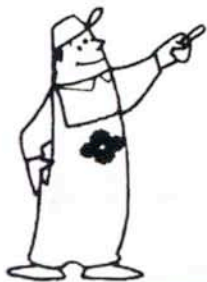


**Super Milling
offers for 2010!**

Sumitomo Promotions



Keep \$aving with Sumi!

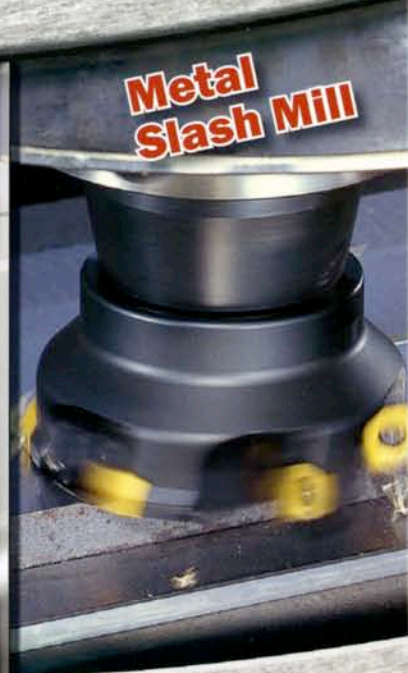
**WGC
Series**



**WEX
Series**



**Metal
Slash Mill**



**MSX
Series**



**Offer valid through
June 30, 2010**

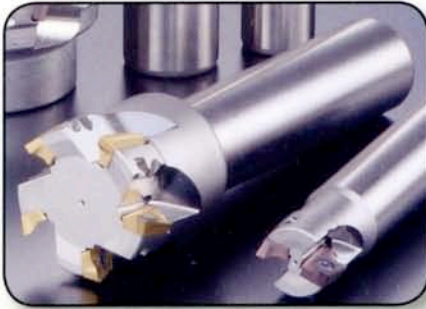


SUMITOMO

CARBIDE - CBN - DIAMOND

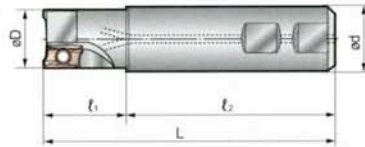
1001 Business Center Drive, Mt. Prospect, IL 60056-6080
P.O. Box 545, Mt. Prospect, IL, 60056-0545
800-950-5202 • 847-635-0044 • FAX: 847-635-7866
www.sumicarbide.com

WEX Indexable Milling 90° End/Shell Mills

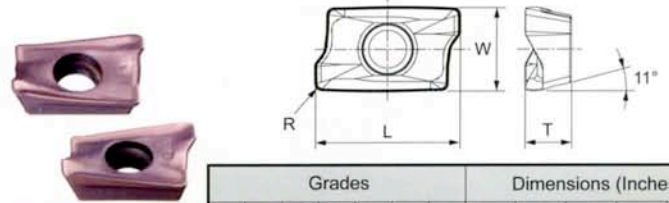


Features & Benefits

- The unique shape and strength of the cutting edge has been optimized resulting in reduced cutting forces
- Available in 4 different insert geometries
- A wide range of machining applications due to the new "Super ZX", "Super FF", and diamond-like carbon coatings
- Cutter body and insert strength provide for high feed rate capabilities
- Efficient chip removal due to air/coolant hole design

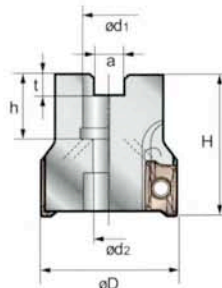


Plan A
FREE WEX cutter with the purchase of required insert quantity



Catalog No.	Dimensions (Inches)					Ramp Angle	# of Teeth	Insert Purchase Required
	D	d	L	ℓ ₁	ℓ ₂			
AXMT20500EW	0.500	0.750	3.325	1.309	2.031	5°	1	30
WEX20625EW	0.625	0.625	3.218	1.312	1.906	4°	2	30
WEX20625EMW	0.625	0.625	3.591	1.685	1.906	4°	2	30
WEX20750EW	0.750	0.750	3.561	1.530	2.031	4°	3	40
WEX20750EMW	0.750	0.750	4.091	2.060	2.031	4°	3	40
WEX20750ELW	0.750	0.750	5.091	3.060	2.031	4°	3	40
WEX21000EW	1.000	1.000	3.811	1.530	2.281	2°	4	40
WEX21250EW	1.250	1.250	4.531	2.250	2.281	1° 30'	5	50
WEX31000EW	1.000	1.000	3.811	1.530	2.281	5°	2	30
WEX31000EMW	1.000	1.000	4.841	2.560	2.281	5°	2	30
WEX31000ELW	1.000	1.000	6.341	4.060	2.281	5°	2	30
WEX31250EW	1.250	1.250	4.531	2.250	2.281	3°	3	40
WEX31250EMW	1.250	1.250	6.381	4.100	2.281	3°	3	30
WEX31500EW	1.500	1.250	4.531	2.250	2.281	2°	4	40
WEX32000EW	2.000	1.250	4.531	2.250	2.281	2°	5	50

Catalog No.	Grades							Dimensions (Inches)				
	ACP100	ACP200	ACP300	ACK200	ACK300	DL1000	H1	L	W	T	R	Facet Width
AXMT123504PEERG	•	•	•	•	•			.472	.260	.138	.016	.061
AXMT123504PEERH	•	•	•	•	•			.472	.260	.138	.016	.061
AXMT123508PEERG	•	•	•	•	•			.472	.260	.138	.031	.061
AXMT123508PEERH	•	•	•	•	•			.472	.260	.138	.031	.061
AXMT123512PEERG	•	•	•	•	•			.472	.260	.138	.047	.061
AXMT123512PEERH	•	•	•	•	•			.472	.260	.138	.047	.061
AXET123502PEFRS						•	•	.472	.260	.138	.047	.061
AXET123504PEFRS						•	•	.472	.260	.138	.016	.061
AXET123508PEFRS						•	•	.472	.260	.138	.031	.061
AXMT170504PEERG	•	•	•	•	•			.689	.402	.219	.016	.118
AXMT170508PEERG	•	•	•	•	•			.689	.402	.219	.031	.118
AXMT170508PEERH	•	•	•	•	•			.689	.402	.219	.031	.118
AXMT170508PEERL	•	•	•	•	•			.689	.402	.219	.031	.118
AXMT170512PEERG	•	•	•	•	•			.689	.402	.219	.047	.118
AXMT170512PEERH	•	•	•	•	•			.689	.402	.219	.047	.118
AXMT170516PEERG	•	•	•	•	•			.689	.402	.219	.063	.118
AXMT170520PEERG	•	•	•	•	•			.689	.402	.219	.079	.118
AXMT170530PEERG	•	•	•	•	•			.689	.402	.219	.118	.118
AXMT170532PEERG	•	•	•	•	•			.689	.402	.219	.126	.118
AXET170502PEFRS						•	•	.689	.402	.219	.008	.118
AXET170504PEFRS						•	•	.689	.402	.219	.016	.118
AXET170508PEFRS						•	•	.689	.402	.219	.031	.118



Catalog No.	Dimensions (Inches)							Ramp Angle	# of Teeth	Insert Purchase Required	
	D	d ₁	d ₂	a	t	H	h				
AXMT12	WEX21500R	1.500	0.750	0.453	0.312	0.187	1.562	0.750	2°	6	60
	WEX22000R	2.000	0.750	0.406	0.312	0.187	1.562	0.750	1°	7	70
	WEX22500R	2.500	1.000	0.531	0.375	0.218	1.562	0.750	0° 30'	8	80
	WEX32000R	2.000	0.750	0.406	0.312	0.187	1.562	0.750	1°	5	40
	WEX32500R	2.500	1.000	0.531	0.375	0.218	1.562	0.750	0° 30'	6	50
	WEXC33000R	3.000	1.000	0.531	0.375	0.218	1.750	0.750	0° 30'	5	50
	WEX33000R	3.000	1.000	0.531	0.375	0.218	1.750	0.750	0° 30'	7	70
	WEXC34000R	4.000	1.250	0.656	0.500	0.281	2.000	0.750	N/A	6	60
	WEX34000R	4.000	1.250	0.655	0.500	0.281	2.000	0.750	N/A	8	80

Plan B
Already have a cutter?
Buy 40 inserts - Get 10 FREE!

Offer valid through June 30, 2010

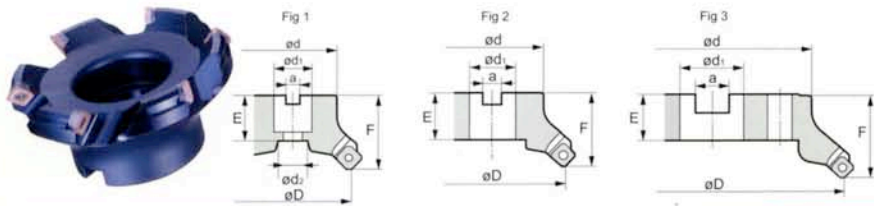
WGC Indexable Milling

45° End/Shell Mills



Features & Benefits

- Feed rate capabilities up to 30% higher than 90° tooling for high performance in face milling applications
- Cutter and insert design promote efficient cutting action with low horsepower consumption
- Light cutter assembly weight
- Minimal body overhang facilitates machining close to fixturing and/or part details
- Screw on insert design features carbide back up seats for durability and ease of repair while offering easy set-up and indexing
- Inserts available in "M" class, "E" class, and several chipbreakers/edge preps for almost any situation



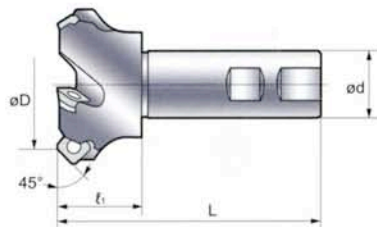
Plan A

FREE WGC cutter with the purchase of required insert quantity

Plan B

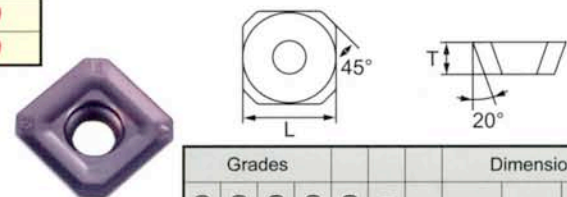
Already have a cutter? Buy 40 inserts- Get 10 FREE!

Catalog No.	Dimensions (Inches)							# of Teeth	Fig.	Pitch	Insert Purchase Required
	D	d ₁	d ₂	F	d	a	E				
WGC4200SR	2.000	0.750	0.406	1.750	1.500	0.312	1.020	3	1	Coarse	70
WGCF4200SR	2.000	0.750	0.406	1.750	1.500	0.312	1.020	4	1	Fine	80
WGC4250SR	2.500	1.000	0.531	1.750	1.750	0.375	1.020	4	1	Coarse	80
WGCF4250SR	2.500	1.000	0.531	1.750	1.750	0.375	1.020	5	1	Fine	80
WGC4300SR	3.000	1.000	0.531	1.750	2.250	0.375	1.020	4	1	Coarse	80
WGCF4300SR	3.000	1.000	0.531	1.750	2.250	0.375	1.020	6	1	Fine	90
WGC4400SR	4.000	1.250	0.656	2.000	2.870	0.500	1.020	5	1	Coarse	80
WGCF4400SR	4.000	1.250	0.656	2.000	2.870	0.500	1.020	7	1	Fine	100
WGC4500SR	5.000	1.500	-	2.500	3.750	0.625	1.060	6	2	Coarse	100
WGCF4500SR	5.000	1.500	-	2.500	3.750	0.625	1.060	8	2	Fine	120
WGC4600SR	6.000	1.500	-	2.500	4.380	0.625	1.060	7	2	Coarse	120
WGCF4600SR	6.000	1.500	-	2.500	4.380	0.625	1.060	10	2	Fine	150
WGC4800SR	8.000	2.500	-	2.500	5.120	1.000	1.595	8	3	Coarse	200
WGCF4800SR	8.000	2.500	-	2.500	5.120	1.000	1.595	12	3	Fine	200



Catalog No.	Dimensions (Inches)				# of Teeth	Insert Purchase Required
	D	d	L	l ₁ *		
WGC4200WR	2.000	1.250	3.970	1.7094	3	80
WGC4250WR	2.500	1.250	3.970	1.7094	4	80

*Represents the actual extension from holder



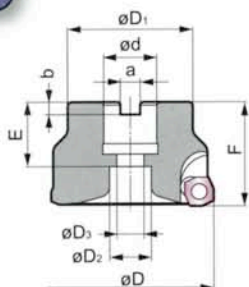
Catalog No.	Grades						Dimensions (Inches)				
	ACK200	ACK300	ACP100	ACP200	ACP300	DL1000	H1	L	T	Facet Width	Facet Radii
SEET13T3AGFNL						•	•	0.528	0.156	0.0639	0.0394
SEET13T3AGSNG	•	•	•	•	•			0.528	0.156	0.0639	0.0394
SEET13T3AGSNN	•	•	•	•	•			0.528	0.156	0.0639	0.0394
SEMT13T3AGSNG	•	•	•	•	•			0.528	0.156	0.0639	0.0394
SEMT13T3AGSNH	•	•	•	•	•			0.528	0.156	0.0639	0.0394
SEMT13T3AGSNL	•	•	•	•	•			0.528	0.156	0.0639	0.0394

Note: SEET is a close tolerance, peripheral ground insert type which may provide better surface finish and repeatability

Offer valid through June 30, 2010

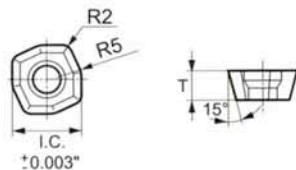
Metal Slash Mill

High Efficiency Shell Mills



Features & Benefits

- Screw on insert assembly
- U.S. stock standard bodies available in 2.000" - 4.000" diameters
- High feed rates (maximum feed rate = 0.078 IPT) result in high productivity milling
- Four corner insert design yields low tooling costs per part
- Unique design directs cutting forces into the machine spindle to facilitate high feed rates even in low rigidity conditions



Catalog No.	Grades				Dimensions (Inches)			
	ACP200	ACP300	ACK200	ACK300	I.C.	T	R2	R5
SDMW1406ZDTR	•	•	•	•	0.551	0.236	0.079	0.197

Catalog No.	Dimensions (Inches)									# of Teeth	Insert Purchase Required
	D	D ₁	D ₂	D ₃	F	d	a	b	E		
MS14020SR	2.000	1.500	0.609	0.406	1.750	0.750	0.319	0.190	1.020	4	50
MS14025SR	2.500	1.750	0.797	0.531	1.750	1.000	0.375	0.220	1.020	4	50
MS14030R	3.000	2.250	0.797	0.531	1.750	1.000	0.375	0.220	1.020	5	60
MS14040R	4.000	2.870	1.000	0.656	2.000	1.250	0.500	0.280	1.020	6	70

Plan A
FREE MS Mill with the purchase of required insert quantity

Plan B
**Already have a mill?
 Buy 40 inserts - Get 10 FREE!**

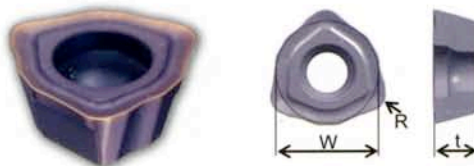
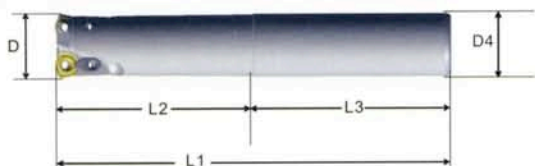
MSX Mill Series

High Efficiency Endmills



Features & Benefits

- High feed rate--up to .055 IPT
- Higher clamping rigidity due to double clamping system
- Air holes allow for better chip evacuation
- U.S. stock standard bodies available in .750" - 1.500"
- Capable of both ramping and helical boring applications
- Available in Weldon (EW) and Cylindrical (ELC) type shanks



Sumitomo Cat. No.	Stock	Dimensions (in)					# of teeth	Insert Purchase Required
		D	D ₄	L ₁	L ₂	L ₃		
MSX20750EW	•	0.750	0.750	5.125	2.000	2.031	3	30
MSX20750ELC	•		0.750	8.000	2.000	6.000	3	30
MSX31000EW	•	1.000	1.000	4.781	2.500	2.281	2	40
MSX31000ELC	•		1.000	10.000	2.500	7.500	2	40
MSX41250EW	•	1.250	1.250	4.781	2.500	2.281	2	40
MSX41250ELC	•		1.250	10.000	2.500	7.500	2	40
MSX41500EW	•	1.500	1.250	4.781	2.500	2.281	2	40
MSX41500ELC	•		1.500	10.000	2.500	7.500	2	40

Insert	ACK200	ACK300	ACP200	ACP300	Insert Dimensions (in)		
					W	R	t
WDMT0603ZDTR	•	•	•	•	.250	.0591	.1181
WDMT0804ZDTR	•	•	•	•	.335	.0787	.1575
WDMT1205ZDTR	•	•	•	•	.472	.0787	.1969
WDMT1205ZDTR	•	•	•	•	.472	.0787	.1969

Offer valid through June 30, 2010

Coated Grades ACP / ACK



DL1000/H1



Grade Applications

• for Steel & Stainless Steel

Grade	Coating	Description
ACP100	CVD	Al ₂ O ₃ based "Super FF" coating with an ultra fine TiCN layer for high speed and wet cutting of steels and stainless steels; super tough substrate for better wear and thermal cracking resistance.
ACP200	PVD	Multi-layered "Super ZX" coating consisting of nanometer thick TiAlN and AlCrN layers, coupled with fine-grained tough substrate for excellent balance of fracture and wear resistance; for general purpose milling of steels and stainless steels.
ACP300	PVD	Multi-layered "Super ZX" coating consisting of nanometer thick TiAlN and AlCrN layers, coupled with fine-grained super tough substrate for excellent fracture resistance; ideal for interrupted machining of steels and stainless steels.

• for Cast Iron

Grade	Coating	Description
ACK200	CVD	Al ₂ O ₃ based "Super FF" coating with an ultra fine TiCN layer provides excellent anti-adhesion and wear resistance in general purpose milling of gray and ductile cast irons.
ACK300	PVD	Multi-layered "Super ZX" coating consisting of nanometer thick TiAlN and AlCrN layers, coupled with fine-grained super tough substrate for excellent fracture resistance; for general to interrupted machining of gray and ductile cast irons.

• for Non-Ferrous Material

Grade	Coating	Description
DL1000	DLC	"Diamond-Like Carbon" coated grade with exceptional wear resistance and superior surface finish capabilities when milling non-ferrous materials.
H1	J-Polish	Uncoated carbide grade with "J-Polish" to reduce chip adhesion when finish milling non-ferrous materials.