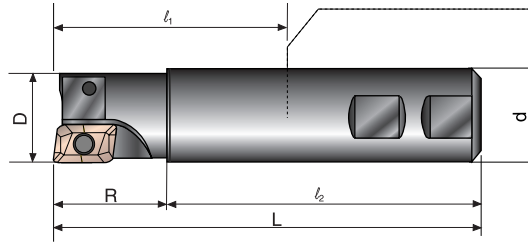


# Wave Mill Series Indexable End Mills



## Weldon Shank Series

Catalog Number	"D" dia. (Inch)	"d" dia.	L	l <sub>1</sub>	R	l <sub>2</sub>	Pitch	# of Inserts	Ramp Angle	Insert
WEM3108RW	1/2	0.750	3.325	1.309	1.294	2.031	Coarse	1	6°	AP T10
WEM3210RW	5/8	0.625	3.375	1.482	1.000	2.375	Fine	2	4°	AP T10
WEM3212RW	3/4	0.750	3.625	1.609	1.250	2.375	Coarse	2	2° 30'	AP T10
WEM3312RW	3/4	0.750	3.625	1.609	1.250	2.375	Fine	3	2° 30'	AP T10
WEM3212RWM	3/4	0.750	5.075	3.044	3.044	2.031	Coarse	2	2° 30'	AP T10
WEM3312RWM	3/4	0.750	5.075	3.044	3.044	2.031	Fine	3	2° 30'	AP T10
WEM3314RW	7/8	0.750	3.625	1.609	1.250	2.375	Fine	3	2°	AP T10
WEM3216RW	1	0.750	3.750	1.734	1.375	2.375	Coarse	2	2°	AP T10
WEM3416RW	1	0.750	3.750	1.734	1.375	2.375	Fine	4	2°	AP T10
WEM5216RW	1	1.000	4.500	2.2394	1.378	3.122	Coarse	2	2°	AP T16
WEM3216RWM	1	1.000	5.560	3.279	3.279	2.281	Coarse	2	2°	AP T10
WEM3416RWM	1	1.000	6.320	4.039	4.039	2.281	Fine	4	2°	AP T10
WEM5216RWM	1	1.000	6.320	4.039	4.039	2.281	Coarse	2	2°	AP T16
WEM5216RWL	1	1.250	8.062	5.781	5.781	2.281	Coarse	2	2°	AP T16
WEM3418RW	1 1/8	1.000	3.937	1.6764	1.375	2.562	Fine	4	1° 30'	AP T10
WEM3320RW	1 1/4	1.250	4.060	1.779	1.779	2.281	Coarse	3	1° 30'	AP T10
WEM3520RW	1 1/4	1.000	4.060	1.779	1.779	2.281	Fine	5	1° 30'	AP T10
WEM5320RW	1 1/4	1.250	5.000	2.7394	1.693	3.307	Coarse	3	1° 30'	AP T16
WEM3320RWM	1 1/4	1.250	6.325	4.044	4.044	2.281	Coarse	3	1° 30'	AP T10
WEM3520RWM	1 1/4	1.250	6.325	4.044	4.044	2.281	Fine	5	1° 30'	AP T10
WEM5320RWM	1 1/4	1.250	6.562	4.281	4.281	2.281	Coarse	3	1° 30'	AP T16
WEM5320RWL	1 1/4	1.250	8.562	6.281	6.281	2.281	Coarse	3	1° 30'	AP T16
WEM3624RW	1 1/2	1.000	4.375	2.1144	1.625	2.750	Fine	6	1°	AP T10
WEM5424RW	1 1/2	1.250	5.000	2.7394	1.750	3.250	Coarse	4	1°	AP T16
WEM3624RWM	1 1/2	1.500	6.750	4.062	4.062	2.688	Fine	6	1°	AP T10
WEM3624RWL	1 1/2	1.500	8.250	5.562	5.562	2.688	Fine	6	1°	AP T10
WEM5424RWL	1 1/2	1.500	9.750	7.062	7.062	2.688	Coarse	4	1°	AP T16
WEM3732RW	2	1.000	4.375	2.1144	1.625	2.750	Fine	7	0° 30'	AP T10
WEM5532RW	2	1.250	5.000	2.7394	1.750	3.250	Coarse	5	0° 30'	AP T16

## Inserts

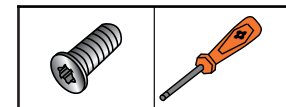
Note: The l<sub>1</sub> dimension represents the actual extension from a standard holder

Sumitomo Cat. No.	Coated			Uncoated		Dimensions (Inches)					Figure
	ACZ310	ACZ330	ACZ350	DL1000	H1	L	W	T	R	Facet Width	
APET103504PDER	•	•	•	•		0.394	0.250	0.138	0.016	0.0315	1
APET103504PDFR-J	•	•	•	•						0.0315	
APET160504PDFR-J	•	•	•	•						0.0827	
APET160508PDER	•	•	•	•		0.630	0.375	0.218	0.031	0.071	
APET160508PDFR-J	•	•	•	•						0.071	
APMT103504PDER	•	•	•	•					0.016		2
APMT103504PDER-H	•	•	•	•							
APMT103508PDER	•	•	•	•		0.394	0.250	0.138	0.031		
APMT103508PDER-H	•	•	•	•							
APMT103512PDER	•	•	•	•					0.047		
APMT103512PDER-H	•	•	•	•							
APMT160508PDER	•	•	•	•							
APMT160508PDER-H	•	•	•	•					0.031		
APMT160512PDER	•	•	•	•							
APMT160512PDER-H	•	•	•	•		0.630	0.375	0.218	0.047		
APMT160516PDER	•	•	•	•							
APMT160516PDER-H	•	•	•	•					0.063		
APMT160532PDER-H	•	•	•	•					0.125		

"J" denotes inserts with a polished face.

"H" denotes inserts with heavy edge preparation.

## Hardware



Catalog Number	Screw	Wrench
WEM3□□□RW□	BFTX02506N	TRD08
WEM5□□□RW□	BFTX03584	TRD15

Torque specifications for BFTX02506N insert screw=10-14 inch/lbs.

Torque specifications for BFTX03584 insert screw=27-31 inch/lbs.

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

MILLING

# Wave Mill Series Indexable End Mills



## WEM Shell Mill Series

Catalog Number	Dimensions							No. of Teeth	Ramp Angle	Insert
	D	d <sub>1</sub>	d <sub>2</sub>	a	t	H	h			
WEM315EX	1.500	.750	.453	.312	.187	1.562	.750	6	1°	AP_T10
WEM320EX	2.000	.750	.453	.312	.187	1.562	.750	7	0° 30"	AP_T10
WEM325EX	2.500	1.000	.531	.375	.218	1.562	.750	9	0° 30"	AP_T10
WEM520EX	2.000	.750	.453	.312	.187	1.562	.750	5	0° 30"	AP_T16
WEM525EX	2.500	1.000	.531	.375	.218	1.562	.750	6	0° 30"	AP_T16

## Inserts

Sumitomo Cat. No.	Figure 1				Figure 2				Dimensions (Inches)			Figure
	Coated		Uncoated		L	W	T	R	Facet Width			
	ACZ310	ACZ330	ACZ350	DL1000	H1							
APET103504PDER	•	•	•	•		0.394	0.250	0.138	0.016	0.0315	1	
APET103504PDFR-J	•	•	•	•					0.0315			
APET160504PDFR-J	•	•	•	•		0.630	0.375	0.218	0.0827			
APET160508PDER	•	•	•	•					0.071			
APET160508PDFR-J	•	•	•	•					0.031	0.071		
APMT103504PDER	•	•	•	•					0.016		2	
APMT103504PDER-H	•	•	•	•								
APMT103508PDER	•	•	•	•		0.394	0.250	0.138	0.031	N/A		
APMT103508PDER-H	•	•	•	•								
APMT103512PDER	•	•	•	•					0.047			
APMT103512PDER-H	•	•	•	•								
APMT160508PDER	•	•	•	•					0.031			
APMT160508PDER-H	•	•	•	•								
APMT160512PDER	•	•	•	•		0.630	0.375	0.218	0.047			
APMT160512PDER-H	•	•	•	•								
APMT160516PDER	•	•	•	•					0.063			
APMT160516PDER-H	•	•	•	•								
APMT160532PDER-H	•	•	•	•					0.125			

"J" denotes inserts with a polished face.  
"H" denotes inserts with heavy edge preparation.

## Hardware

Catalog Number	Screw	Wrench
WEM3□□EX	BFTX02506N	TRD08
WEM5□□EX	BFTX03584	TRD15

Torque specifications for BFTX02506N insert screw=10-14 inch/lbs.

Torque specifications for BFTX03584 insert screw=27-31 inch/lbs.

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