

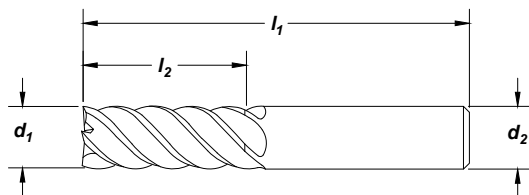


Styles: CEM-EMS-5

Steel Materials



Surface Treatment



cutting diameter d₁		shank diameter d₂	length of cut l₂ (in)	overall length l₁ (in)	no. of flutes	corner radius	order number CEM-EMS-5	
fractional	decimal						bright	TiAlN
1/8	.1250	1/8	1/4	1-1/2	5	0.000	C60417	C80417
1/8	.1250	1/8	1/2	1-1/2	5	0.000	C60418	C80418
1/8	.1250	1/8	1/2	2	5	0.000	C60419	C80419
5/32	.1562	3/16	5/16	2	5	0.000	C60420	C80420
5/32	.1562	3/16	9/16	2	5	0.000	C60421	C80421
3/16	.1875	3/16	5/16	2	5	0.000	C60422	C80422
3/16	.1875	3/16	9/16	2	5	0.000	C60423	C80423
7/32	.2188	1/4	3/8	2	5	0.000	C60424	C80424
7/32	.2188	1/4	3/4	2-1/2	5	0.000	C60425	C80425
1/4	.2500	1/4	3/8	2	5	0.000	C60426	C80426
1/4	.2500	1/4	3/4	2-1/2	5	0.000	C60427	C80427
1/4	.2500	1/4	1-1/4	4	5	0.000	C60428	C80428
9/32	.2812	5/16	7/16	2	5	0.000	C60429	C80429
9/32	.2812	5/16	13/16	2-1/2	5	0.000	C60430	C80430
5/16	.3125	5/16	7/16	2	5	0.000	C60431	C80431
5/16	.3125	5/16	13/16	2-1/2	5	0.000	C60432	C80432
5/16	.3125	5/16	1-1/4	4	5	0.000	C60433	C80433
3/8	.3750	3/8	1/2	2	5	0.000	C60434	C80434
3/8	.3750	3/8	7/8	2-1/2	5	0.000	C60435	C80435
3/8	.3750	3/8	1-1/2	4	5	0.000	C60436	C80436
7/16	.4375	7/16	9/16	2-1/2	5	0.000	C60437	C80437
7/16	.4375	7/16	1	2-1/2	5	0.000	C60438	C80438
7/16	.4375	7/16	2	4	5	0.000	C60439	C80439
1/2*	.5000	1/2	5/8	2-1/2	5	0.000	C60440	C80440
1/2*	.5000	1/2	1-1/4	3	5	0.000	C60441	C80441
1/2*	.5000	1/2	2	4	5	0.000	C60442	C80442
9/16*	.5625	9/16	1-1/2	3 1/2	5	0.000	C60443	C80443
5/8*	.6250	5/8	3/4	3	5	0.000	C60444	C80444
5/8*	.6250	5/8	1-5/8	4	5	0.000	C60445	C80445
5/8*	.6250	5/8	2-1/2	5	5	0.000	C60446	C80446
3/4*	.7500	3/4	7/8	3	5	0.000	C60447	C80447
3/4*	.7500	3/4	1-5/8	4	5	0.000	C60448	C80448
3/4*	.7500	3/4	3 1/4	6	5	0.000	C60449	C80449
7/8*	.8750	7/8	2	4	5	0.000	C60450	C80450
1*	1.0000	1	1-1/8	3	5	0.000	C60451	C80451
1*	1.0000	1	2	4	5	0.000	C60452	C80452
1*	1.0000	1	3 1/4	6	5	0.000	C60453	C80453

*Weldon shank; all others plain shank

Material Reference	Steel (HRC)				Stainless Steel			Cast Iron (HRC)		Aluminum and Non-Ferrous	Hi-Temp Alloy		Hardened Steel (HRC)
	Low Carbon		Alloy		Austenitic	Martensitic	PH	Gray	Nodular		Ni, Co, Fe Based Super Alloy	Titanium	
	Hardness	13-38	>38	16-38	> 38	300 Series	400 series		18-22	22-32			>45
TiAlN	☆	◆	☆	◆	☆	☆	◆						◆

☆ = Best Performance ◆ = Acceptable

Carbide Center Cutting

