



TAKE AIM

**Now With 75 New Items to Maximize
Your Milling Performance**

YG-1 BEST VALUE IN THE WORLD OF CUTTING TOOLS

INSERT MILLING SOLUTIONS AND KITS

YG-1 Indexable Insert Milling Solutions

Now With 75 New Items to Maximize Your Milling Performance Cut your toughest materials – and production costs – with high-performance YG-1 milling kits in six convenient geometries. Stay in the thick of tough milling with our new thicker designed, high-feed ENMX insert kits. And make the most of modular milling with our new economical modular endmill kits. Each kit contains the cutter body and inserts you need to hit those higher performance targets. And all kits come with this rugged ammo box as part of the package! Order yours today and score a bulls-eye for performance and value.

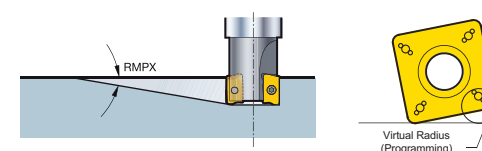
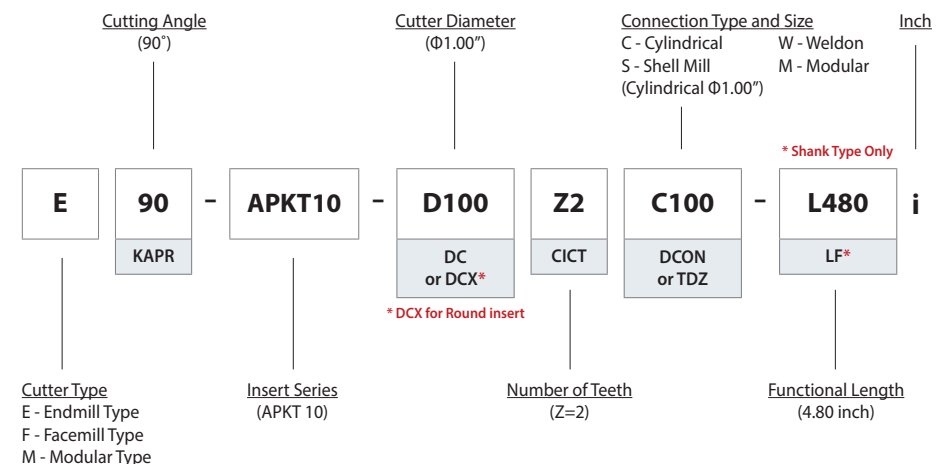
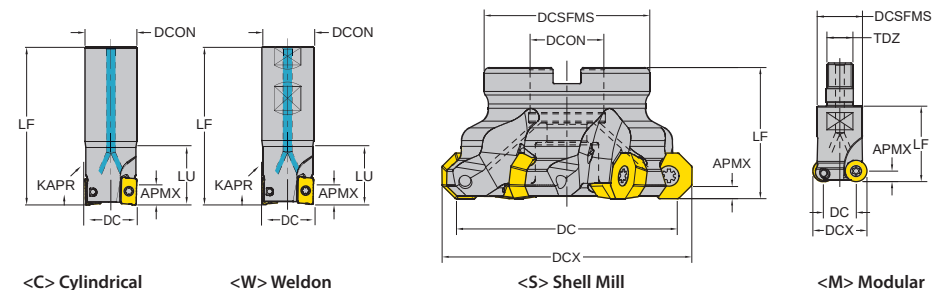
All kit orders include this ammo box.



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Milling Inserts - Cutters Designation Systems

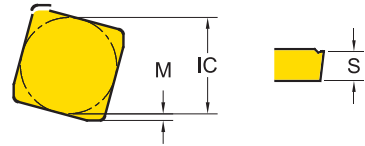


Attribute	Definition
APMX	Depth of cut maximum
APMXR	Maximum depth of cut - radial plunge
CICT	Cutting item count
DC	Cutting diameter
DCON	Connection diameter
DCSFMS	Contact surface diameter machine side
DCX	Maximum cutting diameter
KAPR	Tool cutting edge angle
LF	Functional length
LU	Usable length (max. recommended)
RMPX	Maximum ramp angle
TDZ	Thread diameter size

Milling - Code System

Insert Code System

1 A Shape	2 P Relief Angle (AN)	3 K Tolerance	4 T Clamping & Chipbreaker	5 16 Insert Size	6 04 Insert Thickness (S)	7 08 Corner Radius	8 (PDTR) Corner Geometry	9 -TR Chipbreaker	10 YG602 Grade
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1 - Shape

Symbol	Shape	
O	Octagonal	
S	Square	
A	Parallelogram 80°	
R	Round	
E	Parallelogram	

2 - Relief Angle (AN)

Symbol	Relief Angle (AN)	
N	No Relief Angle	
P	Relief 11°	
D	Relief 15°	
E	Relief 20°	

3 - Tolerance Class

Symbol	Inner Circle IC (inch)	Nose Height M (inch)	Thickness S (inch)
K	±.002~.006	±.0005	±.005
M	±.002~.006	±.003~.010	±.005
G	±.001	±.001	±.005

4 - Clamping & Chipbreaker

Symbol	Clamping	Chipbreaker	Figure
W	Screw Hole	X	
T		One Face	
X		Special	

5 - Insert Size

* No Standard for milling insert size

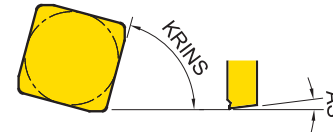
6 - Insert Thickness

* No Standard for milling insert thickness

7 - Corner Radius (RE) Symbol = 0.1mm(08 = 0.8mm = .031")

Symbol	Corner Radius - RE (inch)	Symbol	Corner Radius - RE (inch)
04	.016	16	.063
05	.020	20	.079
08	.031	24	.094
12	.047		

8 - Corner Geometry



8-1 P Cutting Edge Angle (KRINS)	8-2 D Wiper Edge Clearance (AS)	8-3 T Edge Condition	8-4 R Feed Direction
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8-1 - Cutting Edge Angle (KRINS)

Symbol	Cutting Edge Angle (KRINS)
P	90°
A	45°

8-3 - Edge Condition

Symbol	Cutting Edge Condition	
F	Sharp	
T	Chamfered	

8-2 - Wiper Edge Clearance (AS)

Symbol	Wiper Edge Clearance (AS)
N	0°
D	15°
E	20°

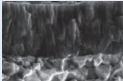
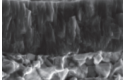
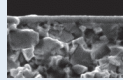
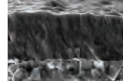
8-4 - Feed Direction

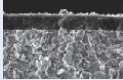
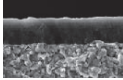
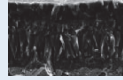
Symbol	Cutting Feed Direction	
R	Right-hand Insert	
N	Neutral Insert	

9 - Insert Grade

Milling Grades		P Steel					M Stainless Steel				K Cast Iron				N Non Ferrous				S Super Alloy			
		P05	P15	P25	P35	P45	M05	M15	M25	M35	K05	K15	K25	K35	N05	N15	N25	N35	S05	S15	S25	S35
PVD	YG602			602					602				602						602			
	YG622			622									622									
	YG2002														2002							
	YG712			712																		
	YG713			713																		
	YG613				613				613												613	
CVD	YG5020											5020										
Uncoated	YG50														50							

Milling Grades

YG602 P20 - P35 M20 - M40 K20 - K40 S15 - S25	PVD - TiAlN 	General purpose grade for milling applications - First choice in general purpose milling applications - Ultra dense PVD coating with optimal thermal resistance & strength - Sub-micron substrate designed for demanding application - Excellent choice for all materials
YG622 P20 - P35 K20 - K40	PVD - TiAlN 	General purpose grade for demanding milling applications - Excellent grade for the toughest and most demanding conditions. - PVD coated with superior adhesion and edge strength - Designed specifically for alloyed steels (die/mold) and unstable conditions - Excellent choice in cast iron
YG2002 N05 - N35 YG500	PVD - CrN 	Optimized grade for aluminum - Sub-micron substrate designed for aluminum application - With unique PVD coating
YG712 P10 - P30	PVD - TiAlCrN 	NEW - high speed milling grade for steel applications - YG-1's newest grade for the demands of high speed machining - The high hardness coating technology provides excellent wear and heat resistance without compromising the toughness in steel

YG713 P15 - P25 H20 - H30	PVD - TiAlN 	Milling grade for general steel only application - Multi-layer TiAlN structure realizes stronger crater and flank wear resistance - Fine-grained carbide and balanced substrate - Perfectly designed to dominate toughest in your steel applications
YG613 P30 - P50 M30 - M40	PVD - TiAlN 	Milling grade developed for steels, stainless steels and super alloys - New coating layer with high toughness and lubrication on ultra fine grain substrate with high toughness. - The toughest substrates provides excellent cutting performance in stainless steel - NEW - enhanced performance in stainless steels and steel applications
YG5020 K1 - K30	CVD TiCN - Al ₂ O ₃ 	CVD milling grade for cast iron - CVD coating for excellent wear resistance - Improved toughness for chipping resistance
YG50 N05 - N20	Uncoated 	Uncoated milling grade for aluminium - Submicron carbide substrate for high wear resistance - Preventing built up edge with shining surface

10 - Milling Chipbreakers

P	M	K	N	S	H		
			N			-AL	 - For Aluminum - Very Sharp Geometry
	M			S		-ST	 - For Stainless Steel, Super Alloy - Sharp Geometry
P	M	K				General Inserts (No Description)	 First Choice for General Application
P		K				-TR	 - For Hardened Steels - Reinforced Geometry
P		K			H	...W / ...N	 For Hardened Material and Cast Irons

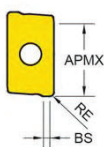
Don't Fall for a Decoy – Get the Real McCoy and Get More

YG-1's proven APKT Series gives you the best value in 90-degree milling. From 5/8" to 4.0", seeing is believing. Select from the pre-made KITS or if you need a different insert radius or are cutting aluminum, just mention you would like to select a different insert for your kit at no additional cost. YG-1 KITS – cost effective, flexible.



Milling - Inserts APKT 10, 16-2 Corner Positive

- 90 degree shoulder
- Excellent performance for your square shoulder applications in steel, stainless, cast iron and aluminum
- Select from our vast number of inserts specific to your application



Kit Part Number	Tool Description	Insert	Qty
Kit EM 0.625x.625-10	E90-APKT10-D0625Z2W0625-L325I	APKT100305PDTR YG602	10
Kit EM 0.750x.750-10	E90-APKT10-D075Z3W075-L320I	APKT100305PDTR YG602	10
Kit EM 1.00x1.00-10	E90-APKT10-D100Z4W100-L350I	APKT100305PDTR YG602	10
Kit EM1.00x.75-10	E90-APKT10-D100Z4C075-L350I	APKT100305PDTR YG602	10
Kit FM 1.50-4FL-10	F90-APKT10-D150Z4S075I	APKT100305PDTR YG602	10
Kit FM 2.00-7FL-10	F90-APKT10-D200Z7S075I	APKT100305PDTR YG602	20
Kit EM 1.00x1.00-16	E90-APKT16-D100Z2W100-L400I	APKT160408PDTR YG602	10
Kit EM 1.25x1.00-16	E90-APKT16-D125Z3W100-L400I	APKT160408PDTR YG602	10
Kit FM 2.00-5FL-16	F90-APKT16-D200Z5S075I	APKT160408PDTR YG602	20
Kit FM 2.50-6FL-16	F90-APKT16-D250Z6S075I	APKT160408PDTR YG602	20
Kit FM 3.00-7FL-16	F90-APKT16-D300Z7S100I	APKT160408PDTR YG602	20
Kit FM 4.00-8FL-16	F90-APKT16-D400Z8S150I	APKT160408PDTR YG602	20

All kit orders include this ammo box.



EDP	Holder Description	Insert Class	Type	CIC	DC	DCX	LF	DCON	LU	DCSFMS	KAPR	RMPX
17000144	E90-APKT10-D0625Z2W0625-L325I	AP.10	W	2	0.625	0.63	3.25	0.625	1.00	0.63	90	7.0
17000146	E90-APKT10-D075Z3W075-L320I	AP.10	W	3	0.750	0.75	3.20	0.750	1.22	0.75	90	3.5
17000149	E90-APKT10-D100Z4C075-L350I	AP.10	C	4	1.000	1.00	3.50	0.750	----	0.75	90	1.8
17000148	E90-APKT10-D100Z4W100-L350I	AP.10	W	4	1.000	1.00	3.50	1.000	1.22	1.00	90	1.8
17000150	F90-APKT10-D150Z4S075I	AP.10	S	4	1.500	1.50	1.75	0.750	----	1.38	90	1.0
17000151	F90-APKT10-D200Z7S075I	AP.10	S	7	2.000	2.00	1.75	0.750	----	1.58	90	0.7
17000158	E90-APKT16-D100Z2W100-L400I	AP.16	W	2	1.000	1.00	4.00	1.000	1.22	1.00	90	5.4
17000208	E90-APKT16-D100Z2W100-L1000I**	AP.16	W	2	1.000	1.00	10.00	1.000	1.22	1.00	90	5.4
17000090	E90-APKT16-D125Z3C100-L428I*	AP.16	C	3	1.250	1.25	4.28	1.000	----	1.00	90	3.9
17000159	E90-APKT16-D125Z3W100-L400I	AP.16	W	3	1.250	1.25	4.00	1.000	----	1.00	90	3.9
17000205	E90-APKT16-D125Z3W125-L1000I**	AP.16	W	3	1.250	1.25	10.00	1.250	1.22	1.25	90	3.9
17000160	F90-APKT16-D200Z5S075I	AP.16	S	5	2.000	2.00	1.75	0.750	----	1.58	90	NR
17000161	F90-APKT16-D250Z6S075I	AP.16	S	6	2.500	2.50	2.00	0.750	----	2.01	90	NR
17000162	F90-APKT16-D300Z7S100I	AP.16	S	7	3.000	3.00	2.00	1.000	----	2.24	90	NR
17000207	F90-APKT16-D400Z8S150I	AP.16	S	8	4.000	4.00	2.00	1.000	----	3.00	90	NR

*While Supplies Last. ** Modifiable shanks by customer

Continued

For more application information please see pages 6 and 7

Milling - Inserts *continued*

APKT 10, 16-2 Corner Positive

	EDP	Insert Description	Grade	Series	RE	APMX	fz (min)	fz (max)	Application
	12000235	APKT100305-AL-YG2002 (10pcs/Pack)	YG2002	APKT10	0.020	0.315	0.0030	0.0200	-AL Aluminum
NEW	12000632	APKT100308PDTR-YG713 (10pcs/Pack)	YG713	APKT10	0.031	0.315	0.0030	0.0060	General Steel Only
NEW	12000638	APKT100305PDTR-YG713 (10pcs/Pack)	YG713	APKT10	0.020	0.315	0.0020	0.0055	General Steel Only
NEW	12000610	APKT100308PDTR-YG613 (10pcs/Pack)	YG613	APKT10	0.031	0.315	0.0030	0.0060	General Steel/Stainless/Hi-Toughness
NEW	12000672	APKT100305PDTR-YG613 (10pcs/Pack)	YG613	APKT10	0.020	0.315	0.0020	0.0055	General Steel/Stainless/Hi-Toughness
	12000005	APKT1003PDTR-YG602 (10pcs/Pack)	YG602	APKT10	0.020	0.315	0.0030	0.0055	General/Multi Material
	12000004	APKT100308PDTR-YG602 (10pcs/Pack)	YG602	APKT10	0.031	0.315	0.0030	0.0055	General/Multi Material
NEW	12000429	APKT100305PDTR-YG622 (10pcs/Pack)	YG622	APKT10	0.020	0.315	0.0020	0.0055	General/Steel and Cast Iron
NEW	12000430	APKT100308PDTR-YG622 / (10pcs/Pack)	YG622	APKT10	0.031	0.315	0.0030	0.0060	General/Steel and Cast Iron
	12000278	APKT100305-ST-YG602 (10pcs/Pack)	YG602	APKT10	0.020	0.315	0.0020	0.0060	-ST Stainless Steel/Steel
NEW	12000618	APKT100305-ST-YG613 (10pcs/Pack)	YG613	APKT10	0.020	0.315	0.0020	0.0055	-ST Stainless Steel/Steel
	12000236	APKT160408-AL-YG2002 (10pcs/Pack)*	YG2002	APKT16	0.031	0.630	0.0030	0.0200	-AL Aluminum
NEW	12000428	APKT160408-AL-YG50 (10pcs/PACK)	YG50	APKT16	0.032	0.630	0.0030	0.0200	-AL Aluminum/Ground-Polished
NEW	12000633	APKT160408PDTR-YG713 (10pcs/PACK)	YG713	APKT16	0.031	0.630	0.0030	0.0080	General Steel Only
NEW	12000649	APKT160412PDTR-YG713 (10pcs/PACK)	YG713	APKT16	0.047	0.630	0.0030	0.0080	General Steel Only
NEW	12000653	APKT160424PDTR-YG713 (10pcs/PACK)	YG713	APKT16	0.094	0.630	0.0030	0.0080	General Steel Only
NEW	12000656	APKT160404PDTR-YG713 (10pcs/PACK)	YG713	APKT16	0.016	0.630	0.0030	0.0080	General Steel Only
NEW	12000661	APKT160416PDTR-YG713 (10pcs/PACK)	YG713	APKT16	0.062	0.630	0.0030	0.0080	General Steel Only
NEW	12000607	APKT160408PDTR-YG613 (10pcs/PACK)	YG613	APKT16	0.031	0.630	0.0030	0.0080	General Steel/Stainless/Hi-Toughness
	12000001	APKT1604PDTR-YG602 (10pcs/Pack)	YG602	APKT16	0.031	0.630	0.0035	0.0079	General/Multi Material
	12000003	APKT160404PDTR-YG602 (10pcs/Pack)	YG602	APKT16	0.016	0.630	0.0035	0.0079	General/Multi Material
	12000002	APKT160412PDTR-YG602 (10pcs/Pack)	YG602	APKT16	0.047	0.630	0.0035	0.0079	General/Multi Material
	12000006	APKT160416PDTR-YG602 (10pcs/Pack)	YG602	APKT16	0.062	0.630	0.0035	0.0079	General/Multi Material
	12000255	APKT160424PDTR-YG602 (10pcs/Pack)	YG602	APKT16	0.094	0.630	0.0035	0.0079	General/Multi Material
	12000270	APKT160408-ST-YG602 (10pcs/Pack)	YG602	APKT16	0.031	0.630	0.0030	0.0080	-ST Stainless Steel/Steel
NEW	12000617	APKT160408-ST-YG613 (10pcs/PACK)	YG613	APKT16	0.031	0.630	0.0030	0.0080	-ST Stainless Steel/Steel
	12000492	APKT160404-TR-YG602 (10pcs/Pack)	YG602	APKT16	0.016	0.630	0.0050	0.0100	-TR Hardened Steel/Protected Edge
	12000256	APKT160408-TR-YG602 (10pcs/Pack)	YG602	APKT16	0.031	0.630	0.0055	0.0100	-TR Hardened Steel/Protected Edge
	12000493	APKT160412-TR-YG602 (10pcs/Pack)	YG602	APKT16	0.047	0.630	0.0055	0.0100	-TR Hardened Steel/Protected Edge
	12000472	APKT160416-TR-YG602 (10pcs/Pack)	YG602	APKT16	0.062	0.630	0.0055	0.0100	-TR Hardened Steel/Protected Edge
	12000494	APKT160424-TR-YG602 (10pcs/Pack)	YG602	APKT16	0.094	0.630	0.0055	0.0100	-TR Hardened Steel/Protected Edge
	12000505	APKT160404-TR-YG622 (10pcs/Pack)	YG622	APKT16	0.016	0.630	0.0055	0.0110	-TR Hardened Steel and Cast Iron
	12000337	APKT160408-TR-YG622 (10pcs/Pack)	YG622	APKT16	0.031	0.630	0.0055	0.0110	-TR Hardened Steel and Cast Iron
NEW	12000520	APKT160424-TR-YG622 (10pcs/PACK)	YG622	APKT16	0.094	0.630	0.0055	0.0100	-TR Hardened Steel and Cast Iron
NEW	12000523	APKT160412-TR-YG622 (10pcs/PACK)	YG622	APKT16	0.047	0.630	0.0055	0.0110	-TR Hardened Steel and Cast Iron
NEW	12000524	APKT160416-TR-YG622 (10pcs/PACK)	YG622	APKT16	0.062	0.630	0.0055	0.0110	-TR Hardened Steel and Cast Iron

*While supplies last

APKT 10 Screw: TP082505 Wrench: JS0008

APKT 16 Screw: TP154008 Wrench: JS2015

For more application information please see pages 6 and 7

Blow Away The Competition In Tough Materials

- Cast iron
- Carbon steel
- Alloy steel
- Hardened steel
- Stainless steel and super alloys new with YG613



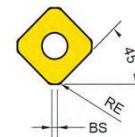
On-Target for Higher Performance

For tough carbide performance that hits the mark every time, YG-1's SEKT Series is on target to be your No. 1 choice in 45-degree milling performance. Lets you handle a wide range of milling operations from general purpose steels and stainless to cast iron and aluminum, with precision and ease. Choose from any of our 9 pre-made KITS with general purpose inserts, or if you prefer you may request either of the other 2 styles for stainless steel or aluminum at no additional cost.



Milling – Inserts SEKT 12 – 4-Corner Positive Geometry

- Advanced geometry provides excellent 45-degree cutting performance
- Designed for semi-finishing to heavy milling
- 3 Insert geometries for optimizing performance in steel/iron, stainless steel and aluminum



Kit Part Number	Tool Description	Insert	Qty
Kit F45-SEKT-D150Z4	F45-SEKT12-D150Z4S050i	SEKT1204AFTN YG602	10
Kit F45-SEKT-D200Z5	F45-SEKT12-D200Z5S075i	SEKT1204AFTN YG602	10
Kit F45-SEKT-D250Z4	F45-SEKT12-D250Z4S075i	SEKT1204AFTN YG602	10
Kit F45-SEKT-D250Z6	F45-SEKT12-D250Z6S075i	SEKT1204AFTN YG602	20
Kit F45-SEKT-D300Z4	F45-SEKT12-D300Z4S100i	SEKT1204AFTN YG602	20
Kit F45-SEKT-D300Z7	F45-SEKT12-D300Z7S100i	SEKT1204AFTN YG602	20
Kit F45-SEKT-D400Z8	F45-SEKT12-D400Z8S125i	SEKT1204AFTN YG602	20
Kit F45-SEKT-D500Z10	F45-SEKT12-D500Z10S150i	SEKT1204AFTN YG602	30
Kit F45-SEKT-D600Z12	F45-SEKT12-D600Z12S200i	SEKT1204AFTN YG602	30

All kit orders include this ammo box.



EDP	Holder Description	Insert Class	Type	ClT	DC	DCX	LF	DCON	LU	DCSFMS	KAPR	RMPX
17000060	F45-SEKT12-D150Z4S050i	SE..12	S	4	1.500	2.11	1.58	0.500	----	1.26	45	NR
17000061	F45-SEKT12-D200Z5S075i	SE..12	S	5	2.000	2.50	1.58	0.750	----	1.77	45	NR
17000062	F45-SEKT12-D250Z4S075i	SE..12	S	4	2.500	3.00	1.58	0.750	----	2.00	45	NR
17000063	F45-SEKT12-D250Z6S075i	SE..12	S	6	2.500	3.00	1.58	0.750	----	2.01	45	NR
17000064	F45-SEKT12-D300Z4S100i	SE..12	S	4	3.000	3.68	1.75	1.000	----	2.25	45	NR
17000065	F45-SEKT12-D300Z7S100i	SE..12	S	7	3.000	3.68	1.75	1.000	----	2.25	45	NR
17000066	F45-SEKT12-D400Z8S125i	SE..12	S	8	4.000	4.47	2.00	1.250	----	3.00	45	NR
17000067	F45-SEKT12-D500Z10S150i	SE..12	S	10	5.000	5.46	2.38	1.500	----	3.65	45	NR
17000068	F45-SEKT12-D600Z12S200i	SE..12	S	12	6.000	6.84	2.38	2.000	----	4.70	45	NR

EDP	Insert Description	Grade	Series	RE	APMX	fz (min)	fz (max)	Application
12000237	SEKT1204-AL-YG2002 (10pcs/Pack)*	YG2002	SEKT1204	0.043	0.236	0.0020	0.0220	-AL Aluminum
NEW 12000467	SEGT1204-AL-YG50 (10pcs/Pack)	YG50	SEKT1204	0.043	0.236	0.0020	0.0220	-AL Aluminum/Ground-Polished
12000055	SEKT1204AFTN-YG602 (10pcs/Pack)	YG602	SEKT1204	0.043	0.236	0.0040	0.0090	General/Multi Material
NEW 12000416	SEKT1204AFTN-YG622 (10pcs/Pack)	YG622	SEKT1204	0.043	0.236	0.0030	0.0090	General/Steel and Cast Iron
12000257	SEKT1204-ST-YG602 (10pcs/Pack)	YG602	SEKT1204	0.043	0.236	0.0030	0.0090	-ST Stainless Steel

*While supplies last

Screw: TP204510 Wrench: J53020

For more application information please see pages 6 and 7

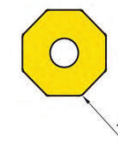
High Velocity Cutting Performance for Lower Cost Per Corner

YG-1 ODMT Series Facemill is built for performance. Your best value in face milling, and chamfering, the ODMT Series features eight cutting edges for a depth of cut (D.O.C.) up to .138". A performer in steel and cast iron, YG-1 ODMT beats the competition at every turn – *for less*.



Milling – Inserts ODMT / ODMW – 8-Corner Positive

- 43 degree cutting angle
- 8-corner configuration for maximum chip removal economy



Kit Part Number	Tool Description	Insert	Qty
Kit F43-ODMT-D250Z5	F43-ODMT06-D250Z5075i	ODMT060508 YG602	10
Kit F43-ODMT-D300Z6	F43-ODMT06-D300Z6S100i	ODMT060508 YG602	20
Kit F43-ODMT-D400Z7	F43-ODMT06-D400Z7S125i	ODMT060508 YG602	20
Kit F43-ODMT-D500Z8	F43-ODMT06-D500Z8S150i	ODMT060508 YG602	30

All kit orders
include this ammo box.



EDP	Holder Description	Insert Class	Type	CIC	DC	DCX	LF	DCON	LU	DCSFMS	KAPR	RMPX
17000040	F43-ODMT06-D250Z5075i	OD..06	S	5	2.500	2.88	1.58	0.750	----	2.01	43	NR
17000041	F43-ODMT06-D300Z6S100i	OD..06	S	6	3.000	3.55	1.75	1.000	----	2.25	43	NR
17000042	F43-ODMT06-D400Z7S125i	OD..06	S	7	4.000	4.34	2.00	1.250	----	3.00	43	NR
17000043	F43-ODMT06-D500Z8S150i	OD..06	S	8	5.000	5.32	2.38	1.500	----	3.65	43	NR

	EDP	Insert Description	Grade	Series	RE	APMX	fz (min)	fz (max)	Application
NEW	12000659	ODMT060508-YG713 (10pcs/Pack)	YG713	ODMT06	0.031	0.138	0.0050	0.0120	General Steel Only
NEW	12000675	ODMT060508-YG613 (10pcs/Pack)	YG613	ODMT06	0.031	0.138	0.0050	0.0120	General Steel/Hi-Toughness
	12000030	ODMT060508-YG602 (10pcs/Pack)	YG602	ODMT06	0.031	0.138	0.0050	0.0120	General/Multi Material
	12000031	ODMW060508-YG602 (10pcs/Pack)	YG602	ODMW06	0.031	0.138	0.0060	0.0140	General/Multi Material

Screw : TP205013 Wrench : JS3020

For more application information please see pages 6 and 7

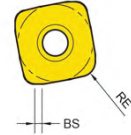
Discover Higher Caliber Cutting Performance

When it comes to high performance cutting ability, the SDMT series blows the competition away. From super stainless to mold steels, the SDMT line-up provides exceptional milling performance. YG-1's SDMT inserts are backed up by a NEW stronger, longer lasting stainless steel cutter body giving you the reliability for those longer run times between insert changes.



Milling – Inserts SDMT/W – 4-Corner Square High Feed

- Coated carbide for superior wear resistance
- High-feed and high-speed geometries for outstanding performance
- Cost-effective, multipurpose solution



Kit Part Number	Tool Description	Insert	Qty
Kit HF-SDMW-D200Z5	FHF-SD1204-D200Z5S075i	SDMT120420-ST YG602-T2	10
Kit HF-SDMW-D250Z5	FHF-SD1204-D250Z5S100i	SDMT120420-ST YG602-T2	10
Kit HF-SDMW-D300Z5	FHF-SD1204-D300Z5S100i	SDMT120420-ST YG602-T2	20
Kit HF-SDMW-D300Z7	FHF-SD1204-D300Z7S100i	SDMT120420-ST YG602-T2	20
Kit HF-SDMW-D400Z7	FHF-SD1204-D400Z7S150i	SDMT120420-ST YG602-T2	30
Kit HF-SDMW-D400Z9	FHF-SD1204-D400Z9S150i	SDMT120420-ST YG602-T2	30

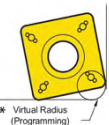
All kit orders include this ammo box.



EDP	Holder Description	Insert Class	Type	C/CT	DC	DCX	LF	DCON	LU	DCS/MS	KAPR	RMPX
17000388	FHF-SD1204-D200Z5S075i	SD..12	S	5	2.000	2.00	2.00	0.750	----	1.75	10	4.2
17000389	FHF-SD1204-D250Z5S100i	SD..12	S	5	2.500	2.50	2.00	1.000	----	2.13	10	3.2
17000436	FHF-SD1204-D300Z5S100i	SD..12	S	5	3.000	3.00	2.00	1.000	----	2.13	10	2.2
17000437	FHF-SD1204-D300Z7S100i	SD..12	S	7	3.000	3.00	2.00	1.000	----	2.13	10	2.2
17000438	FHF-SD1204-D400Z7S150i	SD..12	S	7	4.000	4.00	2.55	1.500	----	3.81	10	1.5
17000439	FHF-SD1204-D400Z9S150i	SD..12	S	9	4.000	4.00	2.55	1.500	----	3.81	10	1.5

	EDP	Insert Description	Grade	Series	RE	APMX	fz (min)	fz (max)	Application	Program R
NEW	12000634	SDMW120420-YG713 / SDMW435 (10pcs/Pack)	YG713	SDMW12	0.079	0.07 (max)	0.0230	0.0590	General Steel Only	0.1575
	12000273	SDMW120420-YG602 / SDMW435 (10pcs/Pack)	YG602	SDMW12	0.079	0.07 (max)	0.0240	0.0550	General/Multi Material	0.1575
NEW	12000341	SDMW120420-YG622 / SDMW435 (10pcs/Pack)	YG622	SDMW12	0.079	0.07 (max)	0.0240	0.0550	General/Multi Material	0.1575
NEW	12000341	SDMW120420-YG622 / SDMW435 (10pcs/Pack)	YG622	SDMW12	0.079	0.07 (max)	0.0230	0.0590	General/Steel and Cast Iron	0.1575
	12000369	SDMT120420-ST-YG602-T1 / SDMT435-ST (10pcs/Pack)	YG602	SDMT12	0.079	0.07 (max)	0.0230	0.0590	-ST Stainless Steel/Steel	0.1575
	12000274	SDMT120420-ST-YG602 / SDMT433ST (10pcs/Pack)	YG602	SDMT12	0.079	0.07 (max)	0.0230	0.0590	-ST Stainless Steel/Steel	0.1575
NEW	12000666	SDMT120420-ST-YG613 / SDMT435-ST (10pcs/Pack)	YG613	SDMT12	0.079	0.07 (max)	0.0150	0.0450	-ST Stainless Steel/Steel	0.1575

Screw: TP154011 Wrench: JS2015



For more application information please see pages 6 and 7

Score a Bullseye in Tough Applications with New High-Feed Milling ENMX Inserts

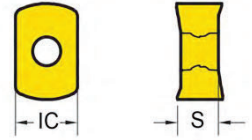
The heavy thickness of the new YG-1 ENMX is why these hard-working inserts can stand up to the most demanding conditions. Increasing the insert thickness by 20—25 % gives you stable clamping for secure machining and longer tool life in the toughest applications. And with their positive rake angle you get improved chip evacuation while reducing machining load.



Milling – Inserts

New ENMX – High Feed Negative (4-Corners)

- High feed milling, profiling, face milling, ramping, plunging, helical interpolation
- Expanded machining capabilities, high versatility with long reach and smaller diameters
- Boost productivity with high feed rate
- Rigid and safe machining due to strong insert shape

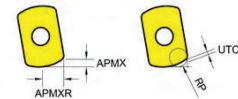


Kit Part Number	Tool Description	Insert	Qty
Kit E-ENMX06-D625Z2	EHF-ENMX06-D0625Z2W0625-L500I	ENMX0604 YG602	10
Kit E-ENMX06-D750Z3	EHF-ENMX06-D07523W075-L500I	ENMX0604 YG602	10
Kit E-ENMX06-D1000Z4	EHF-ENMX06-D10024W100-L550I	ENMX0604 YG602	10
Kit E-ENMX06-D1250Z5	EHF-ENMX06-D12525W125-L600I	ENMX0604 YG602	10
Kit F-ENMX06-D1500Z6	FHF-ENMX06-D15026S050I	ENMX0604 YG602	20
Kit F-ENMX06-D2000Z7	FHF-ENMX06-D20026S075I	ENMX0604 YG602	20
Kit F-ENMX06-D3000Z10	FHF-ENMX06-D300210S100I	ENMX0604 YG602	30

All kit orders include this ammo box.



EDP	Holder Description	Insert Class	Type	ClCT	DC	DCX	LF	DCON	LU	DCSFS	KAPR	RMPX
17000759	EHF-ENMX06-D0625Z2W0625-L500I	ENMX0604	W	2	0.310	0.625	5.000	0.625	1.25	0.625	15°	3.4"
17000669	EHF-ENMX06-D07523W075-L500I	ENMX0604	W	3	0.460	0.750	5.000	0.750	2.00	0.750	15°	2"
17000670	EHF-ENMX06-D10024W100-L550I	ENMX0604	W	4	0.710	1.000	5.500	1.000	2.50	1.000	15°	1.3"
17000671	EHF-ENMX06-D12525W125-L600I	ENMX0604	W	5	0.960	1.250	6.000	1.250	3.00	1.250	15°	0.9"
17000672	FHF-ENMX06-D15026S050I	ENMX0604	S	6	1.210	1.500	1.575	0.500		1.340	15°	0.7"
17000673	FHF-ENMX06-D20026S075I	ENMX0604	S	6	1.710	2.000	1.969	0.750		1.570	15°	0.5"
17000760	FHF-ENMX06-D300210S100I	ENMX0604	S	10	2.710	3.000	2.480	1.000		2.835	15°	0.3"



Programmed Corner Radius
RP
2 (.079)
2.5 (.098)
3 (.118)

Screw: TP082507-GS Wrench: TPWFTP08

EDP	Insert Description	Grade	Series	Program R (RP)	APMX	APMXR	fz (min)	fz (max)	Application
12000606	ENMX0604-YG613 (10pcs/Pack)	YG613	ENMX06	0.079	0.035	0.135	0.0100	0.0550	General Steel/Stainless/Hi-Toughness
12000474	ENMX0604-YG602 (10pcs/Pack)	YG602	ENMX06	0.079	0.035	0.135	0.0100	0.0550	General/Multi Material
12000553	ENMX0604-YG622 (10pcs/Pack)	YG622	ENMX06	0.079	0.035	0.135	0.0100	0.0550	General/Steel and Cast Iron
12000623	ENMX0604-ST-YG602 (10pcs/Pack)	YG602	ENMX06	0.079	0.035	0.135	0.0100	0.0550	-ST Stainless Steel/Steel
12000625	ENMX0604-ST-YG613 (10pcs/Pack)	YG613	ENMX06	0.079	0.035	0.135	0.0100	0.0550	-ST Stainless Steel/Steel
12000636	ENMX0604-TR-YG713 (10pcs/Pack)	YG713	ENMX06	0.079	0.035	0.135	0.0100	0.0550	-TR Hardened Steel Only
12000552	ENMX0604-TR-YG622 (10pcs/Pack)	YG622	ENMX06	0.079	0.035	0.135	0.0100	0.0550	-TR Hardened Steel and Cast Iron
12000459	ENMX0604-TR-YG602 (10pcs/Pack)	YG602	ENMX06	0.079	0.035	0.135	0.0100	0.0550	-TR Hardened Steel/Protected Edge
12000504	ENMX0604-TR-YG712 (10pcs/Pack)	YG712	ENMX06	0.079	0.035	0.135	0.0100	0.0550	-TR Hardened Steel/Protected Edge

For more application information please see pages 6 and 7

Screw: TP082507-GS Wrench: TPWFTP08

Load Up for Higher Performance Milling with New Modular Endmills

Lock onto your choice of tool holder and unleash the power and performance that only YG-1 can harness. Our full line of modular indexable endmills provide an economical solution to tough milling conditions—especially when teamed up with the new thicker ENMX cutting insert. Tool holders are available in a wide variety of sizes to extend your reach in tight conditions.



Kit Part Number	Tool Description	Insert	Qty
Kit M-ENMX06-D625Z2-M08	MHF-ENMX06-D0625Z2M08I	ENMX0604 YG602	10
Kit M-ENMX06-D705Z2-M08	MHF-ENMX06-D0705Z2M08I	ENMX0604 YG602	10
Kit M-ENMX06-D750Z3-M10	MHF-ENMX06-D07523M10I	ENMX0604 YG602	10
Kit M-ENMX06-D830Z3-M10	MHF-ENMX06-D08323M10I	ENMX0604 YG602	10
Kit M-ENMX06-D100Z4-M12	MHF-ENMX06-D100Z4M12I	ENMX0604 YG602	10
Kit M-ENMX06-D1125Z4-M12	MHF-ENMX06-D1125Z4M12I	ENMX0604 YG602	10
Kit M-ENMX06-D1250Z5-M16	MHF-ENMX06-D125Z5M16I	ENMX0604 YG602	10
Kit M-ENMX06-D1375Z5-M16	MHF-ENMX06-D1375Z5M16I	ENMX0604 YG602	10
Kit M-ENMX06-D1500Z6-M16	MHF-ENMX06-D150Z6M16I	ENMX0604 YG602	20

All kit orders
include this ammo box.



New Modular Endmills and Carbide /Steel Holders

- Fast, convenient tool-changing performance
- Cost-effective milling with replaceable inserts and modular heads
- Excellent performance in steel, stainless, cast iron and HRSA

EDP	Holder Description	Insert Class	Type	CIC	DC	DCX	LF	DCON	KAPR	RMPX	Wrench Flat Size	Wrench EDP
17000761	MHF-ENMX06-D0625Z2M08I	ENMX0604	M	2	0.310	0.625	1.000	M08	15°	3.4"	10mm	SPI50810
17000762	MHF-ENMX06-D0705Z2M08I	ENMX0604	M	2	0.410	0.705	1.000	M08	15°	3.4"	10mm	SPI50810
17000763	MHF-ENMX06-D07523M10I	ENMX0604	M	3	0.460	0.750	1.250	M10	15°	2.3"	10mm	SPI50810
17000764	MHF-ENMX06-D08323M10I	ENMX0604	M	3	0.540	0.830	1.250	M10	15°	2"	14mm	
17000765	MHF-ENMX06-D100Z4M12I	ENMX0604	M	4	0.710	1.000	1.500	M12	15°	1.7"	14mm	
17000766	MHF-ENMX06-D1125Z4M12I	ENMX0604	M	4	0.830	1.125	1.500	M12	15°	1.3"	19mm	
17000767	MHF-ENMX06-D125Z5M16I	ENMX0604	M	5	0.960	1.250	1.750	M16	15°	1.1"	19mm	
17000768	MHF-ENMX06-D1375Z5M16I	ENMX0604	M	5	1.080	1.375	1.750	M16	15°	0.9"	24mm	
17000769	MHF-ENMX06-D150Z6M16I	ENMX0604	M	6	1.210	1.500	1.750	M16	15°	0.8"	24mm	

Carbide Holder, Straight Neck Type

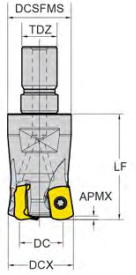
EDP No.	Mill Diameter	Shank Diameter	Overall Length	Neck Length	Neck Diameter	Thread Size	Coolant Hole
		SD	L	L1	D	M	
ZMC040A040	5/8	5/8	3-15/16	1-37/64	19/32	M8	1/8
ZMC040B040			5-7/8	3-5/32			
ZMC040C040			7-7/8	4-23/32			
ZMC048A048	3/4	3/4	3-15/16	1-37/64	45/64	M10	5/32
ZMC048B048			5-7/8	3-5/32			
ZMC048C048			7-7/8	4-23/32			
ZMC048D048	1	1	9-13/16	6-19/64	61/64	M12	13/64
ZMC100A100			5-7/8	2-3/4			
ZMC100B100			7-7/8	3-15/16			
ZMC100C100	1-1/4	1-1/4	9-13/16	5-29/32	1-9/64	M16	15/64
ZMC100D100			11-13/16	7-7/8			
ZMC116A116			5-7/8	2-3/4			
ZMC116B116	1-1/4	1-1/4	7-7/8	4-23/32	1-9/64	M16	15/64
ZMC116C116			9-13/16	5-29/32			
ZMC116D116			11-13/16	7-7/8			
ZMC116E116			13-3/4	9-27/32			

Steel Holder, Straight Neck Type

EDP No.	Mill Diameter	Shank Diameter	Overall Length	Neck Length	Neck Diameter	Thread Size	Coolant Hole
		SD	L	L1	D	M	
ZMS040A040	5/8	5/8	3-15/16	1-3/16	19/32	M8	5/32
ZMS048A048	3/4	3/4	3-15/16	1-3/16	45/64	M10	13/64
ZMS100A100	1	1	4-17/32	1-37/64	61/64	M12	13/64
ZMS116A116	1-1/4	1-1/4	4-59/64	1-37/64	1-9/64	M16	15/64

Steel Holder, Taper Neck Type

EDP No.	Mill Diameter	Shank Diameter	Overall Length	Neck Length	Neck Diameter	Thread Size	Coolant Hole
		SD	L	L1	D	M	
ZMT040A048	5/8	3/4	5-29/32	3-35/64	19/32	M8	5/32
ZMT048A100	3/4	1	6-11/16	3-15/16	45/64	M10	13/64
ZMT100A116	1	1-1/4	7-7/8	4-21/64	61/64	M12	13/64
ZMT116A116	1-1/4	1-1/4	7-7/8	4-21/64	1-9/64	M16	15/64



Hunting for Higher Value and Increased Performance?

The RDKT Series gives machinists what they've been looking for – high-velocity cutting performance and the best value in the business. In configurations of endmill, modular and facemill, and sizes in 08, 10, and 12 – YG-1 Button KITS are packed to perform.



RDKT – Round/Button Inserts

- ▲ A nimble performer in tight conditions
- ▲ Multiple insert geometries for steel, stainless steel, hard steel and iron



EDP	Holder Description	Insert Class	Type	CIC	DC	DCX	LF	DCON	LU	DCSFS	KAPR	RMPX
17000044	E-RDKT08-D075Z2C075-L700I	RD.08	C	2	0.435	0.75	7.00	0.750	3.00	NA	.157 R	1-1.5"
17000046	M-RDKT08-D075Z2M10I*	RD.08	M	2	0.435	0.75	1.25	M10	-----	NA	.157 R	1-1.5"
17000045	E-RDKT08-D100Z3C075-L700I	RD.08	C	3	0.685	1.00	7.00	0.750	-----	NA	.157 R	1-1.5"
17000047	M-RDKT08-D100Z3M12I*	RD.08	M	3	0.685	1.00	1.50	M12	-----	NA	.157 R	1-1.5"
17000048	E-RDKT10-D100Z2C100-L700I	RD.10	C	2	0.606	1.00	7.00	1.000	3.00	NA	.196 R	1-1.5"
17000049	M-RDKT10-D100Z3M12I*	RD.10	M	3	0.606	1.00	1.50	M12	-----	0.83	.196 R	1-1.5"
17000050	F-RDKT10-D150Z5S050I	RD.10	S	5	1.106	1.50	1.58	0.500	-----	1.25	.196 R	1-1.5"
17000051	F-RDKT10-D200Z6S075I	RD.10	S	6	1.606	2.00	1.75	0.750	-----	1.58	.196 R	1-1.5"
17000052	E-RDKT12-D100Z2C100-L700I	RD.12	C	2	0.527	1.00	7.00	1.000	3.00	NA	.236 R	1-1.5"
17000055	M-RDKT12-D100Z3M12I*	RD.12	M	2	0.527	1.00	1.50	M12	-----	0.83	.236 R	1-1.5"
17000053	E-RDKT12-D125Z2C125-L800I	RD.12	C	2	0.777	1.25	8.00	1.250	4.00	NA	.236 R	1-1.5"
17000054	E-RDKT12-D125Z3C125-L600I	RD.12	C	3	0.777	1.25	6.00	1.250	2.50	NA	.236 R	1-1.5"
17000056	M-RDKT12-D125Z3M16I*	RD.12	M	3	0.777	1.25	1.50	M16	-----	1.14	.236 R	1-1.5"
17000057	F-RDKT12-D150Z4S050I	RD.12	S	4	1.027	1.50	1.58	0.500	-----	1.25	.236 R	1-1.5"
17000058	F-RDKT12-D200Z5S075I	RD.12	S	5	1.527	2.00	1.75	0.750	-----	1.58	.236 R	1-1.5"
17000059	F-RDKT12-D250Z6S075I	RD.12	S	6	2.027	2.50	1.75	0.750	-----	1.75	.236 R	1-1.5"

* Modular heads – see page 21 for holders Call for Kit Pricing

EDP	Insert Description	Grade	Series	RE	APMX	fz (min)	fz (max)	Application
12000035	RDKT0802M0-YG602 (10pcs/Pack)	YG602	RDKT08	0.157	0.157	0.0025	0.0060	General/Multi Material
12000043	RDKW0802M0-YG602 (10pcs/Pack)	YG602	RDKW08	0.157	0.157	0.0035	0.0060	General/Multi Material
12000245	RDMT0802M0-YG602 (10pcs/Pack)	YG602	RDMT08	0.157	0.157	0.0025	0.0060	General/Multi Material
12000227	RDMMW0802M0-YG602 (10pcs/Pack)	YG602	RDMMW08	0.157	0.157	0.0035	0.0060	General/Multi Material
NEW 12000440	RDKT0802M0-YG622 (10pcs/Pack)	YG622	RDKT08	0.157	0.157	0.0035	0.0060	General/Steel and Cast Iron
12000292	RDKT0802M0-ST-YG602 (10pcs/Pack)	YG602	RDKT08	0.157	0.157	0.0025	0.0070	-ST Stainless Steel/Steel
12000339	RDKT0802M0-TR-YG622 (10pcs/Pack)	YG622	RDKT08	0.157	0.157	0.0040	0.0080	-TR Hardened Steel and Cast Iron
NEW 12000284	RDKT0802M0-TR-YG602 (10pcs/Pack)	YG602	RDKT08	0.157	0.157	0.0040	0.0080	-TR Hardened Steel/Protected Edge
12000041	RDKT10T3M0-YG602 (10pcs/Pack)	YG602	RDKT10	0.196	0.196	0.0030	0.0080	General/Multi Material
12000040	RDKW10T3M0-YG602 (10pcs/Pack)	YG602	RDKW10	0.196	0.196	0.0035	0.0085	General/Multi Material
12000246	RDMT10T3M0-YG602 (10pcs/Pack)	YG602	RDMT10	0.196	0.196	0.0030	0.0080	General/Multi Material
12000228	RDMMW10T3M0-YG602 (10pcs/Pack)	YG602	RDMMW10	0.196	0.196	0.0035	0.0085	General/Multi Material
12000293	RDKT10T3M0-ST-YG602 (10pcs/Pack)	YG602	RDKT10	0.196	0.196	0.0030	0.0090	-ST Stainless Steel/Steel
12000285	RDKT10T3M0-TR-YG602 (10pcs/Pack)	YG602	RDKT10	0.196	0.196	0.0045	0.0090	-TR Hardened Steel/Protected Edge
NEW 12000338	RDKT10T3M0-TR-YG622 (10pcs/Pack)	YG622	RDKT10	0.196	0.196	0.0045	0.0100	-TR Hardened Steel and Cast Iron
NEW 12000441	RDKW10T3M0-YG622 (10pcs/Pack)	YG622	RDKW10	0.196	0.196	0.0035	0.0085	General/Steel and Cast Iron
NEW 12000620	RDKT10T3M0-ST-YG613 (10pcs/Pack)	YG613	RDKT10	0.196	0.196	0.0030	0.0090	-ST Stainless Steel/Steel
NEW 12000651	RDKT10T3M0-YG713 (10pcs/Pack)	YG713	RDKT10	0.196	0.196	0.0030	0.0080	General Steel Only
NEW 12000635	RDKT1204M0-YG713 (10pcs/Pack)	YG713	RDKT12	0.236	0.236	0.0040	0.0095	General Steel Only
NEW 12000647	RDKW1204M0-YG713 (10pcs/Pack)	YG713	RDKW12	0.236	0.236	0.0040	0.0100	General Steel Only
NEW 12000650	RDKT1204M0-TR-YG713 (10pcs/Pack)	YG713	RDKT12	0.236	0.236	0.0050	0.0120	General Steel/Protected Edge
12000034	RDKT1204M0-YG602 (10pcs/Pack)	YG602	RDKT12	0.236	0.236	0.0040	0.0095	General/Multi Material
12000042	RDKW1204M0-YG602 (10pcs/Pack)	YG602	RDKW12	0.236	0.236	0.0040	0.0100	General/Multi Material
12000226	RDMT1204M0-YG602 (10pcs/Pack)	YG602	RDMT12	0.236	0.236	0.0040	0.0095	General/Multi Material
12000229	RDMMW1204M0-YG602 (10pcs/Pack)	YG602	RDMMW12	0.236	0.236	0.0040	0.0100	General/Multi Material
NEW 12000442	RDKW1204M0-YG622 (10pcs/Pack)	YG622	RDKW12	0.236	0.236	0.0040	0.0100	General/Steel and Cast Iron
12000294	RDKT1204M0-ST-YG602 (10pcs/Pack)	YG602	RDKT12	0.236	0.236	0.0040	0.0095	-ST Stainless Steel/Steel
NEW 12000621	RDKT1204M0-ST-YG613 (10pcs/Pack)	YG613	RDKT12	0.236	0.236	0.0040	0.0095	-ST Stainless Steel/Steel
NEW 12000630	RDKT1204M0-TR-YG622 (10pcs/Pack)	YG622	RDKT12	0.236	0.236	0.0050	0.0120	-TR Hardened Steel and Cast Iron
12000272	RDKT1204M0-TR-YG602 (10pcs/Pack)	YG602	RDKT12	0.236	0.236	0.0050	0.0120	-TR Hardened Steel/Protected Edge

RDKT 08 Screw: TP082505 Wrench: J50008

RDKT 10 Screw: TP154008 Wrench: J50015

RDKT 12 Screw: TP154009 Clamp: TP153507 Wrench: J50015

* Modular head kits available upon request. Pricing based on the diameter and flute count of standard kits. See page 23 for listing of modular heads – Call for details.

All kit orders include this ammo box.



For more application information please see pages 6 and 7

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Tool specifications and pricing are subject to change without prior notice.

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