

# WGC Milling Cutter

## WGC Milling Cutter

### Features and Benefits

- 45° Lead Angle facilitates feed rate capabilities up to 30% higher than 90° tooling for high performance in face milling applications
- Cutter rake angles and insert design promote efficient cutting action with low horsepower consumption
- Light cutter assembly weight
- Lack of 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
- Accepts the widest variety of inserts of any Sumitomo milling cutter
- Available in "M" class (molded), "E" class, and several chipbreakers/edge preps and grades for almost any situation



## WGC Weldon Shank Series



Catalog Number	Dimensions (inches)				No. of Teeth	Max D.O.C.
	D	d	L	l <sup>*</sup>		
WGC4200WR	2.00	1.25	3.97	1.7094	3	0.250
WGC4250WR	2.500	1.25	3.97	1.7094	4	

\* This figure represents the actual extension from holder

## Inserts

Sumitomo Cat. No.	Coated				Cermet		Uncoated		PCD		Dimensions (Inches)			
	ACZ310	ACZ330	ACZ350	DL1000	T250A	A30N	EH520	H1	DA2200	I.C.	T	Facet Width	Facet Radii	
SEET13T3AGFNL	•	•	•	•	•	•	•	•	•	0.528	0.156	0.0639	0.0394	
SEET13T3AGSNG	•	•	•	•	•	•	•	•	•					
SEET13T3AGSNN	•	•	•	•	•	•	•	•	•					
SEMT13T3AGSNG	•	•	•	•	•	•	•	•	•					
SEMT13T3AGSNH	•	•	•	•	•	•	•	•	•					
SEMT13T3AGSNL	•	•	•	•	•	•	•	•	•					
NF-SECW13T3AGTNN	•	•	•	•	•	•	•	•	•					

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

## Hardware

Catalog Number	Seat	Insert Screw*	Seat Screw**	Insert Wrench	Seat Wrench
WGC42□□WR	WGCS13R	BFTX03512IP	BW0507F	TRDR15IP	LH035

\* Torque specifications for insert screw=24-29 in/lbs.

\*\*Torque specifications for seat screw=42-46 in/lbs.

**See pages 92-93  
For recommended  
running parameters**

## WGC & WGC Shell Mill Series

Catalog Number	Dimensions (inches)							No. of Teeth	Max D.O.C.	Fig.	Pitch
	D	d <sub>1</sub>	d <sub>2</sub>	F	d	a	E				
WGC4200SR	2.000	0.75	0.406	1.75	1.50	0.312	1.020	0.250	1	Coarse	
WGC4250SR	2.500	1.00	0.531	1.75	1.75	0.375	1.020				Fine
WGC4300SR	3.000	1.00	0.531	1.75	2.25	0.375	1.020			Coarse	
WGC4400SR	4.000	1.25	0.656	2.00	2.87	0.500	1.020				Fine
WGC4500SR	5.000	1.50	-	2.50	3.75	0.625	1.060			Coarse	
WGC4600SR	6.000	1.50	-	2.50	4.38	0.625	1.060				Fine
WGC4800SR	8.000	2.50	-	2.50	5.12	1.000	1.595			Coarse	
WGC4800SR	8.000	2.50	-	2.50	5.12	1.000	1.595				Fine

Note: F denotes fine pitch

### Coarse Pitch



### Fine Pitch



## Inserts

Sumitomo Cat. No.	Coated				Cermet		Uncoated		PCD		Dimensions (Inches)			
	ACZ310	ACZ330	ACZ350	DL1000	T250A	A30N	EH520	H1	DA2200	I.C.	T	Facet Width	Facet Radii	
SEET13T3AGFNL	•	•	•	•	•	•	•	•	•	0.528	0.156	0.0639	0.0394	
SEET13T3AGSNG	•	•	•	•	•	•	•	•	•					
SEET13T3AGSNN	•	•	•	•	•	•	•	•	•					
SEMT13T3AGSNG	•	•	•	•	•	•	•	•	•					
SEMT13T3AGSNH	•	•	•	•	•	•	•	•	•					
SEMT13T3AGSNL	•	•	•	•	•	•	•	•	•					
NF-SECW13T3AGTNN	•	•	•	•	•	•	•	•	•					

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



For roughing or where surface finish is not critical, take advantage of the economical SEMT style molded inserts.

### Insert Application Key

- L Light depth of cut applications
- G General purpose cutting applications
- N No chipbreaker
- H Heavy cutting applications

## Hardware

Catalog Number	Seat	Insert Screw*	Seat Screw**	Insert Wrench	Seat Wrench
WGC4□□□SR	WGCS13R	BFTX03512IP	BW0507F	TRDR15IP	LH035
WGC4□□□SR	WGCS13R	BFTX03512IP	BW0507F	TRDR15IP	LH035

\* Torque specifications for insert screw=24-29 in/lbs.

\*\*Torque specifications for seat screw=42-46 in/lbs.

**See pages 92-93  
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