
25J3P-2002581R01	2.000	1.90	2.50	4.75	1.000" Weldon w/Flange	3	3	15

Nose insert is tipped on a slight angle and may fall outside true form up to .010", depending on insert corner radius.



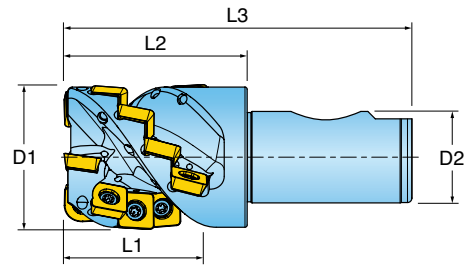
Part Number	Application	Station	Grades						
				IN2505	IN2530	IN4005	IN4015	IN4030	IN4035
SDES130508N	Flat Top - Landed Edge - 0.031" R	End & Side				●	●	●	
SDES130508N-001	Flat Top - Keen Edge - 0.031" R	End & Side						●	●
SDES130515N	Flat Top - Landed Edge - 0.060" R	End & Side	●	●	●	●	●	●	
SDES130515N-001	Flat Top - Keen Edge - 0.060" R	End & Side	●	●			●	●	
SDES130532R	Flat Top - Landed Edge - 0.125" R	End			●		●		
SDES130532R-001	Flat Top - Keen Edge - 0.125" R	End					●	●	
SDMS130508R-PH	Positive Geometry - 0.031" R	End & Side							●
SDMS130515R-PH	Positive Geometry - 0.060" R	End & Side	●	●	●		●	●	●
SDMS130608N-FL	Positive Geometry - 0.031" R	End: True 90						●	●
SDMS130615N-FL	Positive Geometry - 0.060" R	End: True 90						●	●
ZDES130515R	Flat Top - Splitters - Landed Edge - 0.060" R	End & Side			●	●	●		
ZDES130515R-001	Flat Top - Splitters - Keen Edge - 0.060" R	End & Side							●
ZDMS130515R-PH	Positive - Splitters - 0.060" R	End & Side							●

HARDWARE					
	Screw	Driver Handle	Screw Driver Blade	Driver Bit (Optional)	Torque Driver Handle (Optional)
	SM40-100-RO	DS-A00T	DS-T156B	DS-T15B1	DT-35-02

● = P ○ = M ● = K ● = N ● = S ○ = H

GOLD^QQUAD SERIES 25J3P-R (13MM INSERT)

90° HIGH SHEAR EXTENDED FLUTE END MILL FOR LARGE CORNER RADIUS (STRAIGHT SHANK STYLE)



Cutter Number	D1 Nom. Dia.	L1 Length of Cut	L2 Extension Length	L3 Overall Length	D2 Shank Size/Style	Number of Effective Flutes	Number of Flutes Total	Number of Inserts
25J3P-2002581R01-R	2.000	1.90	2.50	4.75	1.000" Weldon w/Flange	3	3	15

Nose insert is tipped on a slight angle and may fall outside true form up to .010", depending on insert corner radius.



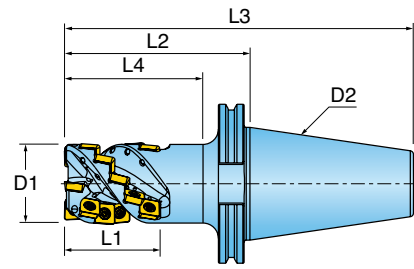
Part Number	Application	Station	Grades						
				IN2505	IN2530	IN4005	IN4015	IN4030	IN4035
SDES130515N	Flat Top - Landed Edge - 0.060" R	Side		●	●	●	●	●	●
SDES130515N-001	Flat Top - Keen Edge - 0.060" R	Side		●	●			●	●
SDES130563R	Flat Top - Landed Edge - 0.250" R	End				●		●	
SDES130563R-001	Flat Top - Keen Edge - 0.250" R	End						●	●
SDMS130508R-PH	Positive Geometry - 0.031" R	Side							●
SDMS130515R-PH	Positive Geometry - 0.060" R	Side		●	●	●		●	●
ZDES130515R	Flat Top - Splitters - Landed Edge - 0.060" R	Side				●	●	●	
ZDES130515R-001	Flat Top - Splitters - Keen Edge - 0.060" R	Side							●
ZDMS130515R-PH	Positive - Splitters - 0.060" R	Side							●

Hardware	Image				
	Screw	Driver Handle	Screw Driver Blade	Driver Bit (Optional)	Torque Driver Handle (Optional)
	SM40-100-R0	DS-A00T	DS-T156B	DS-T15B1	DT-35-02

● = P ● = M ● = K ● = N ● = S ○ = H

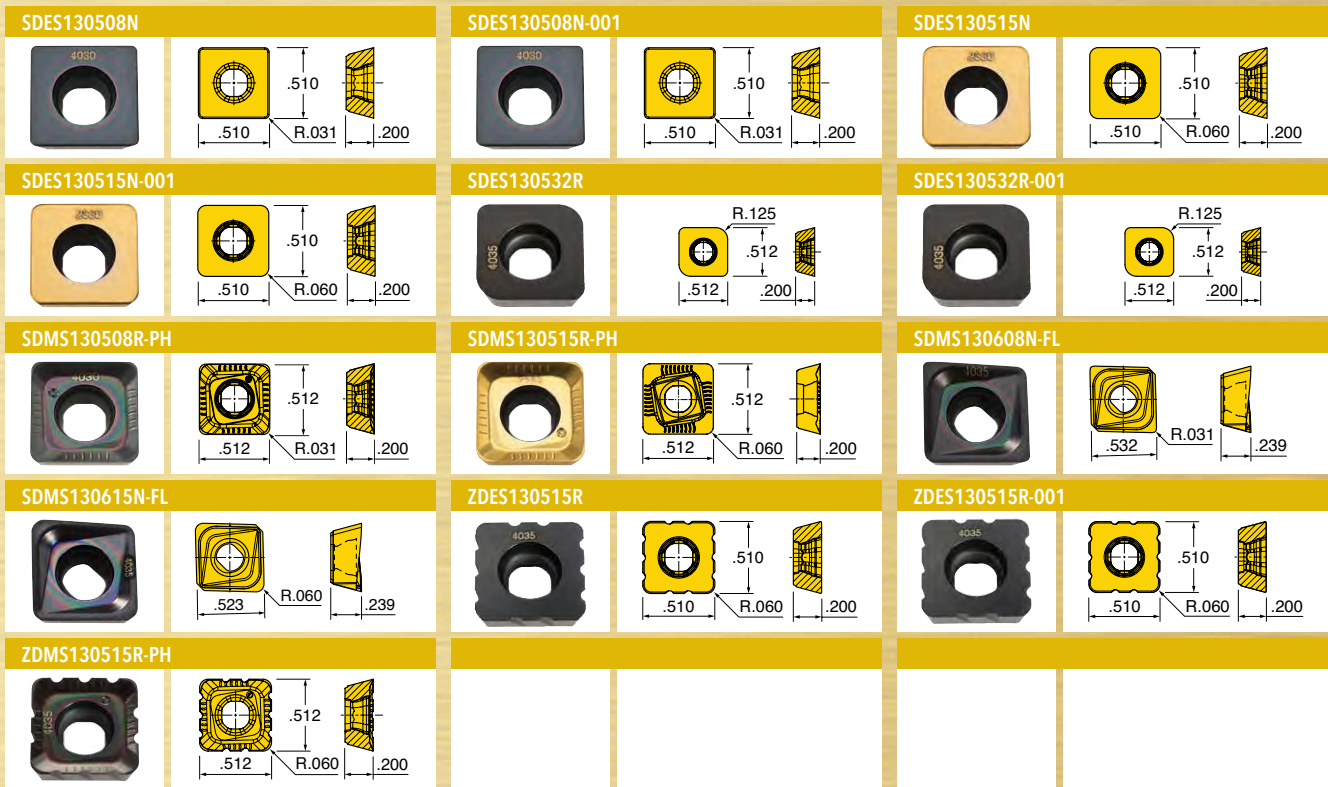
GOLD[®]QUAD SERIES 25J3P (13MM INSERT)

90° HIGH SHEAR EXTENDED FLUTE END MILL (TAPERED SHANK STYLE)



Cutter Number	D1 Effective Dia.	L1 Length of Cut	L2 Extension Length	L3 Overall Length	L4 Projection Length	D2 Adaption Style	Number of Effective Flutes	Number of Total Flutes	Number of Inserts
25J3P-2004548R01	2.000	2.62	4.50	8.50	3.12	ICT #50 V-Flange	3	3	21
25J3P-2004548R02	2.000	2.62	4.50	8.50	3.37	ICT #50 V-Flange	4	4	28
25J3P-2006248R01	2.000	4.08	6.25	10.25	5.12	ICT #50 V-Flange	3	3	33

2.00 diameter x 4 flute cutters must use ZDES/ZDMS (chip splitters) if radial width of cut is over .50".
Nose insert is tipped on a slight angle and may fall outside true form up to .010", depending on insert corner radius.



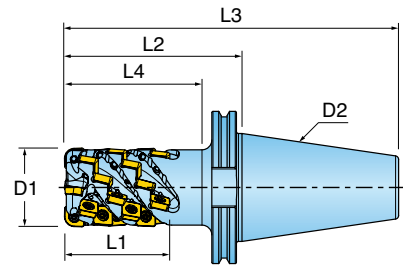
Part Number	Application	Station	Grades						
				IN2505	IN2530	IN4005	IN4015	IN4030	IN4035
SDES130508N	Flat Top - Landed Edge - 0.031" R	End & Side				●	●	●	
SDES130508N-001	Flat Top - Keen Edge - 0.031" R	End & Side						●	●
SDES130515N	Flat Top - Landed Edge - 0.060" R	End & Side	●	●	●	●	●	●	
SDES130515N-001	Flat Top - Keen Edge - 0.060" R	End & Side	●	●			●	●	
SDES130532R	Flat Top - Landed Edge - 0.125" R	End			●		●		
SDES130532R-001	Flat Top - Keen Edge - 0.125" R	End					●	●	
SDMS130508R-PH	Positive Geometry - 0.031" R	End & Side							●
SDMS130515R-PH	Positive Geometry - 0.060" R	End & Side	●	●	●		●	●	●
SDMS130608N-FL	Positive Geometry - 0.031" R	End: True 90						●	●
SDMS130615N-FL	Positive Geometry - 0.060" R	End: True 90						●	●
ZDES130515R	Flat Top - Splitters - Landed Edge - 0.060" R	End & Side			●	●	●		
ZDES130515R-001	Flat Top - Splitters - Keen Edge - 0.060" R	End & Side							●
ZDMS130515R-PH	Positive - Splitters - 0.060" R	End & Side							●

HARDWARE					
	SM40-100-RO	DS-A00T	DS-T156B	DS-T15B1	DT-35-02

● = P ○ = M ● = K ● = N ● = S ○ = H

GOLD[®]QUAD SERIES 25J3P-R (13MM INSERT)

90° HIGH SHEAR EXTENDED FLUTE END MILL FOR LARGE CORNER RADIUS (TAPERED SHANK STYLE)



Cutter Number	D1 Effective Dia.	L1 Length of Cut	L2 Extension Length	L3 Overall Length	L4 Projection Length	D2 Adaption Style	Number of Effective Flutes	Number of Total Flutes	Number of Inserts
25J3P-2004548R01-R	2.000	2.62	4.50	8.50	3.12	ICT #50 V-Flange	3	3	21
25J3P-2004548R02-R	2.000	2.62	4.50	8.50	3.12	ICT #50 V-Flange	4	4	28
25J3P-2006248R01-R	2.000	4.08	6.25	10.25	5.12	ICT #50 V-Flange	3	3	33

2.00 diameter x 4 flute cutters must use ZDES/ZDMS (chip splitters) if radial width of cut is over .50"



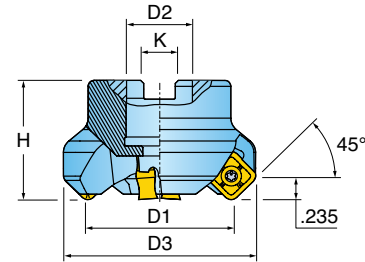
Part Number	Application	Station	Grades	IN2505	IN2530	IN4005	IN4015	IN4030	IN4035
SDES130515N	Flat Top - Landed Edge - 0.060" R	Side		●	●	●	●	●	
SDES130515N-001	Flat Top - Keen Edge - 0.060" R	Side		●	●			●	●
SDES130563R	Flat Top - Landed Edge - 0.250" R	End				●		●	
SDES130563R-001	Flat Top - Keen Edge - 0.250" R	End						●	●
SDMS130508R-PH	Positive Geometry - 0.031" R	Side							●
SDMS130515R-PH	Positive Geometry - 0.060" R	Side		●	●	●		●	●
ZDES130515R	Flat Top - Splitters - Landed Edge - 0.060" R	Side				●	●	●	
ZDES130515R-001	Flat Top - Splitters - Keen Edge - 0.060" R	Side							●
ZDMS130515R-PH	Positive - Splitters - 0.060" R	Side							●

HARDWARE					
	Screw	Driver Handle	Screw Driver Blade	Driver Bit (Optional)	Torque Driver Handle (Optional)
	SM40-100-R0	DS-A00T	DS-T156B	DS-T15B1	DT-35-02

● = P ● = M ● = K ● = N ● = S ○ = H

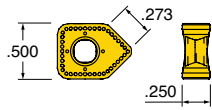
ISOPLUS SERIES DN6H DN5H (12 MM INSERT)

45° FACE MILL WITH 8 INDEXES

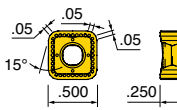


Cutter Number	D1 Nominal Diameter	D3 Overall Diameter	D2 Bore Dia.	K Keyway	H Height	Number of Inserts	Coolant
DN5H-20R01	2.000	2.57	0.750	0.312	1.750	6	Yes
DN6H-20R01	2.000	2.57	0.750	0.312	1.750	4	Yes
DN6H-25R01	2.500	3.07	1.000	0.375	1.750	6	Yes
DN5H-30R01	3.000	3.57	1.000	0.375	1.750	10	Yes
DN6H-30R01	3.000	3.57	1.000	0.375	1.750	7	Yes
DN5H-40R01	4.000	4.57	1.500	0.625	2.375	12	Yes
DN6H-40R01	4.000	4.57	1.500	0.625	2.375	8	Yes
DN6H-50R01	5.000	5.57	1.500	0.625	2.375	9	Yes
DN5H-60R01	6.000	6.57	1.500	0.625	2.000	20	No
DN6H-60R01	6.000	6.57	1.500	0.625	2.000	12	No

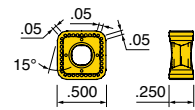
SNGS1205ANN-W



SNGU1205EFN-P



SNGU1205ENN



Part Number	Application	Grades									
			IN10K	IN2035	IN2505	IN2510	IN2530	IN2540	IN4015	IN4030	
SNGS1205ANN-W	Wiper - Wiper				●	●					
SNGU1205EFN-P	Grd/Pol for Aluminum	●									
SNGU1205ENN	Multi-Purpose		●	●	●	●	●	●	●	●	●

HARDWARE

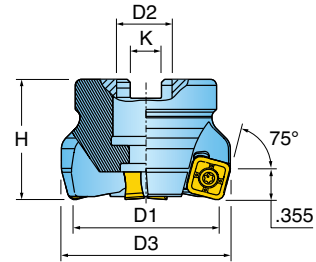


	Screw	Retention Bolt	Coolant Bolt (Optional)	Driver Handle	Screw Driver Blade
DN5H-20R01	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B
DN6H-20R01	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B
DN6H-25R01	SM40-100-R0	SD-08-46	SD-08-92	DS-A00T	DS-T156B
DN5H-30R01	SM40-100-R0	SD-08-46	SD-08-92	DS-A00T	DS-T156B
DN6H-30R01	SM40-100-R0	SD-08-46	SD-08-92	DS-A00T	DS-T156B
DN5H-40R01	SM40-100-R0	SD-12-82	SD-12-99	DS-A00T	DS-T156B
DN6H-40R01	SM40-100-R0	SD-12-82	SD-12-99	DS-A00T	DS-T156B
DN6H-50R01	SM40-100-R0	SD-12-82	SD-12-99	DS-A00T	DS-T156B
DN5H-60R01	SM40-100-R0	-	-	DS-A00T	DS-T156B
DN6H-60R01	SM40-100-R0	-	-	DS-A00T	DS-T156B

● = P ○ = M ● = K ● = N ● = S ○ = H

ISOPLUS SERIES DL6H DL5H (12 MM INSERT)

75° FACE MILL WITH 8 INDEXES



Cutter Number	D1 Nominal Diameter	D3 Overall Diameter	D2 Bore Dia.	K Keyway	H Height	Number of Inserts	Coolant
DL5H-20R01	2.000	2.30	0.750	0.310	1.750	6	Yes
DL6H-20R01	2.000	2.30	0.750	0.310	1.750	4	Yes
DL6H-25R01	2.500	2.80	1.000	0.370	1.750	6	Yes
DL6H-30R01	3.000	3.30	1.000	0.370	1.750	7	No
DL6H-40R01	4.000	4.30	1.500	0.620	2.000	8	No
DL6H-50R01	5.000	5.30	1.500	0.620	2.000	10	No
DL5H-60R01	6.000	6.30	1.500	0.620	2.000	20	No
DL6H-60R01	6.000	6.30	1.500	0.620	2.000	12	No

Part Number	Application	Grades								
			IN10K	IN2035	IN2505	IN2510	IN2530	IN2540	IN4015	IN4030
SNGU1205EFN-P	Grd/Pol for Aluminum	●								
SNGU1205ENN	Multi-Purpose		●	●	●	●	●	●	●	●

Cutter Number	HARDWARE					
	Screw	Retention Bolt	Coolant Bolt (Optional)	Driver Handle	Screw Driver Blade	
DL5H-20R01	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B	
DL6H-20R01	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B	
DL6H-25R01	SM40-100-R0	SD-08-46	SD-08-92	DS-A00T	DS-T156B	
DL6H-30R01	SM40-100-R0	-	-	DS-A00T	DS-T156B	
DL6H-40R01	SM40-100-R0	-	-	DS-A00T	DS-T156B	
DL6H-50R01	SM40-100-R0	-	-	DS-A00T	DS-T156B	
DL5H-60R01	SM40-100-R0	-	-	DS-A00T	DS-T156B	
DL6H-60R01	SM40-100-R0	-	-	DS-A00T	DS-T156B	

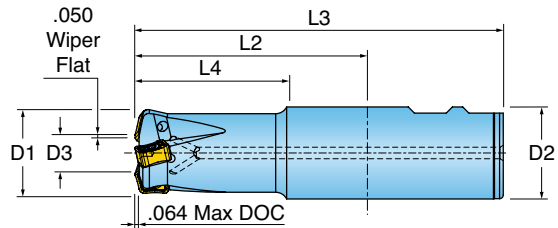
● = P ● = M ● = K ● = N ● = S ○ = H

Features & Benefits:

- Value with 8 strong cutting edges (4 + 4).
- Near net shape flexibility with .065" axial depth of cut capability.
- Chip evacuation via coolant through the tool capability.
- Deck surface finish capability with .050" integrated wiper flat.
- Clearance angles for corkscrew and ramping applications.
- Utilizes the same insert used on our 45° lead (series DN6H) and 15° lead (series DL6H) cutters.

ISOPLUS SERIES 1DD1H (12 MM INSERT)

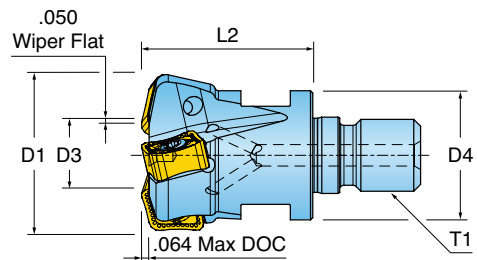
HIGH FEED END MILL WITH 8 INDEXES



Cutter Number	D1 Nom. Dia.	D3 Min. Dia.	D2 Adaption	L4 Projection Length	L2 Extension Length	L3 Overall Length	Number of Inserts	Ramp Angle
1DD1H-1502586R01	1.500	0.773	1.500" Weldon	2.50	3.75	6.00	3	0

ISOPLUS SERIES 1DD1H (12 MM INSERT)

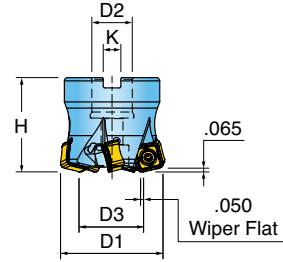
HIGH FEED MODULAR END MILL WITH 8 INDEXES (TOPON STYLE)



Cutter Number	D1 Eff. Dia.	D3 Minor Dia.	T1 Adaption	D4 Neck Diameter	L2 Exten. Length	Number of Inserts	Ramp Angle	Wrench Size
1DD1H-15015X8R01	1.500	0.773	M16	1.13	1.50	3	0	22mm

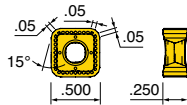
ISOPLUS SERIES DD6H (12 MM INSERT)

HIGH FEED FACE MILL WITH 8 INDEXES



Cutter Number	D1 Effective Diameter	D3 Inner Diameter	D2 Bore Dia.	H Height	Number Effective Inserts	K Keyway	Ramp Angle
DD6H-20R01	2.000	1.250	0.750	1.650	5	0.312	1.14
DD6H-25R01	2.500	1.750	0.750	1.650	6	0.312	.86
DD6H-30R01	3.000	2.250	1.000	1.750	7	0.375	.66
DD6H-40R01	4.000	3.250	1.500	2.375	9	0.625	.45
DD6H-50R01	5.000	4.250	1.500	2.375	11	0.625	.34
DD6H-60R01	6.000	5.250	1.500	2.375	13	0.625	.27

SNGU1205ENN



Part Number	Application	Grades	IN2035	IN2505	IN2510	IN2530	IN2540	IN4015	IN4030
			SNGU1205ENN	Multi-Purpose					

HARDWARE



Screw

Retention Bolt

Coolant Bolt (Optional)

Driver Handle

Screw Driver Blade

Wrench (Optional)

1DD1H-1502586R01	SM40-100-R0	-	-	DS-A00T	DS-T156B	-
1DD1H-15015X8R01	SM40-100-R0	-	-	DS-A00T	DS-T156B	622MM
DD6H-20R01	SM40-100-R0	SD-06-47	SD-06-A6	DS-A00T	DS-T156B	-
DD6H-25R01	SM40-100-R0	SD-06-47	SD-06-A6	DS-A00T	DS-T156B	-
DD6H-30R01	SM40-100-R0	SD-08-46	SD-08-92	DS-A00T	DS-T156B	-
DD6H-40R01	SM40-100-R0	SD-12-82	SD-12-99	DS-A00T	DS-T156B	-
DD6H-50R01	SM40-100-R0	SD-12-82	SD-12-99	DS-A00T	DS-T156B	-
DD6H-60R01	SM40-100-R0	-	-	DS-A00T	DS-T156B	-

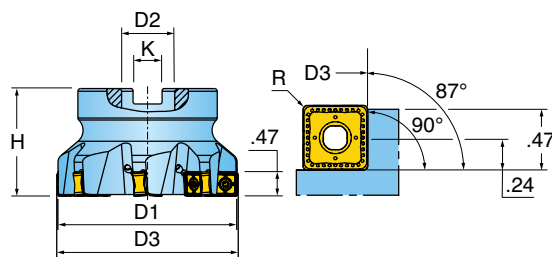
● = P ● = M ● = K ● = N ● = S ○ = H

Features & Benefits:

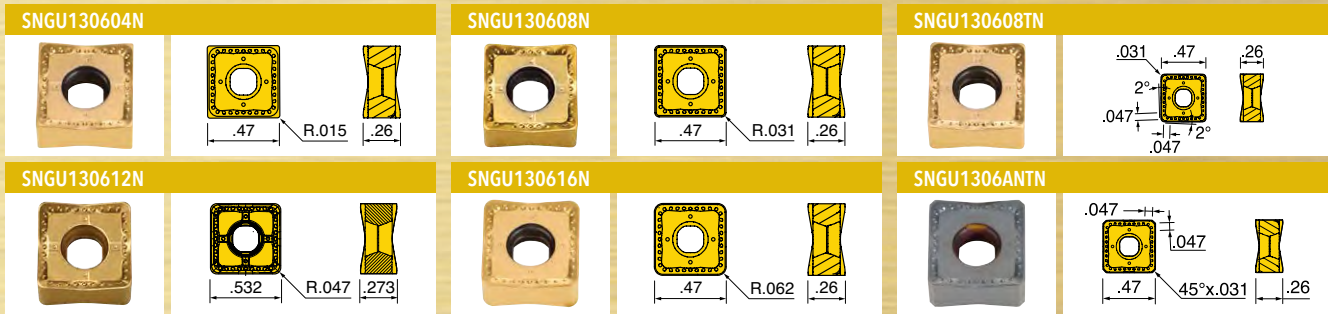
- 90° face mill for roughing and finishing
- 85° face mill for roughing with less face contact
- 8 positive cutting edges
- .50" max depth of cut, .24" depth of cut along shoulder
- Medium and high density cutter offerings
- 2.00 - 8.00" diameter range

ISOPLUS SERIES DJ6T, DJ5T (13 MM INSERT)

90° ROUGH & FINISH FACE MILL WITH 8 INDEXES



Cutter Number	D1 Nominal Diameter	D3 Overall Dia.	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Bolt Circle	Coolant
DJ6T-20R01	2.000	2.025	5	1.570	0.750	0.312	NA	Yes
DJ6T-25R01	2.500	2.523	6	1.570	0.750	0.312	NA	Yes
DJ5T-30R01	3.000	3.021	8	1.750	1.000	0.375	NA	Yes
DJ6T-30R01	3.000	3.021	7	1.750	1.000	0.375	NA	Yes
DJ5T-40R01	4.000	4.020	10	2.375	1.500	0.625	NA	Yes
DJ6T-40R01	4.000	4.020	8	2.375	1.500	0.625	NA	Yes
DJ6T-50R01	5.000	5.018	10	2.375	1.500	0.625	NA	Yes
DJ5T-60R01	6.000	6.016	17	2.375	1.500	0.625	NA	No
DJ6T-60R01	6.000	6.018	12	2.375	1.500	0.625	NA	No
DJ5T-80R01	8.000	8.016	21	2.375	2.500	1.000	4.00	No
DJ6T-80R01	8.000	8.016	14	2.375	2.500	1.000	4.00	No



Part Number	Application	Grades	IN2505	IN2510	IN2530	IN2540	IN4015	IN4030	IN71N
SNGU130604N	Positive Geometry - 0.015" R		●	●	●				●
SNGU130608N	Positive Geometry - 0.031" R		●	●					●
SNGU130608TN	Positive Geometry - 0.031" R w/.047" Wiper		●	●	●	●	●	●	
SNGU130612N	Positive Geometry - 0.047" R		●	●					
SNGU130616N	Positive Geometry - 0.062" R		●		●	●	●		●
SNGU1306ANTN	Positive Geometry - 0.031" Chamfer 45 deg. Wiper		●	●		●	●		

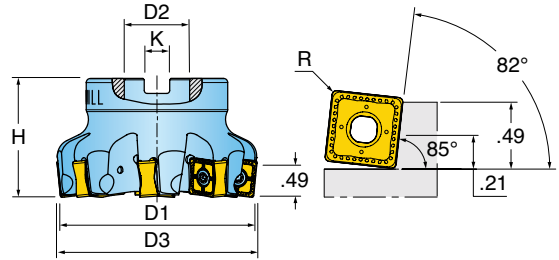
Hardware					
	Screw	Retention Bolt	Coolant Bolt (Optional)	Driver Handle	Screw Driver Blade
DJ6T-20R01	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B
DJ6T-25R01	SM40-100-R0	SD-06-46	SD-06-89	DS-A00T	DS-T156B
DJ5T-30R01	SM40-100-R0	SD-08-46	SD-08-92	DS-A00T	DS-T156B
DJ6T-30R01	SM40-100-R0	SD-08-46	SD-08-92	DS-A00T	DS-T156B
DJ5T-40R01	SM40-100-R0	SD-12-82	SD-12-99	DS-A00T	DS-T156B
DJ6T-40R01	SM40-100-R0	SD-12-82	SD-12-99	DS-A00T	DS-T156B
DJ6T-50R01	SM40-100-R0	SD-12-82	SD-12-99	DS-A00T	DS-T156B
DJ5T-60R01	SM40-100-R0	-	-	DS-A00T	DS-T156B
DJ6T-60R01	SM40-100-R0	-	-	DS-A00T	DS-T156B
DJ5T-80R01	SM40-100-R0	-	-	DS-A00T	DS-T156B
DJ6T-80R01	SM40-100-R0	-	-	DS-A00T	DS-T156B

Insert screw torque for carbide: 30-35 in lbs. Use Torque wrench DT-35-02 with DS-T15B1 bit.
 Insert screw torque for SiNi: 28 in lbs. Use Torque wrench DT-28-01 with DS-T15B1 bit.

● = P ● = M ● = K ● = N ● = S ○ = H

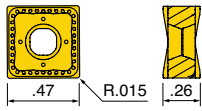
ISOPLUS SERIES DL6T, DL5T (13MM INSERT)

85° ROUGHING FACE MILL WITH 8 INDEXES

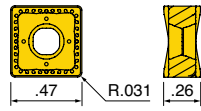


Cutter Number	D1 Nominal Diameter	D3 Overall Diameter	Number of Inserts	D2 Bore Dia.	H Height	K Keyway
DL6T-20R01	2.000	2.11	5	0.750	1.570	0.312
DL6T-25R01	2.500	2.61	6	0.750	1.570	0.312
DL5T-30R01	3.000	3.11	8	1.000	1.750	0.375
DL5T-40R01	4.000	4.11	10	1.500	2.375	0.625
DL5T-50R01	5.000	5.11	13	1.500	2.375	0.625
DL5T-60R01	6.000	6.11	17	1.500	2.375	0.625

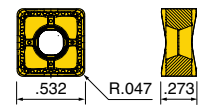
SNGU130604N



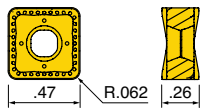
SNGU130608N



SNGU130612N



SNGU130616N



Part Number	Application	Grades						
			IN2505	IN2510	IN2530	IN2540	IN4015	IN71N
SNGU130604N	Positive Geometry - 0.015" R		●	●	●			●
SNGU130608N	Positive Geometry - 0.031" R		●	●				●
SNGU130612N	Positive Geometry - 0.047" R		●	●				●
SNGU130616N	Positive Geometry - 0.062" R		●		●	●	●	●

HARDWARE



Screw



Retention Bolt



Driver Handle



Screw Driver Blade

DL6T-20R01	SM40-100-R0	SD-06-46	DS-A00T	DS-T156B
DL6T-25R01	SM40-100-R0	SD-06-46	DS-A00T	DS-T156B
DL5T-30R01	SM40-100-R0	SD-08-46	DS-A00T	DS-T156B
DL5T-40R01	SM40-100-R0	SD-12-82	DS-A00T	DS-T156B
DL5T-50R01	SM40-100-R0	SD-12-82	DS-A00T	DS-T156B
DL5T-60R01	SM40-100-R0	-	DS-A00T	DS-T156B

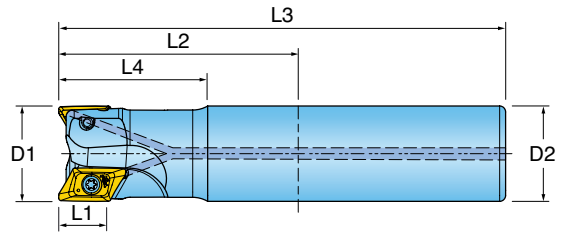
Insert screw torque for carbide: 30-35 in lbs. Use Torque wrench DT-35-02 with DS-T15B1 bit.

Insert screw torque for SiNi: 28 in lbs. Use Torque wrench DT-28-01 with DS-T15B1 bit.

● = P ○ = M ● = K ● = N ● = S ○ = H

HIPOS^oALU SERIES 1AX2K

90° HIGH-SPEED ROUTER END MILL (ALUMINUM)



Cutter Number	D1 Nominal Diameter	L1 Extension Length	L2 Overall Length	D2 Shank Size/Style	Number of Inserts	Ramp Angle
1AX2K-10022S1R01	1.000	2.20	6.00	1.000" Cylind.	2	22.0
1AX2K-10032S1R01	1.000	3.20	8.00	1.000" Cylind.	2	22.0
1AX2K-12022S9R01	1.250	2.20	6.00	1.250" Cylind.	3	16.5
1AX2K-12032S9R01	1.250	3.20	8.00	1.250" Cylind.	3	16.5
1AX2K-15032S9R01	1.500	3.20	10.00	1.250" Cylind.	3	11.5

Ramp angle measured using insert XEVT160508FR-P.

XEVT160504FR-P 	XEVT160508FR-P 	XEVT160516FR-P
XEVT160524FR-P 	XEVT160532FR-P 	XEVT160550FR-P

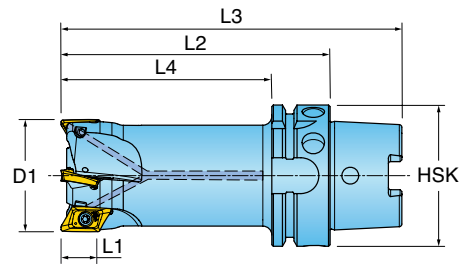
Part Number	Application	Grades	IN10K
XEVT160504FR-P	Ground/Polished for Aluminum - 0.015" R		●
XEVT160508FR-P	Ground/Polished for Aluminum - 0.031" R		●
XEVT160516FR-P	Ground/Polished for Aluminum - 0.062" R		●
XEVT160524FR-P	Ground/Polished for Aluminum - 0.093" R		●
XEVT160532FR-P	Ground/Polished for Aluminum - 0.125" R		●
XEVT160550FR-P	Ground/Polished for Aluminum - 0.197" R		●

Cutter Number	HARDWARE		
	Insert Screw	Screw Driver Blade	Driver Handle
1AX2K-10022S1R01	SM40-079-20	DS-T156B	DS-A00T
1AX2K-10032S1R01	SM40-079-20	DS-T156B	DS-A00T
1AX2K-12022S9R01	SM40-093-20	DS-T156B	DS-A00T
1AX2K-12032S9R01	SM40-093-20	DS-T156B	DS-A00T
1AX2K-15032S9R01	SM40-093-20	DS-T156B	DS-A00T

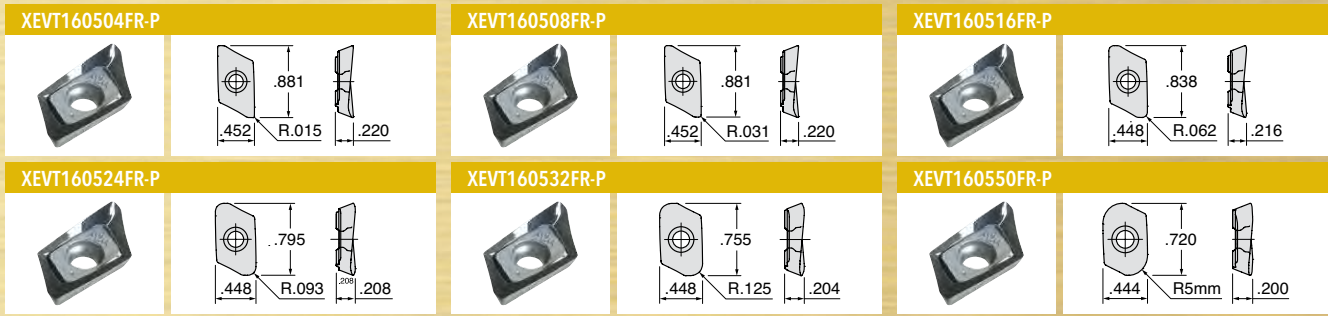
● = P ● = M ● = K ● = N ● = S ○ = H

HIPOS[®]ALU SERIES 1AX2K (HSK ADAPTION)




90° HIGH-SPEED ROUTER END MILL (ALUMINUM)



Cutter Number	D1 Nom. Dia.	L1 Extension Length	L2 Projection Length	L3 Overall Length	D2 Shank Size/Style	Number of Inserts	Ramp Angle
1AX2K-10032H5R01	1.000	3.25	2.00	4.50	HSK-63-A	2	22.0
1AX2K-10032HQR01	1.000	3.25	2.00	4.50	HSK-80-F	2	22.0
1AX2K-10042H5R01	1.000	4.25	3.00	5.50	HSK-63-A	2	22.0
1AX2K-10042HQR01	1.000	4.25	3.00	5.50	HSK-80-F	2	22.0
1AX2K-12032H5R01	1.250	3.25	2.00	4.50	HSK-63-A	3	16.5
1AX2K-12042H5R01	1.250	4.25	3.00	5.50	HSK-63-A	2	16.5
1AX2K-15042H5R01	1.500	4.25	3.00	5.50	HSK-63-A	3	11.5
1AX2K-20042H5R01	2.000	4.25	3.00	5.50	HSK-63-A	4	9.5
1AX2K-20042HQR01	2.000	4.25	3.00	5.50	HSK-80-F	3	9.5
1AX2K-20052H5R01	2.000	5.25	4.00	6.50	HSK-63-A	3	9.5
1AX2K-20052HQR01	2.000	5.25	4.00	6.50	HSK-80-F	3	9.5



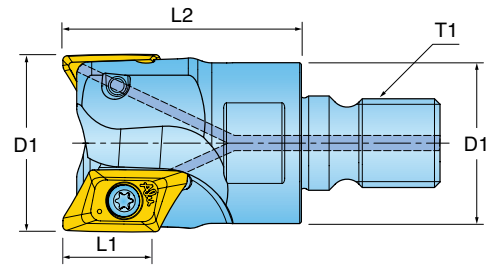
Part Number	Application	Grades	IN10K
XEVT160504FR-P	Ground/Polished for Aluminum - 0.015" R		●
XEVT160508FR-P	Ground/Polished for Aluminum - 0.031" R		●
XEVT160516FR-P	Ground/Polished for Aluminum - 0.062" R		●
XEVT160524FR-P	Ground/Polished for Aluminum - 0.093" R		●
XEVT160532FR-P	Ground/Polished for Aluminum - 0.125" R		●
XEVT160550FR-P	Ground/Polished for Aluminum - 0.197" R		●

HARDWARE			
	Insert Screw	Screw Driver Blade	Driver Handle
1AX2K-10032H5R01	SM40-079-20	DS-T156B	DS-A00T
1AX2K-10032HQR01	SM40-079-20	DS-T156B	DS-A00T
1AX2K-10042H5R01	SM40-079-20	DS-T156B	DS-A00T
1AX2K-10042HQR01	SM40-079-20	DS-T156B	DS-A00T
1AX2K-12032H5R01	SM40-093-20	DS-T156B	DS-A00T
1AX2K-12042H5R01	SM40-093-20	DS-T156B	DS-A00T
1AX2K-15042H5R01	SM40-093-20	DS-T156B	DS-A00T
1AX2K-20042H5R01	SM40-093-20	DS-T156B	DS-A00T
1AX2K-20042HQR01	SM40-093-20	DS-T156B	DS-A00T
1AX2K-20052H5R02	SM40-093-20	DS-T156B	DS-A00T
1AX2K-20052HQR01	SM40-093-20	DS-T156B	DS-A00T

● = P ● = M ● = K ● = N ● = S ○ = H

HIPOS^oALU SERIES 1AX2K (TOP-ON STYLE)

90° HIGH-SPEED ROUTER END MILL (ALUMINUM)



Cutter Number	D1 Nom. Dia.	T1 Adaption	L1 Extension Length	Number of Inserts	Wrench Size	Ramp Angle
1AX2K-10017X7R01	1.000	M12	1.75	2	17mm	22.0
1AX2K-12017X8R01	1.250	M16	1.75	2	22mm	16.5
1AX2K-12017X8R02	1.250	M16	1.75	3	22mm	16.5
1AX2K-15017X8R01	1.500	M16	1.75	2	22mm	11.5
1AX2K-15017X8R02	1.500	M16	1.75	3	22mm	11.5

Part Number	Application	Grades	IN10K
XEVT160504FR-P	Ground/Polished for Aluminum - 0.015" R	●	●
XEVT160508FR-P	Ground/Polished for Aluminum - 0.031" R	●	●
XEVT160516FR-P	Ground/Polished for Aluminum - 0.062" R	●	●
XEVT160524FR-P	Ground/Polished for Aluminum - 0.093" R	●	●
XEVT160532FR-P	Ground/Polished for Aluminum - 0.125" R	●	●
XEVT160550FR-P	Ground/Polished for Aluminum - 0.197" R	●	●

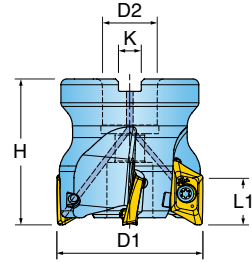
Part Number	Application	Grades	IN10K
XEVT160504FR-P	Ground/Polished for Aluminum - 0.015" R	●	●
XEVT160508FR-P	Ground/Polished for Aluminum - 0.031" R	●	●
XEVT160516FR-P	Ground/Polished for Aluminum - 0.062" R	●	●
XEVT160524FR-P	Ground/Polished for Aluminum - 0.093" R	●	●
XEVT160532FR-P	Ground/Polished for Aluminum - 0.125" R	●	●
XEVT160550FR-P	Ground/Polished for Aluminum - 0.197" R	●	●

Cutter Number	HARDWARE		
	Insert Screw	Screw Driver Blade	Driver Handle
1AX2K-10017X7R01	SM40-079-20	DS-T156B	DS-A00T
1AX2K-12017X8R01	SM40-093-20	DS-T156B	DS-A00T
1AX2K-12017X8R02	SM40-093-20	DS-T156B	DS-A00T
1AX2K-15017X8R01	SM40-093-20	DS-T156B	DS-A00T
1AX2K-15017X8R02	SM40-093-20	DS-T156B	DS-A00T

● = P ● = M ● = K ● = N ● = S ○ = H

FINE GOLD

90° HIGH SPEED ROUTER FACE MILL (ALUMINUM)L



Cutter Number	D1 Nominal Diameter	D2 Bore Size	K Keyway	H Height	#Flutes Effective	Ramp Angle
AX2K-20R01	2.000	0.750	0.312	2.000	2	9.5
AX2K-20R02	2.000	0.750	0.312	2.000	3	9.5
AX2K-25R01	2.500	1.000	0.375	2.000	3	7.0
AX2K-30R01	3.000	1.000	0.375	2.000	3	5.0
AX2K-30R02	3.000	1.000	0.375	2.000	5	5.0
AX2K-40R01	4.000	1.500	0.625	2.375	5	3.5
AX2K-60R01	6.000	1.500	0.625	2.375	7	1.5

Part Number	Application	Grades	IN10K
XEVT160504FR-P	Ground/Polished for Aluminum - 0.015" R		●
XEVT160508FR-P	Ground/Polished for Aluminum - 0.031" R		●
XEVT160516FR-P	Ground/Polished for Aluminum - 0.062" R		●
XEVT160524FR-P	Ground/Polished for Aluminum - 0.093" R		●
XEVT160532FR-P	Ground/Polished for Aluminum - 0.125" R		●
XEVT160550FR-P	Ground/Polished for Aluminum - 0.197" R		●

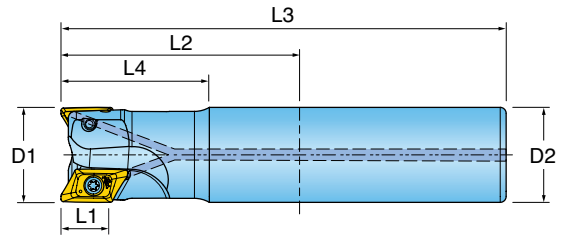
Part Number	Application	Grades	IN10K
XEVT160504FR-P	Ground/Polished for Aluminum - 0.015" R		●
XEVT160508FR-P	Ground/Polished for Aluminum - 0.031" R		●
XEVT160516FR-P	Ground/Polished for Aluminum - 0.062" R		●
XEVT160524FR-P	Ground/Polished for Aluminum - 0.093" R		●
XEVT160532FR-P	Ground/Polished for Aluminum - 0.125" R		●
XEVT160550FR-P	Ground/Polished for Aluminum - 0.197" R		●

Cutter Number	HARDWARE			
	Insert Screw	Retention Bolt	Driver Handle	Screw Driver Blade
AX2K-20R01	SM40-093-20	SD-06-47	DS-A00T	DS-T156B
AX2K-20R02	SM40-093-20	SD-06-46	DS-A00T	DS-T156B
AX2K-25R01	SM40-093-20	SD-08-47	DS-A00T	DS-T156B
AX2K-30R01	SM40-093-20	SD-08-47	DS-A00T	DS-T156B
AX2K-30R02	SM40-093-20	SD-08-47	DS-A00T	DS-T156B
AX2K-40R01	SM40-093-20	SD-12-82	DS-A00T	DS-T156B
AX2K-60R01	SM40-093-20	SD-12-82	DS-A00T	DS-T156B

● = P ● = M ● = K ● = N ● = S ○ = H

HIPOS[®]ALU SERIES 1AX2Q

90° HIGH-SPEED ROUTER END MILL (ALUMINUM)



Cutter Number	D1 Nominal Diameter	L1 Extension Length	L2 Overall Length	D2 Shank Size/Style	Number of Inserts	Ramp Angle
1AX2Q-12020S9R01	1.250	2.00	8.00	1.250" Cyliind.	2	16.9
1AX2Q-15020S9R01	1.500	2.00	10.00	1.250" Cyliind.	3	12.4

Ramp angle measured using insert XEVT220608FR-P.

XEVT220605FR-P	XEVT220608FR-P	XEVT220616FR-P
XEVT220632FR-P	XEVT220650FR-P	XEVT220664FR-P

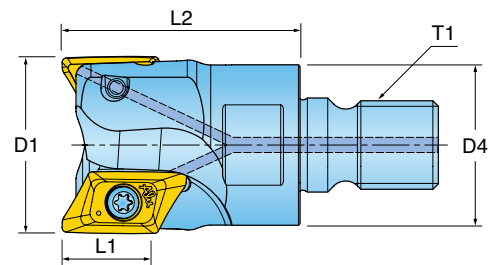
Part Number	Application	Grades	IN10K
XEVT220605FR-P	Ground/Polished for Aluminum - 0.015" R		●
XEVT220608FR-P	Ground/Polished for Aluminum - 0.031" R		●
XEVT220616FR-P	Ground/Polished for Aluminum - 0.062" R		●
XEVT220632FR-P	Ground/Polished for Aluminum - 0.093" R		●
XEVT220650FR-P	Ground/Polished for Aluminum - 0.125" R		●
XEVT220664FR-P	Ground/Polished for Aluminum - 0.197" R		●

HARDWARE			
	Screw	Driver Handle	Screw Driver Blade
1AX2Q-12020S9R01	SM50-096-20	DS-A00T	DS-T206B
1AX2Q-15020S9R01	SM50-113-20	DS-A00T	DS-T206B

● = P ○ = M ● = K ● = N ● = S ○ = H

HIPOS^oALU SERIES 1AX2Q (TOP-ON STYLE)

90° HIGH-SPEED ROUTER END MILL (ALUMINUM)



Cutter Number	D1 Nom. Dia.	T1 Adaption	L1 Extension Length	Number of Inserts	Wrench Size	Ramp Angle
1AX2Q-12017X8R01	1.250	M16	1.75	2	22mm	16.9
1AX2Q-15018X8R01	1.500	M16	1.88	2	22mm	12.4

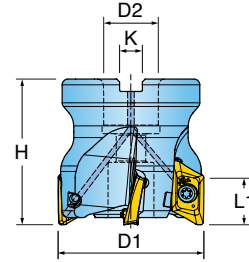
XEVT220605FR-P 	XEVT220608FR-P 	XEVT220616FR-P
XEVT220632FR-P 	XEVT220650FR-P 	XEVT220664FR-P

Part Number	Application	Grades	IN10K
XEVT220605FR-P	Ground/Polished for Aluminum - 0.015" R		●
XEVT220608FR-P	Ground/Polished for Aluminum - 0.031" R		●
XEVT220616FR-P	Ground/Polished for Aluminum - 0.062" R		●
XEVT220632FR-P	Ground/Polished for Aluminum - 0.093" R		●
XEVT220650FR-P	Ground/Polished for Aluminum - 0.125" R		●
XEVT220664FR-P	Ground/Polished for Aluminum - 0.197" R		●

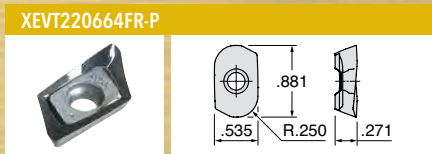
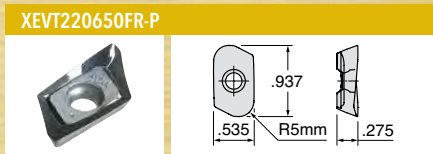
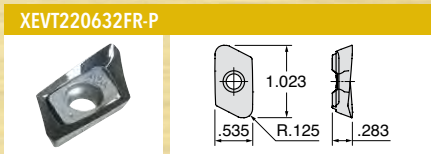
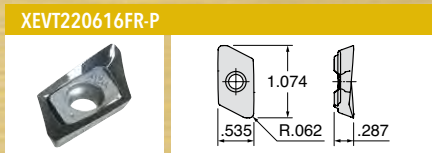
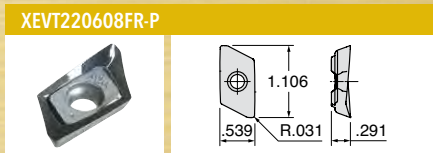
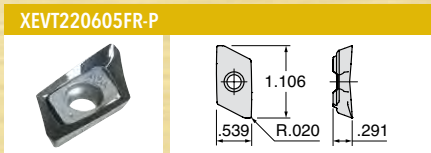
HARDWARE			
	Screw	Driver Handle	Screw Driver Blade
1AX2Q-12017X8R01	SM50-096-20	DS-A00T	DS-T206B
1AX2Q-15018X8R01	SM50-113-20	DS-A00T	DS-T206B

● = P ● = M ● = K ● = N ● = S ○ = H

90° HIGH SPEED ROUTER FACE MILL (ALUMINUM)L



Cutter Number	D1 Nominal Diameter	D2 Bore Size	K Keyway	H Height	#Flutes Effective	Ramp Angle
AX2Q-20R01	2.000	0.750	0.312	2.000	2	8.1
AX2Q-20R02	2.000	0.750	0.312	2.000	3	8.1
AX2Q-25R01	2.500	1.000	0.375	2.000	3	6.0
AX2Q-25R02	2.500	1.000	0.375	2.000	4	6.0
AX2Q-30R01	3.000	1.000	0.375	2.000	3	5.0
AX2Q-30R02	3.000	1.000	0.375	2.000	5	5.0
AX2Q-40R01	4.000	1.500	0.625	2.375	3	3.0
AX2Q-40R02	4.000	1.500	0.625	2.375	5	3.0
AX2Q-60R01	6.000	1.500	0.625	2.375	3	2.0
AX2Q-60R02	6.000	1.500	0.625	2.375	7	2.0



Part Number	Application	Grades	IN10K
XEVT220605FR-P	Ground/Polished for Aluminum - 0.015" R		●
XEVT220608FR-P	Ground/Polished for Aluminum - 0.031" R		●
XEVT220616FR-P	Ground/Polished for Aluminum - 0.062" R		●
XEVT220632FR-P	Ground/Polished for Aluminum - 0.093" R		●
XEVT220650FR-P	Ground/Polished for Aluminum - 0.125" R		●
XEVT220664FR-P	Ground/Polished for Aluminum - 0.197" R		●

HARDWARE				
	Screw	Retention Bolt	Driver Handle	Screw Driver Blade
AX2Q-20R01	SM50-113-20	SD-06-47	DS-A00T	DS-T206B
AX2Q-20R02	SM50-113-20	SD-06-47	DS-A00T	DS-T206B
AX2Q-25R01	SM50-113-20	SD-08-47	DS-A00T	DS-T206B
AX2Q-25R02	SM50-113-20	SD-08-47	DS-A00T	DS-T206B
AX2Q-30R01	SM50-113-20	SD-08-47	DS-A00T	DS-T206B
AX2Q-30R02	SM50-113-20	SD-08-47	DS-A00T	DS-T206B
AX2Q-40R01	SM50-113-20	SD-12-82	DS-A00T	DS-T206B
AX2Q-40R02	SM50-113-20	SD-12-82	DS-A00T	DS-T206B
AX2Q-60R01	SM50-113-20	SD-12-82	DS-A00T	DS-T206B
AX2Q-60R02	SM50-113-20	SD-12-82	DS-A00T	DS-T206B

● = P ● = M ● = K ● = N ● = S ○ = H

Features & Benefits:

- Suitable for high feed machining
- Low cutting forces
- Insert available with single tip, double tip and full edge
- High number of cutting edges for high productivity

TEDI FEED SERIES TRGSC

PCD/CBN END MILL




Cutter Number	D1 Nominal Diameter	D3 Minor Diameter"	L2 Extension Length	L3 Overall Length	D2 Shank Size/Style	Number of Inserts
TRGSC25D025N03-00	25.000	23.600	50.00	100.00	25mm Cylind.	3
TRGSC01I010N03-00	1.000	0.995	2.00	4.00	1.000" Cylind.	3

*D1 relates to 90 degree insert orientation. D3 relates to 75 degree insert orientation.

HARDWARE



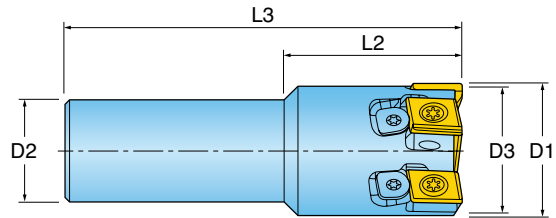

Insert Screw Wrench Kit

VX040024A TEDI FEED KIT

● = P ● = M ● = K ● = N ● = S ○ = H




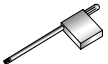

TEDIFEEED SERIES TRGSC-AXIAL ADJ

PCD/CBN END MILL WITH AXIAL ADJUSTMENT



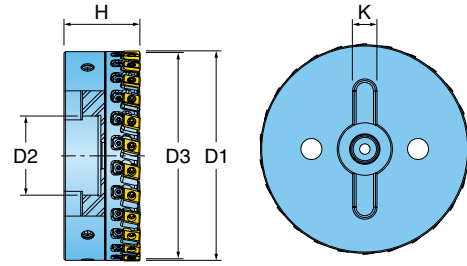
Cutter Number	D1 Nominal Diameter	D3 Minor Diameter"	L2 Extension Length	L3 Overall Length	D2 Shank Size/Style	Number of Inserts
TRGSC25D025-03-00	25.000	23.600	50.00	100.00	25mm Cylind.	3
TRGSC01I010-03-00	1.000	0.995	2.00	4.00	1.000" Cylind.	3
TRGSC01I012-05-00	1.250	1.200	2.00	4.00	1.000" Cylind.	5
TRGSC25D032-05-00	32.000	30.600	50.00	100.00	25mm Cylind.	5

*D1 relates to 90 degree insert orientation. D3 relates to 75 degree insert orientation.

HARDWARE					
	Insert Screw	Wedge Screw	Adjusting Wedge	Wrench Kit	Wedge screw
TRGSC25D025-03-00	VX040024A	VX040028A	RSFTC1011	TEDIFEEED KIT	-
TRGSC01I010-03-00	VX040024A	VX040028A	RSFTC1011	TEDIFEEED KIT	-
TRGSC01I012-05-00	VX040024A	-	RSFTC1009	TEDIFEEED KIT	RSRGR5M40
TRGSC25D032-05-00	VX040024A	-	RSFTC1009	TEDIFEEED KIT	-





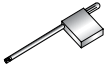

● = P ● = M ● = K ● = N ● = S ○ = H

PCD/CBN FACE MILL WITH AXIAL ADJUSTMENT

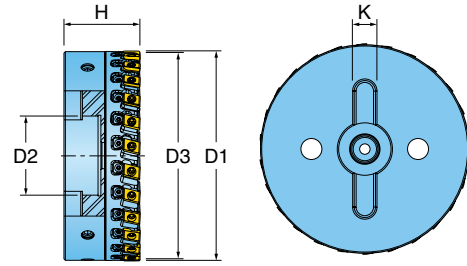


Cutter Number	D1 Nominal Diameter	D3 Minor Diameter*	H Height	Number of Inserts	D2 Bore Dia.	K Keyway
TRGSM16D040-06-00	40mm	38.600	55mm	6	NA	NA
TRGSM16I015-06-00	1.500	1.450	2.165	6	NA	NA
TRGSM22D050-08-00	50mm	48.600	55mm	8	22mm	10.4mm
TRGSM22D063-10-00	63mm	61.600	55mm	10	22mm	10.4mm
TRGSM22I020-08-00	2.000	1.950	2.165	8	22mm	10.4mm
TRGSM22I025-10-00	2.500	2.450	2.165	10	22mm	10.4mm
TRGSM27D080-12-00	80mm	78.600	58mm	12	27mm	12.4mm
TRGSM27I030-12-00	3.000	2.950	2.283	12	27mm	12.4mm
TRGSM32D100-16-00	100mm	98.600	58mm	16	32mm	14.0mm
TRGSM32I040-16-00	4.000	3.950	2.283	16	32mm	14.0mm
TRGSM40D125-20-00	125mm	123.600	58mm	20	40mm	16.0mm
TRGSM40D160-26-00	160mm	158.600	58mm	26	40mm	16.0mm
TRGSM40I050-20-00	5.000	4.950	2.283	20	40mm	16.0mm
TRGSM40I060-24-00	6.000	5.950	2.283	24	40mm	16.0mm
TRGSM60D200-30-00	200mm	198.600	63mm	30	60mm	25.7mm
TRGSM60D250-34-00	250mm	248.600	63mm	34	60mm	25.7mm
TRGSM60I080-30-00	8.000	7.950	2.480	30	60mm	25.7mm
TRGSM60I100-34-00	10.000	9.950	2.480	34	60mm	25.7mm

*D1 relates to 90 degree insert orientation. D3 relates to 75 degree insert orientation.






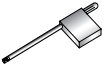
HARDWARE						
	Insert Screw	Adjusting Wedge	Clamping Bolt	Wedge screw	Wrench Kit	Faceplate
TRGSM16D040-06-00	VX040024A	RSFTC1009	VC004762I06035	RSRGR5M40	TEDIFEED KIT	-
TRGSM16I015-06-00	VX040024A	RSFTC1009	VC004762I06035	RSRGR5M40	TEDIFEED KIT	-
TRGSM22D050-08-00	VX040024A	RSFTC1008	RSFTS4050M	RSRGR5M40	TEDIFEED KIT	-
TRGSM22D063-10-00	VX040024A	RSFTC1008	VC004762I10035F	RSRGR5M40	TEDIFEED KIT	RSFTS4063M
TRGSM22I020-08-00	VX040024A	RSFTC1008	RSFTS4050M	RSRGR5M40	TEDIFEED KIT	-
TRGSM22I025-10-00	VX040024A	RSFTC1008	VC004762I10035F	RSRGR5M40	TEDIFEED KIT	RSFTS4063M
TRGSM27D080-12-00	VX040024A	RSFTC1008	VC00TEDI12040F	RSRGR5M40	TEDIFEED KIT	RSFTS4080
TRGSM27I030-12-00	VX040024A	RSFTC1008	VC00TEDI12040F	RSRGR5M40	TEDIFEED KIT	RSFTS4080
TRGSM32D100-16-00	VX040024A	RSFTC1008	VC00TANG16040F	RSRGR5M40	TEDIFEED KIT	RSFTS4100
TRGSM32I040-16-00	VX040024A	RSFTC1008	VC00TANG16040F	RSRGR5M40	TEDIFEED KIT	RSFTS4100
TRGSM40D125-20-00	VX040024A	RSFTC1008	VC00TEDI20040F	RSRGR5M40	TEDIFEED KIT	RSFTS4125
TRGSM40D160-26-00	VX040024A	RSFTC1008	VC004762I12050	RSRGR5M40	TEDIFEED KIT	RSFTS4160
TRGSM40I050-20-00	VX040024A	RSFTC1008	VC00TEDI20040F	RSRGR5M40	TEDIFEED KIT	RSFTS4125
TRGSM40I060-24-00	VX040024A	RSFTC1008	VC004762I12050	RSRGR5M40	TEDIFEED KIT	RSFTS4160
TRGSM60D200-30-00	VX040024A	RSFTC1008	VC004762I16060	RSRGR5M40	TEDIFEED KIT	RSFTS4200
TRGSM60D250-34-00	VX040024A	RSFTC1008	VC004762I16060	RSRGR5M40	TEDIFEED KIT	RSFTS4250
TRGSM60I080-30-00	VX040024A	RSFTC1008	VC004762I16060	RSRGR5M40	TEDIFEED KIT	RSFTS4200
TRGSM60I100-34-00	VX040024A	RSFTC1008	VC004762I16060	RSRGR5M40	TEDIFEED KIT	RSFTS4250

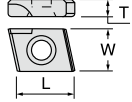
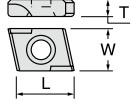
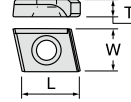
PCD/CBN FACE MILL WITH AXIAL ADJUSTMENT



Cutter Number	D1 Nominal Diameter	D3 Minor Diameter*	H Height	Number of Inserts	D2 Bore Dia.	K Keyway
TRGSM40D125-18-02	125mm	123.600	58mm	20	40mm	16.0mm
TRGSM40D160-24-02	160mm	158.600	58mm	26	40mm	16.0mm
TRGSM40I050-18-02	5.000	4.950	2.283	20	40mm	16.0mm
TRGSM40I060-22-02	6.000	5.950	2.283	24	40mm	16.0mm
TRGSM60D200-28-02	200mm	198.600	63mm	30	60mm	25.7mm
TRGSM60D250-32-02	250mm	248.600	63mm	34	60mm	25.7mm
TRGSM60I080-28-02	8.000	7.950	2.480	24	60mm	25.7mm
TRGSM60I100-32-02	10.000	9.950	2.480	34	60mm	25.7mm

*D1 relates to 90 degree insert orientation. D3 relates to 75 degree insert orientation.


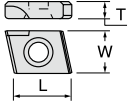

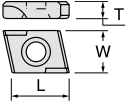

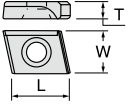
















HARDWARE						
	Insert Screw	Adjusting wedge	Faceplate	Clamping Bolt	Wedge screw	Wrench Kit
TRGSM40D125-18-02	VX040024A	RSFTC1008	RSFTS4125W	VC00TEDI20040F	RSRGR5M40	TEDIFEED KIT
TRGSM40D160-24-02	VX040024A	RSFTC1008	RSFTS4160W	VC004762112050	RSRGR5M40	TEDIFEED KIT
TRGSM40I050-18-02	VX040024A	RSFTC1008	RSFTS4125W	VC00TEDI20040F	RSRGR5M40	TEDIFEED KIT
TRGSM40I060-22-02	VX040024A	RSFTC1008	RSFTS4160W	VC004762112050	RSRGR5M40	TEDIFEED KIT
TRGSM60D200-28-02	VX040024A	RSFTC1008	RSFTS4200W	VC004762116060	RSRGR5M40	TEDIFEED KIT
TRGSM60D250-32-02	VX040024A	RSFTC1008	-	VC004762116060	RSRGR5M40	TEDIFEED KIT
TRGSM60I080-28-02	VX040024A	RSFTC1008	RSFTS4200W	VC004762116060	RSRGR5M40	TEDIFEED KIT
TRGSM60I100-32-02	VX040024A	RSFTC1008	-	VC004762116060	RSRGR5M40	TEDIFEED KIT

TRG_M Single-Tip

TRG_B Double-Tip

TRG_T Full Edge



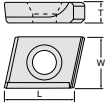


Part Number	L Length	W Width	T Thickness	C Corner	Hand	Grades	CH	PB
TRGCP05BRCH	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGCP05MRCH	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGCP91BRCH	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGCP91MRCH	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGCP92BRCH	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGCP92MRCH	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGPP01BRPB	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGPP01MRPB	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGPP01TRPB	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGPP02BRPB	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGPP02MRPB	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGPP05BRPB	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGPP05MRPB	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGPP05TRPB	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGPP07BRPB	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGPP07MRPB	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGPP07TRPB	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			

● = P ● = M ● = K ● = N ● = S ○ = H

TEDIFEEED SERIES TRG INSERTS FOR CUTTERS >50MM IN DIAMETER

TRG_M Single-Tip		TRG_B Double-Tip		TRG_T Full Edge				
								
Part Number	L Length	W Width	T Thickness	C Corner	Hand	Grades	CH	PB
TRGCA05BRCH	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGCA05MRCH	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGCA91BRCH	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGCA91MRCH	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGCA92BRCH	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGCA92MRCH	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGPA01BRPB	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGPA01MRPB	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGPA02BRPB	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGPA02MRPB	0.500	0.375	0.125	0.016 Cham 45deg w/Wip	Right			
TRGPA05BRPB	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGPA05MRPB	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGPA05TRPB	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGPA07BRPB	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGPA07MRPB	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			
TRGPA07TRPB	0.500	0.375	0.125	0.016 R w/.047" Wiper	Right			

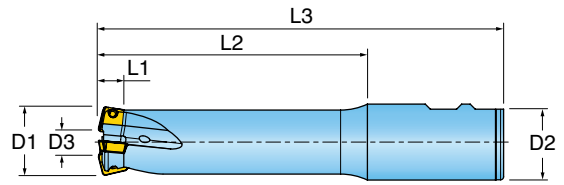
TEDIFEEED SERIES TRG WIPER INSERTS

TRGPR Wiper Insert								
								
Part Number	L Length	W Width	T Thickness	C Corner	Hand	Grades	CH	PB
TRGCR92TRCH	0.500	0.375	0.125	0.016 Crowned Wiper	Right			
TRGPR02TRPB	0.500	0.375	0.125	0.016 Crowned Wiper	Right			

● = P ● = M ● = K ● = N ● = S ○ = H

GOLD[®]QUAD SERIES 15M1P (13MM INSERT)

HIGH FEED END MILL WITH 4 INDEXES



Cutter Number	D1 Nominal Diameter	L2 Extension Length	L3 Overall Length	L4 Projection Length	D2 Shank Size/Style	Number of Inserts	Ramp Angle
15M1P-1202781R01	1.250	2.75	5.00	2.19	1.250" Weldon	2	4.7
15M1P-1204759R01	1.250	4.75	8.00	4.18	1.250" Cylind.	2	4.7
15M1P-1502786R01	1.500	2.75	5.41	2.18	1.500" Weldon	3	2.8
15M1P-1505386R01	1.500	5.34	8.00	4.77	1.500" Weldon	3	2.8

Refer to the new product announcement for detailed programming information. Note, when using inserts SDES1305MPR, SDES1305MPR-001 or SDES1305MPR-MR the nominal diameter is reduced .030 inch.

SDES130515N 	SDES130515N-001 	SDES1305MDR
SDES1305MDR-001 	SDES1305MPR 	SDES1305MPR-001
SDMS130515R-PH 	SDMS1305MDR-PH 	SDXS1305MPR-MR

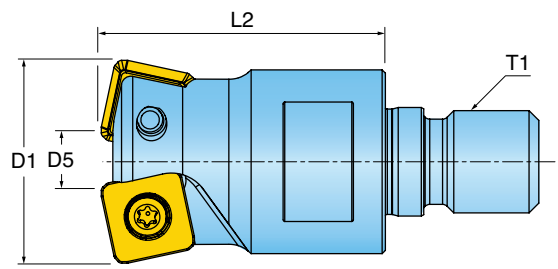
Part Number	Application	Grades	IN2505	IN2530	IN4005	IN4015	IN4030	IN4035
SDES130515N	Flat Top - Landed Edge - 0.060" R		●	●	●	●	●	
SDES130515N-001	Flat Top - Keen Edge - 0.060" R		●	●			●	●
SDES1305MDR	Flat Top - Landed Edge - 0.033" Wiper		●	●				
SDES1305MDR-001	Flat Top - Keen Edge - 0.033" Wiper		●					
SDES1305MPR	High Feed, Heavy-Duty		●	●	●			●
SDES1305MPR-001	High Feed, Heavy-Duty Keen Edge		●	●	●		●	●
SDMS130515R-PH	Positive Geometry - 0.060" R		●	●	●		●	●
SDMS1305MDR-PH	Positive Geometry - 0.033" Wiper		●	●	●		●	●
SDXS1305MPR-MR	Utility Insert - Heavy Duty				●			

HARDWARE			
	SM40-100-R0	DS-A00T	DS-T156B

● = P ○ = M ● = K ● = N ● = S ○ = H

GOLDQUAD SERIES 15M1P (13MM INSERT)

HIGH FEED MODULAR END MILL, 4 INDEXES,
INCH & METRIC CUTTER DIAMETERS (TOPON STYLE)



Cutter Number	D1 Nom. Dia.	T1 Adaption	L2 Extension Length	Number of Inserts	Wrench Size	Ramp Angle
15M1P032043X8R00	32mm	M16	43mm	2	22mm	5.0
15M1P035043X8R00	35mm	M16	43mm	2	22mm	4.0
15M1P040043X8R00	40mm	M16	43mm	3	22mm	2.7
15M1P-12017X8R01	1.250	M16	1.75	2	22mm	4.7

Refer to the new product announcement for detailed programming information. Note, when using inserts SDES1305MPR, SDES1305MPR-001 or SDES1305MPR-MR the nominal diameter is reduced .030 inch.

SDES130515N 	SDES130515N-001 	SDES1305MDR
SDES1305MDR-001 	SDES1305MPR 	SDES1305MPR-001
SDMS130515R-PH 	SDMS1305MDR-PH 	SDXS1305MPR-MR

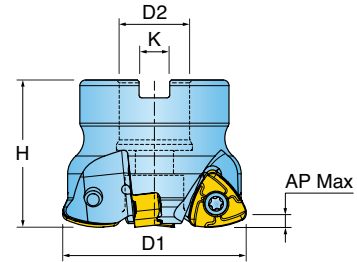
Part Number	Application	Grades	IN2505	IN2530	IN4005	IN4015	IN4030	IN4035
SDES130515N	Flat Top - Landed Edge - 0.060" R		●	●	●	●	●	
SDES130515N-001	Flat Top - Keen Edge - 0.060" R		●	●			●	●
SDES1305MDR	Flat Top - Landed Edge - 0.033" Wiper		●	●				
SDES1305MDR-001	Flat Top - Keen Edge - 0.033" Wiper		●					
SDES1305MPR	High Feed, Heavy-Duty		●	●	●			●
SDES1305MPR-001	High Feed, Heavy-Duty Keen Edge		●	●	●		●	●
SDMS130515R-PH	Positive Geometry - 0.060" R		●	●	●		●	●
SDMS1305MDR-PH	Positive Geometry - 0.033" Wiper		●	●	●		●	●
SDXS1305MPR-MR	Utility Insert - Heavy Duty				●			

HARDWARE			
	SM40-100-R0	DS-A00T	DS-T156B

● = P ● = M ● = K ● = N ● = S ○ = H

POWER FEED 13+™ SERIES DG6P - DG5P

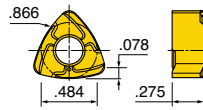
HIGH FEED FACE MILL WITH 6 INDEXES



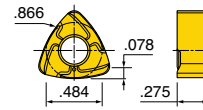
Cutter Number	D1 Effective Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Ramp Angle
DG5P-20R01	2.000	4	1.570	0.750	0.312	.8
DG6P-20R01	2.000	3	1.570	0.750	0.312	.8
DG5P-25R01	2.500	5	1.570	0.750	0.312	.6
DG6P-25R01	2.500	4	1.570	0.750	0.312	.6
DG6P-30R01	3.000	5	1.570	1.000	0.375	.4
DG6P-30R02	3.000	5	1.570	1.250	0.500	.4
DG5P-40R01	4.000	7	2.375	1.500	0.625	.3
DG6P-40R01	4.000	6	2.375	1.500	0.625	.3
DG6P-60R01	6.000	7	2.375	1.500	0.625	.2

Refer to the new product announcement for detailed programming information. Note, AP Max. = .078 inch

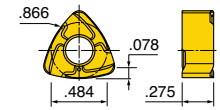
UNEU1307R-M



UNEU1307R-MM



UNEU1307R-MR



Part Number	Application	Grades	Application				
			IN2035	IN2504	IN2505	IN2530	IN7035
UNEU1307R-M	Multi-Purpose - 0.138" R (pgm corner)		●	●	●	●	●
UNEU1307R-MM	Multi-Purpose, Keen Edge - 0.138" R (pgm corner)		●			●	●
UNEU1307R-MR	Heavy-Duty - 0.138" R (pgm corner)		●		●		●

HARDWARE



Retention Bolt



Coolant Bolt



Driver Handle



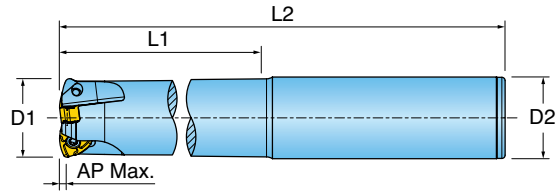
Screw Driver Blade

DG5P-20R01	SD-06-46	SD-06-89	DS-A00T	DS-T206B
DG6P-20R01	SD-06-46	SD-06-89	DS-A00T	DS-T206B
DG5P-25R01	SD-06-46	SD-06-89	DS-A00T	DS-T206B
DG6P-25R01	SD-06-46	SD-06-89	DS-A00T	DS-T206B
DG6P-30R01	SD-08-46	SD-08-92	DS-A00T	DS-T206B
DG6P-30R02	SD-10-47	SD-08-92	DS-A00T	DS-T206B
DG5P-40R01	SD-12-82	SD-12-99	DS-A00T	DS-T206B
DG6P-40R01	SD-12-82	SD-12-99	DS-A00T	DS-T206B
DG6P-60R01	SD-12-82	SD-12-99	DS-A00T	DS-T206B

● = P ○ = M ● = K ● = N ● = S ○ = H

POWERFEED13+™ SERIES 1DG1P

HIGH FEED END MILL WITH 6 INDEXES



Cutter Number	D1 Nominal Diameter	L2 Extension Length	L3 Overall Length	L4 Projection Length	D2 Shank Size/Style	Number of Inserts	Ramp Angle
1DG1P-1202781R01	1.250	2.75	5.00	0.83	1.250" Weldon	2	.7
1DG1P-1204759R01	1.250	4.75	8.00	0.83	1.250" Cylind.	2	.7
1DG1P-1503386R01	1.500	3.34	6.00	0.83	1.500" Weldon	3	1.5
1DG1P-1507355R01	1.500	7.34	10.00	0.83	1.500" Cylind.	3	1.5

Refer to the new product announcement for detailed programming information. Note, AP Max. = .078 inch

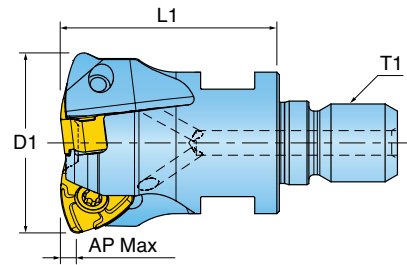
Part Number	Application	Grades				
		IN2035	IN2504	IN2505	IN2530	IN7035
UNEU1307R-M	Multi-Purpose - 0.138" R (pgm corner)	●	●	●	●	●
UNEU1307R-MM	Multi-Purpose, Keen Edge - 0.138" R (pgm corner)	●			●	●
UNEU1307R-MR	Heavy-Duty - 0.138" R (pgm corner)	●		●		●

HARDWARE	
 Driver Handle DS-A00T	 Screw Driver Blade DS-T206B

● = P ○ = M ● = K ● = N ● = S ○ = H

POWER FEED 13+™ SERIES 1DG1P (TOP-ON STYLE)

HIGH FEED MODULAR END MILL WITH 6 INDEXES



Cutter Number	D1 Nom. Dia.	T1 Adaption	L2 Extension Length	Number of Inserts	Wrench Size	Ramp Angle
1DG1P-12017X8R01	1.250	M16	1.75	2	22mm	.7
1DG1P-15017X8R01	1.500	M16	1.75	3	22mm	1.5

Refer to the new product announcement for detailed programming information. Note, AP Max. = .078 inch

Part Number	Application	Grades				
		IN2035	IN2504	IN2505	IN2530	IN7035
UNEU1307R-M	Multi-Purpose - 0.138" R (pgm corner)	●	●	●	●	●
UNEU1307R-MM	Multi-Purpose, Keen Edge - 0.138" R (pgm corner)	●			●	●
UNEU1307R-MR	Heavy-Duty - 0.138" R (pgm corner)	●		●		●

HARDWARE		
	Driver Handle	Screw Driver Blade
	DS-A00T	DS-T206B

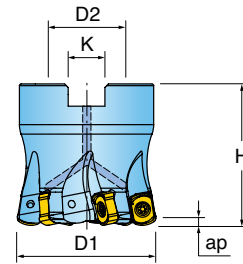
● = P ○ = M ● = K ● = N ● = S ○ = H

Features & Benefits:

- Available in end mill, modular head and face mill type
- .060" (1.5mm) DOC capability, equals increased productivity
- 4 indexes provide for cost effective machining
- Strong positive insert rake face angles for efficient milling.
- Rigid clamping with unique pocket design & high tensile clamping screw, M3.5
- High-Density cutters
- Through coolant, face mills and end mills


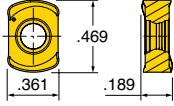

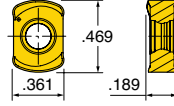

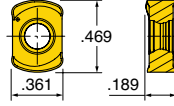
HI-FEEDTM MIDI SERIES TG1G, TG2G, TG3G, TG4G






HIGH FEED FACE MILL, 4 INDEXES



Cutter Number	D1 Effective Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Max Ramp Angle
TG1G050R00	50mm	7	50mm	22mm	10.4mm	1
TG2G050R00	50mm	6	50mm	22mm	10.4mm	1
TG3G050R00	50mm	5	50mm	22mm	10.4mm	1
TG1G-20R01	2.000	7	1.970	0.750	0.312	1
TG2G-20R01	2.000	6	1.970	0.750	0.312	1
TG1G052R00	52mm	7	50mm	22mm	10.4mm	1
TG2G052R00	52mm	6	50mm	22mm	10.4mm	1
TG1G063R00	63mm	8	50mm	22mm	10.4mm	.8
TG2G063R00	63mm	7	50mm	22mm	10.4mm	.8
TG3G063R00	63mm	6	50mm	22mm	10.4mm	.8
TG1G-25R01	2.500	8	1.970	0.750	0.312	.75
TG1G-30R01	3.000	9	1.750	1.000	0.375	.6
TG2G-30R01	3.000	7	1.750	1.000	0.375	.6
TG1G080R00	80mm	10	50mm	27mm	12.4mm	.75
TG2G080R00	80mm	9	50mm	27mm	12.4mm	.75
TG3G080R00	80mm	8	50mm	27mm	12.4mm	.75
TG4G080R00	80mm	7	50mm	27mm	12.4mm	.75

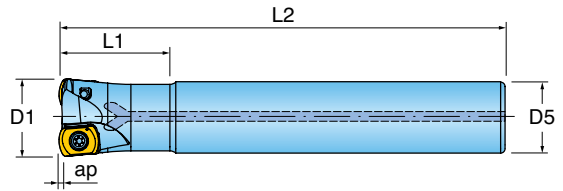
Refer to the new product announcement for detailed programming information. Note, AP Max. = .060 inch

UNLU0904MOTR		UNLU0904MOTR-ML		UNLU0904MOTR-MM						
										
Part Number	Application				Grades	IN2035	IN2504	IN2505	IN2530	IN7035
UNLU0904MOTR	Multi-Purpose - 0.094" R									
UNLU0904MOTR-ML	Precision - 0.094" R									
UNLU0904MOTR-MM	Positive Geometry - 0.094" R									

HARDWARE					
	Screw	Retention Bolt	Driver Handle	Screw Driver Blade	Coolant Bolt
TG1G050R00	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	-
TG2G050R00	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	-
TG3G050R00	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	-
TG1G-20R01	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	SD-06-A6
TG2G-20R01	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	SD-06-A6
TG1G052R00	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	-
TG2G052R00	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	-
TG1G063R00	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	-
TG2G063R00	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	-
TG3G063R00	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	-
TG1G-25R01	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	-
TG1G-30R01	SM35-088-10	SD-08-46	DS-A00T	DS-T106B	-
TG2G-30R01	SM35-088-10	SD-08-46	DS-A00T	DS-T106B	-
TG1G080R00	-	-	-	-	-
TG2G080R00	-	-	-	-	-
TG3G080R00	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	-
TG4G080R00	SM35-088-10	SD-06-48	DS-A00T	DS-T106B	-

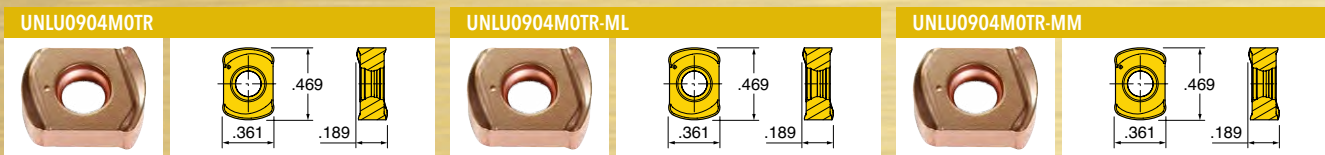
● = P ● = M ● = K ● = N ● = S ● = H

HIGH FEED END MILL, 4 INDEXES



Cutter Number	D1 Nominal Diameter	L2 Extension Length	L3 Overall Length	L4 Projection Length	D2 Shank Size/Style	Number of Inserts	Ramp Angle
1TG1G025070T5R00	25.000	70.00	150.00	-	25mm Cylind.	2	2
1TG1G025070T5R01	25.000	70.00	150.00	-	25mm Cylind.	3	2
1TG1G025110T5R01	25.000	110.00	200.00	-	25mm Cylind.	3	2
1TG1G-10019S1R03	1.000	1.97	7.00	1.80	1.000" Cylind.	3	3
1TG1G-10020S1R03	1.000	2.00	10.00	1.83	1.000" Cylind.	3	3
1TG1G-12027E2R03	1.250	2.75	5.75	2.57	1.250" Weldon	3	2
1TG1G-12027E2R04	1.250	2.75	5.75	2.57	1.250" Weldon	4	2
1TG1G-12047E2R03	1.250	4.75	7.75	4.57	1.250" Weldon	3	2
1TG1G032070U7R00	32.000	100.06	160.00	70.00	32mm Cylind.	3	2
1TG1G032070U7R02	32.000	100.06	160.00	70.00	32mm Cylind.	4	2
1TG1G032120U7R00	32.000	120.00	220.00	-	32mm Cylind.	3	2
1TG1G032120U7R02	32.000	160.00	220.00	120.00	32mm Cylind.	4	2
1TG1G-15016E2R04	1.500	1.69	6.00	1.45	1.250" Weldon	4	1.5
1TG1G-15016E2R05	1.500	1.69	6.00	1.45	1.250" Weldon	5	1.5

Refer to the new product announcement for detailed programming information. Note, AP Max. = .060 inch



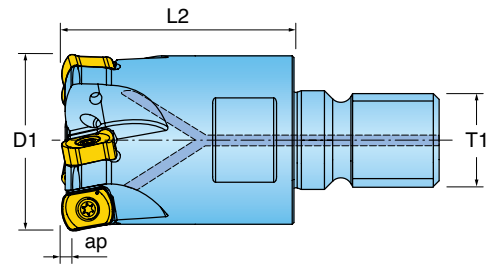
Part Number	Application	Grades				
		IN2035	IN2504	IN2505	IN2530	IN7035
UNLU0904MOTR	Multi-Purpose - 0.094" R					
UNLU0904MOTR-ML	Precision - 0.094" R					
UNLU0904MOTR-MM	Positive Geometry - 0.094" R					

HARDWARE			
	Screw	Driver Handle	Screw Driver Blade
	SM35-088-10	DS-A00T	DS-T106B

● = P ○ = M ● = K ● = N ● = S ○ = H

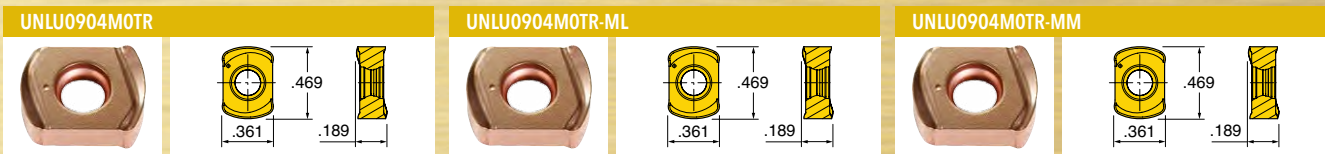
HI-FEED MIDI™ SERIES 1TG1G (TOP-ON STYLE)

HIGH FEED MODULAR END MILL, 4 INDEXES



Cutter Number	D1 Nom. Dia.	T1 Adaption	L2 Extension Length	Number of Inserts	Wrench Size	Ramp Angle
1TG1G025035X7R00	25mm	M12	35mm	2	17mm	2
1TG1G025035X7R01	25mm	M12	35mm	3	17mm	2
1TG1G032043X8R00	32mm	M16	43mm	3	22mm	2
1TG1G032043X8R01	32mm	M16	43mm	4	22mm	2
1TG1G035043X8R00	35mm	M16	43mm	4	22mm	2
1TG1G-10015X7R03	1.000	M12	1.57	3	17mm	3
1TG1G-12015X8R04	1.250	M16	1.57	4	22mm	2

Refer to the new product announcement for detailed programming information. Note, AP Max. = .060 inch



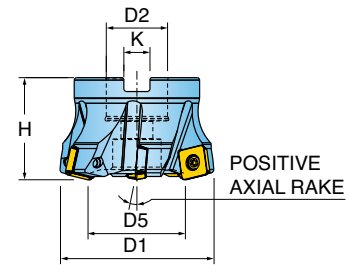
Part Number	Application	Grades				
		IN2035	IN2504	IN2505	IN2530	IN7035
UNLU0904M0TR	Multi-Purpose - 0.094" R					
UNLU0904M0TR-ML	Precision - 0.094" R					
UNLU0904M0TR-MM	Positive Geometry - 0.094" R					

HARDWARE			
	Screw	Screw Driver Blade	Driver Handle
	SM35-088-10	DS-T106B	DS-A00T

● = P ● = M ● = K ● = N ● = S ○ = H

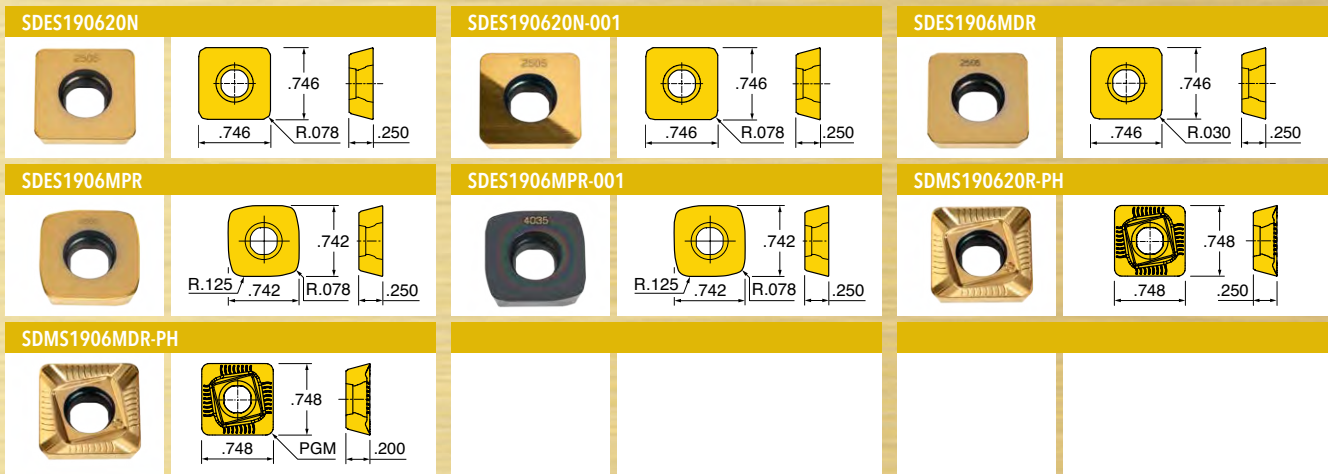
GOLD[®]QUAD SERIES 5G5M 5G6M (19MM INSERT)

HIGH FEED FACE MILL WITH 4 INDEXES, INCH & METRIC CUTTER DIAMETERS



Cutter Number	D1 Nominal Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Ramp Angle	Coolant
5G5M-30R01	3.000	6	2.000	1.000	0.375	1.2	Yes
5G6M-30R01	3.000	5	2.000	1.000	0.375	1.2	No
5G6M080R00	80mm	5	55mm	27mm	12mm		Yes
5G6M100R00	100mm	6	55mm	32mm	14mm		Yes
5G5M-40R01	4.000	8	2.500	1.500	0.625	.8	Yes
5G6M-40R01	4.000	6	2.500	1.500	0.625	.8	No
5G6M125R00	125mm	7	63mm	40mm	16mm		Yes
5G5M-50R01	5.000	9	2.500	1.500	0.625	.6	Yes
5G6M-50R01	5.000	7	2.500	1.500	0.625	.6	No
5G5M-60R01	6.000	10	2.500	1.500	0.625	.4	No
5G6M-60R01	6.000	8	2.500	1.500	0.625	.4	No
5G5M160R00	160mm	10	63mm	40mm	16mm		Yes
5G6M160R00	160mm	8	63mm	40mm	16mm		Yes

Refer to the new product announcement for detailed programming information.



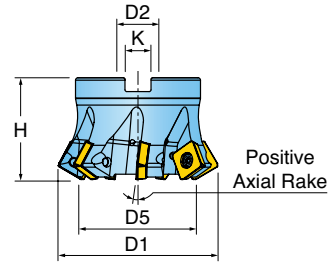
Part Number	Application	Grades				
		IN2505	IN2530	IN4005	IN4030	IN4035
SDES190620N	High-Feed - 0.178" R	●	●			
SDES190620N-001	High-Feed - 0.148" R	●				
SDES1906MDR	High-Feed - 0.178" R	●	●			
SDES1906MPR	High Feed, Heavy-Duty - 0.210" R	●	●	●		●
SDES1906MPR-001	High Feed, Heavy-Duty Keen Edge - 0.210" R	●	●	●	●	●
SDMS190620R-PH	High-Feed - 0.178" R	●	●	●	●	●
SDMS1906MDR-PH	High-Feed - 0.178" R	●	●	●	●	●

HARDWARE					
	Insert Screw	Retention Bolt	Coolant Bolt	Driver Handle	Screw Driver Blade
5G5M-30R01	SM60-135-R0	SD-08-47	SD08-C9	DS-A00T	DS-T256B
5G6M-30R01	SM60-135-R0	SD-08-47	-	DS-A00T	DS-T256B
5G6M080R00	SM60-135-R0	-	-	DS-A00T	DS-T256B
5G6M100R00	SM60-135-R0	-	-	-	-
5G5M-40R01	SM60-135-R0	SD-12-82	SD-12-99	DS-A00T	DS-T256B
5G6M-40R01	SM60-135-R0	SD-12-82	SD-12-99	DS-A00T	DS-T256B
5G6M125R00	SM60-135-R0	-	-	-	-
5G5M-50R01	SM60-135-R0	SD-12-82	SD-08-92	DS-A00T	DS-T256B
5G6M-50R01	SM60-135-R0	SD-12-82	-	DS-A00T	DS-T256B
5G5M-60R01	SM60-135-R0	SD-12-82	-	DS-A00T	DS-T256B
5G6M-60R01	SM60-135-R0	SD-12-82	-	DS-A00T	DS-T256B
5G5M160R00	SM60-135-R0	-	-	-	-
5G6M160R00	SM60-135-R0	-	-	-	-

● = P ● = M ● = K ● = N ● = S ○ = H

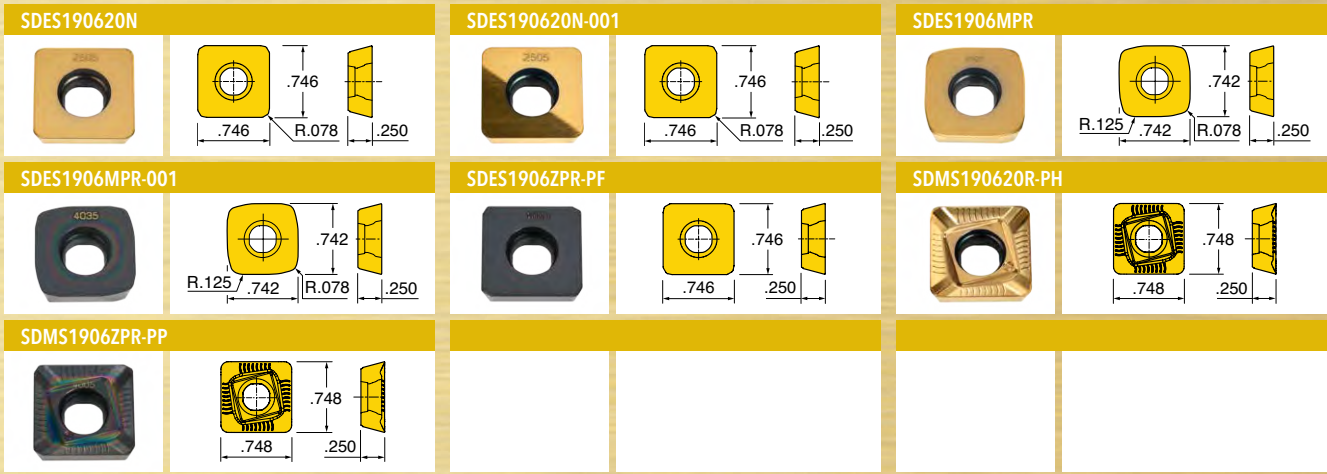
GOLD^oQUAD SERIES 5M5M, 5M6M (19MM INSERT)

HIGH FEED FACE MILL, 30° BEVEL ANGLE



Cutter Number	D1 Nominal Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Ramp Angle	Coolant
5M5M-40R30	4.000	7	2.500	1.500	0.625	n/a	Yes
5M6M-40R30	4.000	6	2.500	1.500	0.625	n/a	Yes
5M5M-50R30	5.000	8	2.500	1.500	0.625	n/a	No
5M6M-50R30	5.000	7	2.500	1.500	0.625	n/a	No
5M5M-60R30	6.000	9	2.500	1.500	0.625	n/a	No
5M6M-60R30	6.000	8	2.500	1.500	0.625	n/a	No

Refer to the new product announcement for detailed programming information.



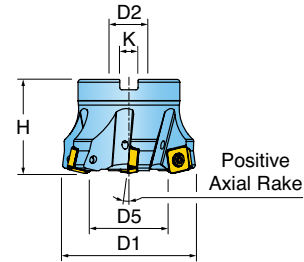
Part Number	Application	Grades				
		IN2505	IN2530	IN4005	IN4030	IN4035
SDES190620N	High-Feed - 0.178" R	●	●			
SDES190620N-001	High-Feed - 0.148" R	●				
SDES1906MPR	High Feed, Heavy-Duty - 0.210" R	●	●	●		●
SDES1906MPR-001	High Feed, Heavy-Duty Keen Edge - 0.210" R	●	●	●	●	●
SDES1906ZPR-PF	High-Feed - Wiper			●	●	●
SDMS190620R-PH	High-Feed - 0.178" R	●	●	●	●	●
SDMS1906ZPR-PP	High-Feed - Wiper			●	●	●

HARDWARE				
	SM60-135-R0	SD-12-82	DS-A00T	DS-T256B

● = P ● = M ● = K ● = N ● = S ○ = H

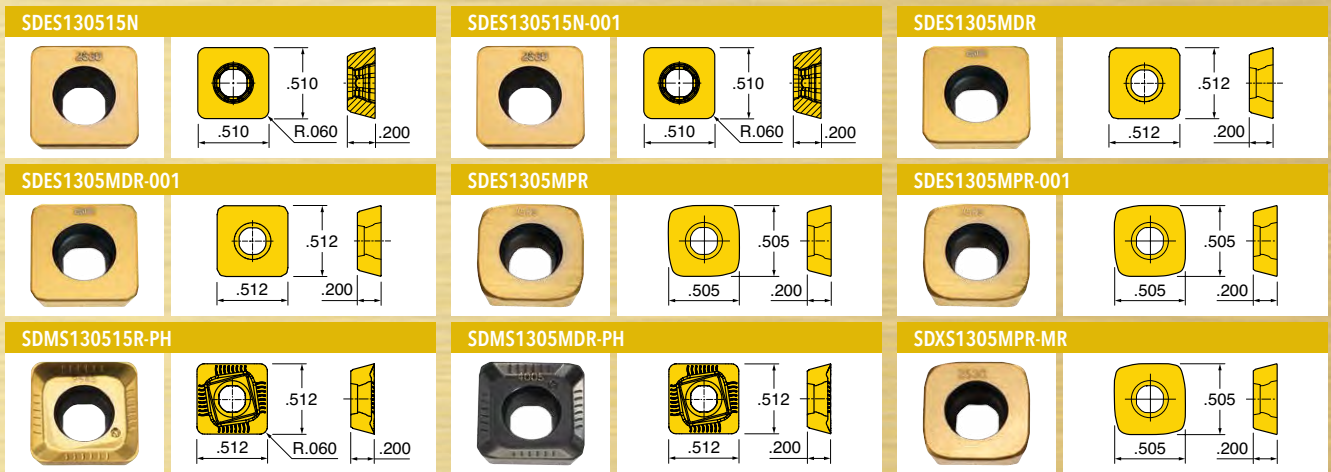
GOLD[®]QUAD SERIES 5M5P 5M6P (13MM INSERT)

HIGH FEED FACE MILL, 4 INDEXES, INCH & METRIC CUTTER DIAMETERS



Cutter Number	D1 Nominal Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Ramp Angle	Coolant
5M5P050R00	50mm	5	50mm	22mm	10mm	1.5	Yes
5M5P-20R01	2.000	5	2.000	0.750	0.312	1.5	Yes
5M6P-20R01	2.000	4	2.000	0.750	0.312	1.5	Yes
5M5P052R00	52mm	5	50mm	22mm	10mm	1.5	Yes
5M6P052R00	52mm	4	2.000	22mm	10mm	1.5	Yes
5M5P063R00	63mm	6	50mm	22mm	10mm	1.0	Yes
5M6P063R00	63mm	5	50mm	22mm	10mm	1.0	Yes
5M5P-25R01	2.500	6	2.000	0.750	0.312	1.5	Yes
5M6P-25R01	2.500	5	2.000	0.750	0.312	1.1	Yes
5M5P066R00	66mm	6	50mm	27mm	12mm	1.0	Yes
5M6P050R00	66mm	4	50mm	22mm	10mm	1.0	Yes
5M6P066R00	66mm	5	50mm	27mm	12mm	1.0	Yes
5M5P-30R01	3.000	8	2.000	1.000	0.375	.8	Yes
5M5P-30R02	3.000	8	2.000	1.250	0.500	.8	Yes
5M6P-30R01	3.000	6	2.000	1.000	0.375	.8	Yes
5M6P-30R02	3.000	6	2.000	1.250	0.500	.8	Yes
5M5P080R00	80mm	8	50mm	27mm	12mm	1.0	Yes
5M6P080R00	80mm	6	50mm	27mm	12mm	1.0	Yes
5M5P100R00	100mm	9	60mm	32mm	14mm	.5	Yes
5M6P100R00	100mm	7	60mm	32mm	14mm	.5	Yes
5M5P-40R01	4.000	10	2.500	1.500	0.625	.6	Yes
5M6P-40R01	4.000	8	2.500	1.500	0.625	.6	Yes
5M5P-50R01	5.000	11	2.500	1.500	0.625	.4	Yes
5M6P-50R01	5.000	9	2.500	1.500	0.625	.6	Yes

Refer to the new product announcement for detailed programming information. Note, when using inserts SDES1305MPR, SDES1305MPR-001 or SDES1305MPR-MR the nominal diameter is reduced .030 inch.



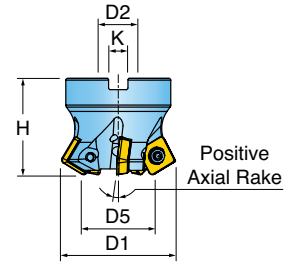
Part Number	Application	Grades	IN2505	IN2530	IN4005	IN4015	IN4030	IN4035
SDES130515N	Flat Top - Landed Edge - 0.060" R		●	●	●	●	●	●
SDES130515N-001	Flat Top - Keen Edge - 0.060" R		●	●			●	●
SDES1305MDR	Flat Top - Landed Edge - 0.033" Wiper		●	●				
SDES1305MDR-001	Flat Top - Keen Edge - 0.033" Wiper		●					
SDES1305MPR	High Feed, Heavy-Duty - n/a		●	●	●			●
SDES1305MPR-001	High Feed, Heavy-Duty Keen Edge - n/a		●	●	●		●	●
SDMS130515R-PH	Positive Geometry - 0.060" R		●	●	●		●	●
SDMS1305MDR-PH	Positive Geometry - 0.033" Wiper		●	●	●		●	●
SDXS1305MPR-MR	Utility Insert - Heavy Duty - n/a				●			

Hardware					
	Screw	Retention Bolt	Driver Handle	Screw Driver Blade	Coolant Bolt
5M5P050R00	SM40-100-R0	-	DS-A00T	DS-T156B	-
5M5P-20R01	SM40-100-R0	SD-06-48	DS-A00T	DS-T156B	SD-06-A6
5M6P-20R01	SM40-100-R0	SD-06-48	DS-A00T	DS-T156B	SD-06-A6
5M5P052R00	SM40-100-R0	-	DS-A00T	DS-T156B	-
5M6P052R00	SM40-100-R0	-	DS-A00T	DS-T156B	-
5M5P063R00	SM40-100-R0	-	DS-A00T	DS-T156B	-
5M6P063R00	SM40-100-R0	-	DS-A00T	DS-T156B	-
5M5P-25R01	SM40-100-R0	SD-06-48	DS-A00T	DS-T156B	SD-06-A6
5M6P-25R01	SM40-100-R0	SD-06-48	DS-A00T	DS-T156B	SD-06-A6
5M5P066R00	SM40-100-R0	-	DS-A00T	DS-T156B	-
5M6P050R00	-	-	-	-	-
5M6P066R00	-	-	-	-	-
5M5P-30R01	SM40-100-R0	SD-08-47	DS-A00T	DS-T156B	SD08-C9
5M5P-30R02	SM40-100-R0	SD-10-47	DS-A00T	DS-T156B	SD-10-99
5M6P-30R01	SM40-100-R0	SD-08-47	DS-A00T	DS-T156B	SD08-C9
5M6P-30R02	SM40-100-R0	SD-10-47	DS-A00T	DS-T156B	SD-10-99
5M5P080R00	-	-	-	-	-
5M6P080R00	SM40-100-R0	-	DS-A00T	DS-T156B	-
5M5P100R00	SM40-100-R0	SD-10-89	DS-A00T	DS-T156B	-
5M6P100R00	SM40-100-R0	SD-10-89	DS-A00T	DS-T156B	-
5M5P-40R01	SM40-100-R0	SD-12-82	DS-A00T	DS-T156B	SD-10-99
5M6P-40R01	SM40-100-R0	SD-12-82	DS-A00T	DS-T156B	SD-10-99
5M5P-50R01	SM40-100-R0	SD-12-82	DS-A00T	DS-T156B	SD-10-99
5M6P-50R01	SM40-100-R0	SD-12-82	DS-A00T	DS-T156B	SD-10-99

● = P ● = M ● = K ● = N ● = S ○ = H

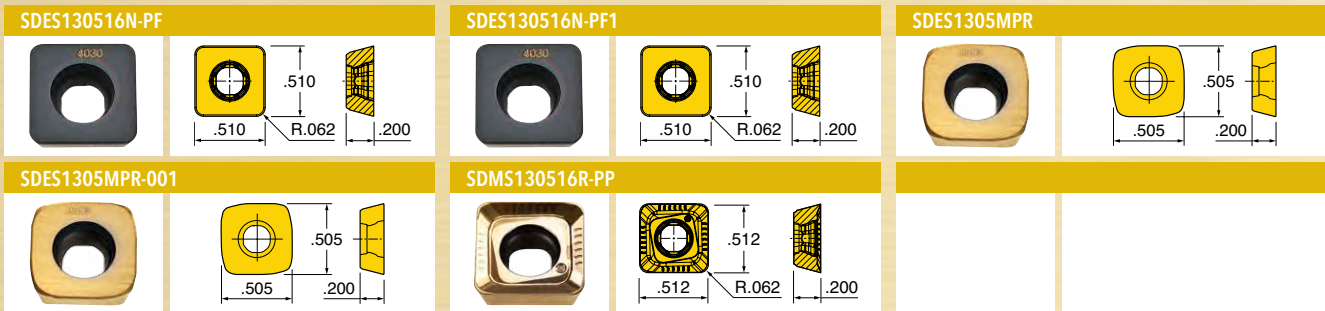
GOLD[®]QUAD SERIES 5M5P, 5M6P (13MM INSERT)

HIGH FEED FACE MILL, 30° BEVEL ANGLE



Cutter Number	D1 Nominal Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Ramp Angle	Coolant
5M5P-20R30	2.000	5	2.000	0.750	0.312	n/a	Yes
5M6P-20R30	2.000	4	2.000	0.750	0.312	n/a	Yes
5M5P-25R30	2.500	6	2.000	0.750	0.312	n/a	Yes
5M6P-25R30	2.500	5	2.000	0.750	0.312	n/a	Yes
5M5P-30R30	3.000	7	2.000	1.000	0.375	n/a	Yes
5M6P-30R30	3.000	6	2.000	1.000	0.375	n/a	Yes

Refer to the new product announcement for detailed programming information.



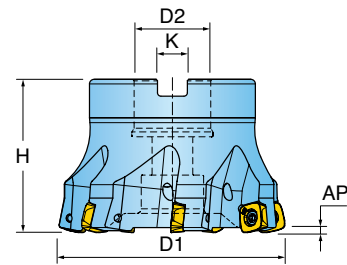
Part Number	Application	Grades								
			IN2505	IN2530	IN2535	IN4005	IN4015	IN4030	IN4035	
SDES130516N-PF	Flat Top - Landed Edge - 0.062" R						●	●	●	●
SDES130516N-PF1	Flat Top - Keen Edge - 0.062" R								●	●
SDES1305MPR	High Feed, Heavy-Duty - n/a		●	●		●				●
SDES1305MPR-001	High Feed, Heavy-Duty Keen Edge - n/a		●	●		●			●	●
SDMS130516R-PP	Positive Geometry - 0.062" R			●	●	●			●	●

Cutter Number	HARDWARE			
	Screw	Retention Bolt	Driver Handle	Screw Driver Blade
5M5P-20R30	SM40-100-R0	-	DS-A00T	DS-T156B
5M6P-20R30	SM40-100-R0	-	DS-A00T	DS-T156B
5M5P-25R30	SM40-100-R0	SD-06-48	DS-A00T	DS-T156B
5M6P-25R30	SM40-100-R0	SD-06-48	DS-A00T	DS-T156B
5M5P-30R30	SM40-100-R0	SD-08-47	DS-A00T	DS-T156B
5M6P-30R30	SM40-100-R0	SD-08-47	DS-A00T	DS-T156B

● = P ○ = M ● = K ● = N ● = S ○ = H

GOLDQUAD SERIES 5G5F 5G6F (9MM INSERT)

HIGH FEED FACE MILL, 4 INDEXES



Cutter Number	D1 Nominal Diameter	Number of Inserts	H Height	D2 Bore Dia.	K Keyway	Ramp Angle	Coolant
5G5F-20R01	2.000	7	1.970	0.750	0.312	n/a	Yes
5G6F-20R01	2.000	6	1.970	0.750	0.312	n/a	Yes
5G5F-25R01	2.500	8	1.970	0.750	0.312	n/a	Yes
5G5F-30R01	3.000	9	2.000	1.000	0.375	n/a	Yes
5G6F-30R01	3.000	7	2.000	1.000	0.375	n/a	Yes

Refer to the new product announcement for detailed programming information.

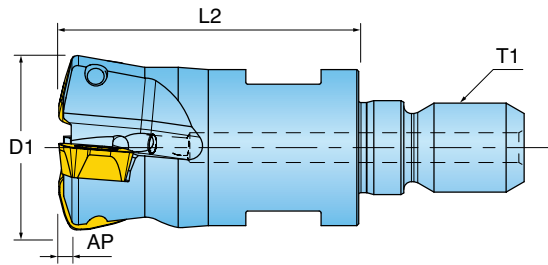
SDXS0904MPR-MM		SDXS0904MPR-MR							
Part Number	Application			Grades	IN2504	IN4005	IN4030	IN4035	IN4040
SDXS0904MPR-MM	Positive Geometry - R								
SDXS0904MPR-MR	Flat Top - Landed Edge - R								

HARDWARE				
	Screw	Driver	Retention Bolt	Coolant Bolt
5G5F-20R01	SM30-075-R0	DS-T09W	SD-06-48	SD-06-A6
5G6F-20R01	SM30-075-R0	DS-T09W	SD-06-48	SD-06-A6
5G5F-25R01	SM30-075-R0	DS-T09W	SD-06-48	SD-06-A6
5G5F-30R01	SM30-075-R0	DS-T09W	SD-08-47	SD08-C9
5G6F-30R01	SM30-075-R0	DS-T09W	SD-08-47	SD08-C9

● = P ● = M ● = K ● = N ● = S ○ = H

GOLD^oQUAD SERIES 15G1F (9MM INSERT)

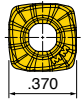
HIGH FEED MODULAR END MILL, 4 INDEXES, INCH CUTTER DIAMETERS (TOPON STYLE)



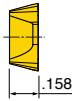
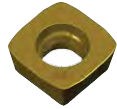
Cutter Number	D1 Nom. Dia.	Number of Inserts	L1 Extension Length	T1 Adaption	Max. Ramp Angle	Wrench Size
15G1F-10015X7R01	1.000	3	1.57	M12	5.5	NA
15G1F-12015X8R02	1.250	4	1.57	M16	3.3	NA

Refer to the new product announcement for detailed programming information.

SDXS0904MPR-MM



SDXS0904MPR-MR



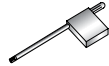
Part Number	Application	Grades				
		IN2504	IN4005	IN4030	IN4035	IN4040
SDXS0904MPR-MM	Positive Geometry - R		●	●	●	
SDXS0904MPR-MR	Flat Top - Landed Edge - R	●	●	●	●	●

HARDWARE



Screw

SM30-075-R0



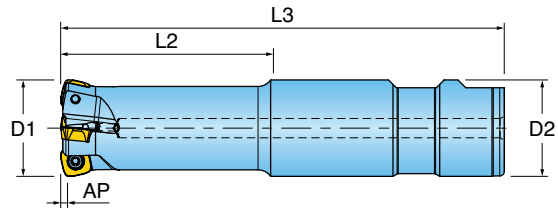
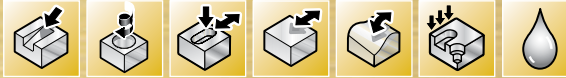
Driver

DS-T09W

● = P ● = M ● = K ● = N ● = S ○ = H

GOLDQUAD SERIES 15G1F (9MM INSERT)

HIGH FEED END MILL WITH 4 INDEXES



Cutter Number	D1 Nom. Dia.	L1 Extension Length	L2 Overall Length	D2 Shank Size/Style	Number of Inserts	Coolant Thru	Max. Ramp Angle
15G1F-10019S1R01	1.000	1.970	7.00	1.000" Cyland.	3	Yes	5.5
15G1F-10020S1R01	1.000	2.000	10.00	1.000" Cyland.	3	Yes	5.5
15G1F-12027E2R01	1.250	2.750	5.75	1.250" Weldon	3	Yes	3.3
15G1F-12027E2R02	1.250	2.750	5.75	1.250" Weldon	4	Yes	3.3
15G1F-12047E2R01	1.250	4.750	7.75	1.250" Weldon	3	Yes	3.3
15G1F-15016E2R01	1.500	1.690	6.00	1.250" Weldon	4	Yes	2.3
15G1F-15016E2R02	1.500	1.690	6.00	1.250" Weldon	5	Yes	2.3

Refer to the new product announcement for detailed programming information.

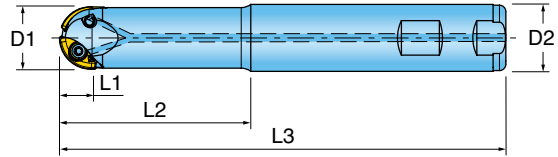
SDXS0904MPR-MM		SDXS0904MPR-MR						
Part Number	Application	Grades	IN2504	IN4005	IN4030	IN4035	IN4040	
SDXS0904MPR-MM	Positive Geometry - R							
SDXS0904MPR-MR	Flat Top - Landed Edge - R							

HARDWARE	
 Screw SM30-075-R0	 Driver DS-T09W

● = P ● = M ● = K ● = N ● = S ● = H

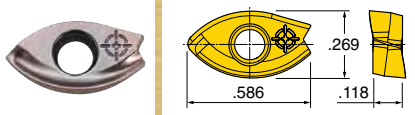
PRO•DUO™ SERIES 1TW7, 1TW8

HEAVY DUTY ROUGHING

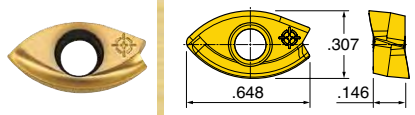


Cutter Number	D1 Nom. Dia.	L1 Max. Depth of Cut	L2 Extension Length	L3 Overall Length	D2 Shank Size/Style	No. of Effective Flutes	Insert Series
1TW7Q-0601379R01	0.625	0.47	1.38	4.75	.625" Weldon	2	NBEU16
1TW8Q-0601357R01	0.625	0.47	1.38	5.00	.750" Cylind.	2	NBEU16
1TW8Q-0601357R02	0.625	0.47	1.38	6.00	.750" Cylind.	2	NBEU16
1TW7J-0702084R01	0.750	0.51	2.00	4.00	.750" Weldon	2	NBEU19
1TW7J-0702084R02	0.750	0.51	2.00	6.00	.750" Weldon	2	NBEU19
1TW8J-0701580R01	0.750	0.51	2.00	6.00	1.000" Weldon	2	NBEU19
1TW8J-0701580R02	0.750	0.51	2.00	7.00	1.000" Weldon	2	NBEU19
1TW7K-1002780R01	1.000	0.69	2.64	5.00	1.000" Weldon	2	NBEU25
1TW7K-1002780R02	1.000	0.69	2.64	6.00	1.000" Weldon	2	NBEU25
1TW8K-1001981R01	1.000	0.69	2.75	6.00	1.250" Weldon	2	NBEU25
1TW8K-1001981R02	1.000	0.69	2.75	7.00	1.250" Weldon	2	NBEU25

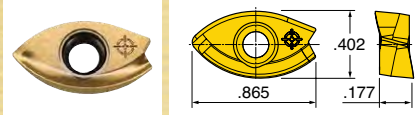
NBEU1603R



NBEU1904R



NBEU25T4R



Part Number	Application	Grades						
			IN2035	IN2504	IN2505	IN2530	IN4005	IN4030
NBEU1603R	Center Cutting - n/a		●	●	●	●	●	●
NBEU1904R	Center Cutting - n/a		●	●	●	●	●	●
NBEU25T4R	Center Cutting - n/a		●	●	●	●	●	●

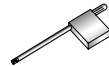
HARDWARE



Screw



Driver



Driver



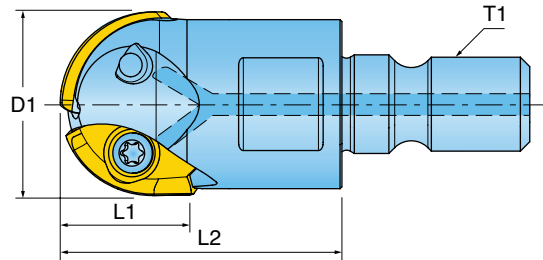
Torx Driver

1TW7Q-0601379R01	SM25-064-00	DS-T08S	-	-
1TW8Q-0601357R01	SM25-064-00	DS-T08S	-	-
1TW8Q-0601357R02	SM25-064-00	DS-T08S	-	-
1TW7J-0702084R01	SM30-072-00	-	DS-T09W	-
1TW7J-0702084R02	SM30-072-00	-	DS-T09W	-
1TW8J-0701580R01	SM30-072-00	-	DS-T09W	-
1TW8J-0701580R02	SM30-072-00	-	DS-T09W	-
1TW7K-1002780R01	SM35-087-70	-	-	DS-T15T
1TW7K-1002780R02	SM35-087-70	-	-	DS-T15T
1TW8K-1001981R01	SM35-087-70	-	-	DS-T15T
1TW8K-1001981R02	SM35-087-70	-	-	DS-T15T

● = P ○ = M ● = K ● = N ● = S ○ = H

PRO•DUO™ SERIES 1TW7 (TOP-ON STYLE)

HEAVY DUTY ROUGHING



Cutter Number	T1 Adaption	D1 Nom. Dia.	L1 Extension Length	L2 Max. Depth of Cut	# Effective	Accepts Inserts
1TW7Q-06012X5R01	M8	0.625	1.00	0.48	2	NBEU16
1TW7J-07014X6R01	M10	0.750	1.18	0.52	2	NBEU19
1TW7K-10017X7R01	M12	1.000	1.38	0.68	2	NBEU25

NBEU1603R		NBEU1904R		NBEU25T4R				
Part Number	Application	Grades	IN2035	IN2504	IN2505	IN2530	IN4005	IN4030
NBEU1603R	Center Cutting - n/a							
NBEU1904R	Center Cutting - n/a							
NBEU25T4R	Center Cutting - n/a							

HARDWARE					
		Screw	Driver	Driver	
1TW7Q-06012X5R01	SM25-064-00	DS-T08S	-	-	
1TW7J-07014X6R01	SM30-072-00	-	DS-T09W	-	
1TW7K-10017X7R01	-	-	-	DS-T15T	

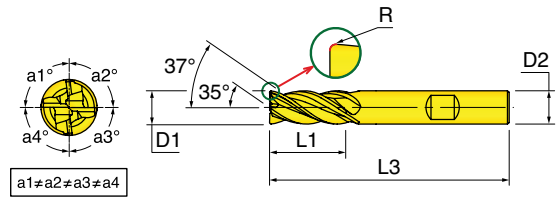
● = P ○ = M ● = K ● = N ● = S ○ = H

Features & Benefits:

- Unique geometry
- Best chatter free tools for high removal rates when machining titanium (up to 2xD full slotting)
- 4 flute endmills with differential helix and variable pitch
- Large variety of corner radii

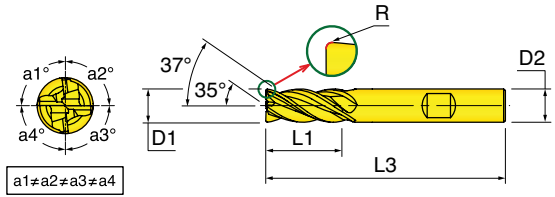
TEKROUNDS™ SERIES 47DRX

4-FLUTE ENDMILLS FOR MACHINING TITANIUM WITH DIFFERENT HELIX, CHAMFERED CUTTING EDGES & VARIABLE PITCH FOR CHATTER DAMPENING.



Cutter Number	Helix (deg)	D1 Diameter	Z Flutes	R Radius	L3 Overall Length	L1 Cut Length	D2 Shank Size/Style
47D00408T7RX570	IN2005	35-37	4mm	4	0.200	57mm	8mm Cylind.
47D00510T7RX570	IN2005	35-37	5mm	4	0.200	57mm	10mm Cylind.
47D00612T7RX570	IN2005	35-37	6mm	4	0.200	57mm	12mm Cylind.
47D00612WERX570	IN2005	35-37	6mm	4	0.200	57mm	12mm Weldon
47D00816WSRX630	IN2005	35-37	8mm	4	0.400	63mm	16mm Cylind.
47D00816ZSRX630	IN2005	35-37	8mm	4	0.400	63mm	16mm Weldon
47D01020T1RX720	IN2005	35-37	10mm	4	0.500	72mm	20mm Cylind.
47D01020W1RX720	IN2005	35-37	10mm	4	0.500	72mm	20mm Weldon
47D01224T2RX830	IN2005	35-37	12mm	4	0.600	73mm	24mm Cylind.
47D01224W2RX830	IN2005	35-37	12mm	4	0.600	73mm	24mm Weldon
47D01632T3RX920	IN2005	35-37	16mm	4	0.800	92mm	32mm Cylind.
47D01632W3RX920	IN2005	35-37	16mm	4	0.800	92mm	32mm Weldon
47D02040T4RX104	IN2005	35-37	20mm	4	1.000	104mm	40mm Cylind.
47D02040W4RX104	IN2005	35-37	20mm	4	1.000	104mm	40mm Weldon

4-FLUTE ENDMILLS FOR MACHINING TITANIUM WITH DIFFERENT HELIX, CHAMFERED CUTTING EDGES & VARIABLE PITCH FOR CHATTER DAMPENING.



Cutter Number	Material	Helix (deg)	D1 Diameter	Z Flutes	R Radius	L3 Overall Length	L1 Cut Length	D2 Shank Size/Style
47D-3775R8RX02	IN2005	35-37	0.375	4	0.020	3.00	0.75	.375" Cylind.
47D-377577RX02	IN2005	35-37	0.375	4	0.020	3.00	0.75	.375" Weldon
47D-3775R8RX09	IN1005	35-37	0.375	4	0.090	3.00	0.75	.375" Cylind.
47D-5010S4RX02	IN2005	35-37	0.500	4	0.023	3.00	1.00	.500" Cylind.
47D-501078RX02	IN2005	35-37	0.500	4	0.023	3.00	1.00	.500" Weldon
47D-5010S4RX12	IN1005	35-37	0.500	4	0.120	3.00	1.00	.500" Cylind.
47D-6212S6RX02	IN2005	35-37	0.625	4	0.030	3.50	1.25	.625" Cylind.
47D-621279RX02	IN2005	35-37	0.625	4	0.030	3.50	1.25	.625" Weldon
47D-6212S6RX12	IN1005	35-37	0.625	4	0.120	3.00	1.25	.625" Cylind.
47D-6212S6RX25	IN1005	35-37	0.625	4	0.250	3.00	1.25	.625" Cylind.
47D-7515S7RX04	IN2005	35-37	0.750	4	0.040	4.00	1.50	.750" Cylind.
47D-751584RX04	IN2005	35-37	0.750	4	0.040	4.00	1.50	.750" Weldon
47D-7515S7RX06	IN1005	35-37	0.750	4	0.060	4.00	1.50	.750" Cylind.
47D-7515S7RX12	IN1005	35-37	0.750	4	0.120	4.00	1.50	.750" Cylind.
47D-7515S7RX25	IN1005	35-37	0.750	4	0.250	4.00	1.50	.750" Cylind.

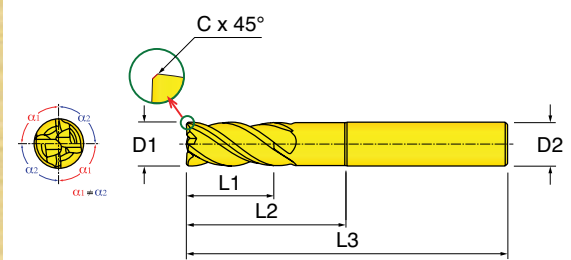
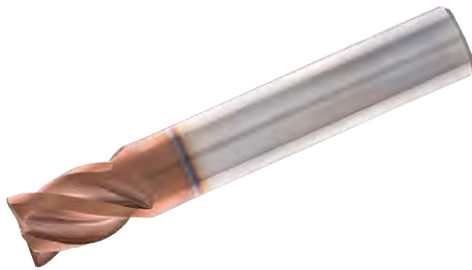
HYPERROUNDS™

Features & Benefits:

- Designed for very high material removal rates and roughing and finishing operations
- Capable of machining full slots of up to 1xD
- Tough submicron substrate with a hard PVD coating that provides substantially improved tool life and reliability
- Recommended for hardened steel and milling alloy steel at moderate to high cutting speeds

HYPERROUNDS™ SERIES 47C_RQ

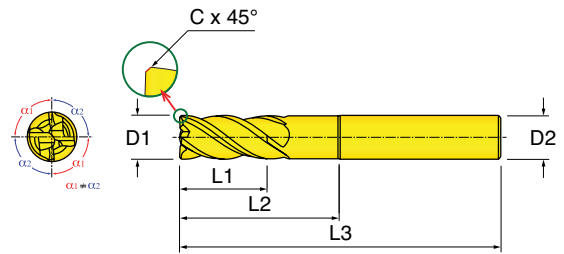
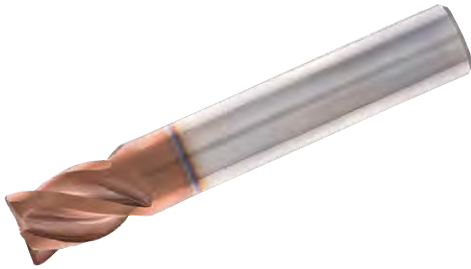
ECO SHORT, 4 FLUTE ENDMILLS WITH DIFFERENT HELIX (35° & 37°) AND VARIABLE PITCH FOR CHATTER DAMPENING. USED FOR VERY HIGH MATERIAL REMOVAL RATES.



Cutter Number	Helix (deg)	D1 Diameter	Z Flutes	C Chamfer	L3 Overall Length	L1 Cut Length	D2 Shank Size/Style	
47C-1212R4RQ00	IN2505	35-37	0.125	4	.006x45deg	1.50	0.125	.125" Cylind.
47C-1818R5RQ00	IN2505	35-37	0.187	4	.008x45deg	2.00	0.188	.188" Cylind.
47C-2525R6RQ01	IN2505	35-37	0.250	4	.010x45deg	2.00	0.250	.250" Cylind.
47C-3131R7RQ01	IN2505	35-37	0.312	4	.012x45deg	2.00	0.312	.312" Cylind.
47C-3737R8RQ01	IN2505	35-37	0.375	4	.016x45deg	2.00	0.375	.375" Cylind.
47C-373777RQ01	IN2505	35-37	0.375	4	.016x45deg	2.00	0.375	.375" Weldon
47C-5050S4RQ02	IN2505	35-37	0.500	4	.020x45deg	3.00	0.500	.500" Cylind.
47C-505078RQ02	IN2505	35-37	0.500	4	.020x45deg	3.00	0.500	.500" Weldon
47C-6262S6RQ02	IN2505	35-37	0.625	4	.023x45deg	3.00	0.625	.625" Cylind.
47C-626279RQ02	IN2505	35-37	0.625	4	.023x45deg	3.00	0.625	.625" Weldon
47C-7575S7RQ02	IN2505	35-37	0.750	4	.023x45deg	4.00	0.750	.750" Cylind.
47C-757584RQ02	IN2505	35-37	0.750	4	.023x45deg	4.00	0.750	.750" Weldon
47C-1010S1RQ02	IN2505	35-37	1.000	4	.023x45deg	4.00	1.000	1.000" Cylind.
47C-101080RQ02	IN2505	35-37	1.000	4	.023x45deg	4.00	1.000	1.000" Weldon

HYPERROUNDS™ SERIES 47CRQ

ECO SHORT, 4 METRIC FLUTE ENDMILLS WITH DIFFERENT HELIX (35° & 37°) AND VARIABLE PITCH. USED FOR VERY HIGH MATERIAL REMOVAL RATES.



Cutter Number		Helix (deg)	D1 Diameter	Z Flutes	C Chamfer	L3 Overall Length	L1 Cut Length	D2 Shank Size/Style
47C00606T7RQ25	IN2505	35-37	6mm	4	.25x45deg	50.00	6.000	6mm Cylind.
47C00606WERQ25	IN2505	35-37	6mm	4	.25x45deg	50.00	6.000	6mm Weldon
47C00808T0RQ30	IN2505	35-37	8mm	4	.3x45deg	63.00	8.000	8mm Cylind.
47C00808W0RQ30	IN2505	35-37	8mm	4	.3x45deg	63.00	8.000	8mm Weldon
47C01010T1RQ40	IN2505	35-37	10mm	4	.4x45deg	66.00	10.000	10mm Cylind.
47C01010W1RQ40	IN2505	35-37	10mm	4	.4x45deg	66.00	10.000	10mm Weldon
47C01212T2RQ50	IN2505	35-37	12mm	4	.5x45deg	73.00	12.000	12mm Cylind.
47C01212W2RQ50	IN2505	35-37	12mm	4	.5x45deg	73.00	12.000	12mm Weldon
47C01616T3RQ60	IN2505	35-37	16mm	4	.6x45deg	82.00	16.000	16mm Cylind.
47C01616W3RQ60	IN2505	35-37	16mm	4	.6x45deg	82.00	16.000	16mm Weldon
47C02020T4RQ60	IN2505	35-37	20mm	4	.6x45deg	92.00	20.000	20mm Cylind.
47C02020W4RQ60	IN2505	35-37	20mm	4	.6x45deg	92.00	20.000	20mm Weldon

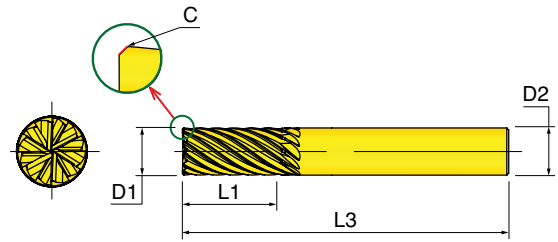
HYPERROUNDS™

Features & Benefits:

- Different helix and variable pitch, for a chatter free effect
- Special geometry - most recommended for high speed / trochoidal machining on most material types
- Low cutting forces
- Excellent for finishing operations
- Unique flute geometry provides good surface finish

HYPERROUNDS™ SERIES 48/49C_RQ

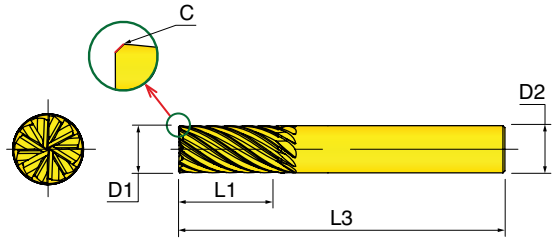
6- 20 FLUTE SOLID CARBIDE ENDMILLS WITH DIFFERENT HELIX AND VARIABLE PITCH, FOR CHATTERFREE HIGH SPEED FINISH MILLING



Cutter Number	Helix (deg)	D1 Diameter	Z Flutes	C Corner	L3 Overall Length	L1 Cut Length	D2 Shank Size/Style
48C-2550R6RQ00 IN2003	45	0.250	6	.007x45deg	2.10	0.50	.250" Cylind.
49C-3163R7RQ00 IN2003	45	0.312	8	.007x45deg	2.50	0.63	.312" Cylind.
49C-3775R8RQ00 IN2003	35	0.375	10	.007x45deg	3.00	0.75	.375" Cylind.
49C-5010S4RQ00 IN2003	35	0.500	12	.011x45deg	3.50	1.00	.500" Cylind.
49C-6212S6RQ00 IN2003	35	0.625	16	.011x45deg	4.00	1.25	.625" Cylind.
49C-7515S7RQ00 IN2003	35	0.750	20	.015x45deg	5.00	1.50	.750" Cylind.

HYPER® ROUNDS™ SERIES 48C/49CRQ

6- 20 FLUTE SOLID CARBIDE ENDMILLS WITH DIFFERENT HELIX AND VARIABLE PITCH, FOR CHATTERFREE HIGH SPEED FINISH MILLING



Cutter Number		Helix (deg)	D1 Diameter	Z Flutes	C Corner	L3 Overall Length	L1 Cut Length	D2 Shank Size/Style
48C00612T7RQ00	IN2003	45	6mm	6	.25x45deg	57.00	12.00	6mm Cylind.
49C00816T0RQ00	IN2003	45	8mm	8	.25x45deg	63.00	16.00	8mm Cylind.
49C01020T1RQ00	IN2003	45	10mm	10	.3x45deg	72.00	20.00	10mm Cylind.
49C01224T2RQ00	IN2003	45	12mm	12	.3x45deg	83.00	24.00	12mm Cylind.
49C01632T3RQ00	IN2003	45	16mm	16	.3x45deg	92.00	32.00	16mm Cylind.
49C02040T4RQ00	IN2003	45	20mm	20	.4x45deg	104.00	40.00	20mm Cylind.

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