

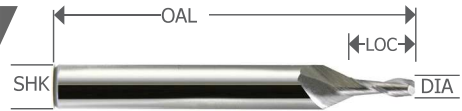
Cobalt HSS & HSS End Mills - Speed & Feed Recommendations

Applications in Various Materials

MATERIAL	HEAT-RESISTANT COBALT BASE ALLOYS, HIGH TENSILE STEELS (50-55 C)		HEAT-RESISTANT AUSTENITIC ALLOYS, HIGH TENSILE STEELS (46-50 C)		HEAT-RESISTANT NICKEL BASE ALLOYS, HIGH STRENGTH STAINLESS STEELS, HIGH STRENGTH TITANIUM ALLOYS		HIGH STRENGTH STAINLESS STEELS, HIGH TENSILE STEELS (40-60 C) MEDIUM STRENGTH TITANIUM ALLOYS		HEAT RESISTANT FERRITIC BASE ALLOYS MEDIUM STRENGTH STAINLESS STEELS UNALLOYED TITANIUM TOOL STEELS (30-40 C)		MACHINE STEEL, HARD BRASS AND BRONZE, ELECTROLYTIC COPPER MILD STEEL FORGINGS (20-30 C)		CAST IRON, MILD STEEL, HALF-HARD BRASS AND BRONZE		BRASS, BRONZE, ALLOYED ALUMINUM, ABRASIVE PLASTICS		ALUMINUM, PLASTICS, WOOD		
	SPEED	FEED	SPEED	FEED	SPEED	FEED	SPEED	FEED	SPEED	FEED	SPEED	FEED	SPEED	FEED	SPEED	FEED	SPEED	FEED	
	5-10 SFM	CHIP LOAD PER TOOTH	10-15 SFM	CHIP LOAD PER TOOTH	15-20 SFM	CHIP LOAD PER TOOTH	20-40 SFM	CHIP LOAD PER TOOTH	40-60 SFM	CHIP LOAD PER TOOTH	60-80 SFM	CHIP LOAD PER TOOTH	80-100 SFM	CHIP LOAD PER TOOTH	100-200 SFM	CHIP LOAD PER TOOTH	200-600 SFM	CHIP LOAD PER TOOTH	
DIA. OF END MILLS	RPM	PER TOOTH	RPM	PER TOOTH	RPM	PER TOOTH	RPM	PER TOOTH	RPM	PER TOOTH	RPM	PER TOOTH	RPM	PER TOOTH	RPM	PER TOOTH	RPM	PER TOOTH	
1/16	-	-	-	-	-	-	1222-2444	.0002-.0005	2444-3667	.0002-.0005	3667-4888	.0002-.0005	4888-6111	.0002-.0005	6111-12222	.0002-.0005	12222	UP	.0002-.0005
3/32	-	-	-	-	611-815	.0002-.0005	815-1629	.0002-.0005	1629-2750	.0002-.0005	2750-3259	.0002-.0005	3259-4073	.0002-.0005	4073-8146	.0002-.0005	8146	UP	.0002-.0005
1/8	-	-	-	-	456-611	.0002-.0005	611-1222	.0002-.0005	1222-1833	.0002-.0005	1833-2440	.0002-.001	2440-3056	.0002-.001	3056-6112	.0002-.001	6112	UP	.0002-.001
3/16	-	-	204-306	.0002-.0005	306-407	.0002-.0005	407-815	.0002-.0005	815-1222	.0002-.0005	1222-1625	.0002-.001	1625-2037	.0002-.001	2037-4074	.0002-.001	4074-12222	.0002-.001	
1/4	76-153	.0002-.001	153-230	.0002-.001	229-306	.0002-.001	306-611	.0002-.001	611-917	.0002-.001	917-1222	.0005-.002	1222-1528	.0005-.002	1528-3056	.0005-.002	3056-9168	.0005-.002	
5/16	61-122	.0002-.001	122-183	.0002-.001	183-244	.0002-.001	244-489	.0002-.001	489-733	.0002-.001	733-978	.0005-.002	978-1222	.0005-.002	1222-2444	.0005-.002	2444-7332	.0005-.002	
3/8	51-102	.0002-.001	102-153	.0002-.001	153-203	.0002-.001	203-407	.0005-.002	406-611	.0005-.002	611-815	.001-.003	815-1019	.001-.003	1019-2038	.0005-.003	2038-6114	.0005-.002	
7/16	44-88	.0005-.001	88-132	.0005-.001	131-175	.0005-.002	175-349	.0005-.002	349-524	.0005-.002	524-698	.001-.003	698-873	.001-.003	873-1746	.0005-.003	1746-5238	.0005-.002	
1/2	38-76	.0005-.001	76-115	.0005-.001	115-153	.0005-.002	153-306	.0005-.003	306-458	.001-.003	458-611	.001-.003	611-764	.001-.003	764-1528	.0005-.003	1528-4584	.0005-.002	
9/16	34-68	.0005-.002	68-104	.0005-.002	104-136	.0005-.002	136-272	.0005-.003	272-412	.001-.003	412-543	.001-.004	543-678	.001-.004	678-1356	.0005-.004	1356-4071	.0005-.003	
5/8	31-61	.0005-.002	61-92	.0005-.002	92-122	.0005-.002	122-244	.001-.004	244-367	.001-.004	367-489	.001-.004	489-611	.001-.004	611-1222	.0005-.004	1222-3666	.0005-.003	
11/16	28-56	.0005-.002	56-84	.0005-.002	84-111	.0005-.002	111-222	.001-.004	222-337	.001-.004	337-444	.001-.004	444-555	.001-.004	555-1110	.0005-.004	1110-3330	.0005-.003	
3/4	26-51	.0005-.002	51-76	.0005-.002	76-102	.001-.004	102-203	.001-.004	203-306	.001-.004	306-407	.001-.004	407-509	.002-.006	509-1018	.001-.006	1018-3054	.001-.004	
13/16	24-47	.001-.003	47-71	.001-.003	71-94	.001-.004	94-189	.001-.004	189-284	.001-.004	284-379	.002-.006	379-469	.002-.006	469-938	.001-.006	938-2814	.001-.004	
7/8	22-44	.001-.003	44-65	.001-.003	65-87	.001-.004	87-175	.001-.004	175-262	.002-.006	262-349	.002-.006	349-436	.002-.006	436-872	.001-.006	872-2616	.001-.004	
15/16	20-40	.001-.003	40-62	.001-.003	62-81	.001-.004	81-163	.001-.004	163-246	.002-.006	246-326	.002-.006	326-407	.002-.006	407-814	.001-.006	814-2442	.001-.004	
1	19-38	.001-.003	38-58	.001-.003	58-76	.001-.004	76-153	.002-.006	153-229	.002-.006	229-306	.002-.006	306-382	.002-.006	382-764	.002	764-2292	.002	UP
1 1/8	34	.0015-.004	34-51	.0015-.004	51-68	.0015-.005	68-136	.002-.006	136-204	.002-.006	204-272	.002-.006	272-340	.003	340-680	.002	680-2040	.002	UP
1 1/4	31	.0015-.004	31-46	.0015-.004	46-61	.0015-.005	61-122	.002-.006	122-183	.002-.006	183-244	.003	244-306	.003	306-612	.002	612-1836	.002	UP
1 3/8	28	.0015-.004	28-42	.0015-.004	42-55	.0015-.005	55-111	.002-.006	111-167	.003	167-222	.003	222-278	.003	278-556	.002	556-1668	.002	UP
1 1/2	26	.0015-.004	26-38	.0015-.004	38-51	.002	51-102	.003	102-153	.003	153-204	.003	204-255	.003	255-510	.003	510-1530	.002	UP
1 5/8	24	.002	35	.002	35-47	.002	47-94	.003	94-141	.003	141-188	.003	188-235	.003	235-470	.003	470-1410	.002	UP
1 3/4	22	.002	32	.002	32-43	.002	43-87	.003	87-131	.003	131-175	.003	175-218	.003	218-436	.003	436-1308	.002	UP
1 7/8	20	.002	30	.002	30-40	.003	40-81	.003	81-122	.003	122-163	.003	163-204	.003	204-408	.003	408-1224	.003	UP
2	19	.002	29	.003	29-38	.003	38-76	.003	76-115	.003	115-153	.003	153-191	.003	191-382	.003	382-1146	.003	UP
2 1/8	18	.003	28	.003	36	.003	36-72	.003	72-108	.003	108-144	.003	144-179	.003	179-358	.003	358-1074	.003	UP
2 1/4	17	.003	26	.003	34	.003	34-68	.003	68-102	.003	103-136	.003	136-170	.003	170-340	.003	340-1020	.003	UP
2 3/8	16	.003	25	.003	32	.003	32-64	.003	64-97	.003	97-128	.003	128-161	.003	161-322	.003	322-966	.003	UP
2 1/2	15	.003	23	.003	30	.003	30-61	.003	61-92	.003	92-122	.003	122-153	.003	153-306	.003	306-918	.003	UP
2 5/8	15	.003	22	.003	29	.003	29-58	.003	58-88	.003	88-116	.003	116-145	.003	145-290	.003	290-870	.003	UP
2 3/4	14	.003	21	.003	28	.003	28-56	.003	56-83	.003	83-111	.003	111-139	.003	139-278	.003	278-834	.003	UP
2 7/8	14	.003	20	.003	27	.003	27-53	.003	53-80	.003	80-106	.003	106-132	.003	132-264	.003	264-792	.003	UP
3	13	.003	19	.003	26	.003	26-51	.003	51-76	.003	76-102	.003	102-127	.003	127-154	.003	154-762	.003	UP

GENERAL PURPOSE COBALT & HSS END MILLS

2 FLUTE • CENTER CUTTING END MILLS



M42 - HSS
2
30°
Bright TiCN
+0.0015
-0.0000
Square
HRC <48

P	K
M	S
N	

SERIES: A

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
1/32	3/16	3/32	1-1/2	std	M42	A-601	10002	40002
3/64	3/16	9/64	1-1/2	std	M42	A-601-1/2	10004	40004
1/16	3/16	3/16	1-1/2	std	M42	A-602	10006	40006
5/64	3/16	15/64	1-1/2	std	M42	A-602-1/2	10008	40008
3/32	3/16	9/32	1-1/2	std	M42	A-603	10010	40010
7/64	3/16	21/64	1-1/2	std	M42	A-603-1/2	10012	40012
1/8	3/16	3/8	1-1/2	std	M42	A-604	10014	40014
9/64	3/16	27/64	1-1/2	std	M42	A-604-1/2	10016	40016
5/32	3/16	7/16	1-1/2	std	M42	A-605	10018	40018
11/64	3/16	1/2	1-1/2	std	M42	A-605-1/2	10020	40020
3/16	3/16	1/2	1-1/2	std	M42	A-606	10022	40022
1/4	1/4	3/4	2-1/2	std	M42	A-808	10024	40024

If shank and mill diameters are the same, tolerance is +.0000/-0.0025

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3/32	3/8	5/16	2-1/4	std	M42	A-1203	10026	40026
1/8	3/8	3/16	2-1/8	stub	M42	AS-1204	10030	40030
1/8	3/8	3/8	2-5/16	std	M42	A-1204	10028	40028
1/8	3/8	1/2	2-3/8	med	M42	A-1204-M	12802	42802
1/8	3/8	3/4	2-5/8	long	M42	A-1204-L	12804	42804
5/32	3/8	3/16	2-1/16	stub	M42	AS-1205	10034	40034
5/32	3/8	7/16	2-5/16	std	M42	A-1205	10032	40032
5/32	3/8	5/8	2-1/2	med	M42	A-1205-M	12806	42806
5/32	3/8	3/4	2-5/8	long	M42	A-1205-L	12808	42808
3/16	3/8	3/16	2-1/16	stub	M42	AS-1206	10038	40038
3/16	3/8	7/16	2-5/16	std	M42	A-1206	10036	40036
3/16	3/8	5/8	2-1/2	med	M42	A-1206-M	12810	42810
3/16	3/8	3/4	2-5/8	long	M42	A-1206-L	10474	40474
3/16	3/8	1-1/4	3-1/8	xl	M42	A-1206-E	12812	42812
7/32	3/8	1/4	2-1/8	stub	M42	AS-1207	10042	40042
7/32	3/8	1/2	2-3/8	std	M42	A-1207	10040	40040
7/32	3/8	7/8	2-3/4	med	M42	A-1207-M	12814	42814
7/32	3/8	1-1/4	3-1/8	long	M42	A-1207-L	10476	40476
7/32	3/8	1-1/2	3-3/8	xl	M42	A-1207-E	12816	42816
1/4	3/8	1/4	2-1/16	stub	M42	AS-1208	10046	40046
1/4	3/8	1/2	2-5/16	std	M42	A-1208	10044	40044
1/4	3/8	7/8	2-3/4	med	M42	A-1208-M	12818	42818
1/4	3/8	1-1/4	3-1/16	long	M42	A-1208-L	10478	40478
1/4	3/8	1-3/4	3-9/16	xl	M42	A-1208-E	12820	42820
9/32	3/8	5/16	2-1/8	stub	M42	AS-1209	10050	40050
9/32	3/8	9/16	2-3/8	std	M42	A-1209	10048	40048
9/32	3/8	1	2-3/4	med	M42	A-1209-M	12822	42822
9/32	3/8	1-3/8	3-1/8	long	M42	A-1209-L	10480	40480
9/32	3/8	1-3/4	3-5/8	xl	M42	A-1209-E	12824	42824
19/64	3/8	9/16	2-5/16	std	M42	A-1209-1/2	14414	44414
5/16	3/8	5/16	2-1/16	stub	M42	AS-1210	10054	40054
5/16	3/8	9/16	2-5/16	std	M42	A-1210	10052	40052
5/16	3/8	1	2-3/4	med	M42	A-1210-M	12826	42826
5/16	3/8	1-3/8	3-1/8	long	M42	A-1210-L	10482	40482
5/16	3/8	2	3-3/4	xl	M42	A-1210-E	12828	42828
11/32	3/8	3/8	2-3/16	stub	M42	AS-1211	10058	40058
11/32	3/8	3/4	2-1/2	std	M42	A-1211	10056	40056
11/32	3/8	1	2-3/4	med	M42	A-1211-M	12830	42830
11/32	3/8	1-1/2	3-1/4	long	M42	A-1211-L	10484	40484
11/32	3/8	2	3-3/4	xl	M42	A-1211-E	12832	42832

sizes continued on next page

GENERAL PURPOSE COBALT & HSS END MILLS

2 FLUTE • CENTER CUTTING END MILLS

SERIES: A

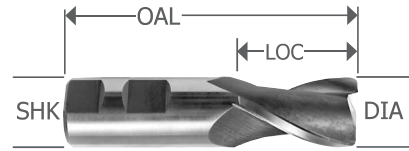
DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
3/8	3/8	3/8	2-1/8	stub	M42	AS-1212	10062	40062
3/8	3/8	9/16	2-5/16	std	M42	A-1212	10060	40060
3/8	3/8	1	2-3/4	med	M42	A-1212-M	10486	40486
3/8	3/8	1-1/2	3-1/4	long	M42	A-1212-L	10488	40488
3/8	3/8	2-1/2	4-1/4	xl	M42	A-1212-E	10490	40490
13/32	3/8	13/16	2-1/2	std	M42	A-1213	10064	40064
7/16	3/8	7/16	2-1/8	stub	M42	AS-1214	12794	42794
7/16	3/8	13/16	2-1/2	std	M42	A-1214	10066	40066
7/16	1/2	13/16	2-13/16	std	M42	A-1614	10070	40070
7/16	3/8	1-1/4	3-1/4	med	M42	A-1214-M	12834	42834
7/16	1/2	1-3/4	3-3/4	long	M42	A-1614-L	10492	40492
7/16	3/8	2-3/4	4-3/4	xl	M42	A-1214-E	12836	42836
15/32	1/2	1	3	std	M42	A-1615	10072	40072
1/2	3/8	1/2	2-3/16	stub	M42	AS-1216	12796	42796
1/2	3/8	13/16	2-1/2	std	M42	A-1216	10068	40068
1/2	1/2	1	3	std	M42	A-1616	10074	40074
1/2	1/2	1-1/2	3-1/2	med	M42	A-1616-M	10494	40494
1/2	1/2	2	4	long	M42	A-1616-L	10496	40496
1/2	1/2	3	5	xl	M42	A-1616-E	10498	40498
17/32	1/2	1-1/8	3-1/8	std	M42	A-1617	10076	40076
9/16	1/2	1-1/8	3-1/8	std	M42	A-1618	10078	40078
19/32	1/2	1-1/8	3-1/8	std	M42	A-1619	10080	40080
5/8	1/2	5/8	2-3/4	stub	M42	AS-1620	12798	42798
5/8	1/2	1-1/8	3-1/8	std	M42	A-1620	10082	40082
5/8	5/8	1-5/16	3-7/16	std	M42	A-2020	10108	40108
5/8	5/8	2	4-1/8	med	M42	A-2020-M	10500	40500
5/8	5/8	2-1/2	4-5/8	long	M42	A-2020-L	10502	40502
5/8	5/8	4	6-1/8	xl	M42	A-2020-E	12838	42838
21/32	1/2	1-5/16	3-5/16	std	M42	A-1621	10084	40084
11/16	1/2	1-5/16	3-5/16	std	M42	A-1622	10086	40086
11/16	5/8	1-5/16	3-7/16	std	M42	A-2022	10110	40110
23/32	1/2	1-5/16	3-5/16	std	M42	A-1623	10088	40088
3/4	1/2	5/8	2-5/8	stub	M42	AS-1624	16470	46470
3/4	1/2	1-5/16	3-5/16	std	M42	A-1624	10090	40090
3/4	5/8	1-5/16	3-7/16	std	M42	A-2024	10112	40112
3/4	3/4	3/4	3	stub	M42	AS-2424	12800	42800
3/4	3/4	1-5/16	3-9/16	std	M42	A-2424	10122	40122
3/4	3/4	2-1/4	4-1/2	med	M42	A-2424-M	10504	40504
3/4	3/4	3	5-1/4	long	M42	A-2424-L	10506	40506
3/4	3/4	4	6-1/4	xl	M42	A-2424-E	12840	42840
25/32	1/2	1-1/2	3-1/2	std	M42	A-1625	10092	40092
13/16	1/2	1-1/2	3-1/2	std	M42	A-1626	10094	40094
13/16	5/8	1-1/2	3-5/8	std	M42	A-2026	10114	40114
13/16	3/4	1-1/2	3-3/4	std	M42	A-2426	10124	40124
27/32	1/2	1-1/2	3-1/2	std	M42	A-1627	10096	40096
7/8	1/2	5/8	2-5/8	stub	M42	AS-1628	16471	46471
7/8	1/2	1-1/2	3-1/2	std	M42	A-1628	10098	40098
7/8	5/8	1-1/2	3-5/8	std	M42	A-2028	10116	40116
7/8	3/4	1-1/2	3-3/4	std	M42	A-2428	10126	40126
7/8	7/8	1-1/2	3-3/4	std	M42	A-2828	10152	40152
7/8	7/8	2-1/2	4-3/4	med	M42	A-2828-M	10508	40508
7/8	7/8	3-1/2	5-3/4	long	M42	A-2828-L	10510	40510
29/32	1/2	1-1/2	3-1/2	std	M42	A-1629	10100	40100
29/32	7/8	1-5/8	3-3/4	std	M42	A-2829	14418	44418
15/16	1/2	1-1/2	3-1/2	std	M42	A-1630	10102	40102
15/16	5/8	1-1/2	3-5/8	std	M42	A-2030	10118	40118
15/16	3/4	1-1/2	3-3/4	std	M42	A-2430	10128	40128
15/16	7/8	1-1/2	3-3/4	std	M42	A-2830	10154	40154

sizes continued on next page

GENERAL PURPOSE COBALT & HSS END MILLS

2 FLUTE • CENTER CUTTING END MILLS

SERIES: A



DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
31/32	1/2	1-1/2	3-1/2	std	M42	A-1631	10104	40104
31/32	1	1-5/8	4-1/8	std	M42	A-3231	14417	44417
1	1/2	3/4	2-3/4	stub	M42	AS-1632	16472	46472
1	1/2	1-1/2	3-1/2	std	M42	A-1632	10106	40106
1	5/8	3/4	2-7/8	stub	M42	AS-2032	16474	46474
1	5/8	1-1/2	3-5/8	std	M42	A-2032	10120	40120
1	3/4	3/4	3	stub	M42	AS-2432	16476	46476
1	3/4	1-1/2	3-3/4	std	M42	A-2432	10130	40130
1	7/8	1-1/2	3-3/4	std	M42	A-2832	10156	40156
1	1	1-5/8	4-1/8	std	M42	A-3232	10162	40162
1	1	3	5-1/2	med	M42	A-3232-M	10512	40512
1	1	4	6-1/2	long	M42	A-3232-L	10514	40514
1-1/16	3/4	1-1/2	3-3/4	std	M42	A-2434	10132	40132
1-1/16	1	1-5/8	4-1/8	std	M42	A-3234	10164	40164
1-1/8	3/4	3/4	3	stub	M42	AS-2436	16477	46477
1-1/8	3/4	1-5/8	3-7/8	std	M42	A-2436	10134	40134
1-1/8	7/8	1-5/8	3-7/8	std	M42	A-2836	10158	40158
1-1/8	1	1-5/8	4-1/8	std	M42	A-3236	10166	40166
1-1/8	1	3	5-1/2	med	M42	A-3236-M	10516	40516
1-3/16	3/4	1-5/8	3-7/8	std	M42	A-2438	10136	40136
1-3/16	1	1-5/8	4-1/8	std	M42	A-3238	10168	40168
1-1/4	1/2	3/4	2-3/4	stub	M42	AS-1640	16473	46473
1-1/4	5/8	3/4	2-7/8	stub	M42	AS-2040	16475	46475
1-1/4	3/4	3/4	3	stub	M42	AS-2440	16478	46478
1-1/4	3/4	1-5/8	3-7/8	std	M42	A-2440	10138	40138
1-1/4	7/8	1-5/8	3-7/8	std	M42	A-2840	10160	40160
1-1/4	1	1-5/8	4-1/8	std	M42	A-3240	10170	40170
1-1/4	1-1/4	1-5/8	4-1/8	std	M42	A-4040	10180	40180
1-1/4	1	3	5-1/2	med	M42	A-3240-M	10518	40518
1-1/4	1-1/4	3	5-1/2	med	M42	A-4040-M	10522	40522
1-1/4	1-1/4	4	6-1/2	long	M42	A-4040-L	10524	40524
1-5/16	1	1-5/8	4-1/8	std	HSS	A-3242	10172	40172
1-3/8	3/4	3/4	3	stub	HSS	AS-2444	16479	46479
1-3/8	3/4	1-5/8	3-7/8	std	HSS	A-2444	10140	40140
1-3/8	1	1-5/8	4-1/8	std	HSS	A-3244	10174	40174
1-3/8	1	3	5-1/2	med	HSS	A-3244-M	10520	40520
1-7/16	1	1-5/8	4-1/8	std	HSS	A-3246	10176	40176
1-1/2	3/4	1-5/8	3-7/8	std	HSS	A-2448	10142	40142
1-1/2	1	1-5/8	4-1/8	std	HSS	A-3248	10178	40178
1-1/2	1-1/4	1-5/8	4-1/8	std	HSS	A-4048	10184	40184
1-1/2	3/4	3/4	3	stub	HSS	AS-2448	16480	46480
1-1/2	3/4	1-5/8	3-7/8	std	M42	AP-2448	15278	45278
1-1/2	1-1/4	1-5/8	4-1/8	std	M42	AP-4048	10792	40792
1-1/2	1-1/4	3	5-1/2	med	HSS	A-4048-M	10526	40526
1-1/2	1-1/4	4	6-1/2	long	HSS	A-4048-L	10528	40528
1-9/16	1-1/4	1-5/8	4-1/8	std	HSS	A-4050	10186	40186
1-5/8	3/4	1-5/8	3-7/8	std	HSS	A-2452	10144	40144
1-5/8	1-1/4	1-5/8	4-1/8	std	HSS	A-4052	10188	40188
1-3/4	3/4	1-5/8	3-7/8	std	HSS	A-2456	10146	40146
1-3/4	1-1/4	1-5/8	4-1/8	std	HSS	A-4056	10190	40190
1-3/4	1-1/4	1-5/8	4-1/8	std	M42	AP-4056	CALL	CALL
1-3/4	1-1/4	3	5-1/2	med	HSS	A-4056-M	10532	40532
1-7/8	3/4	1-5/8	3-7/8	std	HSS	A-2460	10148	40148
1-7/8	1-1/4	1-5/8	4-1/8	std	HSS	A-4060	10192	40192
1-7/8	1-1/4	3	5-1/2	med	HSS	A-4060-M	CALL	CALL
2	3/4	1-5/8	3-7/8	std	HSS	A-2464	10150	40150
2	3/4	1-5/8	3-7/8	std	M42	AP-2464	15286	45286

sizes continued on next page

GENERAL PURPOSE COBALT & HSS END MILLS

2 FLUTE • CENTER CUTTING END MILLS

SERIES: A

DIA	SHK	LOC	OAL	LENGTH	MAT	TOOL	BRIGHT EDP	TICN EDP
2	1-1/4	1-5/8	4-1/8	std	HSS	A-4064	10194	40194
2	1-1/4	3	5-1/2	med	HSS	A-4064-M	10538	40538
2-1/8	1-1/4	1-5/8	4-1/8	std	HSS	A-4068	10198	40198
2-1/4	1-1/4	1-5/8	4-1/8	std	HSS	A-4072	10200	40200
2-1/4	1-1/4	3	5-1/2	med	HSS	A-4072-M	10542	40542
2-1/2	1-1/4	1-5/8	4-1/8	std	HSS	A-4080	10202	40202
2-1/2	1-1/4	3	5-1/2	med	HSS	A-4080-M	10544	40544