

C

CLEVELAND

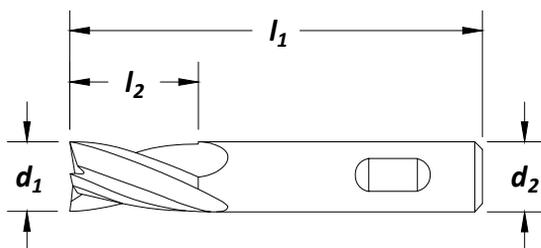
Style: **HG-4C - Single End**

General Purpose
Multi Flute



Surface Treatment

Bright TiN TiCN



Feature:

Heavy cross-section for high rigidity.

cutting diameter	decimal equiv.	shank dia d ₂ (in)	length of cut l ₂ (in)	overall length l ₁ (in)	no. of flutes	order number		
						Bright	TiN	TiCN
1/8	.1250	.375	.375	2.313	4	C41243	C41520	C33240
9/64	.1406	.375	.500	2.375	4	C33141	C33188	C33241
5/32	.1562	.375	.500	2.375	4	C33142	C33189	C33242
11/64	.1719	.375	.500	2.375	4	C33143	C33190	C33243
3/16	.1875	.375	.500	2.375	4	C41245	C41521	C33244
3/16	.1875	.375	1.250	3.063	4	C33371	C33384	C33406
3/16	.1875	.375	1.750	3.563	4	C33428	C33438	C33457
13/64	.2031	.375	.625	2.438	4	C33144	C33191	C33245
7/32	.2188	.375	.625	2.438	4	C33145	C33192	C33246
7/32	.2188	.375	1.250	3.063	4	C33372	C33385	C33407
7/32	.2188	.375	1.750	3.563	4	C33429	C33439	C33458
15/64	.2344	.375	.625	2.438	4	C33146	C33193	C33247
1/4	.2500	.375	.625	2.438	4	C41248	C41522	C33248
1/4	.2500	.375	1.250	3.063	4	C41326	C33386	C33408
1/4	.2500	.375	1.750	3.563	4	C41381	C33440	C33459
17/64	.2656	.375	.750	2.500	4	C33147	C33194	C33249
9/32	.2812	.375	.750	2.500	4	C33148	C33195	C33250
9/32	.2812	.375	1.375	3.125	4	C33373	C33387	C33409
9/32	.2812	.375	2.000	3.750	4	C33430	C33441	C33460
19/64	.2969	.375	.750	2.500	4	C33149	C33196	C33251
5/16	.3125	.375	.750	2.500	4	C41250	C41523	C33252
5/16	.3125	.375	1.375	3.125	4	C41328	C33388	C33410
5/16	.3125	.375	2.000	3.750	4	C41383	C33442	C33461
21/64	.3281	.375	.750	2.500	4	C33150	C33197	C33253
11/32	.3438	.375	.750	2.500	4	C33151	C33198	C33254
11/32	.3438	.375	1.500	3.250	4	C33374	C33389	C33411
11/32	.3438	.375	2.500	4.250	4	C33431	C33443	C33462
23/64	.3594	.375	.750	2.500	4	C33152	C33199	C33255
3/8	.3750	.375	.750	2.500	4	C41253	C41524	C33256
3/8	.3750	.375	1.500	3.250	4	C41331	C33390	C33412
3/8	.3750	.375	2.500	4.250	4	C41386	C33444	C33463
25/64	.3906	.375	1.000	2.688	4	C33153	C33200	C33257
13/32	.4062	.375	1.000	2.688	4	C33154	C33201	C33258
13/32	.4062	.375	2.750	4.500	4	C33432	C33445	C33464
13/32	.4062	.500	1.750	3.750	4	C33375	C33391	C33413

continued on next page

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	
	13-38	>38	16-38	> 38	300 Series	400 series		18-22	22-32				
Hardness	13-38	>38	16-38	> 38	300 Series	400 series		18-22	22-32			>45	
TiN	★		★					★					
TiCN	★		★					★		★			

★ = Best Performance ◆ = Acceptable

High Speed Steel

Center Cutting