

# General Application End Mills

## Single End Finishers

### Style HG-4B • HSS, Single End, 4-Flute, Center Cutting, Ball Nose

formerly styles 581, 584, 589

#### FEATURES

<b>ANSI SIZES</b>	<b>HSS SUBSTRATE</b>
<b>GENERAL PURPOSE</b>	<b>BRIGHT</b>
<b>4 FLUTE BALL CO</b>	<b>TiN</b>
<b>30°</b>	<b>TiCN</b>

#### APPLICATIONS

<b>ALLOY STEEL</b>
<b>TOOL STEEL</b>
<b>CAST IRON</b>
<b>COPPER ALLOYS</b>

Heavy cross-section for high rigidity.



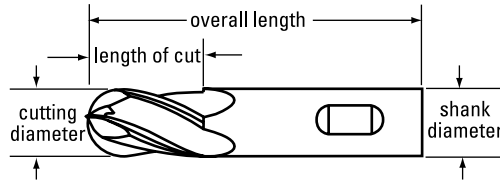
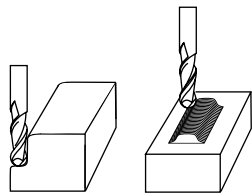
Style HG-4 Bright



Style HG-4B TiN-coated



Style HG-4B 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
1/4	.2500	6.35	.375	9.53	.625	15.88	2.438	61.91	4	C33301	C33303	C33313
1/4	.2500	6.35	.375	9.53	1.250	31.75	3.063	77.79	4	C33323	C33326	C33335
1/4	.2500	6.35	.375	9.53	1.750	44.45	3.563	90.49	4	C33344	C33353	C33362
5/16	.3125	7.94	.375	9.53	.750	19.05	2.500	63.50	4	C33302	C33304	C33314
5/16	.3125	7.94	.375	9.53	1.375	34.93	3.125	79.38	4	C33324	C33327	C33336
5/16	.3125	7.94	.375	9.53	2.000	50.80	3.250	82.55	4	C33345	C33354	C33363
3/8	.3750	9.53	.375	9.53	.750	19.05	2.500	63.50	4	C41289	C33305	C33315
3/8	.3750	9.53	.375	9.53	1.500	38.10	3.250	82.55	4	C33325	C33328	C33337
3/8	.3750	9.53	.375	9.53	2.500	63.50	4.250	107.95	4	C33346	C33355	C33364
1/2	.5000	12.70	.500	12.70	1.250	31.75	3.250	82.55	4	C41293	C33306	C33316
1/2	.5000	12.70	.500	12.70	2.000	50.80	4.000	101.60	4	C41358	C33329	C33338
1/2	.5000	12.70	.500	12.70	3.000	76.20	5.000	127.00	4	C33347	C33356	C33365
5/8	.6250	15.88	.625	15.88	1.625	41.28	3.250	82.55	4	C41297	C33307	C33317
5/8	.6250	15.88	.625	15.88	2.500	63.50	4.625	117.48	4	C41361	C33330	C33339
5/8	.6250	15.88	.625	15.88	4.000	101.60	6.125	155.58	4	C33348	C33357	C33366
3/4	.7500	19.05	.750	19.05	1.625	41.28	3.875	98.43	4	C41300	C33308	C33318
3/4	.7500	19.05	.750	19.05	3.000	76.20	5.250	133.35	4	C41364	C33331	C33340
3/4	.7500	19.05	.750	19.05	4.000	101.60	6.250	158.75	4	C33349	C33358	C33367
7/8	.8750	22.23	.875	22.23	1.875	47.63	4.125	104.78	4	C41304	C33309	C33319
1	1.0000	25.40	1.000	25.40	2.000	50.80	4.500	114.30	4	C41308	C33310	C33320
1	1.0000	25.40	1.000	25.40	4.000	101.60	6.500	165.10	4	C41371	C33332	C33341
1	1.0000	25.40	1.000	25.40	6.000	152.40	8.500	215.90	4	C33350	C33359	C33368
1-1/4	1.2500	31.75	1.250	31.75	2.000	50.80	4.500	114.30	4	C41312	C33311	C33321
1-1/4	1.2500	31.75	1.250	31.75	4.000	101.60	6.500	165.10	4	C41375	C33333	C33342
1-1/4	1.2500	31.75	1.250	31.75	6.000	152.40	8.500	215.90	4	C33351	C33360	C33369
1-1/2	1.5000	38.10	1.250	31.75	2.000	50.80	4.500	114.30	4	C41318	C33312	C33322
1-1/2	1.5000	38.10	1.250	31.75	4.000	101.60	6.500	165.10	4	C41377	C33334	C33343
1-1/2	1.5000	38.10	1.250	31.75	8.000	203.20	10.500	266.70	4	C33352	C33361	C33370
2	2.0000	50.80	2.000	50.80	3.000	76.20	6.750	171.45	4	C33007	C33010	C33015
2	2.0000	50.80	2.000	50.80	4.000	101.60	7.750	196.85	4	C33008	-	C33016
2	2.0000	50.80	2.000	50.80	5.000	127.00	8.750	222.25	4	C43564	-	-
2	2.0000	50.80	2.000	50.80	6.000	152.40	9.750	247.65	4	C33009	-	-
2-1/2	2.5000	63.50	2.000	50.80	5.000	127.00	8.750	222.25	4	C43567	-	C33019

DRILLING

HOLE FINISHING

THREADING

MILLING

OTHER TOOLS