



CARBIDE INSERTS

- Proven Quality
- Unbeatable Price



**2300 Fairway Park Dr.
Houston, TX 77092
713-682-1889**

**www.basstool.com
1-800-442-0042**

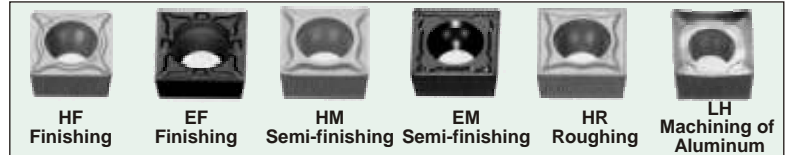
CHIPBREAKER FOR NEGATIVE INSERTS

FOR STEELS		
DF		FINISHING
DM		MEDIUM
PM		MEDIUM-ROUGHING
DR		ROUGHING
ER		ROUGHING

FOR STAINLESS		
EF		FINISHING
EM		MEDIUM
ER		ROUGHING

FOR HIGH TEMP		
NF		FINISHING
NM		MEDIUM
ER		ROUGHING

CHIPBREAKERS FOR POSITIVE INSERTS →



ZCC CARBIDE INSERTS

BEST GRADES FOR STEEL, STAINLESS STEEL & HIGH TEMP ALLOYS

ALL INSERTS ARE MULTI-LAYERED WITH THE TOP LAYER EITHER TiN, AL. OXIDE, or ALTiN

LAST DIGIT ON GRADE DESIGNATES TOP LAYER	
1 =	TiN (Yellow-Gold)
2 =	In CVD (YBC) = Al. Oxide - Black In PVD (YBG) = TiAlN - Black
5 =	ALTiN (Dark Purple)

GRADE	COATED LAYER	COLOR	APPLICATION
YBG102	PVD-Nano-TiAlN	BLACK	Finishing to semi-finishing of Hi-Temp Alloys and light to medium machining of cast iron.
YBG202	PVD-Nano-TiAlN	BLACK	Turning and milling of steel and stainless steel. Semi-finishing and roughing in turning of Hi-Temp alloys.
YBG205	PVD-ALTiN	DARK PURPLE	Turning of stainless steel in finishing to semi-finishing. Also milling of stainless & Hi-Temp alloys.
YBC151	CVD-MT-Ti(CN) Al ₂ O ₃ & TiN	GOLD	Finishing steel cast steel & stainless steel under high-speed and dry machining conditions.
YBC152	CVD-TiCN & Al ₂ O ₃	BLACK	Finishing & Semi-finishing at high speed in steel. Great wear-resistance. Runs faster & lasts longer than YBC151.
YBC251	CVD-MT-Ti(CN) Al ₂ O ₃ & TiN	GOLD	Finishing, Semi-finishing and light roughing of steel, cast steel and stainless steel.
YBC252	CVD-TiCN & Al ₂ O ₃	BLACK	General Purpose to roughing in steels. Has greater toughness than YBC152. Runs faster & lasts longer than YBC251.



TURNING: GRADES & CHIPBREAKERS

RECOMMENDED GRADES FOR TURNING

FOR MATERIAL	TYPE OF COATING	MACHINING OPERATIONS		
		FINISHING	MEDIUM	ROUGHING
		GRADE CHIPBREAKER	GRADE CHIPBREAKER	GRADE CHIPBREAKER
STEEL	CVD	YBC152/151 DF/DM	YBC 252/251 DM/PM	YBC351 PM/DR
	PVD	YBG102 EF/EM	YBG202 EM/DM	YBG302 EM
STAINLESS STEEL	PVD	YBG102/YBG205 EF	YBG202/205 EM	YBG302 EM
HI-TEMP (Ni, Ti ALLOYS)	PVD	YBG102 EF/NF	YBG102 NM	YBG102/YBG202 NM
CAST IRON	CVD	YBD052 PM	YBD152 DR	YBD252 DR
ALUMINUM	UNCOATED	YD101 LH	YD101 LH	YD101 LH

	ISO	CVD	PVD
Steel	P	01	YBG102, YBG202, YBG205
		10	YBC151, YBC251, YBC351
		20	
		30	
		40	
Stainless Steel	M	01	YBG202, YBG205
		10	
		20	
		30	
Heat-resistant steel Hi-Temp Nickel & Titanium	S	01	YBG102, YBC202
		10	
		20	
		30	

MILLING: GRADES & CHIPBREAKERS



MILLING ZCC GRADES				
		LIGHT	MEDIUM	ROUGH
STEEL	PVD	YBG202	YBG202	YBG302
	CVD		YBM251	YBM351
STAINLESS STEEL	PVD	YBG202	YBG202	YBG302
	CVD		YBM251	YBM351

**THE BEST KEPT
SECRET IN THE
INDUSTRY IS OUT:
ZCC WILL SAVE
YOU 50% AND
OUTPERFORM THE
COMPETITION**



CARBIDE INSERTS with Multilayer Coatings

A WINNING COMBINATION

- Proven Quality
- Unbeatable Price

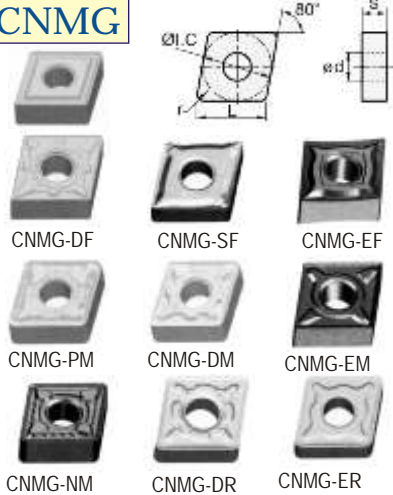
FIRST CHOICE

FOR: STEEL ALLOYS
GRADE: YBC252
CHIPBREAKER: PM

FOR: STAINLESS & STEEL ALLOYS
GRADE: YBG202
CHIPBREAKER: EM

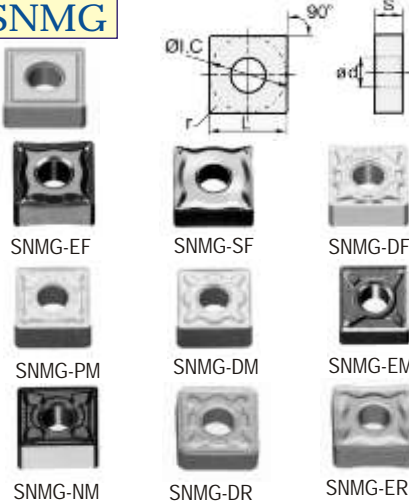
FOR: HI TEMP ALLOYS
(NICKEL & TITANIUM)
GRADE: YBG102
CHIPBREAKER: NM

CNMG



INSERT	IC	S	d	L	r	PRICE
CNMG-321	.375	.125	.150	.382	.016	2.13
CNMG-322	.375	.125	.150	.382	.031	
CNMG-431	.500	.187	.203	.508	.031	
CNMG-432	.500	.187	.203	.508	.031	3.12
CNMG-433	.500	.187	.203	.508	.047	
CNMG-434	.500	.187	.203	.508	.063	
CNMG-542	.625	.250	.250	.634	.031	4.93
CNMG-543	.625	.250	.250	.634	.047	
CNMG-544	.625	.250	.250	.634	.063	
CNMG-642	.750	.250	.313	.760	.031	6.34
CNMG-643	.750	.250	.313	.760	.047	
CNMG-644	.750	.250	.313	.760	.063	
CNMG-866	1.000	.375	.359	1.19	.094	14.46

SNMG

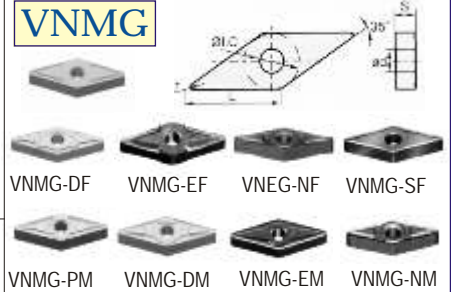


INSERT	IC	S	d	L	r	PRICE
SNMG-321	.375	.125	.150	.375	.016	2.16
SNMG-322	.375	.125	.150	.375	.031	
SNMG-431	.500	.187	.203	.500	.016	
SNMG-432	.500	.187	.203	.500	.031	3.12
SNMG-433	.500	.187	.203	.500	.047	
SNMG-434	.500	.187	.203	.500	.063	
SNMG-542	.625	.250	.250	.625	.031	4.93
SNMG-543	.625	.250	.250	.625	.047	
SNMG-544	.625	.250	.250	.625	.063	
SNMG-643	.750	.250	.313	.750	.047	6.34
SNMG-644	.750	.250	.313	.750	.063	
SNMG-866	1.00	.374	.359	1.00	.094	

RECOMMENDED GRADES FOR TURNING

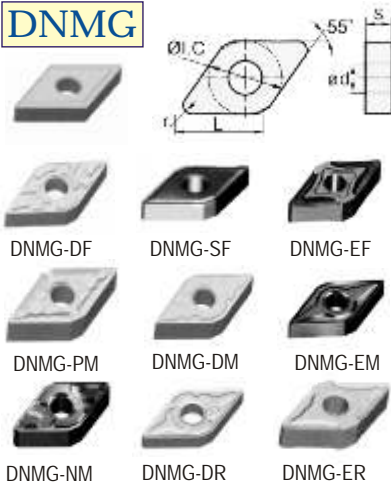
	ISO	CVD		PVD	↑ HARDER ↑ TOUGHER
		P	M	S	
Steel	01				↑ HARDER ↑ TOUGHER
	10	YBC151		YBC102	
	20	YBC231		YBC202	
	30	YBC351		YBC205	
Stainless Steel	01				↑ HARDER ↑ TOUGHER
	10			YBC202	
	20			YBC205	
	30				
Heat-resistant steel Hi-Temp Nickel & Titanium	01				↑ HARDER ↑ TOUGHER
	10			YBG102	
	20			YBG202	
	30				

VNMG



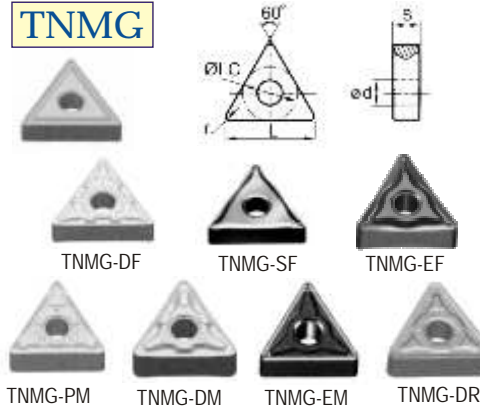
INSERT	IC	S	d	L	r	PRICE
VNMG-331	.375	.187	.150	.654	.016	4.73
VNMG-332	.375	.187	.150	.654	.031	
VNMG-333	.375	.187	.150	.654	.047	

DNMG



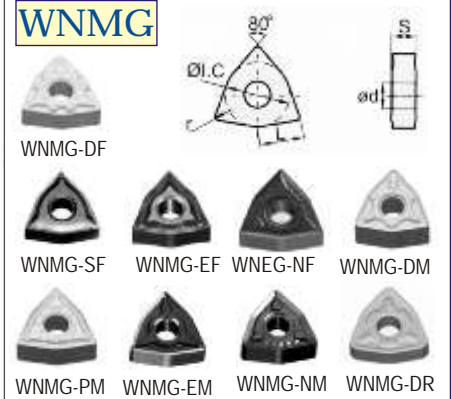
INSERT	IC	S	d	L	r	PRICE
DNMG-331	.375	.187	.150	.457	.016	3.47
DNMG-332	.375	.187	.150	.457	.031	
DNMG-333	.375	.187	.150	.457	.047	
DNMG-431	.500	.187	.203	.610	.016	4.14
DNMG-432	.500	.187	.203	.610	.031	
DNMG-433	.500	.187	.203	.610	.047	
DNMG-434	.500	.187	.203	.610	.063	4.52
DNMG-441	.500	.250	.203	.610	.016	
DNMG-442	.500	.250	.203	.610	.031	
DNMG-443	.500	.250	.203	.610	.047	4.52
DNMG-444	.500	.250	.203	.610	.063	

TNMG



INSERT	IC	S	d	L	r	PRICE
TNMG-332	.375	.187	.150	.650	.031	3.04
TNMG-333	.375	.187	.150	.650	.047	
TNMG-432	.500	.187	.203	.866	.031	3.86
TNMG-433	.500	.187	.203	.866	.047	
TNMG-542	.625	.250	.250	1.083	.031	6.19
TNMG-543	.625	.250	.250	1.083	.047	
TNMG-544	.625	.250	.250	1.083	.063	10.10
TNMG-666	.750	.375	.313	1.299	.094	

WNMG



INSERT	IC	S	d	L	r	PRICE
WNMG-332	.375	.187	.150	.256	.031	2.73
WNMG-333	.375	.187	.150	.256	.047	
WNMG-431	.500	.187	.203	.343	.016	3.52
WNMG-432	.500	.187	.203	.343	.031	
WNMG-433	.500	.187	.203	.343	.047	
WNMG-434	.500	.187	.203	.343	.063	
WNMG-442	.500	.250	.203	.343	.031	



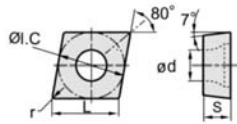
713-682-1889
FREE LOCAL DELIVERY



ZCC CARBIDE INSERTS - MULTI-LAYERED COATINGS

POSITIVE RAKE INSERTS

CCMT



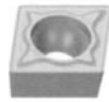
CCMT-HF

CCMT-EF

CCMT-EM



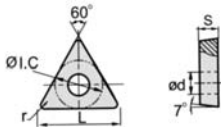
CCMT-HM



CCMT-HR

INSERT	IC	S	d	L	r	PRICE
CCMT-2150	.250	.094	.110	.252	.008	2.23
CCMT-2151	.250	.094	.110	.252	.016	
CCMT-2152	.250	.094	.110	.252	.031	
CCMT-3250	.375	.156	.173	.382	.008	2.58
CCMT-3251	.375	.156	.173	.382	.016	
CCMT-3252	.375	.156	.173	.382	.031	
CCMT-431	.500	.187	.219	.508	.016	3.42
CCMT-432	.500	.187	.219	.508	.031	
CCMT-433	.500	.187	.219	.508	.047	

TCMT



TCMT-HF



TCMT-EF



TCMT-EM



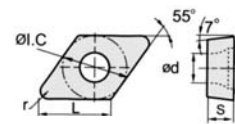
TCMT-HM



TCMT-HR

INSERT	IC	S	d	L	r	PRICE
TCMT-18151	.219	.094	.098	.378	.016	2.05
TCMT-18152	.219	.094	.098	.378	.031	
TCMT-2151	.250	.094	.110	.433	.016	
TCMT-2152	.250	.094	.110	.433	.031	2.19
TCMT-3251	.375	.156	.173	.650	.016	
TCMT-3252	.375	.156	.173	.650	.031	
TCMT-3253	.375	.156	.173	.650	.047	3.01
TCMT-432	.500	.187	.217	.866	.031	
TCMT-432	.500	.187	.217	.866	.031	4.84

DCMT



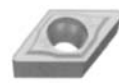
DCMT-HF

DCMT-EF

DCMT-EM



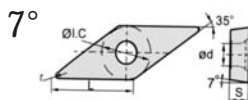
DCMT-HM



DCMT-HR

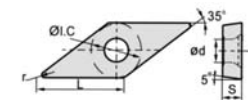
INSERT	IC	S	d	L	r	PRICE
DCMT-2150	.250	.094	.110	.307	.008	2.10
DCMT-2151	.250	.094	.110	.307	.016	
DCMT-3250	.375	.156	.173	.457	.008	2.87
DCMT-3251	.375	.156	.173	.457	.016	
DCMT-3252	.375	.156	.173	.457	.031	

VCGT



INSERT	IC	S	d	L	r	PRICE
VCGT21-HF	.250	.125	.110	.433	.016	4.97

VBMT



VBMT-HF



VBMT-EF



VBMT-EM



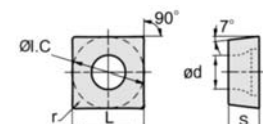
VBMT-HM



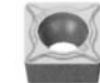
VBMT(HR)

INSERT	IC	S	d	L	r	PRICE
VBMT-2150	.250	.094	.110	.433	.008	3.75
VBMT-2151	.250	.094	.110	.433	.016	
VBMT-2152	.250	.094	.110	.433	.031	
VBMT-220	.250	.125	.110	.433	.008	4.16
VBMT-221	.250	.125	.110	.433	.016	
VBMT-222	.250	.125	.110	.433	.031	
VBMT-223	.250	.125	.110	.433	.047	
VBMT-331	.375	.187	.173	.650	.016	
VBMT-332	.375	.187	.173	.650	.031	4.16
VBMT-333	.375	.187	.173	.650	.047	

SCMT



SCMT-HF



SCMT-EF



SCMT-EM



SCMT-HM



SCMT-HR

INSERT	IC	S	d	L	r	PRICE
SCMT-3251	.375	.156	.173	.375	.016	2.71
SCMT-3252	.375	.156	.173	.375	.031	
SCMT-431	.500	.187	.219	.500	.016	3.42
SCMT-432	.500	.187	.219	.500	.031	
SCMT-433	.500	.187	.219	.500	.047	

WCMX Inserts for Indexable Drills

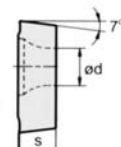
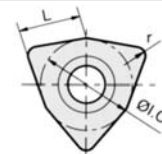
-PG

FOR:
• ALLOY STEEL
• CARBON STEEL



-53

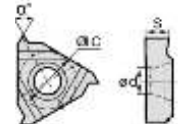
FOR:
• ALUMINUM
• MILD STEEL
• CAST IRON



DESIGNATION	DESIGNATION (METRIC)	I.C.	L	S	d	r	PRICE
WCMX-1.8152	WCMX030208	.219	.150	.094	.110	.031	3.80
WCMX-21.52	WCMX040208	.250	.170	.094	.122	.031	
WCMX-2.522	WCMX050308	.313	.213	.125	.126	.031	
WCMX-32.52	WCMX06T308	.375	.256	.156	.146	.031	4.14
WCMX-433	WCMX080412	.500	.343	.187	.169	.047	4.14

60° THREADING INSERTS

Interchangeable with Sandvik
Old Style (Thicker Insert)



GRADE: YBG201

INTERNAL 60° PARTIAL PROFILE

R.HAND	L.HAND	IC	PITCH	S	d	PRICE
16IR-A60	16IL-A60	3/8	48-16	.156	.173	5.10
16IR-G60	16IL-G60		14-8	.156	.173	
16IR-G60P*	16IL-G60P*		14-8	.156	.173	
16IR-AG60	16IL-AG60	1/2	48-8	.156	.173	7.80
16IR-AG60P*	16IL-AG60P*		48-8	.156	.173	
22IR-N60	22IL-N60		7-5	.219	.217	

P designates chip breaker

EXTERNAL 60° PARTIAL PROFILE

R.HAND	L.HAND	IC	PITCH	S	d	PRICE
16ER-A60	16EL-A60	3/8	48-16	.156	.173	5.10
16ER-G60	16EL-G60		14-8	.156	.173	
16ER-G609*	16EL-G609*		14-8	.156	.173	
16ER-AG60	16EL-AG60	1/2	48-8	.156	.173	7.80
16ER-AG60P*	16EL-AG60P*		48-8	.156	.173	
22ER-N60	22EL-N60		7-5	.219	.217	

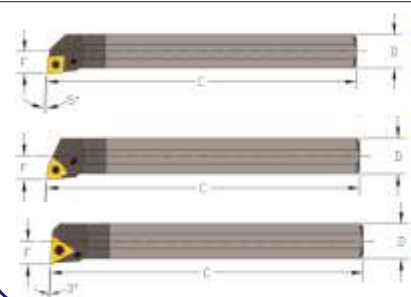
ULTRA-DEX USA

KIT PROMOTION AVAILABLE UNTIL 1/30/11

CARBIDE BORING BARS-KITS



CARBIDE BORING BAR + 5 INSERTS FOR \$ 99.00 !



COOLANT THRU CARBIDE BORING BARS

Designation	D	C	F	Min Bore	Insert
E06M SCLCR2	0.375	6	0.203	0.400	CCMT 21.51

Order # E06M SCLCR2 - Kit

Designation	D	C	F	Min Bore	Insert
E06M SWLCR2	0.375	6	0.203	0.400	WCMT 21.51

Order # E06M SWLCR2 - Kit

Designation	D	C	F	Min Bore	Insert
E06M STUCR2	0.375	6	0.203	0.400	TCMT 21.51

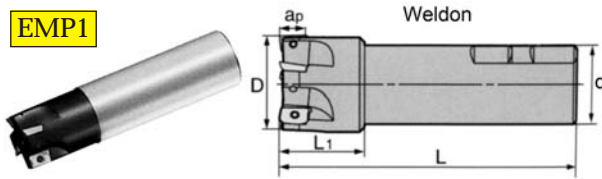
Order # E06M STUCR2 - Kit



MILLING

90° INDEXABLE END-MILLS Square Shoulder (with Weldon Shank)

EMP1



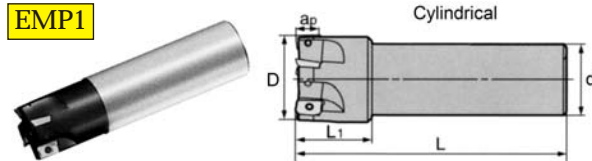
PART#	D	d	L	L ₁	ap	Z*	INSERT	PRICE
EMP1-0.50XP-11	.500	.625	3.50	1.00	.433	1	APKT-11	32.00
EMP1-0.62XP-11	.625	.625	3.50	1.00	.433	2		51.60
EMP1-0.75XP-11	.750	.750	4.00	1.25	.433	2		52.50
EMP1-1.00XP-11	1.00	1.00	4.50	1.50	.433	3		68.69
EMP1-1.25XP-11	1.25	1.25	5.00	1.50	.433	4	93.40	
EMP1-1.00XP-16	1.00	1.00	4.50	1.50	.630	2	APKT-16	55.73
EMP1-1.25XP-16	1.25	1.25	5.00	1.50	.630	3		80.37
EMP1-1.50XP-16	1.50	1.25	5.00	1.75	.630	4		100.76
EMP1-2.00XP-16	2.00	1.25	5.50	1.75	.630	5		120.50
EMP1-2.50XP-16	2.50	1.25	5.50	1.75	.630	6		145.91

* Z=no. of inserts

SPARE PARTS	INSERT SCREW	WRENCH
MILL DIA.		
D = 0.50" - 1.25"	1-000-I60M2565T	1-000-WT08IP
D = 1.00" - 2.50"	1-000-I60M484	1-000-WT15IS

90° INDEXABLE END-MILLS Square Shoulder (with Cylindrical Shank)

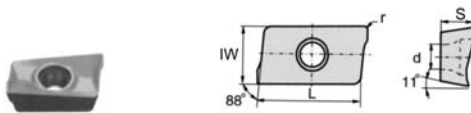
EMP1



PART#	D	d	L	L ₁	ap	Z*	INSERT	PRICE
EMP1-0.50G-11	.500	.625	3.50	1.00	.433	1	APKT-11	32.00
EMP1-0.62G-11	.625	.625	3.50	1.00	.433	2		47.49
EMP1-0.75G-11	.750	.750	4.00	1.25	.433	2		49.16
EMP1-1.00G-11	1.00	1.00	4.50	1.50	.433	3		62.31
EMP1-1.25G-11	1.25	1.25	5.00	1.50	.433	4	93.40	
EMP1-1.00G-16	1.00	1.00	4.50	1.50	.630	2	APKT-16	51.60
EMP1-1.25G-16	1.25	1.25	5.00	1.50	.630	3		76.24
EMP1-1.50G-16	1.50	1.25	5.00	1.75	.630	4		99.21
EMP1-2.00G-16	2.00	1.25	5.50	1.75	.630	5		114.70
EMP1-2.50G-16	2.50	1.25	5.50	1.75	.630	6		138.55

* Z=no. of inserts. Spare parts - same as above.

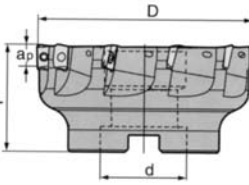
APKT INSERTS



PART#	L	IW	S	d	r	PRICE
APKT11T304	.482	.256	.142	.110	.016	3.89
APKT11T308	.482	.256	.142	.110	.031	
APKT11T312	.482	.256	.142	.110	.047	
APKT11T316	.482	.256	.142	.110	.063	
APKT-160408	.704	.367	.227	.173	.031	4.61

90° FACE MILLS - Square Shoulder

EMP2



PART#	D	d	L	ap	Z	INSERT	PRICE
EMP2-2.0-0.75-1	2.00	0.75	1.50	.433	6	APKT-11	131.08
EMP2-2.5-0.75-1	2.50	0.75	1.50	.433	8		161.51
EMP2-3.0-1.00-1	3.00	1.00	2.00	.433	8		173.77
EMP2-P4.0-1.25-1	4.00	1.25	2.00	.433	10		213.90
EMP2-2.0-0.75-6	2.00	0.75	1.50	.630	5	APKT-16	110.68
EMP2-2.5-0.75-6	2.50	0.75	1.50	.630	6		135.20
EMP2-3.0-1.00-6	3.00	1.00	2.00	.630	7		150.04
EMP2-4.0-1.25-6	4.00	1.25	2.00	.630	8		178.68

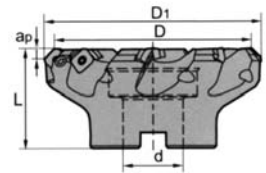
* Z=no. of inserts

SPARE PARTS	INSERT	SCREW: 1-000-	WRENCH: 1-000-
	AP11	I60M2565T	WT08IS
	AP16	I60M410	WT15IS

45° FACE MILLS - Fine Pitch & Coarse Pitch



Use Insert:
SEET12T3



FMA1

FINE PITCH
(CUTTERS 5" & ABOVE USE SEATS)

PART#	D	d	L	ap	Z*	PRICE
FMA1-2.0-0.75	2.00	0.75	1.5	.236	4	95.86
FMA1-2.5-0.75	2.50	0.75	1.5	.236	5	113.91
FMA1-3.0-1.00	3.00	1.00	2.0	.236	6	144.26
FMA1-4.0-1.25	4.00	1.25	2.0	.236	7	166.41
FMA1-5.0-1.50	5.00	1.50	2.5	.236	8	248.34
FMA1-6.0-1.50	6.00	1.50	2.5	.236	10	334.40
FMA1-8.0-2.50	8.00	2.50	2.5	.236	12	call
FMA1-10-2.50	10.0	2.50	2.5	.236	14	call

* Z=no. of inserts

SPARE PARTS FOR FMA1
(P/N Prefix: 1-000)

CUTTER DIA.	INSERT SCREW	INSERT SEAT	SEAT SCREW	WRENCH
2" - 4"	I60M3510	-	-	WT15IS
5" - 10"	I60M3512	S13BS	SM57XA	WT15IS & WH35L

FMA2

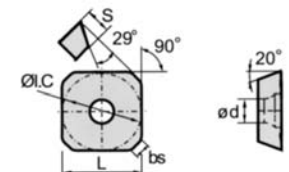
COARSE & DIFFERENTIAL PITCH
(REDUCE VIBRATION)

PART#	D	d	L	ap	Z*	PRICE
FMA2-2.0-0.75	2.0	0.75	1.5	.236	3	95.86
FMA2-2.5-0.75	2.5	0.75	1.5	.236	4	122.17
FMA2-3.0-1.00	3.0	1.00	2.0	.236	4	136.88
FMA2-4.0-1.25	4.0	1.25	2.0	.236	5	166.41
FMA2-5.0-1.50	5.0	1.50	2.5	.236	6	220.47

* Z=no. of inserts

SPARE PARTS
FOR FMA2:

Screw: 1-000-I60M3510
Wrench: 1-000-WT15IS



SEET12T3 INSERTS

APPLICATION	PICTURE	INSERT DESIGNATION	L	IC	S	d	bs	PRICE	YBM251	YBM351	YBG102	YBG202	YBG302
LIGHT		SEET12T3-DF	.528	.528	.156	.161	.100	3.72	○	●	○	○	○
		SEET12T3-CF	.528	.528	.156	.161	.100						
		SEET12T3-EF	.528	.528	.156	.161	.100						
MEDIUM		SEET12T3-DM	.528	.528	.156	.161	.100	3.72	●	●	○	○	○
		SEET12T3-CM	.528	.528	.156	.161	.100						
		SEET12T3-EM	.528	.528	.156	.161	.100						
HEAVY		SEET12T3-DR	.528	.528	.156	.161	.100	3.72	●	●	○	○	○
		SEET12T3-CR	.528	.528	.156	.161	.100						

MILLING GRADES

GRADE	COATING	APPLICATION
YBG102 PVD	Fine grain carbide substrate + Nano coating	Applicable for Finishing and Semi-Finishing in milling of cast iron.
YBG202 PVD	Carbide substrate with excellent deformation resistance & Nano coating	PVD Grade with wide application in milling of Steels, Stainless Steels and Hi-Temp Alloys.
YBG302 PVD	Substrate with good toughness and strength & Nano-coating	Applicable in rough milling of Steels and Stainless Steels.
YBM251 CVD	Combination of high toughness and strength substrate and the coating comprised of TiCN. thin Al2O3/TiN	Applicable for Semi-Finishing & Rough Milling in Steels and Stainless Steels.
YBM351 CVD	Combination of high toughness substrate and the coating composed of TiCN, thin Al2O3/TiN	Applicable in Rough Milling of Steels and Stainless Steels.