



CLEVELAND

Style: HGC-4C - Single End

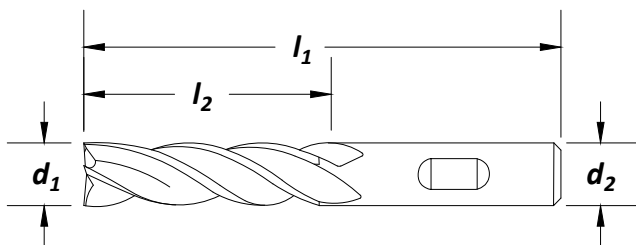
Finisher

Note
Operating parameters
begin on page 310.



Surface Treatment

Bright TiN TiCN



Feature:

High red hardness for high heat conditions. 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	C42684	C32574	C32610
5/32	.1562	.375	.500	2.375	4	C32556	C32575	C32611
11/64	.1719	.375	.500	2.375	4	C32557	C32576	C32612
3/16	.1875	.375	.500	2.375	4	C42686	C32577	C32613
13/64	.2031	.375	.625	2.438	4	C32558	C32578	C32614
7/32	.2188	.375	.625	2.438	4	C32559	C32579	C32615
15/64	.2344	.375	.625	2.438	4	C32560	C32580	C32616
1/4	.2500	.375	.625	2.438	4	C42689	C32581	C32617
1/4	.2500	.375	1.250	3.063	4	C32646	C32655	C32673
1/4	.2500	.375	1.750	3.563	4	C32691	C32700	C32718
17/64	.2656	.375	.750	2.500	4	C32561	C32582	C32618
9/32	.2812	.375	.750	2.500	4	C32562	C32583	C32619
9/32	.2812	.375	1.375	3.125	4	C32647	C32656	C32674
9/32	.2812	.375	2.000	3.750	4	C32692	C32701	C32719
19/64	.2969	.375	.750	2.500	4	C32563	C32584	C32620
5/16	.3125	.375	.750	2.500	4	C42691	C32585	C32621
5/16	.3125	.375	1.375	3.125	4	C32648	C32657	C32675
5/16	.3125	.375	2.000	3.750	4	C32693	C32702	C32720
21/64	.3281	.375	.750	2.500	4	C32564	C32586	C32622
11/32	.3438	.375	.750	2.500	4	C32565	C32587	C32623
11/32	.3438	.375	1.500	3.250	4	C32649	C32658	C32676
11/32	.3438	.375	2.500	4.250	4	C32694	C32703	C32721
23/64	.3594	.375	.750	2.500	4	C32566	C32588	C32624
3/8	.3750	.375	.750	2.500	4	C42694	C32589	C32625
3/8	.3750	.375	1.500	3.250	4	C42857	C32659	C32677
3/8	.3750	.375	2.500	4.250	4	C42913	C32704	C32722
25/64	.3906	.375	1.000	2.688	4	C32567	C32590	C32626
13/32	.4062	.375	1.000	2.688	4	C32568	C32591	C32627
13/32	.4062	.375	1.750	3.750	4	C32650	C32660	C32678
13/32	.4062	.375	2.750	4.500	4	C32695	C32705	C32723
27/64	.4219	.375	1.000	2.688	4	C32569	C32592	C32628

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													
TiN	★		★		★	★					★		
TiCN	★		★		★	★	★				★	★	

★ = Best Performance ◆ = Acceptable



Cobalt Center Cutting