

Double End Finishers

Style HD-2 • HSS, Double End, 2-Flute, Center Cutting

formerly styles 684, 693

DRILLING

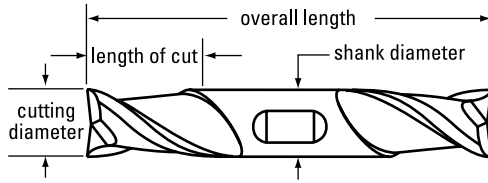
FEATURES

- ANSI SIZES**
- HSS SUBSTRATE**
- GENERAL PURPOSE**
- BRIGHT**
- 2 FLUTE CC**
- TiN**
- 30°**
- TiCN**

APPLICATIONS

- ALLOY STEEL**
- TOOL STEEL**
- CARBON STEEL**
- CAST IRON**

HOLE FINISHING



THREADING

MILLING

OTHER TOOLS

Cutting Diameter	Decimal Equiv.	Metric Equiv.	Shank Diameter		Length of Cut		Overall Length		No. of Flutes	Order Number		
			in	mm	in	mm	in	mm		Bright	TiN	TiCN
1/8	.1250	3.18	.375	9.53	.188	4.76	2.750	69.85	2	C42096	C39044	C39049
1/8	.1250	3.18	.375	9.53	.375	9.53	3.063	77.79	2	C42051	C33648	C33689
9/64	.1406	3.57	.375	9.53	.438	11.11	3.125	79.38	2	C33626	C33649	C33690
5/32	.1562	3.97	.375	9.53	.234	5.95	2.750	69.85	2	C42097	C39045	C39050
5/32	.1562	3.97	.375	9.53	.438	11.11	3.125	79.38	2	C42052	C33650	C33691
11/64	.1719	4.37	.375	9.53	.438	11.11	3.250	82.55	2	C33627	C33651	C33692
3/16	.1875	4.76	.375	9.53	.281	7.14	2.750	69.85	2	C42099	C39046	C39051
3/16	.1875	4.76	.375	9.53	.438	11.11	3.250	82.55	2	C42054	C33652	C33693
13/64	.2031	5.16	.375	9.53	.500	12.70	3.250	82.55	2	C42055	C33653	C33694
7/32	.2188	5.56	.375	9.53	.328	8.33	2.875	73.03	2	C42101	C39047	C39052
7/32	.2188	5.56	.375	9.53	.500	12.70	3.250	82.55	2	C42056	C33654	C33695
15/64	.2344	5.95	.375	9.53	.500	12.70	3.375	85.73	2	C33629	C33655	C33696
1/4	.2500	6.35	.375	9.53	.375	9.53	2.875	73.03	2	C42103	C39048	C39053
1/4	.2500	6.35	.375	9.53	.500	12.70	3.375	85.73	2	C42058	C33656	C33697
17/64	.2656	6.75	.375	9.53	.563	14.29	3.375	85.73	2	C33630	C33657	C33698
9/32	.2812	7.14	.375	9.53	.563	14.29	3.375	85.73	2	C42060	C33658	C33699
19/64	.2969	7.54	.375	9.53	.563	14.29	3.500	88.90	2	C33631	C33659	C33700
5/16	.3125	7.94	.375	9.53	.563	14.29	3.500	88.90	2	C42061	C33660	C33701
21/64	.3281	8.33	.375	9.53	.563	14.29	3.500	88.90	2	C33632	C33661	C33702
11/32	.3438	8.73	.375	9.53	.563	14.29	3.500	88.90	2	C42063	C33662	C33703
23/64	.3594	9.13	.375	9.53	.563	14.29	3.500	88.90	2	C33633	C33663	C33704
3/8	.3750	9.53	.375	9.53	.563	14.29	3.500	88.90	2	C42065	C33664	C33705
25/64	.3906	9.92	.500	12.70	.813	20.64	4.125	104.78	2	C33634	C33665	C33706
13/32	.4062	10.32	.500	12.70	.813	20.64	4.125	104.78	2	C42067	C33666	C33707
27/64	.4219	10.72	.500	12.70	.813	20.64	4.125	104.78	2	C33635	C33667	C33708
7/16	.4375	11.11	.500	12.70	.813	20.64	4.125	104.78	2	C42069	C33668	C33709
29/64	.4531	11.51	.500	12.70	.813	20.64	4.125	104.78	2	C33636	C33669	C33710
15/32	.4688	11.91	.500	12.70	.813	20.64	4.125	104.78	2	C42070	C33670	C33711
31/64	.4844	12.30	.500	12.70	.813	20.64	4.125	104.78	2	C33637	C33671	C33712
1/2	.5000	12.70	.500	12.70	.813	20.64	4.125	104.78	2	C42072	C33672	C33713
17/32	.5312	13.49	.625	15.88	1.125	28.58	5.000	127.00	2	C33638	C33673	C33714
9/16	.5625	14.29	.625	15.88	1.125	28.58	5.000	127.00	2	C42074	C33674	C33715

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General Application End Mills

Double End Finishers

Style HD-2 • HSS, Double End, 2-Flute, Center Cutting (continued)

Cutting Diameter	Decimal Equiv.	Metric Equiv.	Shank Diameter		Length of Cut		Overall Length		No. of Flutes	Order Number		
			in	mm	in	mm	in	mm		Bright	TiN	TiCN
19/32	.5938	15.08	.625	15.88	1.125	28.58	5.000	127.00	2	C33639	C33675	C33716
5/8	.6250	15.88	.625	15.88	1.125	28.58	5.000	127.00	2	C42076	C33676	C33717
21/32	.6562	16.67	.750	19.05	1.313	33.34	5.625	142.88	2	C33640	C33677	C33718
11/16	.6875	17.46	.750	19.05	1.313	33.34	5.625	142.88	2	C42078	C33678	C33719
23/32	.7188	18.26	.750	19.05	1.313	33.34	5.625	142.88	2	C33641	C33679	C33720
3/4	.7500	19.05	.750	19.05	1.313	33.34	5.625	142.88	2	C42080	C33680	C33721
25/32	.7812	19.84	.875	22.23	1.563	39.69	6.125	155.58	2	C33642	C33681	C33722
13/16	.8125	20.64	.875	22.23	1.563	39.69	6.125	155.58	2	C33643	C33682	C33723
27/32	.8438	21.43	.875	22.23	1.563	39.69	6.125	155.58	2	C33644	C33683	C33724
7/8	.8750	22.23	.875	22.23	1.563	39.69	6.125	155.58	2	C42084	C33684	C33725
29/32	.9062	23.02	1.000	25.40	1.563	39.69	6.375	161.93	2	C33645	C33685	C33726
15/16	.9375	23.81	1.000	25.40	1.625	41.28	6.375	161.93	2	C33646	C33686	C33727
31/32	.9688	24.61	1.000	25.40	1.625	41.28	6.375	161.93	2	C33647	C33687	C33728
1	1.0000	25.40	1.000	25.40	1.625	41.28	6.375	161.93	2	C42088	C33688	C33729

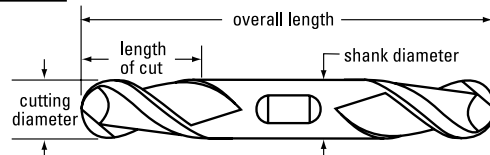
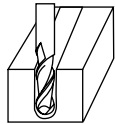
Style HD-2B • HSS, Double End, 2-Flute, Center Cutting Ball Nose formerly style 697

FEATURES

ANSI SIZES	HSS SUBSTRATE
GENERAL PURPOSE	BRIGHT
2 FLUTE CC	TiN
30°	TiCN

APPLICATIONS

ALLOY STEEL
TOOL STEEL
CARBON STEEL
CAST IRON



Style HD-2B Bright



Style HD-2B TiN-coated



Style HD-2B TiCN-coated

Cutting Diameter	Decimal Equiv.	Metric Equiv.	Shank Diameter		Length of Cut		Overall Length		No. of Flutes	Order Number		
			in	mm	in	mm	in	mm		Bright	TiN	TiCN
1/8	.1250	3.18	.375	9.53	.375	9.53	3.063	77.79	2	C42184	C39142	C39158
5/32	.1562	3.97	.375	9.53	.438	11.11	3.125	79.38	2	C39136	C39143	C39159
3/16	.1875	4.76	.375	9.53	.438	11.11	3.250	82.55	2	C42186	C39144	C39160
7/32	.2188	5.56	.375	9.53	.500	12.70	3.250	82.55	2	C39137	C39145	C39161
1/4	.2500	6.35	.375	9.53	.500	12.70	3.375	85.73	2	C42189	C39146	C39162
9/32	.2812	7.14	.375	9.53	.563	14.29	3.375	85.73	2	C39138	C39147	C39163
5/16	.3125	7.94	.375	9.53	.563	14.29	3.500	88.90	2	C42191	C39148	C39164
11/32	.3438	8.73	.375	9.53	.563	14.29	3.500	88.90	2	C39139	C39149	C39165
3/8	.3750	9.53	.375	9.53	.563	14.29	3.500	88.90	2	C42194	C39150	C39166
13/32	.4062	10.32	.500	12.70	.813	20.64	4.125	104.78	2	C39140	C39151	C39167
7/16	.4375	11.11	.500	12.70	.813	20.64	4.125	104.78	2	C42197	C39152	C39168
1/2	.5000	12.70	.500	12.70	.813	20.64	4.125	104.78	2	C42199	C39153	C39169
5/8	.6250	15.88	.625	15.88	1.125	28.58	5.000	127.00	2	C42202	C39154	C39170
3/4	.7500	19.05	.750	19.05	1.313	33.34	5.625	142.88	2	C42205	C39155	C39171
7/8	.8750	22.23	.875	22.23	1.563	39.69	6.125	155.58	2	C39141	C39156	C39172
1	1.0000	25.40	1.000	25.40	1.625	41.28	6.375	161.93	2	C42212	C39157	C39173