SUPER COBALT END MILLS

ICS USA

HEAVY DUTY

CENTER CUTTING

Super Cobalt End Mills have a high resistance to abrasion and will stay sharp even when the cutting edge is subjected to extreme temperatures. Ideal for stainless steels and other work hardening alloys.

TiN Coated Super Cobalt End Mills combine the best features of cobalt and TiN coating. While many dramatic improvements in tool life have been claimed for TiN coating, only when a very hard material such as super cobalt is used, can the full potential of TiN coating be realized. This is because the very high RC 80 hardness of the TiN coating cannot be effective under machining stresses which can deform or degrade the structure of the much less hard material which it overlays.

2 Flute - Single End

2 Flute Ball Nose Single End



REGULAR LENGTH

RIGHT HAND CUT RIGHT HAND HELIX



REGULAR LENGTH

				PRICE EACH		
	SHANK	FLUTE	OVERALL	SUPER COBALT	TiN COATED	
SIZE	DIA.	LENGTH	LENGTH	EMC-2R	EMC-2T	
1/8	3/8	3/8	2-5/16	15.42	20.98	
3/16	3/8	7/16	2-5/16	15.42	20.98	
1/4	3/8	1/2	2-5/16	15.42	20.98	
5/16	3/8	9/16	2-5/16	16.42	21.98	
3/8	3/8	9/16	2-5/16	16.42	21.98	
1/2	1/2	13/16	2-1/2	23.70	33.58	
5/8	5/8	1-1/8	3-1/8	35.46	47.94	
3/4	3/4	1-5/16	3-9/16	47.28	63.52	
1	3/4	1-1/2	3-3/4	71.28	89.26	
1	1	1-1/2	4-1/8	71.28	92.62	
1-1/4	1-1/4	1-5/8	4-1/8	120.86	150.70	
1-1/2	1-1/4	1-5/8	4-1/8	147.24	188.80	

	PRICE EACH				
	SHANK	FLUTE	OVERALL	SUPER COBALT	TiN COATED
SIZE	DIA.	LENGTH	LENGTH	EMC-2B	EMC-2BT
1/8	3/8	3/8	2-5/16	27.00	32.56
3/16	3/8	1/2	2-3/8	27.00	32.56
1/4	3/8	5/8	2-7/16	27.00	32.56
5/16	3/8	3/4	2-1/2	29.80	35.36
3/8	3/8	3/4	2-1/2	29.80	35.36
1/2	1/2	1	3	45.32	55.20
5/8	5/8	1-3/8	3-1/2	62.84	75.32
3/4	3/4	1-5/8	3-7/8	73.84	90.08
1	1	2-1/4	4-3/4	117.88	139.20
1-1/4	1-1/4	2-1/2	5	143.58	173.40
1-1/2	1-1/4	2-1/2	5	159.76	201.32

TOLERANCES

Flute Dia.: + .003 - .000" Shank Dia.: + .0005 - .0005"

2 Flute - Double End



REGULAR LENGTH

				PRICE EACH		
	SHANK	FLUTE	OVERALL	SUPER COBALT	TiN COATED	
SIZE	DIA.	LENGTH	LENGTH	DEMC-2R	DEMC-2T	
1/8	3/8	3/8	3-1/16	24.04	33.60	
5/32	3/8	7/16	3-1/8	24.04	33.60	
3/16	3/8	7/16	3-1/8	24.04	33.60	
7/32	3/8	1/2	3-1/8	24.04	33.60	
1/4	3/8	1/2	3-1/8	24.04	33.60	
9/32	3/8	9/16	3-1/8	25.44	35.00	
5/16	3/8	9/16	3-1/8	25.44	35.00	
11/32	3/8	9/16	3-1/8	25.44	35.00	
3/8	3/8	9/16	3-1/8	25.44	35.00	
13/32	1/2	13/16	3-3/4	34.50	50.54	

·	PRICE EACH				
	SHANK	FLUTE	OVERALL	SUPER COBALT	TiN COATED
SIZE	DIA.	LENGTH	LENGTH	DEMC-2R	DEMC-2T
7/16	1/2	13/16	3-3/4	34.50	50.54
15/32	1/2	13/16	3-3/4	34.50	50.54
1/2	1/2	13/16	3-3/4	34.50	50.54
9/16	5/8	1-1/8	4-1/2	50.52	69.72
5/8	5/8	1-1/8	4-1/2	50.52	69.72
11/16	3/4	1-5/16	5	63.14	89.74
3/4	3/4	1-5/16	5	63.14	89.74
7/8	7/8	1-9/16	5-1/2	79.20	116.56
1	1	1-5/8	5-7/8	99.20	136.38

TOLERANCES

Flute Dia.: +.0000 -.0015" Shank Dia.: +.0005 -.0005"

NOTE: All Cobalt End Mills are furnished with a Weldon flat on the shank.