

3/16" Shank HSS End Mills

Used for small diameter milling, slotting, engraving, pocketing and similar applications.

2 Flute Double End Mills



Regular Length

Size	Flute Length	Overall Length	M2 Order No.	M2AI Order No.	TiN-Coated Order No.
1/32"	3/32"	2-1/4"	720-1630	721-1630	722-1630
3/64	9/64	2-1/4	720-1632	721-1632	722-1632
1/16	3/16	2-1/4	720-1634	721-1634	722-1634
5/64	15/64	2-1/4	720-1636	721-1636	722-1636
3/32	9/32	2-1/4	720-1638	721-1638	722-1638
7/64	21/64	2-1/4	720-1640	721-1640	722-1640
1/8	3/8	2-1/4	720-1642	721-1642	722-1642
9/64	13/32	2-1/4	720-1644	721-1644	722-1644
5/32	7/16	2-1/4	720-1646	721-1646	722-1646
11/64	1/2	2-1/4	720-1648	721-1648	722-1648
3/16	1/2	2-1/4	720-1650	721-1650	722-1650

Stub Length

Size	Flute Length	Overall Length	TiN-Coated Order No.	M2AI Order No.	M2 Order No.
1/32"	3/64"	2"	722-1600	721-1600	720-1600
3/64	1/16	2	722-1602	721-1602	720-1602
1/16	3/32	2	722-1604	721-1604	720-1604
5/64	1/8	2	722-1606	721-1606	720-1606
3/32	9/64	2	722-1608	721-1608	720-1608
7/64	5/32	2	722-1610	721-1610	720-1610
1/8	3/16	2	722-1612	721-1612	720-1612
9/64	7/32	2	722-1614	721-1614	720-1614
5/32	15/64	2	722-1616	721-1616	720-1616
11/64	1/4	2	722-1618	721-1618	720-1618
3/16	9/32	2	722-1620	721-1620	720-1620

Long Length

Size	Length Below Shank	Flute Length	Overall Length	M2 Order No.	M2AI Order No.	TiN-Coated Order No.
1/16"	3/8"	7/32"	2-1/2"	720-1652	721-1652	722-1652
5/64	3/8	1/4	2-1/2	720-1654	721-1654	722-1654
3/32	1/2	9/32	2-5/8	720-1656	721-1656	722-1656
7/64	1/2	9/32	2-5/8	720-1658	721-1658	722-1658
1/8	3/4	3/4	3-1/8	720-1660	721-1660	722-1660
9/64	3/4	3/4	3-1/8	720-1662	721-1662	722-1662
5/32	7/8	7/8	3-1/4	720-1664	721-1664	722-1664
11/64	7/8	7/8	3-1/4	720-1666	721-1666	722-1666
3/16	1	1	3-3/8	720-1668	721-1668	722-1668

2 Flute Ball Nose Double End Mills



Regular Length

Size	Flute Length	Overall Length	M2 Order No.	M2AI Order No.	TiN-Coated Order No.
1/32"	3/32"	2-1/4"	720-1730	721-1730	722-1730
3/64	9/64	2-1/4	720-1732	721-1732	722-1732
1/16	3/16	2-1/4	720-1734	721-1734	722-1734
5/64	15/64	2-1/4	720-1736	721-1736	722-1736
3/32	9/32	2-1/4	720-1738	721-1738	722-1738
7/64	21/64	2-1/4	720-1740	721-1740	722-1740
1/8	3/8	2-1/4	720-1742	721-1742	722-1742
9/64	27/64	2-1/4	720-1744	721-1744	722-1744
5/32	7/16	2-1/4	720-1746	721-1746	722-1746
11/64	1/2	2-1/4	720-1748	721-1748	722-1748
3/16	1/2	2-1/4	720-1750	721-1750	722-1750

2 Flute Ball Nose Double End Mills

Stub Length

Size	Flute Length	Overall Length	M2 Order No.	M2AI Order No.	TiN-Coated Order No.
1/32"	3/64"	2"	720-1700	721-1700	722-1700
3/64	1/16	2	720-1702	721-1702	722-1702
1/16	3/32	2	720-1704	721-1704	722-1704
5/64	1/8	2	720-1706	721-1706	722-1706
3/32	9/64	2	720-1708	721-1708	722-1708
7/64	5/32	2	720-1710	721-1710	722-1710
1/8	3/16	2	720-1712	721-1712	722-1712
9/64	7/32	2	720-1714	721-1714	722-1714
5/32	15/64	2	720-1716	721-1716	722-1716
11/64	1/4	2	720-1718	721-1718	722-1718
3/16	9/32	2	720-1720	721-1720	722-1720

Long Length

Size	Flute Length	Overall Length	M2 Order No.	M2AI Order No.	TiN-Coated Order No.
1/16"	7/32"	2-1/2"	720-1752	721-1752	722-1752
5/64	1/4	2-1/2	720-1754	721-1754	722-1754
3/32	9/32	2-5/8	720-1756	721-1756	722-1756
7/64	9/32	2-5/8	720-1758	721-1758	722-1758
1/8	3/4	3-1/8	720-1760	721-1760	722-1760
9/64	3/4	3-1/8	720-1762	721-1762	722-1762
5/32	7/8	3-1/4	720-1764	721-1764	722-1764
11/64	7/8	3-1/4	720-1766	721-1766	722-1766
3/16	1	3-3/8	720-1768	721-1768	722-1768

4 Flute Center Cutting Double End Mills



Regular Length

Size	Flute Length	Overall Length	M2 Order No.	M2AI Order No.	TiN-Coated Order No.
1/16"	3/16"	2-1/4"	720-4318	721-4318	722-4318
5/64	15/64	2-1/4	720-4320	721-4320	722-4320
3/32	9/32	2-1/4	720-4322	721-4322	722-4322
7/64	21/64	2-1/4	720-4324	721-4324	722-4324
1/8	3/8	2-1/4	720-4326	721-4326	722-4326
9/64	13/32	2-1/4	720-4328	721-4328	722-4328
5/32	7/16	2-1/4	720-4330	721-4330	722-4330
11/64	1/2	2-1/4	720-4332	721-4332	722-4332
3/16	1/2	2-1/4	720-4334	721-4334	722-4334

Stub Length

Size	Flute Length	Overall Length	M2 Order No.	M2AI Order No.	TiN-Coated Order No.
1/16"	3/32"	2"	720-4300	721-4300	722-4300
5/64	5/32	2	720-4302	721-4302	722-4302
3/32	9/64	2	720-4303	721-4303	722-4303
3/32	5/32	2	720-4304	721-4304	722-4304
7/64	5/32	2	720-4306	721-4306	722-4306
1/8	3/16	2	720-4308	721-4308	722-4308
9/64	7/32	2	720-4310	721-4310	722-4310
5/32	15/64	2	720-4311	721-4311	722-4311
5/32	1/4	2	720-4312	721-4312	722-4312
11/64	9/32	2	720-4314	721-4314	722-4314
3/16	9/32	2	720-4316	721-4316	722-4316

Long Length

Size	Length Below Shank	Flute Length	Overall Length	M2 Order No.	M2AI Order No.	TiN-Coated Order No.
1/16"	3/8"	7/32"	2-1/2"	720-4336	721-4336	722-4336
5/64	3/8	1/4	2-1/2	720-4338	721-4338	722-4338
3/32	1/2	9/32	2-5/8	720-4340	721-4340	722-4340
7/64	1/2	9/32	2-5/8	720-4342	721-4342	722-4342
1/8	3/4	3/4	3-1/8	720-4344	721-4344	722-4344
9/64	3/4	3/4	3-1/8	720-4346	721-4346	722-4346
5/32	7/8	7/8	3-1/4	720-4348	721-4348	722-4348
11/64	7/8	7/8	3-1/4	720-4350	721-4350	722-4350
3/16	1	1	3-3/8	720-4352	721-4352	722-4352

3/16" Shank HSS Single Miniature End Mills

Used for small diameter milling, slotting, engraving, pocketing and similar applications.

2 Flute Single End Mill

Dia.	Flute Length	Overall Length	Order No.
11/32"	3/32"	1-11/16"	720-1902
3/64	5/32	1-11/16	720-1903
1/16	7/32	1-11/16	720-1904
5/64	1/4	1-1/8	720-1905
3/32	5/16	1-1/8	720-1906
7/64	11/32	1-5/16	720-1907



Dia.	Flute Length	Overall Length	Order No.
1/8"	3/8"	1-5/16"	720-1908
9/64	13/32	1-7/16	720-1909
5/32	7/16	1-7/16	720-1910
11/64	15/32	1-11/16	720-1911
3/16	1/2	1-11/16	720-1902

4 Flute Single End Mill


Dia.	Flute Length	Overall Length	Order No.
5/64"	1/4"	1-11/16"	720-2900
3/32	5/16	1-11/16	720-2902
7/64	11/32	1-11/16	720-2904
1/8	3/8	1-11/16	720-2906
9/64	13/32	1-11/16	720-2908
5/32	7/16	1-11/16	720-2910
11/64	15/32	1-11/16	720-2912
3/16	1/2	1-11/16	720-2914

M42 8% Cobalt 3/16" Shank End Mills

use for small diameter milling, slotting, engraving, pocketing and similar applications.

2 Flute Double End Mills

Regular Length

Size	Flute Length	Overall Length	Order No.
1/32"	3/32"	2-1/4"	723-1630
3/64	9/64	2-1/4	723-1632
1/16	3/16	2-1/4	723-1634
5/64	15/64	2-1/4	723-1636
3/32	9/32	2-1/4	723-1638
7/64	21/64	2-1/4	723-1640
1/8	3/8	2-1/4	723-1642
9/64	13/32	2-1/4	723-1644
5/32	7/16	2-1/4	723-1646
11/64	1/2	2-1/4	723-1648
3/16	1/2	2-1/4	723-1650

Long Length

Size	Length Below Shank	Flute Length	Overall Length	Order No.
1/16"	3/8"	7/32"	2-1/2"	723-1652
5/64	3/8	1/4	2-1/2	723-1654
3/32	1/2	9/32	2-5/8	723-1656
7/64	1/2	9/32	2-5/8	723-1658
1/8	3/4	3/4	3-1/8	723-1660
9/64	3/4	3/4	3-1/8	723-1662
5/32	7/8	7/8	3-1/4	723-1664
11/64	7/8	7/8	3-1/4	723-1666
3/16	1	1	3-3/8	723-1668

Stub Length

Size	Flute Length	Overall Length	Order No.
1/32"	3/64"	2"	723-1600
3/64	1/16	2	723-1602
1/16	3/32	2	723-1604
5/64	1/8	2	723-1606
3/32	9/64	2	723-1608
7/64	5/32	2	723-1610
1/8	3/16	2	723-1612
9/64	7/32	2	723-1614
5/32	15/64	2	723-1616
11/64	1/4	2	723-1618
3/16	9/32	2	723-1620

2 Flute Ball Nose Double End Mills

Regular Length

Size	Flute Length	Overall Length	Order No.
1/32"	3/32"	2-1/4"	723-1730
3/64	9/64	2-1/4	723-1732
1/16	3/16	2-1/4	723-1734
5/64	15/64	2-1/4	723-1736
3/32	9/32	2-1/4	723-1738
7/64	21/64	2-1/4	723-1740
1/8	3/8	2-1/4	723-1742
9/64	27/64	2-1/4	723-1744
5/32	7/16	2-1/4	723-1746
11/64	1/2	2-1/4	723-1748
3/16	1/2	2-1/4	723-1750

Long Length

Size	Flute Length	Overall Length	Order No.
1/16"	7/32"	2-1/2"	723-1752
5/64	1/4	2-1/2	723-1754
3/32	9/32	2-5/8	723-1756
7/64	9/32	2-5/8	723-1758
1/8	3/4	3-1/8	723-1760
9/64	3/4	3-1/8	723-1762
5/32	7/8	3-1/4	723-1764
11/64	7/8	3-1/4	723-1766
3/16	1	3-3/8	723-1768

Stub Length

Size	Flute Length	Overall Length	Order No.
1/32"	3/64"	2"	723-1700
3/64	1/16	2	723-1702
1/16	3/32	2	723-1704
5/64	1/8	2	723-1706
3/32	9/64	2	723-1708
7/64	5/32	2	723-1710
1/8	3/16	2	723-1712
9/64	7/32	2	723-1714
5/32	15/64	2	723-1716
11/64	1/4	2	723-1718
3/16	9/32	2	723-1720

4 Flute Center Cutting Double End Mills

Regular Length

Size	Flute Length	Overall Length	Order No.
1/16"	3/16"	2-1/4"	723-4318
5/64	15/64	2-1/4	723-4320
3/32	9/32	2-1/4	723-4322
7/64	21/64	2-1/4	723-4324
1/8	3/8	2-1/4	723-4326
9/64	13/32	2-1/4	723-4328
5/32	7/16	2-1/4	723-4330
11/64	1/2	2-1/4	723-4332
3/16	1/2	2-1/4	723-4334

Long Length

Size	Length Below Shank	Flute Length	Overall Length	Order No.
1/16"	3/8"	7/32"	2-1/2"	723-4336
5/64	3/8	1/4	2-1/2	723-4338
3/32	1/2	9/32	2-5/8	723-4340
7/64	1/2	9/32	2-5/8	723-4342
1/8	3/4	3/4	3-1/8	723-4344
9/64	3/4	3/4	3-1/8	723-4346
5/32	7/8	7/8	3-1/4	723-4348
11/64	7/8	7/8	3-1/4	723-4350
3/16	1	1	3-3/8	723-4352

Stub Length

Size	Flute Length	Overall Length	Order No.
1/16"	3/32"	2"	723-4300
5/64	5/32	2	723-4302
3/32	9/64	2	723-4303
3/32	5/32	2	723-4304
7/64	5/32	2	723-4306
1/8	3/16	2	723-4308
9/64	7/32	2	723-4310
5/32	15/64	2	723-4311
5/32	1/4	2	723-4312
11/64	9/32	2	723-4314
3/16	9/32	2	723-4316

2 Flute Single End Mills

High Speed Steel

- Use for milling slots, pockets and plunge cuts.
- 2 Flutes allows maximum space for chip ejection.
- Suitable for use in a wide range of ferrous and non-ferrous materials.
- TiN coating improves tool life and allows elevated speeds and feeds.



Regular Length

Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.	M2Al Order No.	TiN-Coated Order No.	Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
1/8"	3/8"	3/8"	2-5/16"	720-1001	721-1001	722-1001	15/16"	5/8"	1-1/2"	3-5/8"	720-1091	721-1091	722-1091
9/64	3/8	3/8	2-5/16	720-1003	721-1003	722-1003	15/16	3/4	1-1/2	3-3/4	720-1093	721-1093	722-1093
5/32	3/8	7/16	2-5/16	720-1005	721-1005	722-1005	15/16	7/8	1-1/2	3-3/4	720-1095	721-1095	722-1095
11/64	3/8	7/16	2-5/16	720-1007	721-1007	722-1007	31/32	1/2	1-1/2	3-1/2	720-1097	721-1097	722-1097
3/16	3/8	7/16	2-5/16	720-1009	721-1009	722-1009	1	1/2	1-1/2	3-1/2	720-1099	721-1099	722-1099
13/64	3/8	7/16	2-5/16	720-1011	721-1011	722-1011	1	1/2	1-1/2	3-5/8	720-1102	721-1102	722-1102
7/32	3/8	1/2	2-5/16	720-1012	721-1012	722-1012	1	5/8	1-1/2	3-5/8	720-1101	721-1101	722-1101
7/32	3/8	1/2	2-3/8	720-1013	721-1013	722-1013	1	3/4	1-1/2	3-3/4	720-1103	721-1103	722-1103
15/64	3/8	1/2	2-3/8	720-1015	721-1015	722-1015	1	7/8	1-1/2	3-3/4	720-1105	721-1105	722-1105
1/4	3/8	3/8	2-1/4	720-1016	721-1016	722-1016	1	1	1-5/8	4-1/8	720-1107	721-1107	722-1107
1/4	3/8	1/2	2-5/16	720-1017	721-1017	722-1017	1-1/16	3/4	1-5/8	3-3/4	720-1109	721-1109	722-1109
17/64	3/8	9/16	2-3/8	720-1019	721-1019	722-1019	1-1/16	5/8	1-5/8	3-7/8	720-1100	721-1100	722-1100
9/32	3/8	1/2	2-5/16	720-1020	721-1020	722-1020	1-1/16	3/4	1-5/8	3-7/8	720-1108	721-1108	722-1108
9/32	3/8	9/16	2-3/8	720-1021	721-1021	722-1021	1-1/16	7/8	1-5/8	3-7/8	720-1110	721-1110	722-1110
19/64	3/8	9/16	2-3/8	720-1023	721-1023	722-1023	1-1/8	3/4	1-1/2	3-3/4	720-1112	721-1112	722-1112
5/16	3/8	9/16	2-5/16	720-1025	721-1025	722-1025	1-1/8	3/4	1-5/8	3-7/8	720-1111	721-1111	722-1111
21/64	3/8	9/16	2-3/8	720-1027	721-1027	722-1027	1-1/8	7/8	1-5/8	3-7/8	720-1113	721-1113	722-1113
11/32	3/8	9/16	2-5/16	720-1028	721-1028	722-1028	1-1/8	1	1-5/8	4-1/8	720-1115	721-1115	722-1115
11/32	3/8	9/16	2-3/8	720-1029	721-1029	722-1029	1-3/16	3/4	1-5/8	3-7/8	720-1117	721-1117	722-1117
23/64	3/8	9/16	2-3/8	720-1031	721-1031	722-1031	1-3/16	1	1-5/8	4-1/8	720-1118	721-1118	722-1118
3/8	3/8	9/16	2-5/16	720-1033	721-1033	722-1033	1-1/4	3/4	1-5/8	3-7/8	720-1119	721-1119	722-1119
13/32	3/8	13/16	2-1/2	720-1035	721-1035	722-1035	1-1/4	7/8	1-5/8	3-7/8	720-1121	721-1121	722-1121
7/16	3/8	13/16	2-1/2	720-1037	721-1037	722-1037	1-1/4	1	1-5/8	4-1/8	720-1123	721-1123	722-1123
15/32	3/8	13/16	2-1/2	720-1036	721-1036	722-1036	1-1/4	1-1/4	1-5/8	4-1/8	720-1125	721-1125	722-1125
15/32	1/2	7/8	2-1/2	720-1038	721-1038	722-1038	1-5/16	3/4	1-5/8	3-7/8	720-1127	721-1127	722-1127
15/32	1/2	1	3	720-1039	721-1039	722-1039	1-3/8	3/4	1-5/8	3-7/8	720-1129	721-1129	722-1129
1/2	3/8	13/16	2-1/2	720-1041	721-1041	722-1041	1-3/8	3/4	1-5/8	4	720-1130	721-1130	722-1130
1/2	3/8	1	3	720-1042	721-1042	722-1042	1-3/8	1	1-5/8	4-1/8	720-1131	721-1131	722-1131
1/2	1/2	1	3	720-1043	721-1043	722-1043	1-7/16	3/4	1-5/8	3-7/8	720-1133	721-1133	722-1133
1/2	1/2	1-1/8	3-1/8	720-1044	721-1044	722-1044	1-1/2	3/4	1-5/8	3-7/8	720-1135	721-1135	722-1135
17/32	1/2	1-1/8	3-1/8	720-1045	721-1045	722-1045	1-1/2	3/4	1-5/8	4-1/8	720-1136	721-1136	722-1136
9/16	1/2	1-1/8	3-1/8	720-1047	721-1047	722-1047	1-1/2	1	1-5/8	4-1/8	720-1137	721-1137	722-1137
19/32	1/2	1-1/8	3-1/8	720-1049	721-1049	722-1049	1-1/2	1-1/4	1-5/8	4-1/8	720-1139	721-1139	722-1139
5/8	1/2	1-1/8	3-1/8	720-1051	721-1051	722-1051	1-5/8	3/4	1-5/8	3-7/8	720-1141	721-1141	722-1141
5/8	5/8	1-5/16	3-7/16	720-1053	721-1053	722-1053	1-5/8	3/4	1-5/8	4-1/8	720-1142	721-1142	722-1142
21/32	1/2	1-5/16	3-5/16	720-1055	721-1055	722-1055	1-5/8	1-1/4	1-5/8	4-1/8	720-1143	721-1143	722-1143
11/16	1/2	1-5/16	3-5/16	720-1057	721-1057	722-1057	1-3/4	3/4	1-5/8	3-7/8	720-1145	721-1145	722-1145
11/16	5/8	1-5/16	3-7/16	720-1059	721-1059	722-1059	1-3/4	3/4	1-5/8	4-1/8	720-1146	721-1146	722-1146
23/32	1/2	1-5/16	3-5/16	720-1061	721-1061	722-1061	1-3/4	1-1/4	1-5/8	4-1/8	720-1147	721-1147	722-1147
3/4	1/2	1-5/16	3-5/16	720-1063	721-1063	722-1063	1-7/8	3/4	1-5/8	3-7/8	720-1149	721-1149	722-1149
3/4	5/8	1-5/16	3-7/16	720-1065	721-1065	722-1065	1-7/8	3/4	1-5/8	4-1/8	720-1150	721-1150	722-1150
3/4	3/4	1-5/16	3-7/16	720-1066	721-1066	722-1066	1-7/8	1-1/4	1-5/8	4-1/8	720-1151	721-1151	722-1151
3/4	3/4	1-5/16	3-9/16	720-1067	721-1067	722-1067	2	3/4	1-5/8	3-7/8	720-1153	721-1153	722-1153
3/4	3/4	1-3/4	4	720-1069	721-1069	722-1069	2	3/4	1-5/8	4-1/8	720-1154	721-1154	722-1154
25/32	1/2	1-1/2	3-1/2	720-1071	721-1071	722-1071	2	1-1/4	1-5/8	4-1/8	720-1155	721-1155	722-1155
13/16	1/2	1-1/2	3-5/16	720-1077	721-1077	722-1077	2	1-1/4	2-1/2	5	720-1156	721-1156	722-1156
13/16	1/2	1-1/2	3-5/8	720-1072	721-1072	722-1072	2	2	2	5-3/4	720-1157	721-1157	722-1157
13/16	5/8	1-1/2	3-5/8	720-1073	721-1073	722-1073	2	2	3	6-3/4	720-1159	721-1159	722-1159
13/16	3/4	1-1/2	3-3/4	720-1075	721-1075	722-1075	2	2	4	7-3/4	720-1160	721-1160	722-1160
27/32	1/2	1-1/2	3-1/2	720-1079	721-1079	722-1079	2-1/4	1-1/4	1-5/8	4-1/8	720-1161	721-1161	722-1161
7/8	1/2	1-1/2	3-1/2	720-1081	721-1081	722-1081	2-1/2	2	4	7-5/8	720-1162	721-1162	722-1162
7/8	1/2	1-1/2	3-5/8	720-1082	721-1082	722-1082	2-1/2	2	4	7-3/4	720-1163	721-1163	722-1163
7/8	5/8	1-1/2	3-5/8	720-1083	721-1083	722-1083	2-1/2	2	6	9-5/8	720-1164	721-1164	722-1164
7/8	3/4	1-1/2	3-3/4	720-1085	721-1085	722-1085	2-1/2	2	6	9-3/4	720-1165	721-1165	722-1165
7/8	7/8	1-1/2	3-3/4	720-1087	721-1087	722-1087	3	2-1/2	4	7-3/4	720-1167	721-1167	722-1167
29/32	1/2	1-1/2	3-1/2	720-1089	721-1089	722-1089							
15/16	1/2	1-1/2	3-5/8	720-1090	721-1090	722-1090							

2 Flute Single End Mills

Medium Length & Long Length

- Use for milling slots, pockets and plunge cuts.
- TiN coating facilitates chip flow and allows elevated feeds.



Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
3/16"	3/8"	3/4"	2-5/8"	720-1201	721-1201	722-1201
7/32	3/8	1-1/4	3-1/8	720-1203	721-1203	722-1203
1/4	3/8	1	2-3/4	720-1204	721-1204	722-1204
1/4	3/8	1	3-1/16	720-1205	721-1205	722-1205
1/4	3/8	1-1/4	3-1/8	720-1207	721-1207	722-1207
9/32	3/8	1-3/8	3-1/8	720-1209	721-1209	722-1209
5/16	3/8	1-1/4	3	720-1210	721-1210	722-1210
5/16	3/8	1-1/4	3-5/16	720-1211	721-1211	722-1211
5/16	3/8	1-3/8	3-1/8	720-1213	721-1213	722-1213
11/32	3/8	1-1/2	3-1/4	720-1215	721-1215	722-1215
3/8	3/8	1	2-3/4	720-1217	721-1217	722-1217
3/8	3/8	1-1/2	3-1/4	720-1219	721-1219	722-1219
7/16	1/2	1-3/4	3-3/4	720-1221	721-1221	722-1221
1/2	1/2	1-1/2	3-1/2	720-1223	721-1223	722-1223
1/2	1/2	2	4	720-1225	721-1225	722-1225
1/2	1/2	3	5	720-1226	721-1226	722-1226
5/8	5/8	1-5/8	3-3/4	720-1227	721-1227	722-1227
5/8	5/8	2	4-1/8	720-1229	721-1229	722-1229
5/8	5/8	2-3/8	4-1/2	720-1230	721-1230	722-1230
5/8	5/8	2-1/2	4-5/8	720-1231	721-1231	722-1231
5/8	5/8	3	5-1/8	720-1233	721-1233	722-1233
5/8	5/8	4	6-1/8	720-1234	721-1234	722-1234
3/4	3/4	1-3/4	4	720-1235	721-1235	722-1235
3/4	3/4	2-1/4	4-1/2	720-1237	721-1237	722-1237
3/4	3/4	2-1/2	4-3/4	720-1239	721-1239	722-1239
3/4	3/4	3	5-1/4	720-1241	721-1241	722-1241
3/4	3/4	3-1/2	5-3/4	720-1243	721-1243	722-1243
3/4	3/4	4	6-1/4	720-1244	721-1244	722-1244
7/8	7/8	2	4-1/4	720-1245	721-1245	722-1245
7/8	7/8	2-1/2	4-3/4	720-1247	721-1247	722-1247
7/8	7/8	3-1/2	5-3/4	720-1248	721-1248	722-1248
1"	1"	2"	4-1/2"	720-1249	721-1249	722-1249
1	1	2-1/4	4-3/4	720-1251	721-1251	722-1251
1	1	2-1/2	5	720-1253	721-1253	722-1253
1	1	3	5-1/2	720-1255	721-1255	722-1255
1	1	3-1/2	6	720-1257	721-1257	722-1257
1	1	4	6-1/2	720-1259	721-1259	722-1259
1	1	4-5/8	7	720-1261	721-1261	722-1261
1-1/8	1	2-1/4	4-3/4	720-1263	721-1263	722-1263
1-1/8	1	3	4-3/4	720-1265	721-1265	722-1265
1-1/8	1	3	5-1/2"	720-1266	721-1266	722-1266
1-1/4	1	2-1/4	4-3/4	720-1267	721-1267	722-1267
1-1/4	1-1/4	2-1/4	5-1/2	720-1269	721-1269	722-1269
1-1/4	1	3	5-1/2	720-1271	721-1271	722-1271
1-1/4	1-1/4	3	5-1/2	720-1273	721-1273	722-1273
1-1/4	1-1/4	3-1/2	6	720-1274	721-1274	722-1274
1-1/4	1-1/4	4-3/4	7-1/4	720-1275	721-1275	722-1275
1-3/8	1	2-1/4	4-3/4	720-1277	721-1277	722-1277
1-3/8	1	3	5-1/2	720-1279	721-1279	722-1279
1-1/2	1-1/4	6	8-1/2	720-1280	721-1280	722-1280
1-1/2	1-1/4	2-1/4	4-3/4	720-1281	721-1281	722-1281
1-1/2	1-1/4	3	5-1/2	720-1283	721-1283	722-1283
1-1/2	1-1/4	4	6-1/2	720-1284	721-1284	722-1284
1-5/8	1-1/4	2-1/4	4-3/4	720-1285	721-1285	722-1285
1-5/8	1-1/4	3	5-1/2	720-1287	721-1287	722-1287
1-3/4	1-1/4	2-1/4	4-3/4	720-1289	721-1289	722-1289
1-3/4	1-1/4	3	5-1/2	720-1291	721-1291	722-1291
1-7/8	1-1/4	2-1/4	4-3/4	720-1293	721-1293	722-1293
1-7/8	1-1/4	3	5-1/2	720-1295	721-1295	722-1295
2	1-1/4	2-1/4	4-3/4	720-1297	721-1297	722-1297
2	1-1/4	3	5-1/2	720-1299	721-1299	722-1299
2	1-1/4	4	6-1/2	720-1300	721-1300	722-1300

2 Flute Single End Mills continued

High Speed Steel, Extend Shank

- Use for milling slots, pockets and plunge cuts.
- 2 Flutes allows maximum space for chip ejection.
- Suitable for use in a wide range of ferrous and non-ferrous materials.
- TiN coating improves tool life and allows elevated speeds and feeds.



Size	Shank Dia.	Shank Length	Flute Length	Overall Length	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
1/8"	3/8"	13/16"	3/8"	2-3/8"	720-1171	721-1171	722-1171
3/16	3/8	1-1/8	1/2	2-11/16	720-1173	721-1173	722-1173
3/16	3/8	1-1/2	5/8	3-1/16	720-1172	721-1172	722-1172
1/4	3/8	1	5/8	3-1/16	720-1174	721-1174	722-1174
1/4	3/8	1-1/2	5/8	3-1/16	720-1175	721-1175	722-1175
5/16	3/8	1-3/4	3/4	3-5/16	720-1177	721-1177	722-1177
5/16	3/8	1-1/2	3/4	3-1/4	720-1178	721-1178	722-1178
3/8	3/8	1-3/4	3/4	3-5/16	720-1179	721-1179	722-1179
3/8	3/8	1-3/4	7/8	3-5/16	720-1180	721-1180	722-1180
1/2	1/2	2-1/4	1	4	720-1181	721-1181	722-1181
1/2	1/2	2-1/4	1-7/8	4	720-1182	721-1182	722-1182
5/8	1/2	2-3/4	1-3/8	4-5/8	720-1184	721-1184	722-1184
5/8	5/8	2-3/4	1-3/8	4-5/8	720-1183	721-1183	722-1183
5/8	5/8	2-3/4	2	4-5/8	720-1188	721-1188	722-1188
3/4	1/2	3-3/8	1-5/8	5-3/8	720-1186	721-1186	722-1186
3/4	3/4	3-3/8	1-5/8	5-3/8	720-1185	721-1185	722-1185
7/8	7/8	4	2	6	720-1187	721-1187	722-1187
1	1	5	2-1/2	7-1/4	720-1189	721-1189	722-1189
1-1/4	1-1/4	5	3	7-1/4	720-1191	721-1191	722-1191

2 Flute Keyway Single End Mills

High Speed Steel, Straight Flute

Available -0.001" -0.002" -0.003"

Under Nominal



Keyway W(In.)	Mill Dia.(In.)	Shank Dia.(In.)	LOC (In.)	OAL (In.)	Order No.
1/8	0.1220	3/8	3/8	2-5/16	720-0001
1/8	0.1230	3/8	3/8	2-5/16	720-0003
1/8	0.1240	3/8	3/8	2-5/16	720-0005
3/16	0.1845	3/8	3/8	2-5/16	720-0007
3/16	0.1855	3/8	3/8	2-5/16	720-0009
3/16	0.1865	3/8	3/8	2-5/16	720-0011
1/4	0.2470	3/8	1/2	2-5/16	720-0013
1/4	0.2480	3/8	1/2	2-5/16	720-0015
1/4	0.2490	3/8	1/2	2-5/16	720-0017
5/16	0.3095	3/8	9/16	2-5/16	720-0019
5/16	0.3105	3/8	9/16	2-5/16	720-0021
5/16	0.3115	3/8	9/16	2-5/16	720-0023
3/8	0.3720	3/8	9/16	2-5/16	720-0025
3/8	0.3730	3/8	9/16	2-5/16	720-0027
3/8	0.3740	3/8	9/16	2-5/16	720-0029
1/2	0.4970	1/2	1	3	720-0031
1/2	0.4980	1/2	1	3	720-0033
1/2	0.4990	1/2	1	3	720-0035
5/8	0.6220	5/8	1-5/16	3-7/16	720-0037
5/8	0.6230	5/8	1-5/16	3-7/16	720-0039
5/8	0.6240	5/8	1-5/16	3-7/16	720-0041
3/4	0.7470	3/4	1-5/16	3-9/16	720-0043
3/4	0.7480	3/4	1-5/16	3-9/16	720-0045
3/4	0.7490	3/4	1-5/16	3-9/16	720-0047
7/8	0.8720	7/8	1-1/2	3-3/4	720-0049
7/8	0.8730	7/8	1-1/2	3-3/4	720-0051
7/8	0.8740	7/8	1-1/2	3-3/4	720-0053
1	0.9970	1	1-5/8	4-1/8	720-0055
1	0.9980	1	1-5/8	4-1/8	720-0057
1	0.9990	1	1-5/8	4-1/8	720-0059
1-1/4	1.2470	1-1/4	1-5/8	4-1/8	720-0061
1-1/4	1.2480	1-1/4	1-5/8	4-1/8	720-0063
1-1/4	1.2490	1-1/4	1-5/8	4-1/8	720-0065
1	1.4970	1-1/4	1-5/8	4-1/8	720-0067
1	1.4980	1-1/4	1-5/8	4-1/8	720-0069
1	1.4990	1-1/4	1-5/8	4-1/8	720-0071

2 Flute End Mills



2 Flute Single End Mills For Aluminum

Regular Long & Extra long Flute Length



- Recommended for milling aluminum and other non-ferrous materials.
- The helix angle shears the material cleanly and helps eliminate chatter.
- Tin coating adds lubricity to minimize chip packing in the flutes.

Shank Size	Flute Dia.	Flute Length	Overall Length	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
1/4"	3/8"	5/8"	2-1/2"	720-1501	721-1501	722-1501
1/4"	3/8"	1-1/4"	3-1/8"	720-1503	721-1503	722-1503
1/4"	3/8"	1-3/4"	3-1/2"	720-1505	721-1505	722-1505
5/16"	3/8"	3/4"	2-1/2"	720-1507	721-1507	722-1507
5/16"	3/8"	1-3/8"	3-1/8"	720-1509	721-1509	722-1509
5/16"	3/8"	2"	3-3/4"	720-1511	721-1511	722-1511
3/8"	3/8"	3/4"	2-1/2"	720-1513	721-1513	722-1513
3/8"	3/8"	1-1/2"	3-1/4"	720-1515	721-1515	722-1515
3/8"	3/8"	2-1/2"	4-1/4"	720-1517	721-1517	722-1517
7/16"	3/8"	1"	2-11/16"	720-1519	721-1519	722-1519
7/16"	1/2"	1-3/4"	3-3/4"	720-1521	721-1521	722-1521
7/16"	1/2"	2-3/4"	4-3/4"	720-1523	721-1523	722-1523
1/2"	1/2"	1"	3-1/4"	720-1525	721-1525	722-1525
1/2"	1/2"	1-1/4"	3-1/4"	720-1526	721-1526	722-1526
1/2"	1/2"	2"	4"	720-1527	721-1527	722-1527
1/2"	1/2"	3"	5"	720-1529	721-1529	722-1529
5/8"	1/2"	1-3/8"	3-3/8"	720-1530	721-1530	722-1530
5/8"	5/8"	1-5/8"	3-3/4"	720-1531	721-1531	722-1531
5/8"	5/8"	2-1/2"	4-5/8"	720-1533	721-1533	722-1533
5/8"	5/8"	4"	6-1/8"	720-1535	721-1535	722-1535
3/4"	1/2"	1-5/8"	3-5/8"	720-1536	721-1536	722-1536
3/4"	3/4"	1-5/8"	3-7/8"	720-1537	721-1537	722-1537
3/4"	3/4"	3"	5-1/4"	720-1539	721-1539	722-1539
3/4"	3/4"	4"	6-1/4"	720-1541	721-1541	722-1541
7/8"	7/8"	1-7/8"	4-1/8"	720-1543	721-1543	722-1543
7/8"	7/8"	3-1/2"	5-3/4"	720-1545	721-1545	722-1545
7/8"	7/8"	5"	7-1/4"	720-1547	721-1547	722-1547
1"	3/4"	1-7/8"	4-1/8"	720-1551	721-1551	722-1551
1"	1"	2"	4-1/2"	720-1553	721-1553	722-1553
1"	1"	4"	6-1/2"	720-1555	721-1555	722-1555
1"	1"	6"	8-1/2"	720-1557	721-1557	722-1557
1-1/4"	1-1/4"	2"	4-1/2"	720-1559	721-1559	722-1559
1-1/4"	1-1/4"	4"	6-1/2"	720-1561	721-1561	722-1561
1-1/4"	1-1/4"	6"	8-1/2"	720-1563	721-1563	722-1563
1-1/2"	1-1/4"	2"	4-1/2"	720-1565	721-1565	722-1565
1-1/2"	1-1/4"	4"	6-1/2"	720-1567	721-1567	722-1567
1-1/2"	1-1/4"	8"	10-1/2"	720-1569	721-1569	722-1569
1-3/4"	1-1/4"	2"	4-1/2"	720-1571	721-1571	722-1571
1-3/4"	1-1/4"	4"	6-1/2"	720-1573	721-1573	722-1573
2"	1-1/4"	2"	4-1/2"	720-1575	721-1575	722-1575
2"	1-1/4"	4"	6-1/2"	720-1577	721-1577	722-1577

M42 8% Cobalt 2 Flute Single End Mills

- Premium 8% cobalt is especially effective for machining high strength, heat-resistant, exotic and difficult-to-machine materials,

Regular Length



Shank Size	Flute Dia.	Flute Length	Overall Length	Order No.	Shank Size	Flute Dia.	Flute Length	Overall Length	Order No.
1/8"	3/8"	3/8"	2-5/16"	723-1001	15/16"	5/8"	1-1/2"	3-5/8"	723-1091
9/64"	3/8"	3/8"	2-5/16"	723-1003	15/16"	3/4"	1-1/2"	3-5/8"	723-1094
5/32"	3/8"	7/16"	2-5/16"	723-1005	15/16"	3/4"	1-1/2"	3-3/4"	723-1093
11/64"	3/8"	7/16"	2-5/16"	723-1007	15/16"	7/8"	1-1/2"	3-3/4"	723-1095
3/16"	3/8"	7/16"	2-5/16"	723-1009	31/32"	1/2"	1-1/2"	3-1/2"	723-1097
13/64"	3/8"	7/16"	2-5/16"	723-1011	1"	1/2"	1-1/2"	3-1/2"	723-1099
7/32"	3/8"	1/2"	2-5/16"	723-1012	1"	5/8"	1-1/2"	3-5/8"	723-1101
7/32"	3/8"	1/2"	2-3/8"	723-1013	1"	1/2"	1-1/2"	3-5/8"	723-1102
15/64"	3/8"	1/2"	2-3/8"	723-1015	1"	3/4"	1-1/2"	3-3/4"	723-1103
1/4"	3/8"	3/8"	2-1/4"	723-1016	1"	7/8"	1-1/2"	3-3/4"	723-1105
1/4"	3/8"	1/2"	2-5/16"	723-1017	1"	5/8"	1-5/8"	4-1/8"	723-1104
17/64"	3/8"	9/16"	2-3/8"	723-1019	1"	1"	1-5/8"	4-1/8"	723-1107
9/32"	3/8"	1/2"	2-5/16"	723-1020	1-1/16"	3/4"	1-5/8"	3-3/4"	723-1109
9/32"	3/8"	9/16"	2-3/8"	723-1021	1-1/16"	5/8"	1-5/8"	3-7/8"	723-1100
19/64"	3/8"	9/16"	2-3/8"	723-1023	1-1/16"	3/4"	1-5/8"	3-7/8"	723-1108
5/16"	3/8"	9/16"	2-5/16"	723-1025	1-1/16"	7/8"	1-5/8"	3-7/8"	723-1110
21/64"	3/8"	9/16"	2-3/8"	723-1027	1-1/8"	3/4"	1-1/2"	3-3/4"	723-1112
11/32"	3/8"	9/16"	2-5/16"	723-1028	1-1/8"	3/4"	1-5/8"	3-7/8"	723-1111
11/32"	3/8"	9/16"	2-3/8"	723-1029	1-1/8"	7/8"	1-5/8"	3-7/8"	723-1113
23/64"	3/8"	9/16"	2-3/8"	723-1031	1-1/8"	1"	1-5/8"	3-7/8"	723-1114
3/8"	3/8"	9/16"	2-5/16"	723-1033	1-1/8"	1"	1-5/8"	4-1/8"	723-1115
13/32"	3/8"	13/16"	2-1/2"	723-1035	1-3/16"	3/4"	1-5/8"	3-7/8"	723-1117
7/16"	3/8"	13/16"	2-1/2"	723-1037	1-3/16"	1"	1-5/8"	4-1/8"	723-1098
15/32"	3/8"	13/16"	2-1/2"	723-1036	1-3/16"	1"	1-5/8"	4-1/8"	723-1118
15/32"	1/2"	7/8"	2-1/2"	723-1038	1-1/4"	3/4"	1-5/8"	3-7/8"	723-1119
15/32"	1/2"	1"	3"	723-1039	1-1/4"	7/8"	1-5/8"	3-7/8"	723-1121
1/2"	3/8"	13/16"	2-1/2"	723-1041	1-1/4"	1"	1-5/8"	4-1/8"	723-1123
1/2"	3/8"	1"	3"	723-1042	1-1/4"	1-1/4"	1-5/8"	4-1/8"	723-1125
1/2"	1/2"	1"	3"	723-1043	1-5/16"	3/4"	1-5/8"	3-7/8"	723-1127
1/2"	1/2"	1-1/8"	3-1/8"	723-1044	1-3/8"	3/4"	1-5/8"	3-7/8"	723-1129
17/32"	1/2"	1-1/8"	3-1/8"	723-1045	1-3/8"	1"	1-5/8"	3-7/8"	723-1132
9/16"	1/2"	1-1/8"	3-1/8"	723-1047	1-3/8"	3/4"	1-5/8"	4"	723-1130
19/32"	1/2"	1-1/8"	3-1/8"	723-1049	1-3/8"	3/4"	1-5/8"	4-1/8"	723-1128
5/8"	1/2"	1-1/8"	3-1/8"	723-1051	1-3/8"	1"	1-5/8"	4-1/8"	723-1131
5/8"	5/8"	1-5/16"	3-7/16"	723-1053	1-7/16"	3/4"	1-5/8"	3-7/8"	723-1133
5/8"	5/8"	2"	4-1/8"	723-1054	1-1/2"	3/4"	1-5/8"	3-7/8"	723-1135
21/32"	1/2"	1-5/16"	3-5/16"	723-1055	1-1/2"	3/4"	1-5/8"	4"	723-1134
11/16"	1/2"	1-5/16"	3-5/16"	723-1057	1-1/2"	3/4"	1-5/8"	4-1/8"	723-1136
11/16"	5/8"	1-5/16"	3-7/16"	723-1059	1-1/2"	1"	1-5/8"	4-1/8"	723-1137
23/32"	1/2"	1-5/16"	3-5/16"	723-1061	1-1/2"	1-1/4"	1-5/8"	4-1/8"	723-1139
3/4"	1/2"	1-5/16"	3-5/16"	723-1063	1-5/8"	3/4"	1-5/8"	3-7/8"	723-1141
3/4"	5/8"	1-5/16"	3-7/16"	723-1065	1-5/8"	3/4"	1-5/8"	4-1/8"	723-1142
3/4"	3/4"	1-5/16"	3-7/16"	723-1066	1-5/8"	1-1/4"	1-5/8"	4-1/8"	723-1143
3/4"	3/4"	1-5/16"	3-9/16"	723-1067	1-3/4"	3/4"	1-5/8"	3-7/8"	723-1145
3/4"	3/4"	1-3/4"	4"	723-1069	1-3/4"	3/4"	1-5/8"	4-1/8"	723-1146
3/4"	3/4"	2-1/4"	4-1/2"	723-1070	1-3/4"	1-1/4"	1-5/8"	4-1/8"	723-1147
25/32"	1/2"	1-1/2"	3-1/2"	723-1071	1-7/8"	3/4"	1-5/8"	3-7/8"	723-1149
13/16"	1/2"	1-1/2"	3-5/16"	723-1077	1-7/8"	3/4"	1-5/8"	4-1/8"	723-1150
13/16"	1/2"	1-1/2"	3-5/8"	723-1072	1-7/8"	1-1/4"	1-5/8"	4-1/8"	723-1151
13/16"	5/8"	1-1/2"	3-5/8"	723-1073	2"	3/4"	1-5/8"	3-7/8"	723-1153
13/16"	3/4"	1-1/2"	3-3/4"	723-1075	2"	3/4"	1-5/8"	4-1/8"	723-1154
27/32"	1/2"	1-1/2"	3-1/2"	723-1079	2"	1-1/4"	1-5/8"	4-1/8"	723-1155
7/8"	1/2"	1-1/2"	3-1/2"	723-1081	2"	1-1/4"	2-1/2"	5"	723-1156
7/8"	1/2"	1-1/2"	3-5/8"	723-1082	2"	2"	2"	5-3/4"	723-1157
7/8"	5/8"	1-1/2"	3-5/8"	723-1083	2"	2"	3"	6-3/4"	723-1159
7/8"	3/4"	1-1/2"	3-5/8"	723-1086	2"	2"	4"	7-3/4"	723-1160
7/8"	7/8"	1-1/2"	3-5/8"	723-1088	2-1/4"	1-1/4"	1-5/8"	4-1/8"	723-1161
7/8"	5/8"	1-1/2"	3-3/4"	723-1084	2-1/2"	2"	4"	7-5/8"	723-1162
7/8"	3/4"	1-1/2"	3-3/4"	723-1085	2-1/2"	2"	4"	7-3/4"	723-1163
7/8"	7/8"	1-1/2"	3-3/4"	723-1087	2-1/2"	2"	6"	9-5/8"	723-1164
29/32"	1/2"	1-1/2"	3-1/2"	723-1089	2-1/2"	2"	6"	9-3/4"	723-1165
15/16"	1/2"	1-1/2"	3-5/8"	723-1090	3"	2-1/2"	4"	7-3/4"	723-1167

M42 8% Cobalt 2 Flute Single End Mills

- Use for milling slots, pockets and plunge cuts.

M-42 cobalt end mills are more economical than high speed steel end mills. They stay sharper longer to allow more cuts between grinds and reduce downtime to give you lower cost per machined workpiece!



Medium Length & Long Length

Shank Flute					Shank Flute				
Size	Dia.	L	OAL	Order No.	Size	Dia.	L	OAL	Order No.
3/16"	3/8"	3/4"	2-5/8"	723-1201	1"	1"	2"	4-1/2"	723-1249
7/32	3/8	1-1/4	3-1/8	723-1203	1	1	2-1/4	4-3/4	723-1251
1/4	3/8	1	2-3/4	723-1204	1	1	2-1/2	5	723-1253
1/4	3/8	1	3-1/16	723-1205	1	1	3	5-1/2	723-1255
1/4	3/8	1-1/4	3-1/8	723-1207	1	1	3-1/2	6	723-1257
9/32	3/8	1-3/8	3-1/8	723-1209	1	1	4	6-1/2	723-1259
5/16	3/8	1-1/4	3	723-1210	1	1	4-5/8	7	723-1261
5/16	3/8	1-1/4	3-5/16	723-1211	1-1/8	1	2-1/4	4-3/4	723-1263
5/16	3/8	1-3/8	3-1/8	723-1213	1-1/8	1	3	4-3/4	723-1265
11/32	3/8	1-1/2	3-1/4	723-1215	1-1/8	1	3	5-1/2"	723-1266
3/8	3/8	1	2-3/4	723-1217	1-1/4	1	2-1/4	4-3/4	723-1267
3/8	3/8	1-1/2	3-1/4	723-1219	1-1/4	1-1/4	2-1/4	5-1/2	723-1269
7/16	1/2	1-3/4	3-3/4	723-1221	1-1/4	1	3	5-1/2	723-1271
1/2	1/2	1-1/2	3-1/2	723-1223	1-1/4	1-1/4	3	5-1/2	723-1273
1/2	1/2	2	4	723-1225	1-1/4	1-1/4	3-1/2	6	723-1274
1/2	1/2	3	5	723-1226	1-1/4	1-1/4	4-3/4	7-1/4	723-1275
5/8	5/8	1-5/8	3-3/4	723-1227	1-3/8	1	2-1/4	4-3/4	723-1277
5/8	5/8	2	4-1/8	723-1229	1-3/8	1	3	5-1/2	723-1279
5/8	5/8	2-3/8	4-1/2	723-1230	1-1/2	1-1/4	6	8-1/2	723-1280
5/8	5/8	2-1/2	4-5/8	723-1231	1-1/2	1-1/4	2-1/4	4-3/4	723-1281
5/8	5/8	3	5-1/8	723-1233	1-1/2	1-1/4	3	5-1/2	723-1283
5/8	5/8	4	6-1/8	723-1234	1-1/2	1-1/4	4	6-1/2	723-1284
3/4	3/4	1-3/4	4	723-1235	1-5/8	1-1/4	2-1/4	4-3/4	723-1285
3/4	3/4	2-1/4	4-1/2	723-1237	1-5/8	1-1/4	3	5-1/2	723-1287
3/4	3/4	2-1/2	4-3/4	723-1239	1-3/4	1-1/4	2-1/4	4-3/4	723-1289
3/4	3/4	3	5-1/4	723-1241	1-3/4	1-1/4	3	5-1/2	723-1291
3/4	3/4	3-1/2	5-3/4	723-1243	1-7/8	1-1/4	2-1/4	4-3/4	723-1293
3/4	3/4	4	6-1/4	723-1244	1-7/8	1-1/4	3	5-1/2	723-1295
7/8	7/8	2	4-1/4	723-1245	2	1-1/4	2-1/4	4-3/4	723-1297
7/8	7/8	2-1/2	4-3/4	723-1247	2	1-1/4	3	5-1/2	723-1299
7/8	7/8	3-1/2	5-3/4	723-1248	2	1-1/4	4	6-1/2	723-1300

Extend Shank



Length						Length					
S&K Below Flute						S&K Below Flute					
Size	Dia.	shank	L	OAL	Order No.	Size	Dia.	shank	L	OAL	Order No.
1/8"	3/8"	13/16"	3/8"	2-3/8"	723-1171	1/2"	1/2"	2-1/4"	1-7/8"	4"	723-1182
3/16	3/8	1-1/8	1/2	2-11/16	723-1173	5/8	1/2	2-3/4	1-3/8	4-5/8	723-1184
3/16	3/8	1-1/2	5/8	3-1/16	723-1172	5/8	5/8	2-3/4	1-3/8	4-5/8	723-1183
1/4	3/8	1	5/8	3-1/16	723-1174	5/8	5/8	2-3/4	2	4-5/8	723-1188
1/4	3/8	1-1/2	5/8	3-1/16	723-1175	3/4	1/2	3-3/8	1-5/8	5-3/8	723-1186
5/16	3/8	1-3/4	3/4	3-5/16	723-1177	3/4	3/4	3-3/8	1-5/8	5-3/8	723-1185
5/16	3/8	1-1/2	3/4	3-1/4"	723-1178	7/8	7/8	4	2	6	723-1187
3/8	3/8	1-3/4	3/4	3-5/16	723-1179	1	1	5	2-1/2	7-1/4	723-1189
3/8	3/8	1-3/4	7/8	3-5/16	723-1180	1-1/4	1-1/4	4-5	3	7-1/4	723-1191
1/2	1/2	2-1/4	1	4	723-1181						

2 Flute Double End Mills

High Speed Steel

- Use for milling slots, pockets and for plunge cutting in a wide variety of materials.
- More economical in production milling than single end end mills.



Regular Length

Size	Shank Dia.	Shank Length	Overall Length	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
5/64"	3/8"	5/16"	3-1/16"	720-2000	721-2000	722-2000
3/32	3/8	5/16	3-1/16	720-2002	721-2002	722-2002
7/64	3/8	5/16	3-1/16	720-2004	721-2004	722-2004
1/8	3/8	3/8	3-1/16	720-2008	721-2008	722-2008
9/64	3/8	7/16	3-1/8	720-2010	721-2010	722-2010
5/32	3/8	7/16	3-1/8	720-2012	721-2012	722-2012
11/64	3/8	7/16	3-1/8	720-2014	721-2014	722-2014
3/16	3/8	7/16	3-1/8	720-2016	721-2016	722-2016
13/64	3/8	1/2	3-1/8	720-2018	721-2018	722-2018
7/32	3/8	1/2	3-1/8	720-2020	721-2020	722-2020
15/64	3/8	1/2	3-1/8	720-2022	721-2022	722-2022
1/4	3/8	1/2	3-1/8	720-2024	721-2024	722-2024
17/64	3/8	9/16	3-1/8	720-2026	721-2026	722-2026
9/32	3/8	9/16	3-1/8	720-2028	721-2028	722-2028
19/64	3/8	9/16	3-1/8	720-2030	721-2030	722-2030
5/16	3/8	9/16	3-1/8	720-2032	721-2032	722-2032
21/64	3/8	9/16	3-1/8	720-2034	721-2034	722-2034
11/32	3/8	9/16	3-1/8	720-2036	721-2036	722-2036
23/64	3/8	9/16	3-1/8	720-2038	721-2038	722-2038
3/8	3/8	9/16	3-1/16	720-2039	721-2039	722-2039
3/8	3/8	9/16	3-1/8	720-2040	721-2040	722-2040
25/64	1/2	13/16	3-3/4	720-2042	721-2042	722-2042
13/32	1/2	13/16	3-3/4	720-2044	721-2044	722-2044
13/32	1/2	13/16	3-13/16	720-2045	721-2045	722-2045
27/64	1/2"	13/16	3-3/4	720-2046	721-2046	722-2046
7/16	1/2	13/16	3-3/4	720-2048	721-2048	722-2048
29/64	1/2	13/16	3-3/4	720-2050	721-2050	722-2050
15/32	1/2	13/16	3-3/4	720-2052	721-2052	722-2052
31/64	1/2	13/16	3-3/4	720-2054	721-2054	722-2054
1/2	1/2	13/16	3-3/4	720-2056	721-2056	722-2056
17/32	5/8	1-1/8	4-1/2	720-2058	721-2058	722-2058
9/16	5/8	1-1/8	4-1/2	720-2060	721-2060	722-2060
19/32	5/8	1-1/8	4-1/2	720-2062	721-2062	722-2062
5/8	5/8	1-1/8	4-1/2	720-2064	721-2064	722-2064
5/8	1/2	1-1/8	4-1/2	720-2065	721-2065	722-2065
21/32	3/4	1-5/16	5	720-2066	721-2066	722-2066
11/16	3/4	1-5/16	5	720-2068	721-2068	722-2068
23/32	3/4	1-5/16	5	720-2070	721-2070	722-2070
3/4	3/4	1-5/16	5	720-2072	721-2072	722-2072
25/32	7/8	1-9/16	5-1/2	720-2074	721-2074	722-2074
13/16	7/8	1-9/16	5-1/2	720-2076	721-2076	722-2076
27/32	7/8	1-9/16	5-1/2	720-2078	721-2078	722-2078
7/8	7/8	1-9/16	5-1/2	720-2080	721-2080	722-2080
7/8	3/4	1-9/16	5-1/2	720-2081	721-2081	722-2081
29/32	1	1-5/8	5-7/8	720-2082	721-2082	722-2082
15/16	1	1-5/8	5-7/8	720-2084	721-2084	722-2084
31/32	1	1-5/8	5-7/8	720-2086	721-2086	722-2086
1	1	1-5/8	5-7/8	720-2088	721-2088	722-2088

3 Flute End Mills



M42 8% Cobalt 2 Flute Double End Mills

- Use for milling slots, pockets and for plunge cutting in a wide variety of materials.
- More economical in production milling than single end end mills.



Shank Flute OAL					Shank Flute OAL				
Size	Dia.	Length	3-1/16"	Order No.	Size	Dia.	Length	3-1/16"	Order No.
5/64"	3/8"	5/16"	3-1/16	723-2000	7/64"	1/2"	13/16"	3-3/4"	723-2046
3/32	3/8	5/16	3-1/16	723-2002	7/16	1/2	13/16	3-3/4	723-2048
7/64	3/8	5/16	3-1/16	723-2004	29/64	1/2	13/16	3-3/4	723-2050
1/8	3/8	3/8	3-1/8	723-2008	15/32	1/2	13/16	3-3/4	723-2052
9/64	3/8	7/16	3-1/8	723-2010	31/64	1/2	13/16	3-3/4	723-2054
5/32	3/8	7/16	3-1/8	723-2012	1/2	1/2	13/16	4-1/2	723-2056
11/64	3/8	7/16	3-1/8	723-2014	17/32	5/8	1-1/8	4-1/2	723-2058
3/16	3/8	7/16	3-1/8	723-2016	9/16	5/8	1-1/8	4-1/2	723-2060
13/64	3/8	1/2	3-1/8	723-2018	19/32	5/8	1-1/8	4-1/2	723-2062
7/32	3/8	1/2	3-1/8	723-2020	5/8	5/8	1-1/8	4-1/2	723-2064
15/64	3/8	1/2	3-1/8	723-2022	5/8	1/2	1-1/8	5	723-2065
1/4	3/8	1/2	3-1/8	723-2024	21/32	3/4	1-5/16	5	723-2066
17/64	3/8	9/16	3-1/8	723-2026	11/16	3/4	1-5/16	5	723-2068
9/32	3/8	9/16	3-1/8	723-2028	23/32	3/4	1-5/16	5	723-2070
19/64	3/8	9/16	3-1/8	723-2030	3/4	3/4	1-5/16	5-1/2	723-2072
5/16	3/8	9/16	3-1/8	723-2032	25/32	7/8	1-9/16	5-1/2	723-2074
21/64	3/8	9/16	3-1/8	723-2034	13/16	7/8	1-9/16	5-1/2	723-2076
11/32	3/8	9/16	3-1/8	723-2036	27/32	7/8	1-9/16	5-1/2	723-2078
23/64	3/8	9/16	3-1/16	723-2038	7/8	7/8	1-9/16	5-1/2	723-2080
3/8	3/8	9/16	3-1/8	723-2039	7/8	3/4	1-9/16	5-7/8	723-2081
3/8	3/8	9/16	3-3/4	723-2040	29/32	1	1-5/8	5-7/8	723-2082
25/64	1/2	13/16	3-3/4	723-2042	15/16	1	1-5/8	5-7/8	723-2084
13/32	1/2	13/16	3-13/16	723-2044	31/32	1	1-5/8	5-7/8	723-2086
13/32	1/2	13/16	3-3/4	723-2045	1	1	1-5/8		723-2088

1/4" Shank 3 Flute Single End Mills

High Speed Steel



Stud Length

Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.	M2AI Order No.	TiN-Coated Order No.
1/16"	1/4"	3/32"	31/32"	720-3700	721-3700	722-3700
3/32	1/4	5/32	1-1/64	720-3702	721-3702	722-3702
1/8	1/4	3/16	1-3/32	720-3704	721-3704	722-3704
5/32	1/4	1/4	1-9/32	720-3706	721-3706	722-3706
3/16	1/4	9/32	1-11/32	720-3708	721-3708	722-3708
7/32	1/4	5/16	1-13/32	720-3710	721-3710	722-3710
1/4	1/4	3/8	1-13/32	720-3712	721-3712	722-3712

Long Length

Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.	M2AI Order No.	TiN-Coated Order No.
1/16"	1/4"	5/32"	1-3/32"	720-3714	721-3714	722-3714
3/32	1/4	1/4	1-1/4	720-3716	721-3716	722-3716
1/8	1/4	5/16	1-11/32	720-3718	721-3718	722-3718
5/32	1/4	3/8	1-17/32	720-3720	721-3720	722-3720
3/16	1/4	7/16	1-21/32	720-3722	721-3722	722-3722
7/32	1/4	1/2	1-3/4	720-3724	721-3724	722-3724
1/4	1/4	5/8	1-3/4	720-3726	721-3726	722-3726

3 Flute Single End Mills

Center Cutting, High Speed Steel

- Center cutting allows for plunge milling.
- Use in a wide range of ferrous and non-ferrous materials.
- TiN coating improves tool life and allows elevated speeds and feeds.
- Combines the chip carrying ability of 2 flute end mills and the excellent finish produced by 4 flute end mills.



Regular Length

Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.	TiN-Coated Order No.
3/32"	3/8"	5/16"	2-5/16"	720-3801	722-3801
1/8	3/8	3/8	2-5/16	720-3803	722-3803
3/16	3/8	1/2	2-3/8	720-3805	722-3805
1/4	3/8	5/8	2-7/16	720-3807	722-3807
5/16	3/8	3/4	2-1/2	720-3809	722-3809
3/8	3/8	3/4	2-1/2	720-3811	722-3811
7/16	3/8	1	2-11/16	720-3813	722-3813
7/16	1/2	1	2-15/16	720-3815	722-3815
1/2	3/8	1	2-11/16	720-3817	722-3817
1/2	1/2	1-1/4	3-1/4	720-3819	722-3819
9/16	1/2	1-3/8	3-3/8	720-3821	722-3821
5/8	1/2	1-3/8	3-3/8	720-3823	722-3823
5/8	5/8	1-5/8	3-3/4	720-3825	722-3825
11/16	1/2	1-5/8	3-5/8	720-3827	722-3827
11/16	5/8	1-5/8	3-3/4	720-3829	722-3829
3/4	5/8	1-5/8	3-3/4	720-3831	722-3831
3/4	1/2	1-5/8	3-5/8	720-3833	722-3833
3/4	3/4	1-5/8	3-7/8	720-3835	722-3835
13/16	5/8	1-5/8	3-3/4	720-3837	722-3837
13/16	3/4	1-5/8	3-7/8	720-3839	722-3839
7/8	5/8	1-7/8	4	720-3841	722-3841
7/8	3/4	1-7/8	4-1/8	720-3843	722-3843
7/8	7/8	1-7/8	4-7/8	720-3845	722-3845
7/8	1/2	1-5/8	3-5/8	720-3847	722-3847
15/16	7/8	1-7/8	4-1/8	720-3849	722-3849
15/16	5/8	1-7/8	4	720-3851	722-3851
1	5/8	1-7/8	4	720-3853	722-3853
1	3/4	1-7/8	4-1/8	720-3855	722-3855
1	7/8	1-7/8	4-1/8	720-3857	722-3857
1	1	2	4-1/2	720-3859	722-3859
1-1/8	1	2	4-1/2	720-3861	722-3861
1-1/4	1	2	4-1/2	720-3863	722-3863
1-1/4	1-1/4	2	4-1/2	720-3865	722-3865
1-3/8	1	2	4-1/2	720-3867	722-3867
1-3/8	1-1/4	2	4-1/2	720-3869	722-3869
1-1/2	1	2	4-1/2	720-3871	722-3871
1-1/2	1-1/4	2	4-1/2	720-3873	722-3873
1-3/4	1-1/4	2	4-1/2	720-3875	722-3875
2	1-1/4	2	4-1/2	720-3877	722-3877
2	2	3	5-3/4	720-3879	722-3879
2-1/2	2	4	7-5/8	720-3881	722-3881
2-1/2	2-1/2	4	8	720-3883	722-3883

Long Length

Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.	M2AI Order No.	TiN-Coated Order No.
1/4	3/8	1-1/4	3-1/8	720-6105	721-6105	722-6105
5/16	3/8	1-3/8	3-1/8	720-6110	721-6110	722-6110
3/8	3/8	1-1/2	3-1/4	720-6115	721-6115	722-6115
7/16	1/2	1-3/4	3-3/4	720-6120	721-6120	722-6120
1/2	1/2	2	4	720-6125	721-6125	722-6125
5/8	5/8	2-1/2	4-5/8	720-6130	721-6130	722-6130
3/4	3/4	3	5-1/4	720-6135	721-6135	722-6135
7/8	7/8	3-1/2	5-3/4	720-6140	721-6140	722-6140
1	1	4	6-1/2	720-6145	721-6145	722-6145
1-1/4	1-1/4	4	6-1/2	720-6150	721-6150	722-6150
1-1/2	1-1/4	4	6-1/2	720-6155	721-6155	722-6155

3 Flute Double End Mills

High Speed Steel

- Use in a wide range of ferrous and non-ferrous materials.
- TiN coating improves tool life and allows elevated speeds and feeds.



Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
3/32"	3/8"	5/16"	3-1/16"	720-3002	721-3002	722-3002
1/8	3/8	3/8	3-1/16	720-3004	721-3004	722-3004
5/32	3/8	7/16	3-1/8	720-3006	721-3006	722-3006
3/16	3/8	1/2	3-1/4	720-3008	721-3008	722-3008
7/32	3/8	9/16	3-1/4	720-3010	721-3010	722-3010
1/4	3/8	5/8	3-3/8	720-3012	721-3012	722-3012
9/32	3/8	11/16	3-3/8	720-3014	721-3014	722-3014
5/16	3/8	3/4	3-1/2	720-3016	721-3016	722-3016
11/32	3/8	3/4	3-1/2	720-3018	721-3018	722-3018
3/8	3/8	3/4	3-1/2	720-3020	721-3020	722-3020
7/16	1/2	1	4-1/8	720-3022	721-3022	722-3022
1/2	1/2	1	4-1/8	720-3024	721-3024	722-3024
9/16	5/8	1-3/8	5	720-3026	721-3026	722-3026
5/8	5/8	1-3/8	5	720-3028	721-3028	722-3028
11/16	3/4	1-1/2	5-3/8	720-3030	721-3030	722-3030
3/4	3/4	1-1/2	5-3/8	720-3032	721-3032	722-3032
13/16	7/8	1-3/4	5-7/8	720-3034	721-3034	722-3034
7/8	7/8	1-3/4	5-7/8	720-3036	721-3036	722-3036
15/16	1	1-3/4	6-1/8	720-3038	721-3038	722-3038
1	1	1-3/4	6-1/8	720-3040	721-3040	722-3040

M42 8% Cobalt 3 Flute Single End Mills

Center Cutting

Three-Flute End Mills—Have smoother cutting action with less chatter and flutter than two-flute tools and may eliminate the need for a second finishing cut.

- Center cutting allows for plunge milling.
- Combines the chip carrying ability of 2 flute end mills and the excellent finish produced by 4 flute end mills.
- Use in a wide range of ferrous and non-ferrous materials.
- TiN coating improves tool life and allows elevated speeds and feeds.



Regular Length

Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.	Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.
3/32"	3/8"	5/16"	2-5/16"	723-3801	7/8"	3/4"	1-7/8"	4-1/8"	723-3843
1/8	3/8	3/8	2-5/16	723-3803	7/8	7/8	1-7/8	4-7/8	723-3845
3/16	3/8	1/2	2-3/8	723-3805	7/8	1/2	1-5/8	3-5/8	723-3847
1/4	3/8	5/8	2-7/16	723-3807	15/16	7/8	1-7/8	4-1/8	723-3849
5/16	3/8	3/4	2-1/2	723-3809	15/16	5/8	1-7/8	4	723-3851
3/8	3/8	3/4	2-1/2	723-3811	1	5/8	1-7/8	4	723-3853
7/16	3/8	1	2-11/16	723-3813	1	3/4	1-7/8	4-1/8	723-3855
7/16	1/2	1	2-15/16	723-3815	1	7/8	1-7/8	4-1/8	723-3857
1/2	3/8	1	2-11/16	723-3817	1	1	2	4-1/2	723-3859
1/2	1/2	1-1/4	3-1/4	723-3819	1-1/8	1	2	4-1/2	723-3861
9/16	1/2	1-3/8	3-3/8	723-3821	1-1/4	1	2	4-1/2	723-3863
5/8	1/2	1-3/8	3-3/8	723-3823	1-1/4	1-1/4	2	4-1/2	723-3865
5/8	5/8	1-5/8	3-3/4	723-3825	1-3/8	1	2	4-1/2	723-3867
11/16	1/2	1-5/8	3-5/8	723-3827	1-3/8	1-1/4	2	4-1/2	723-3869
11/16	5/8	1-5/8	3-3/4	723-3829	1-1/2	1	2	4-1/2	723-3871
3/4	5/8	1-5/8	3-3/4	723-3831	1-1/2	1-1/4	2	4-1/2	723-3873
3/4	1/2	1-5/8	3-5/8	723-3833	1-3/4	1-1/4	2	4-1/2	723-3875
3/4	3/4	1-5/8	3-7/8	723-3835	2	1-1/4	2	4-1/2	723-3877
13/16	5/8	1-5/8	3-3/4	723-3837	2	2	3	5-3/4	723-3879
13/16	3/4	1-5/8	3-7/8	723-3839	2-1/2	2	4	7-5/8	723-3881
7/8	5/8	1-7/8	4	723-3841	2-1/2	2-1/2	4	8	723-3883

M42 8% Cobalt 3 Flute Single End Mills

Center Cutting

Three-Flute End Mills—Have smoother cutting action with less chatter and flutter than two-flute tools and may eliminate the need for a second finishing cut.



Long Length

Size	Shank Dia.	Flute Length	Overall Length	M42 Order No.
1/4"	3/8"	1-1/4"	3-1/8"	723-6105
5/16	3/8	1-3/8	3-1/8	723-6110
3/8	3/8	1-1/2	3-1/4	723-6115
7/16	1/2	1-3/4	3-3/4	723-6120
1/2	1/2	2	4	723-6125
5/8	5/8	2-1/2	4-5/8	723-6130
3/4	3/4	3	5-1/4	723-6135
7/8	7/8	3-1/2	5-3/4	723-6140
1	1	4	6-1/2	723-6145
1-1/4	1-1/4	4	6-1/2	723-6150
1-1/2	1-1/4	4	6-1/2	723-6155

3 Flute Semi-Roughing & Finishing End Mills

M42 8% Cobalt 45° Helical

Center Cutting

Size	Shank Dia.	Flute Length	Overall Length	Order No.	Tin-Coated Order No.
1/4"	3/8"	5/8"	2-7/16"	723-9708	722-9708
5/16	3/8	3/4	2-1/2	723-9713	722-9713
3/8	3/8	3/4	2-1/2	723-9718	722-9718
7/16	3/8	1	2-11/16	723-9723	722-9723
1/2	1/2	1-1/4	3-1/4	723-9728	722-9728
1/2	1/2	2	4	723-9733	722-9733
5/8	5/8	1-5/8	3-3/4	723-9738	722-9738
5/8	5/8	2-1/2	4-5/8	723-9743	722-9743
3/4	5/8	1-5/8	3-7/8	723-9745	722-9745
3/4	3/4	1-5/8	3-7/8	723-9748	722-9748
3/4	3/4	3	5-1/4	723-9753	722-9753
7/8	3/4	1-7/8	4-1/8	723-9758	722-9758
7/8	3/4	3-1/2	5-5/8	723-9761	722-9761
7/8	7/8	1-7/8	4-1/8	723-9763	722-9763
1	3/4	2	4-1/2	723-9768	722-9768
1	1	2	4-1/2	723-9773	722-9773
1	1	4	6-1/2	723-9778	722-9778
1-1/8	3/4	2	4-1/2	723-9781	722-9781
1-1/8	1	2	4-1/2	723-9783	722-9783
1-1/4	3/4	2	4-1/2	723-9788	722-9788
1-1/4	3/4	4	6-1/2	723-9791	722-9791
1-1/4	1	2	4-1/2	723-9793	722-9793
1-1/4	1-1/4	2	4-1/2	723-9798	722-9798
1-1/4	1-1/4	4	6-1/2	723-9803	722-9803
1-1/2	3/4	2	4-1/2	723-9808	722-9808
1-1/2	3/4	4	6-1/2	723-9811	722-9811
1-1/2	1-1/4	2	4-1/2	723-9813	722-9813
1-1/2	1-1/4	4	6-1/2	723-9818	722-9818
1-3/4	3/4	2	4-1/2	723-9821	722-9821
1-3/4	1-1/4	2	4-1/2	723-9823	722-9823
2	3/4	2	4-1/2	723-9725	722-9725
2	1-1/4	2	4-1/2	723-9828	722-9828

Multiple Flute Single End Mills

- Designed for general purpose work including cam milling, die sinking and slot milling.
- Suitable for use in a wide range of ferrous and non-ferrous materials.
- Excellent for use in finishing operations.
- Multi-flute design allows for higher feed rates.



Regular Length

Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
7/64"	3/8"	3/8"	2-5/16"	4	720-3001	721-3001	722-3001
1/8	3/8	3/8	2-5/16	4	720-3003	721-3003	722-3003
9/64	3/8	3/8	2-5/16	4	720-3005	721-3005	722-3005
5/32	3/8	3/8	2-5/16	4	720-3420	721-3420	722-3420
5/32	3/8	7/16	2-3/8	4	720-3007	721-3007	722-3007
11/64	3/8	7/16	2-3/8	4	720-3009	721-3009	722-3009
11/64	3/8	1/2	2-5/16	4	720-3422	721-3422	722-3422
3/16	3/8	1/2	2-3/8	4	720-3011	721-3011	722-3011
13/64	3/8	1/2	2-3/8	4	720-3013	721-3013	722-3013
7/32	3/8	9/16	2-1/2	4	720-3015	721-3015	722-3015
7/32	3/8	5/8	2-1/4	4	720-3423	721-3423	722-3423
7/32	3/8	5/8	2-3/8	4	720-3425	721-3425	722-3425
7/32	3/8	5/8	2-7/16	4	720-3424	721-3424	722-3424
15/64	3/8	9/16	2-1/2	4	720-3017	721-3017	722-3017
1/4	3/8	5/8	2-1/4	4	720-3427	721-3427	722-3425
1/4	3/8	5/8	2-7/16	4	720-3428	721-3428	722-3428
1/4	3/8	5/8	2-1/2	4	720-3019	721-3019	722-3019
17/64	3/8	5/8	2-1/2	4	720-3021	721-3021	722-3021
9/32	3/8	5/8	2-1/4	4	720-3429	721-3429	722-3427
9/32	3/8	11/16	2-1/2	4	720-3023	721-3023	722-3023
19/64	3/8	11/16	2-1/2	4	720-3025	721-3025	722-3025
5/16	3/8	3/4	2-1/4	4	720-3431	721-3436	722-3436
5/16	3/8	3/4	2-1/2	4	720-3027	721-3027	722-3027
21/64	3/8	3/4	2-1/2	4	720-3029	721-3029	722-3029
11/32	3/8	3/4	2-1/2	4	720-3031	721-3031	722-3031
23/64	3/8	3/4	2-1/2	4	720-3033	721-3033	722-3033
3/8	3/8	3/4	2-1/2	4	720-3035	721-3035	722-3035
13/32	3/8	1	2-11/16	4	720-3037	721-3037	722-3037
7/16	3/8	1	2-11/16	4	720-3039	721-3039	722-3039
15/32	3/8	1	2-11/16	4	720-3042	721-3042	722-3042
15/32	1/2	1-1/4	3-1/4	4	720-3041	721-3041	722-3041
1/2	3/8	1	2-11/16	4	720-3043	721-3043	722-3043
1/2	1/2	1-1/4	3-1/4	4	720-3045	721-3045	722-3045
1/2	1/2	1-1/4	3-1/4	6	720-3046	721-3046	722-3046
17/32	1/2	1-3/8	3-3/8	4	720-3047	721-3047	722-3047
9/16	1/2	1-3/8	3-3/8	4	720-3049	721-3049	722-3049
19/32	1/2	1-3/8	3-3/8	4	720-3051	721-3051	722-3051
5/8	1/2	1-3/8	3-3/8	4	720-3053	721-3053	722-3053
5/8	5/8	1-5/8	3-1/4	6	720-3056	721-3056	722-3056
5/8	5/8	1-5/8	3-3/4	4	720-3055	721-3055	722-3055
21/32	1/2	1-5/8	3-5/8	4	720-3057	721-3057	722-3057
11/16	1/2	1-5/8	3-5/8	4	720-3059	721-3059	722-3059
11/16	5/8	1-5/8	3-3/4	4	720-3061	721-3061	722-3061
23/32	1/2	1-5/8	3-5/8	4	720-3063	721-3063	722-3063
3/4	1/2	1-5/8	3-5/8	4	720-3065	721-3065	722-3065
3/4	5/8	1-5/8	3-5/8	4	720-3066	721-3066	722-3066
3/4	5/8	1-5/8	3-3/4	4	720-3067	721-3067	722-3067
3/4	3/4	1-5/8	3-7/8	4	720-3068	721-3068	722-3068
3/4	3/4	1-5/8	3-3/4	4	720-3069	721-3069	722-3069
3/4	3/4	1-5/8	3-3/4	6	720-3070	721-3070	722-3070
25/32	1/2	1-5/8	3-5/8	4	720-3071	721-3071	722-3071
13/16	1/2	1-3/4	3-3/4	4	720-3072	721-3072	722-3072
13/16	5/8	1-7/8	4	4	720-3074	721-3074	722-3074
13/16	5/8	1-7/8	4	6	720-3073	721-3073	722-3073
13/16	3/4	1-7/8	4-1/8	4	720-3075	721-3075	722-3075
27/32	1/2	1-5/8	3-5/8	4	720-3077	721-3077	722-3077
7/8	1/2	1-5/8	3-5/8	4	720-3079	721-3079	722-3079
7/8	1/2	1-5/8	3-5/8	6	720-3081	721-3081	722-3081
7/8	1/2	1-7/8	4	4	720-3080	721-3080	722-3080
7/8	1/2	1-7/8	4	6	720-3082	721-3082	722-3082
7/8	5/8	1-7/8	4	6	720-3083	721-3083	722-3083
7/8	3/4	1-7/8	4-1/8	4	720-3085	721-3085	722-3085
7/8	7/8	1-7/8	4-1/8	4	720-3087	721-3087	722-3087
7/8	3/4	1-7/8	4-1/8	6	720-3086	721-3086	722-3086
29/32	1/2	1-7/8	3-7/8	4	720-3089	721-3089	722-3089
15/16	1/2	1-7/8	4	4	720-3090	721-3090	722-3090
15/16	5/8	1-7/8	4	6	720-3091	721-3091	722-3091
15/16	5/8	1-7/8	4-1/8	6	720-3438	721-3438	722-3092
15/16	3/4	1-7/8	4-1/8	4	720-3093	721-3093	722-3093
15/16	3/4	1-7/8	4-1/8	6	720-3170	721-3170	722-3170
15/16	5/8	1-7/8	4-1/8	6	720-3092	721-3092	722-3440
15/16	7/8	1-7/8	4-1/8	4	720-3095	721-3095	722-3095
15/16	7/8	1-7/8	4-1/8	6	720-3096	721-3096	722-3096
31/32	1/2	1-7/8	3-7/8	4	720-3097	721-3097	722-3097
1	1/2	1-7/8	3-7/8	4	720-3098	721-3098	722-3098
1	1/2	1-7/8	4	4	720-3099	721-3099	722-3099

Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
1"	1/2"	1-7/8"	4"	6	720-3100	721-3100	722-3100
1	5/8	1-7/8	4	4	720-3102	721-3102	722-3102
1	5/8	1-7/8	4	6	720-3101	721-3101	722-3101
1	3/4	1-7/8	4	6	720-3106	721-3106	722-3106
1	3/4	1-7/8	4-1/8	4	720-3103	721-3103	722-3103
1	7/8	1-7/8	4-1/8	4	720-3105	721-3105	722-3105
1	3/4	2	4-1/2	4	720-3104	721-3445	722-3445
1	1	2	4-1/2	4	720-3107	721-3107	722-3107
1	1	2	4-1/2	6	720-3108	721-3108	722-3108
1-1/16	3/4	2	4-1/4	4	720-3433	721-3433	722-3429
1-1/16	3/4	2	4-1/4	6	720-3109	721-3109	722-3109
1-1/8	3/4	1-1/2	3-7/8	6	720-3171	721-3181	722-3171
1-1/8	3/4	2	4-1/8	6	720-3110	721-3110	722-3110
1-1/8	3/4	2	4-1/4	4	720-3112	721-3112	722-3112
1-1/8	3/4	2	4-1/4	6	720-3111	721-3111	722-3111
1-1/8	1	2	4-1/4	4	720-3114	721-3114	722-3114
1-1/8	7/8	2	4-1/4	6	720-3113	721-3113	722-3113
1-1/8	3/4	2	4-1/2	6	720-3173	721-3173	722-3173
1-1/8	1	2	4-1/2	6	720-3115	721-3115	722-3115
1-1/8	1	2-5/8	4-1/2	4	720-3116	721-3116	722-3116
1-3/16	3/4	2	4-1/4	6	720-3117	721-3117	722-3117
1-3/16	1	2	4-1/4	6	720-3118	721-3118	722-3118
1-1/4	3/4	2	4-1/4	6	720-3119	721-3119	722-3119
1-1/4	7/8	2	4-1/4	4	720-3120	721-3120	722-3120
1-1/4	7/8	2	4-1/4	6	720-3121	721-3121	722-3121
1-1/4	1	2	4-1/2	6	720-3123	721-3123	722-3123
1-1/4	1-1/4	2	4-1/2	4	720-3124	721-3171	722-3124
1-1/4	1-1/4	2	4-1/2	6	720-3125	721-3125	722-3125
1-1/4	1	4	6-1/2	6	720-3122	721-3122	722-3122
1-5/16	3/4	1-5/8	3-7/8	6	720-3435	721-3435	722-3431
1-5/16	3/4	2	4-1/2	6	720-3127	721-3127	722-3127
1-3/8	3/4	2	4-1/4	4	720-3442	721-3442	722-3433
1-3/8	3/4	2	4-1/4	6	720-3128	721-3128	722-3128
1-3/8	3/4	2	4-1/2	6	720-3129	721-3129	722-3129
1-3/8	1	2	4-1/2	6	720-3131	721-3131	722-3131
1-3/8	1-1/4	2	4-1/2	6	720-3130	721-3130	722-3130
1-7/16	3/4	1-5/8	3-7/8	6	720-3132	721-3132	722-3132
1-7/16	3/4	2	4-1/2	6	720-3133	721-3133	722-3133
1-1/2	3/4	2	4-3/8	4	720-3446	721-3446	722-3435
1-1/2	3/4	2	4-1/4	4	720-3134	721-3134	722-3447
1-1/2	3/4	2	4-1/2	4	720-3448	721-3448	722-3134
1-1/2	3/4	2	4-1/2	6	720-3135	721-3135	722-3135
1-1/2	1	2	4-1/2	4	720-3136	721-3136	722-3136
1-1/2	1	2	4-1/2	6	720-3137	721-3137	722-3137
1-1/2	1-1/4	2	4-1/2	4	720-3141	721-3141	722-3141
1-1/2	1-1/4	2	4-1/2	6	720-3139	721-3139	722-3139
1-5/8	3/4	1-5/8	3-7/8	6	720-3142	721-3142	722-3142
1-5/8	3/4	1-5/8	4-1/8	6	720-3437	721-3437	722-3437
1-5/8	3/4	1-5/8	4-1/8	6	720-3140	721-3140	722-3140
1-5/8	3/4	2	4-1/2	6	720-3143	721-3143	722-3143
1-5/8	1-1/4	2	4-1/2	4	720-3144	721-3144	722-3144
1-5/8	1-1/4	2	4-1/2	6	720-3145	721-3145	722-3145
1-3/4	3/4	1-1/2	3-7/8	6	720-3172	721-3183	722-3172
1-3/4	3/4	2	4-1/4	4	720-3148	721-3148	722-3438
1-3/4	3/4	2	4-1/2	4	720-3146	721-3146	722-3148
1-3/4	3/4	2	4-1/2	6	720-3147	721-3147	722-3147
1-3/4	1-1/4	2	4-1/2	4	720-3151	721-3151	722-3151
1-3/4	1-1/4	2	4-1/2	6	720-3149	721-3149	722-3149
1-13/16	3/4	2	4-1/4	4	720-3152	721-3152	722-3152
1-7/8	3/4	2	4-3/8	4	720-3150	721-3150	722-3150
1-7/8	3/4	2	4-1/2	6	720-3153	721-3153	722-3153
1-7/8	1-1/4	2	4-1/2	6	722-3154	720-3154	721-3154
1-7/8	1-1/4	2	4-1/2	8	722-3155	720-3155	721-3155
2	3/4	1-1/2	3-7/8	6	720-3185	721-3185	722-3185
2	3/4	2	4-1/4	4	720-3156	721-3156	722-3156
2	3/4	2	4-1/2	6	720-3157	721-3157	722-3157
2	3/4	2	4-1/2	8	720-3158	721-3158	722-3158
2	1-1/4	2	4-1/2	4	720-3161	721-3161	722-3161
2	1-1/4	2	4-1/2	6	720-3163	721-3163	722-3163
2	1-1/4	2	4-1/2	8	720-3159	721-3159	722-3159
2	1-1/4	2	5-1/2	6	720-3165	721-3165	722-3165
2	2	2	5-3/4	6	720-3166	721-3166	722-3166
2-1/4	1-1/4	2	4-1/2	6	720-3167	721-3167	722-3167
2-1/4	1-1/4	3	5-1/2	8	720-3169	721-3169	722-3169
2-1/2	2	4	7-5/8	6	720-3168	721-3168	722-3168

Multiple Flute Single End Mills

- Designed for general purpose work including cam milling, die sinking and slot milling.
- Suitable for use in a wide range of ferrous and non-ferrous materials.
- Excellent for use in finishing operations.
- Multi-flute design allows for higher feed rates.



Long Flute

Size	Shank Dia.	Flute Length	Overall Length	No. of Flutes	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
1/4"	3/8"	1-1/4"	3-1/16"	4	720-3501	721-3501	722-3501
5/16	3/8	1-3/8	3-1/8	4	720-3503	721-3503	722-3503
3/8	3/8	1-1/2	3-1/4	4	720-3505	721-3505	722-3505
7/16	1/2	1-3/4	3-3/4	4	720-3507	721-3507	722-3507
1/2	1/2	2	4	4	720-3509	721-3509	722-3509
5/8	5/8	2-1/2	4-5/8	4	720-3511	721-3511	722-3511
5/8	1/2	2-1/2	4-5/8	4	720-3512	721-3512	722-3512
3/4	3/4	3	5-1/4	4	720-3513	721-3513	722-3513
3/4	1/2	3	5-1/4	4	720-3514	721-3514	722-3514
7/8	7/8	3-1/2	5-3/4	4	720-3515	721-3515	722-3515
7/8	3/4	3-1/2	5-3/4	4	720-3516	721-3516	722-3516
1	1	4	6-1/2	4	720-3517	721-3517	722-3517
1-1/8	1	4	6-1/2	6	720-3519	721-3519	722-3519
1-1/4	3/4	4	6-1/2	6	720-3520	721-3520	722-3520
1-1/4	1	4	6-1/2	6	720-3521	721-3521	722-3521
1-1/4	1-1/4	4	6-1/2	4	720-3523	721-3523	722-3523
1-1/4	1-1/4	4	6-1/2	6	720-3525	721-3525	722-3525
1-3/8	1	4	6-1/2	6	720-3527	721-3527	722-3527
1-1/2	1	4	6-1/2	6	720-3529	721-3529	722-3529
1-1/2	1-1/4	4	6-1/2	4	720-3531	721-3531	722-3531
1-1/2	1-1/4	4	6-1/2	6	720-3533	721-3533	722-3533
1-3/4	1-1/4	4	6-1/2	4	720-3534	721-3534	722-3534
1-3/4	1-1/4	4	6-1/2	6	720-3535	721-3535	722-3535
2	1-1/4	4	6-1/2	4	720-3537	721-3537	722-3537
2	1-1/4	4	6-1/2	6	720-3539	721-3539	722-3539
2	1-1/4	4	6-1/2	8	720-3541	721-3541	722-3541
2-1/2	2	4	7-5/8	6	720-3542	721-3542	722-3542

Extra Long Flute



Size	Shank Dia.	Flute Length	Overall Length	No. of Flutes	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
1/4"	3/8"	1-3/4"	3-9/16"	4	720-3601	721-3601	722-3601
5/16	3/8	2	3-3/4	4	720-3603	721-3603	722-3603
3/8	3/8	2-1/2	4-1/4	4	720-3605	721-3605	722-3605
1/2	1/2	3	5	4	720-3607	721-3607	722-3607
5/8	5/8	4	6-1/8	4	720-3609	721-3609	722-3609
5/8	1/2	4	6-1/8	4	720-3610	721-3610	722-3610
3/4	3/4	4	6-1/4	4	720-3611	721-3611	722-3611
3/4	1/2	4	6-1/4	4	720-3612	721-3612	722-3612
7/8	7/8	7-1/4	7-1/4	4	720-3613	721-3613	722-3613
1	1	8-1/2	8-1/2	4	720-3615	721-3615	722-3615
1-1/4	1-1/4	8-1/2	8-1/2	6	720-3617	721-3617	722-3617
1-1/4	1-1/4	8-1/2	8-1/2	4	720-3618	721-3618	722-3618
1-1/2	1-1/4	8-1/2	8-1/2	6	720-3619	721-3619	722-3619
1-1/2	1-1/4	8-1/2	8-1/2	4	720-3620	721-3620	722-3620
1-1/2	1-1/4	10-9/16	10-9/16	6	720-3621	721-3621	722-3621

Multiple Flute Single End Mills

Four/Multiple-Flute End Mills-Produce finer finishes and last longer than two or three-flute tools. Compared to two-flute tools, *four-flute end mills* remove metal faster and can be fed two to three times faster; *six-flute end mills* can be fed three times faster.

Center Cutting, High Speed Steel

- Recommended for finishing operations in a wide range of ferrous and non-ferrous materials.
- Center cutting design allows for plunge milling into solid material at the beginning of a slotting operation.
- TiN coating increases surface hardness and resists abrasive wear.



Regular Length

Size	Shank Dia.	Flute Length	Overall Length	No. of Flutes	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
1/8"	3/8"	3/8"	2-5/16"	4	720-3201	721-3201	722-3201
3/16	3/8	1/2	2-3/8	4	720-3203	721-3203	722-3203
1/4	3/8	5/8	2-7/16	4	720-3204	721-3204	722-3204
1/4	3/8	5/8	2-1/2	4	720-3205	721-3205	722-3205
5/16	3/8	3/4	2-1/2	4	720-3207	721-3207	722-3207
3/8	3/8	3/4	2-1/2	4	720-3209	721-3209	722-3209
7/16	3/8	13/16	2-1/2	4	720-3208	721-3208	722-3208
1/2	3/8	13/16	2-1/2	4	720-3210	721-3210	722-3210
1/2	1/2	1-1/4	3-1/4	4	720-3211	721-3211	722-3211
5/8	5/8	1-5/8	3-3/4	4	720-3213	721-3213	722-3213
9/16	1/2	1-3/8	3-3/8	4	720-3214	721-3214	722-3214
11/16	5/8	1-5/8	3-3/4	4	720-3215	721-3215	722-3215
3/4	5/8	1-5/8	3-3/4	4	720-3216	721-3216	722-3216
3/4	3/4	1-5/8	3-7/8	4	720-3217	721-3217	722-3217
7/8	3/4	1-7/8	4-1/8	4	720-3218	721-3218	722-3218
7/8	7/8	1-7/8	4-1/8	4	720-3219	721-3219	722-3219
1	3/4	1-7/8	4-1/8	4	720-3220	721-3220	722-3220
1	1	2	4-1/2	4	720-3221	721-3221	722-3221
1-1/8	1	2	4-1/2	4	720-3223	721-3223	722-3223
1-1/8	1	2	4-1/2	6	720-3225	721-3225	722-3225
1-1/4	1-1/4	2	4-1/2	4	720-3227	721-3227	722-3227
1-1/4	1-1/4	3	5-1/2	4	720-3226	721-3226	722-3226
1-1/4	1-1/4	2	4-1/2	6	720-3228	721-3228	722-3228
1-1/2	1-1/4	2	4-1/2	4	720-3229	721-3229	722-3229
1-1/2	1-1/4	2	4-1/2	6	720-3230	721-3230	722-3230
7/8	7/8	5	7-1/4	4	720-3265		



Extra Long Length

Size	Shank Dia.	Flute Length	Overall Length	No. of Flutes	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
1/4"	3/8"	1-3/4"	3-1/2"	4	720-3401	721-3401	722-3401
1/4	3/8	1-3/4	3-9/16	4	720-3402	721-3402	722-3402
5/16	3/8	2	3-3/4	4	720-3403	721-3403	722-3403
3/8	3/8	2-1/2	4-1/4	4	720-3405	721-3405	722-3405
1/2	1/2	3	5"	4	720-3407	721-3407	722-3407
5/8	1/2	4	6-1/8	4	720-3410	721-3410	722-3410
5/8	5/8	4	6-1/8	4	720-3409	721-3409	722-3409
3/4	3/4	4	6-1/4	4	720-3411	721-3411	722-3411
3/4	1/2	4	6-1/4	4	720-3412	721-3412	722-3412
7/8	7/8	5	7-1/4	4	720-3413	721-3413	722-3413
1	1	6	8-1/2	4	720-3415	721-3415	722-3415
1-1/4	1-1/4	6	8-1/2	4	720-3417	721-3417	722-3417
1-1/4	1-1/4	6	8-1/2	6	720-3418	721-3418	722-3418
1-1/2	1-1/4	6	8-1/2	4	720-3419	721-3419	722-3419
1-1/2	1-1/4	6	8-1/2	6	720-3416	721-3416	722-3416
1-1/2	1-1/4	8	10-9/16	6	720-3400	721-3400	722-3400

Multiple Flute End Mills

NKS

Multiple Flute Single End Mills continued

Center Cutting, HSS

Long Length



	Shank	Flute	Overall	No. of	M2	M2Al	TiN-Coated
Size	Dia.	Length	Length	Flutes	Order No.	Order No.	Order No.
1/4"	3/8"	1-1/4"	3-1/16"	4	720-3301	721-3301	722-3301
5/16	3/8	1-3/8	3-1/8	4	720-3303	721-3303	722-3303
3/8	3/8	1-1/2	3-1/4	4	720-3305	721-3305	722-3305
7/16	1/2	1-3/4	3-3/4	4	720-3306	721-3306	722-3306
1/2	1/2	2	4	4	720-3307	721-3307	722-3307
5/8	1/2	2-1/2	4-5/8	4	720-3308	721-3308	722-3308
5/8	5/8	2-1/2	4-5/8	4	720-3309	721-3309	722-3309
5/8	5/8	3	5-1/8	4	720-3311	721-3311	722-3311
3/4	3/4	2	4-1/4	4	720-3315	721-3315	722-3315
3/4	3/4	3	5-1/4	4	720-3313	721-3313	722-3313
3/4	1/2	3	5-1/4	4	720-3318	721-3318	722-3318
3/4	3/4	2	4-1/4	6	720-3317	721-3317	722-3317
7/8	7/8	3-1/2	5-3/4	4	720-3319	721-3319	722-3319
1	1	3	5-1/2	4	720-3321	721-3321	722-3321
1	3/4	4	6-1/2	4	720-3322	721-3322	722-3322
1	1	4	6-1/2	4	720-3325	721-3325	722-3325
1	1	3	5-1/2	6	720-3323	721-3323	722-3323
1-1/8	1	4	6-1/2	6	720-3324	721-3324	722-3324
1-1/8	3/4	4	6-1/2	6	720-3326	721-3326	722-3326
1-1/4	1-1/4	3	5-1/2	4	720-3327	721-3327	722-3327
1-1/4	1-1/4	4	6-1/2	4	720-3331	721-3331	722-3331
1-1/4	1-1/4	3	5-1/2	6	720-3329	721-3329	722-3329
1-1/4	1	4	6-1/2	6	720-3328	721-3328	722-3328
1-1/4	3/4	4	6-1/2	6	720-3330	721-3330	722-3330
1-1/4	1-1/4	4	6-1/2	6	720-3332	721-3332	722-3332
1-3/8	1	4	6-1/2	6	720-3334	721-3334	722-3334
1-1/2	1-1/4	3	5-1/2	4	720-3333	721-3333	722-3333
1-1/2	1-1/4	4	6-1/2	4	720-3338	721-3338	722-3338
1-1/2	1-1/4	3	5-1/2	6	720-3335	721-3335	722-3335
1-1/2	1-1/4	4	6-1/2	6	720-3336	721-3336	722-3336
1-1/2	1	4	6-1/2	6	720-3339	721-3339	722-3339
1-3/4	1-1/4	3	5-1/2	4	720-3337	721-3337	722-3337
1-3/4	1-1/4	4	6-1/2	6	720-3340	721-3340	722-3340
2	1-1/4	4	6-1/2	4	720-3342	721-3342	722-3342
2	1-1/4	4	6-1/2	6	720-3344	721-3344	722-3344
2	1-1/4	4	6-1/2	8	720-3346	721-3346	722-3346
2-1/2	2	4	7-5/8	6	720-3348	721-3348	722-3348

Multiple Flute Heavy Duty End Mills

- Designed for rough cutting applications in a wide range of materials.
- Positive lock shank provides the grip needed to withstand the high torque generated.

Large Diameter, Positive Lock



Shank Size	Flute Dia.	OAL	M2 Order No.	Shank Size	Flute Dia.	OAL	M2 Order No.
2"	2"	2"	720-3910	2-1/2"	2-1/2"	4	720-3927
2	2	3	720-3912	2-1/2	2-1/2	4	720-3928
2	2	4	720-3914	2-1/2	2-1/2	6	720-3929
2	2	4	720-3916	2-1/2	2-1/2	6	720-3930
2	2	6	720-3918	2-1/2	2-1/2	8	720-3931
2	2	6	720-3920	2-1/2	2-1/2	8	720-3932
2	2	8	720-3921	2-1/2	2-1/2	10	720-3933
2	2	8	720-3922	2-1/2	2-1/2	10	720-3934
2	2	10	720-3923	3	2-1/2	4	720-3935
2	2	10	720-3924	3	2-1/2	4	720-3936
2	2	12	720-3925	3	2-1/2	6	720-3937
2	2	12	720-3926	3	2-1/2	6	720-3938
3	2-1/2	10	720-3941	3	2-1/2	8	720-3939
3	2-1/2	10	720-3942	3	2-1/2	8	720-3940

M42 8% Cobalt Multiple Flute Single End Mills

- Designed for general purpose work including cam milling, die sinking and slot milling.
- Suitable for use in a wide range of ferrous and non-ferrous materials.
- Excellent for use in finishing operations.
- Multi-flute design allows for higher feed rates.

Four/Multiple-Flute End Mills—Produce finer finishes and last longer than two or three-flute tools. Compared to two-flute tools, *four-flute end mills* remove metal faster and can be fed two to three times faster; *six-flute end mills* can be fed three times faster.



Regular Length

Shank Flute				No.of		Shank Flute				No.of		
Size	Dia.	Length	OAL	Flute	Order No.	Size	Dia.	Length	OAL	Flute	Order No.	
7/64"	3/8"	3/8"	2-5/16"	4	723-3001	1"	1/2"	1-7/8"	3-7/8"	4"	723-3098	
1/8	3/8	3/8	2-5/16	4	723-3003	1	1/2	1-7/8	4	4	723-3099	
9/64	3/8	3/8	2-5/16	4	723-3005	1	1/2	1-7/8	4	6	723-3100	
5/32	3/8	3/8	2-5/16	4	723-3420	1	5/8	1-7/8	4	6	723-3101	
5/32	3/8	7/16	2-3/8	4	723-3007	1	5/8	1-7/8	4	4	723-3102	
11/64	3/8	7/16	2-3/8	4	723-3009	1	3/4	1-7/8	4	6	723-3106	
11/64	3/8	1/2	2-5/16	4	723-3422	1	3/4	1-7/8	4-1/8	4	723-3103	
3/16	3/8	1/2	2-3/8	4	723-3011	1	7/8	1-7/8	4-1/8	4	723-3105	
13/64	3/8	1/2	2-3/8	4	723-3013	1	3/4	2	4-1/2	4	723-3104	
7/32	3/8	9/16	2-1/2	4	723-3015	1	1	2	4-1/2	4	723-3107	
7/32	3/8	5/8	2-7/16	4	723-3424	1	1	2	4-1/2	6	723-3108	
15/64	3/8	9/16	2-1/2	4	723-3017	1	1-1/16	3/4	2	4-1/4	6	723-3109
1/4	3/8	5/8	2-7/16	4	723-3426	1	1-1/8	3/4	1-1/2	3-7/8	6	723-3171
1/4	3/8	5/8	2-1/2	4	723-3019	1	1-1/8	3/4	2	4-1/8	6	723-3110
17/64	3/8	5/8	2-1/2	4	723-3021	1	1-1/8	3/4	2	4-1/4	4	723-3112
9/32	3/8	11/16	2-1/2	4	723-3023	1	1-1/8	3/4	2	4-1/4	6	723-3111
19/64	3/8	11/16	2-1/2	4	723-3025	1	1-1/8	7/8	2	4-1/4	6	723-3113
5/16	3/8	3/4	2-1/2	4	723-3027	1	1-1/8	1	2	4-1/4	4	723-3114
21/64	3/8	3/4	2-1/2	4	723-3029	1	1-1/8	1	2	4-1/2	6	723-3115
11/32	3/8	3/4	2-1/2	4	723-3031	1	1-1/8	3/4	2	4-1/2	6	723-3173
23/64	3/8	3/4	2-1/2	4	723-3033	1	1-1/8	1	2-5/8	4-1/2	4	723-3116
3/8	3/8	3/4	2-1/2	4	723-3035	1	1-3/16	3/4	2	4-1/4	6	723-3117
13/32	3/8	1	2-11/16	4	723-3037	1	1-3/16	1	2	4-1/4	6	723-3118
7/16	3/8	1	2-11/16	4	723-3039	1	1-1/4	3/4	2	4-1/4	6	723-3119
15/32	3/8	1	2-11/16	4	723-3042	1	1-1/4	7/8	2	4-1/4	4	723-3120
15/32	1/2	1-1/4	3-1/4	4	723-3041	1	1-1/4	7/8	2	4-1/4	6	723-3121
1/2	3/8	1	2-11/16	4	723-3043	1	1-1/4	1	2	4-1/2	6	723-3123
1/2	1/2	1-1/4	3-1/4	4	723-3045	1	1-1/4	1-1/4	2	4-1/2	4	723-3124
1/2	1/2	1-1/4	3-1/4	6	723-3046	1	1-1/4	1-1/4	2	4-1/2	6	723-3125
17/32	1/2	1-3/8	3-3/8	4	723-3047	1	1-1/4	1-1/4	2	4-1/2	4	723-3126
9/16	1/2	1-3/8	3-3/8	4	723-3049	1	1-1/4	1	4	6-1/2	6	723-3122
19/32	1/2	1-3/8	3-3/8	4	723-3051	1	1-5/16	3/4	2	4-1/2	6	723-3127
5/8	1/2	1-3/8	3-3/8	4	723-3053	1	1-3/8	3/4	2	4-1/4	6	723-3128
5/8	5/8	1-5/8	3-1/4	6	723-3056	1	1-3/8	3/4	2	4-1/2	6	723-3129
5/8	5/8	1-5/8	3-3/4	4	723-3055	1	1-3/8	1	2	4-1/2	6	723-3131
21/32	1/2	1-5/8	3-5/8	4	723-3057	1	1-3/8	1-1/4	2	4-1/2	6	723-3130
11/16	1/2	1-5/8	3-5/8	4	723-3059	1	1-7/16	3/4	2	4-1/2	6	723-3133
11/16	5/8	1-5/8	3-3/4	4	723-3061	1	1-1/2	3/4	2	4-1/2	6	723-3135
23/32	1/2	1-5/8	3-5/8	4	723-3063	1	1-1/2	1	2	4-1/2	4	723-3136
3/4	1/2	1-5/8	3-5/8	4	723-3065	1	1-1/2	1	2	4-1/2	6	723-3137
3/4	5/8	1-5/8	3-5/8	4	723-3066	1	1-1/2	1-1/4	2	4-1/2	4	723-3141
3/4	5/8	1-5/8	3-3/4	4	723-3067	1	1-1/2	1-1/4	2	4-1/2	6	723-3139
3/4	3/4	1-5/8	3-3/4	4	723-3069	1	1-5/8	3/4	1-5/8	3-7/8	6	723-3142
3/4	3/4	1-5/8	3-3/4	6	723-3070	1	1-5/8	3/4	2	4-1/2	6	723-3143
25/32	1/2	1-5/8	3-5/8	4	723-3071	1	1-5/8	1-1/4	2	4-1/2	4	723-3144
13/16	5/8	1-7/8	4	4	723-3074	1	1-5/8	1-1/4	2	4-1/2	6	723-3145
13/16	5/8	1-7/8	4	6	723-3073	1	1-3/4	3/4	1-1/2	3-7/8	6	723-3172
13/16	3/4	1-7/8	4-1/8	4	723-3075	1	1-3/4	3/4	2	4-1/2	4	723-3146
27/32	1/2	1-5/8	3-5/8	4	723-3077	1	1-3/4	3/4	2	4-1/2	6	723-3147
7/8	1/2	1-5/8	3-5/8	4	723-3079	1	1-3/4	1-1/4	2	4-1/2	4	723-3151
7/8	1/2	1-5/8	3-5/8	6	723-3081	1	1-3/4	1-1/4	2	4-1/2	6	723-3149
7/8	1/2	1-7/8	4	4	723-3080	1	1-13/16	3/4	2	4-1/4	4	723-3152
7/8	1/2	1-7/8	4	6	723-3082	1	1-7/8	3/4	2	4-1/2	6	723-3153
7/8	5/8	1-7/8	4	6	723-3083	1	1-7/8	1-1/4	2	4-1/2	6	723-3154
7/8	3/4	1-7/8	4-1/8	4	723-3085	1	1-7/8	1-1/4	2	4-1/2	8	723-3155
7/8	3/4	1-7/8	4-1/8	6	723-3086	2	3/4	2	4	4-1/2	6	723-3157
7/8	7/8	1-7/8	4-1/8	4	723-3087	2	3/4	2	4	4-1/2	8	723-3158
29/32	1/2	1-7/8	3-7/8	4	723-3089	2	2	1-1/4	2	4-1/2	4	723-3161
15/16	1/2	1-7/8	4	4	723-3090	2	2	1-1/4	2	4-1/2	6	723-3163
15/16	5/8	1-7/8	4	6	723-3091	2	2	1-1/4	2	4-1/2	8	723-3159
15/16	5/8	1-7/8	4-1/8	6	723-3092	2	2	1-1/4	2	5-1/2	6	723-3165
15/16	3/4	1-7/8	4-1/8	4	723-3093	2	2	2	2	5-3/4	6	723-3166
15/16	3/4	1-7/8	4-1/8	6	723-3170	2	2-1/4	1-1/4	2	4-1/2	6	723-3167
15/16	7/8	1-7/8	4-1/8	4	723-3095	2	2-1/4	1-1/4	3	5-1/2	8	723-3169
15/16	7/8	1-7/8	4-1/8	6	723-3096	2	2-1/2	2	4	7-5/8	6	723-3168
31/32	1/2	1-7/8	3-7/8	4	723-3097							

M42 Co. Multiple Flute Single End Mills

M-42 cobalt end mills are more economical than high speed steel end mills. They stay sharper longer to allow more cuts between grinds and reduce downtime to give you lower cost per machined workpiece!


Long Flute

Size	Shank Dia.	Flute Length	Overall Length	No. of Flutes	Order No.
1/4"	3/8"	1-1/4"	3-1/16"	4	723-3501
5/16	3/8	1-3/8	3-1/8	4	723-3503
3/8	3/8	1-1/2	3-1/4	4	723-3505
7/16	1/2	1-3/4	3-3/4	4	723-3507
1/2	1/2	2	4	4	723-3509
5/8	5/8	2-1/2	4-5/8	4	723-3511
5/8	1/2	2-1/2	4-5/8	4	723-3512
3/4	3/4	3	5-1/4	4	723-3513
3/4	1/2	3	5-1/4	4	723-3514
7/8	7/8	3-1/2	5-3/4	4	723-3515
7/8	3/4	3-1/2	5-3/4	4	723-3516
1	1	4	6-1/2	4	723-3517
1-1/8	1	4	6-1/2	6	723-3519
1-1/4	3/4	4	6-1/2	6	723-3520
1-1/4	1	4	6-1/2	6	723-3521
1-1/4	1-1/4	4	6-1/2	4	723-3523
1-1/4	1-1/4	4	6-1/2	6	723-3525
1-3/8	1	4	6-1/2	6	723-3527
1-1/2	1	4	6-1/2	6	723-3529
1-1/2	1-1/4	4	6-1/2	4	723-3531
1-1/2	1-1/4	4	6-1/2	6	723-3533
1-3/4	1-1/4	4	6-1/2	4	723-3534
1-3/4	1-1/4	4	6-1/2	6	723-3535
2	1-1/4	4	6-1/2	4	723-3537
2	1-1/4	4	6-1/2	6	723-3539
2	1-1/4	4	6-1/2	8	723-3541
2-1/2	2	4	7-5/8	6	723-3542

Extra Long Flute


Size	Shank Dia.	Flute Length	Overall Length	No. of Flutes	Order No.
1/4"	3/8"	1-3/4"	3-9/16"	4	723-3601
5/16	3/8	2	3-3/4	4	723-3603
3/8	3/8	2-1/2	4-1/4	4	723-3605
1/2	1/2	3	5	4	723-3607
5/8	5/8	4	6-1/8	4	723-3609
5/8	1/2	4	6-1/8	4	723-3610
3/4	3/4	4	6-1/4	4	723-3611
3/4	1/2	4	6-1/4	4	723-3612
7/8"	7/8"	5"	7-1/4"	4	723-3613
1	1	6	8-1/2	4	723-3615
1-1/4	1-1/4	6	8-1/2	6	723-3617
1-1/4	1-1/4	6	8-1/2	4	723-3618
1-1/2	1-1/4	6	8-1/2	6	723-3619
1-1/2	1-1/4	6	8-1/2	4	723-3620
1-1/2	1-1/4	8	10-9/16	6	723-3621

M42 8% Co. Multiple Flute Single End Mills
Center Cutting

- Suitable for use in a wide range of ferrous and non-ferrous materials.
- Excellent for use in finishing operations.
- Multi-flute design allows for higher feed rates.
- Center cutting is perfect for jobs that require drilling or plunge cutting to start a slot and for spot facing and counterboring.


Extra Long Length

Size	Shank Dia.	Flute Length	Overall Length	No. of Flutes	Order No.
1/4"	3/8"	1-3/4"	3-1/2"	4	723-3401
1/4	3/8	1-3/4	3-9/16	4	723-3402
5/16	3/8	2	3-3/4	4	723-3403
3/8	3/8	2-1/2	4-1/4	4	723-3405
1/2	1/2	3	5"	4	723-3407
5/8	1/2	4	6-1/8	4	723-3410
5/8	5/8	4	6-1/8	4	723-3409
3/4	3/4	4	6-1/4	4	723-3411
3/4	1/2	4	6-1/4	4	723-3412
7/8	7/8	5	7-1/4	4	723-3413
1	1	6	8-1/2	4	723-3414
1-1/4	1-1/4	6	8-1/2	4	723-3425
1-1/4	1-1/4	6	8-1/2	6	723-3417
1-1/2	1-1/4	6	8-1/2	4	723-3419
1-1/2	1-1/4	6	8-1/2	6	723-3416
1-1/2	1-1/4	8	10-9/16	6	723-3420

Long Length


Size	Shank Dia.	Flute Length	Overall Length	No. of Flutes	Order No.
1/4"	3/8"	1-1/4"	3-1/16"	4	723-3301
5/16	3/8	1-3/8	3-1/8	4	723-3303
3/8	3/8	1-1/2	3-1/4	4	723-3305
7/16	1/2	1-3/4	3-3/4	4	723-3306
1/2	1/2	2	4	4	723-3307
5/8	1/2	2-1/2	4-5/8	4	723-3308
5/8	5/8	2-1/2	4-5/8	4	723-3309
5/8	5/8	3	5-1/8	4	723-3311
3/4	3/4	2	4-1/4	4	723-3315
3/4	3/4	3	5-1/4	4	723-3313
3/4	1/2	3	5-1/4	4	723-3318
3/4	3/4	2	4-1/4	6	723-3317
7/8	7/8	3-1/2	5-3/4	4	723-3319
1	1	3	5-1/2	4	723-3321
1	3/4	4	6-1/2	4	723-3322
1	1	4	6-1/2	4	723-3325
1	1	3	5-1/2	6	723-3323
1-1/8	1	4	6-1/2	6	723-3324
1-1/8	3/4	4	6-1/2	6	723-3326
1-1/4	1-1/4	3	5-1/2	4	723-3327
1-1/4	1-1/4	4	6-1/2	4	723-3331
1-1/4	1-1/4	3	5-1/2	6	723-3329
1-1/4	1	4	6-1/2	6	723-3328
1-1/4	3/4	4	6-1/2	6	723-3330
1-1/4	1-1/4	4	6-1/2	6	723-3332
1-3/8	1	4	6-1/2	6	723-3334
1-1/2	1-1/4	3	5-1/2	4	723-3333
1-1/2	1-1/4	4	6-1/2	4	723-3338
1-1/2	1-1/4	3	5-1/2	6	723-3335
1-1/2	1-1/4	4	6-1/2	6	723-3336
1-1/2	1	4	6-1/2	6	723-3339
1-3/4	1-1/4	3	5-1/2	4	723-3337
1-3/4	1-1/4	4	6-1/2	6	723-3340
2	1-1/4	4	6-1/2	4	723-3342
2	1-1/4	4	6-1/2	6	723-3344
2	1-1/4	4	6-1/2	8	723-3346
2-1/2	2	4	7-5/8	6	723-3348

M42 8% Co. Multiple Flute Single End Mills

Center Cutting

- Suitable for use in a wide range of ferrous and non-ferrous materials.
- Excellent for use in finishing operations.
- Multi-flute design allows for higher feed rates.
- Center cutting is perfect for jobs that require drilling or plunge cutting to start a slot and for spot facing and counterboring.



Regular Length

Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	Order No.
1/8"	3/8"	3/8"	2-5/16"	4	723-3201
3/16	3/8	1/2	2-3/8	4	723-3203
1/4	3/8	5/8	2-7/16	4	723-3204
1/4	3/8	5/8	2-1/2	4	723-3205
5/16	3/8	3/4	2-1/2	4	723-3207
3/8	3/8	3/4	2-1/2	4	723-3209
7/16	3/8	13/16	2-1/2	4	723-3208
7/16	3/8	1	2-11/16	4	723-3901
1/2	3/8	13/16	2-1/2	4	723-3210
1/2	3/8	1	2-11/16	4	723-3903
1/2	1/2	1-1/4	3-1/4	4	723-3211
9/16	1/2	1-1/8	3-3/8	4	723-3214
5/8	1/2	1-3/8	3-3/8	4	723-3905
5/8	5/8	1-5/8	3-3/4	4	723-3213
11/16	5/8	1-5/8	3-3/4	4	723-3215
3/4	1/2	1-5/8	3-5/8	4	723-3907
3/4	5/8	1-5/8	3-3/4	4	723-3216
3/4	3/4	1-5/8	3-7/8	4	723-3217
13/16	3/4	1-7/8	4-1/8	4	723-3909
7/8	5/8	1-1/2	3-5/8	4	723-3911
7/8	1/2	1-5/8	3-5/8	4	723-3913
7/8	1/2	1-7/8	4	4	723-3914
7/8	5/8	1-7/8	4	4	723-3912
7/8	3/4	1-7/8	4-1/8	4	723-3218
7/8	7/8	1-7/8	4-1/8	4	723-3219
15/16	3/4	1-7/8	4-1/8	4	723-3916
15/16	7/8	1-7/8	4-1/8	4	723-3915
1	1/2	1-7/8	3-7/8	4	723-3917
1	5/8	1-7/8	4	4	723-3920
1	5/8	1-7/8	4	6	723-3919
1	1/2	1-7/8	4-1/8	4	723-3918
1	3/4	1-7/8	4-1/8	4	723-3220
1	1	2	4-1/2	4	723-3221
1	1	3	5-1/2	4	723-3222
1-1/16	3/4	1-5/8	3-7/8	4	723-3921
1-1/16	3/4	1-5/8	3-7/8	6	723-3922
1-1/8	3/4	1-1/2	3-7/8	6	723-3924
1-1/8	7/8	2	4-1/4	6	723-3923
1-1/8	1	2	4-1/2	4	723-3223
1-1/8	1	2	4-1/2	6	723-3225
1-3/16	3/4	1-1/2	3-7/8	6	723-3926
1-3/16	3/4	1-5/8	3-7/8	4	723-3925
1-1/4	3/4	1-1/2	3-7/8	6	723-3928
1-1/4	1-1/4	2	4-1/2	4	723-3227
1-1/4	1	2	4-1/2	6	723-3927
1-1/4	1-1/4	2	4-1/2	6	723-3228
1-1/4	1-1/4	3	5-1/2	4	723-3226
1-5/16	3/4	1-5/8	3-7/8	4	723-3929
1-5/16	3/4	2	4-3/8	6	723-3930
1-3/8	3/4	2	4-3/8	6	723-3932
1-3/8	1	2	4-1/2	6	723-3931
1-3/8	1-1/4	2	4-1/2	4	723-3933
1-7/16	3/4	1-5/8	3-7/8	4	723-3935
1-7/16	3/4	2	4-3/8	6	723-3936
1-1/2	3/4	2	4-3/8	6	723-3938
1-1/2	1-1/4	2	4-1/2	4	723-3229
1-1/2	1	2	4-1/2	6	723-3937
1-1/2	1-1/4	2	4-1/2	6	723-3230
1-5/8	3/4	1-5/8	4-1/8	4	723-3939
1-5/8	3/4	2	4-1/2	6	723-3940
1-5/8	1-1/4	2	4-1/2	6	723-3941
1-3/4	1-1/4	2	4-1/2	4	723-3943
1-3/4	3/4	2	4-1/2	6	723-3944
1-3/4	1-1/4	2	4-1/2	6	723-3231
1-7/8	3/4	2	4-3/8	6	723-3951
1-7/8	1-1/4	2	4-3/8	6	723-3953
2	3/4	2	4-1/2	6	723-3955
2	1-1/4	2	4-1/2	4	723-3947
2	1-1/4	2	4-1/2	6	723-3239
2	1-1/4	2	4-1/2	8	723-3945

4 Flute Double End Mills

High Speed Steel

- Recommended for finishing operations in a wide range of ferrous and non-ferrous materials.
- Multiple flutes generate higher surface finish than 2 flute end mills.
- More economical in production milling than single end mills.



Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
7/64"	3/8"	3/8"	3-1/16"	720-4002	721-4002	722-4002
1/8	3/8	3/8	3-1/16	720-4004	721-4004	722-4004
9/64	3/8	7/16	3-1/8	720-4006	721-4006	722-4006
5/32	3/8	7/16	3-1/8	720-4008	721-4008	722-4008
11/64	3/8	7/16	3-1/8	720-4011	721-4011	722-4011
11/64	3/8	1/2	3-1/4	720-4010	721-4010	722-4010
3/16	3/8	1/2	3-1/4	720-4012	721-4012	722-4012
13/64	3/8	1/2	3-1/4	720-4013	721-4013	722-4013
13/64	3/8	9/16	3-1/4	720-4014	721-4014	722-4014
7/32	3/8	9/16	3-1/4	720-4016	721-4016	722-4016
15/64	3/8	9/16	3-1/4	720-4017	721-4017	722-4017
15/64	3/8	5/8	3-3/8	720-4018	721-4018	722-4018
1/4	3/8	5/8	3-3/8	720-4020	721-4020	722-4020
17/64	3/8	11/16	3-3/8	720-4022	721-4022	722-4022
9/32	3/8	11/16	3-3/8	720-4024	721-4024	722-4024
19/64	3/8	11/16	3-3/8	720-4025	721-4025	722-4025
19/64	3/8	3/4	3-1/2	720-4026	721-4026	722-4026
5/16	3/8	3/4	3-1/2	720-4028	721-4028	722-4028
21/64	3/8	3/4	3-1/2	720-4030	721-4030	722-4030
11/32	3/8	3/4	3-1/2	720-4032	721-4032	722-4032
23/64	3/8	3/4	3-1/2	720-4034	721-4034	722-4034
3/8	3/8	3/4	3-1/2	720-4036	721-4036	722-4036
25/64	1/2	1	4-1/8	720-4038	721-4038	722-4038
13/32	1/2	1	4-1/8	720-4040	721-4040	722-4040
13/32	1/2	1	4-3/16	720-4039	721-4039	722-4039
27/64	1/2	1	4-1/8	720-4042	721-4042	722-4042
7/16	1/2	1	4-1/8	720-4044	721-4044	722-4044
29/64	1/2	1	4-1/8	720-4046	721-4046	722-4046
15/32	1/2	1	4-1/8	720-4048	721-4048	722-4048
31/64	1/2	1	4-1/8	720-4050	721-4050	722-4050
1/2	1/2	1	4-1/8	720-4052	721-4052	722-4052
17/32	5/8	1-3/8	5	720-4054	721-4054	722-4054
9/16	5/8	1-3/8	5	720-4056	721-4056	722-4056
19/32	5/8	1-3/8	5	720-4058	721-4058	722-4058
5/8	5/8	1-3/8	5	720-4060	721-4060	722-4060
21/32	3/4	1-5/8	5-5/8	720-4062	721-4062	722-4062
11/16	3/4	1-5/8	5-5/8	720-4064	721-4064	722-4064
23/32	3/4	1-5/8	5-5/8	720-4066	721-4066	722-4066
3/4	3/4	1-5/8	5-5/8	720-4068	721-4068	722-4068
25/32	7/8	1-7/8	6-1/8	720-4070	721-4070	722-4070
13/16	7/8	1-7/8	6-1/8	720-4072	721-4072	722-4072
27/32	7/8	1-7/8	6-1/8	720-4074	721-4074	722-4074
7/8	7/8	1-7/8	6-1/8	720-4076	721-4076	722-4076
29/32	1	1-7/8	6-3/8	720-4078	721-4078	722-4078
15/16	1	1-7/8	6-3/8	720-4080	721-4080	722-4080
31/32	1	1-7/8	6-3/8	720-4082	721-4082	722-4082
1	1	1-7/8	6-3/8	720-4084	721-4084	722-4084

4 Flute Double End Mills

High Speed Steel, Center Cutting

- Center cutting design allows for plunge milling into solid material at the beginning of a slotting operation.



Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.	M2Al Order No.	TiN-Coated Order No.
1/8"	3/8"	3/8"	3-1/16"	720-4102	721-4102	722-4102
5/32	3/8	7/16	3-1/8	720-4103	721-4103	722-4103
3/16	3/8	1/2	3-1/4	720-4104	721-4104	722-4104
1/4	3/8	5/8	3-3/8	720-4106	721-4106	722-4106
5/16	3/8	3/4	3-1/2	720-4108	721-4108	722-4108
3/8	3/8	3/4	3-1/2	720-4110	721-4110	722-4110
1/2	1/2	1	4-1/8	720-4112	721-4112	722-4112
5/8	5/8	1-3/8	5	720-4114	721-4114	722-4114
3/4	3/4	1-5/8	5-5/8	720-4116	721-4116	722-4116
7/8	7/8	1-7/8	6-1/8	720-4118	721-4118	722-4118
1	1	1-7/8	6-3/8	720-4120	721-4120	722-4120

M42 8% Cobalt 4 Flute Double End Mills

Center Cutting



Size	Shank Dia.	Flute Length	Overall Length	Order No.
1/8"	3/8"	3/8"	3-1/16"	723-4102
5/32	3/8	7/16	3-1/8	723-4103
3/16	3/8	1/2	3-1/4	723-4104
7/32	3/8	9/16	3-1/4	723-4105
1/4	3/8	5/8	3-3/8	723-4106
9/32	3/8	11/16	3-3/8	723-4107
5/16	3/8	3/4	3-1/2	723-4108
11/32	3/8	3/4	3-1/2	723-4109
3/8	3/8	3/4	3-1/2	723-4110
7/16	1/2	1	4-1/8	723-4111
1/2	1/2	1	4-1/8	723-4112
9/16	5/8	1-3/8	5	723-4113
5/8	5/8	1-3/8	5	723-4114
13/32	1/2	1	4-1/8	723-4115
3/4	3/4	1-5/8	5-5/8	723-4116
15/32	1/2	1	4-1/8	723-4117
7/8	7/8	1-7/8	6-1/8	723-4118
1	1	1-7/8	6-3/8	723-4120
9/64	3/8	7/16	3-1/8	723-4122
5/32	3/8	7/16	3-1/8	723-4124
11/64	3/8	1/2	3-1/4	723-4126
13/64	3/8	9/16	3-1/4	723-4128

M42 8% Co. 60° Helical Profiling End Mills

Center Cutting



Size	Shank Dia.	Flute Length	Overall Length	Flute No.	Order No.
1/4"	3/8"	5/8"	2-7/16"	3	723-9500
5/16	3/8	3/4	2-1/2	3	723-9505
3/8	3/8	3/4	2-1/2	3	723-9510
7/16	3/8	1	2-11/16	3	723-9515
1/2	1/2	1-1/4	3-1/4	3	723-9520
5/8	5/8	1-5/8	3-3/4	3	723-9525
3/4	3/4	1-5/8	3-7/8	3	723-9530
7/8	7/8	1-7/8	4-1/8	4	723-9535
1	1	2	4-1/2	4	723-9540
1-1/4	1-1/4	2	4-1/2	4	723-9545
1-1/2	1-1/4	2	4-1/2	4	723-9550
2	1-1/4	2	4-1/2	4	723-9555

M42 8% Cobalt 4 Flute Double End Mills

- Recommended for finishing operations in a wide range of ferrous and non-ferrous materials.
- Multiple flutes generate higher surface finish than 2 flute end mills.
- More economical in production milling than single end mills.



Size	Shank Dia.	Flute Length	Overall Length	Order No.
7/64"	3/8"	3/8"	3-1/16"	723-4002
1/8	3/8	3/8	3-1/16	723-4004
9/64	3/8	7/16	3-1/8	723-4006
5/32	3/8	7/16	3-1/8	723-4008
11/64	3/8	7/16	3-1/8	723-4011
11/64	3/8	1/2	3-1/4	723-4010
3/16	3/8	1/2	3-1/4	723-4012
13/64	3/8	1/2	3-1/4	723-4013
13/64	3/8	9/16	3-1/4	723-4014
7/32	3/8	9/16	3-1/4	723-4016
15/64	3/8	9/16	3-1/4	723-4017
15/64	3/8	5/8	3-3/8	723-4018
1/4	3/8	5/8	3-3/8	723-4020
17/64	3/8	11/16	3-3/8	723-4022
9/32	3/8	11/16	3-3/8	723-4024
19/64	3/8	11/16	3-3/8	723-4025
19/64	3/8	3/4	3-1/2	723-4026
5/16	3/8	3/4	3-1/2	723-4028
21/64	3/8	3/4	3-1/2	723-4030
11/32	3/8	3/4	3-1/2	723-4032
23/64	3/8	3/4	3-1/2	723-4034
3/8	3/8	3/4	3-1/2	723-4036
25/64	1/2	1	4-1/8	723-4038
13/32	1/2	1	4-1/8	723-4040
13/32	1/2	1	4-3/16	723-4039
27/64	1/2	1	4-1/8	723-4042
7/16	1/2	1	4-1/8	723-4044
29/64	1/2	1	4-1/8	723-4046
15/32	1/2	1	4-1/8	723-4048
31/64	1/2	1	4-1/8	723-4050
1/2	1/2	1	4-1/8	723-4052
17/32	5/8	1-3/8	5	723-4054
9/16	5/8	1-3/8	5	723-4056
19/32	5/8	1-3/8	5	723-4058
5/8	5/8	1-3/8	5	723-4060
21/32	3/4	1-5/8	5-5/8	723-4062
11/16	3/4	1-5/8	5-5/8	723-4064
23/32	3/4	1-5/8	5-5/8	723-4066
3/4	3/4	1-5/8	5-5/8	723-4068
25/32	7/8	1-7/8	6-1/8	723-4070
13/16	7/8	1-7/8	6	723-4072
27/32	7/8	1-7/8	6-1/8	723-4074
7/8	7/8	1-7/8	6-1/8	723-4076
29/32	1	1-7/8	6-3/8	723-4078
15/16	1	1-7/8	6-3/8	723-4080
31/32	1	1-7/8	6-3/8	723-4082
1	1	1-7/8	6-3/8	723-4084

ASP-30(Powdered Cobalt) Single End Mills

Center Cutting



Size	Shank Dia.	Flute Length	Overall Length	Flute No.	Order No.
1/4"	3/8"	5/8"	2-7/16"	3	723-9408
5/16	3/8	3/4	2-1/2	3	723-9410
3/8	3/8	3/4	2-1/2	3	723-9412
1/2	1/2	1-1/4	3-1/4	3	723-9416
5/8	5/8	1-5/8	3-3/4	3	723-9420
3/4	3/4	1-5/8	3-7/8	3	723-9424
1	1	2	4-1/2	4	723-9432