

Roughing End Mills

NKS

Roughing End Mills

High Speed Steel



Regular Length

Size	Shank Dia.	Flute Length	Overall Length	No. Of Flutes	M2 Order No.	M2AI Order No.
1/4"	3/8"	3/4"	2-1/2"	4	720-5001	721-5001
1/4	3/8	5/8	2-7/16	4	720-5002	721-5002
1/4	3/8	1-1/4	3-1/16	4	720-5003	721-5003
5/16	3/8	3/4	2-1/2	4	720-5005	721-5005
5/16	3/8	1-3/8	3-1/8	4	720-5007	721-5007
3/8	3/8	3/4	2-1/2	4	720-5008	721-5008
3/8	3/8	7/8	2-5/8	4	720-5009	721-5009
3/8	3/8	1-1/2	3-1/4	4	720-5011	721-5011
7/16	3/8	1	2-11/16	4	720-5012	721-5012
1/2	1/2	1-1/4	3-1/4	4	720-5013	721-5013
5/8	5/8	1-5/8	3-3/4	4	720-5017	721-5017
11/16	5/8	1-5/8	3-3/4	4	720-5019	721-5019
3/4	5/8	1-5/8	3-3/4	4	720-5020	721-5020
3/4	5/8	1-5/8	3-7/8	4	720-5021	721-5021
3/4	3/4	1-5/8	3-3/4	4	720-5025	721-5025
7/8	3/4	1-5/8	4-1/8	4	720-5027	721-5027
7/8	7/8	1-7/8	4-1/8	4	720-5029	721-5029
15/16	3/4	1-7/8	4-1/8	4	720-5031	721-5031
1	3/4	2	4-1/2	6	720-5033	721-5033
1	1	2	4-1/2	6	720-5035	721-5035
1-1/8"	3/4"	2"	4-1/2"	6	720-5037	721-5037
1-1/8	1	2	4-1/2	6	720-5039	721-5039
1-1/4	3/4	2	4-1/2	6	720-5041	721-5041
1-1/4	1-1/4	2	4-1/2	6	720-5043	721-5043
1-1/2	3/4	2	4-1/2	6	720-5045	721-5045
1-1/2	1-1/4	2	4-1/2	6	720-5047	721-5047
1-3/4	3/4	2	4-1/2	6	720-5049	721-5049
1-3/4	1-1/4	2	4-1/2	6	720-5051	721-5051
2	3/4	2	4-1/2	8	720-5053	721-5053
2	1-1/4	2	4-1/2	6	720-5054	721-5054
2	1-1/4	2	4-1/2	8	720-5055	721-5055
2	1-1/4	2	6-1/2	8	720-5056	721-5056
2	2	2	5-3/4	8	720-5057	721-5057
2	2	3	6-3/4	6	720-5058	721-5058
2	2	4	7-3/4	8	720-5059	721-5059
2	2	4	7-3/4	6	720-5060	721-5060
2-1/2	2	4	7-3/4	8	720-5061	721-5061
2-1/2	2-1/2	4	7-3/4	8	720-5063	721-5063
2	2	3	6-3/4	8	720-5065	721-5065

Roughing End Mills

High Speed Steel



Medium Length

Size	Shank Dia.	Flute Length	Overall Length	No. of Flutes	M2 Order No.	M2AI Order No.
2"	2"	5"	8-3/4"	8	720-5101	721-5101
2	2	6	9-3/4	8	720-5103	721-5103
2-1/2	2	6	9-3/4	8	720-5105	721-5105
2-1/2	2-1/2	6	9-3/4	8	720-5107	721-5107

Roughing End Mills

High Speed Steel



Long Length

Size	Shank Dia.	Flute Length	Overall Length	No. of flutes	M2 Order No.	M2AI Order No.
1/2"	1/2"	2"	4"	4	720-5201	721-5201
5/8	5/8	2-1/2	4-5/8	4	720-5203	721-5203
3/4	5/8	3	5-1/4	4	720-5205	721-5205
3/4	5/8	3	5-1/8	4	720-5207	721-5207
3/4	3/4	3	5-1/4	4	720-5209	721-5209
7/8	3/4	3-1/2	5-5/8	4	720-5211	721-5211
7/8	7/8	3-1/2	5-3/4	4	720-5213	721-5213
1	1	4	6-1/2	6	720-5215	721-5215
1	1	6	8-1/2	6	720-5217	721-5217
1-1/4	1-1/4	3	5-1/2	6	720-5218	721-5218
1-1/4	3/4	4	6-1/4	6	720-5219	721-5219
1-1/4	1-1/4	4	6-1/2	6	720-5221	721-5221
1-1/4	1-1/4	6	8-1/2	6	720-5223	721-5223
1-1/2	1-1/4	3	5-1/2	6	720-5224	721-5224
1-1/2	3/4	4	6-1/4	6	720-5225	721-5225
1-1/2	1-1/4	4	6-1/2"	6	720-5227	721-5227
1-1/2	1-1/4	5	7-1/2	6	720-5228	721-5228
1-1/2	1-1/4	6	8-1/2	6	720-5229	721-5229
1-3/4	1-1/4	4	6-1/2	6	720-5231	721-5231
2	1-1/4	4	6-1/2	6	720-5232	721-5232
2	1-1/4	4	6-1/2	8	720-5233	721-5233
2	2	6	9-3/4	6	720-5234	721-5234
2	2	7	10-3/4	8	720-5235	721-5235
2	2	8	11-3/4	6	720-5236	721-5236
2	2	8	11-3/4	8	720-5237	721-5237
2	2	10	13-3/4	8	720-5239	721-5239
2	2	12	15-3/4	8	720-5241	721-5241
2-1/2	2	8	11-3/4	8	720-5243	721-5243
2-1/2	2-1/2	8	11-3/4	8	720-5245	721-5245
2-1/2	2-1/2	10	13-3/4	8	720-5247	721-5247
2-1/2	2-1/2	12	15-3/4	8	720-5249	721-5249

5 Flute Roughing End Mills

High Speed Steel



Size	Shank Dia.	Flute Length	Overall Length	M2 Order No.	M2AI Order No.
7/8"	3/4"	1-7/8"	4-1/8"	720-5701	721-5701
7/8	3/8	3-1/2	5-3/4	720-5703	721-5703
7/8	7/8	1-7/8	4-1/8	720-5705	721-5705
7/8	7/8	3-1/2	5-3/4	720-5707	721-5707
1	3/4	2	4-1/2	720-5709	721-5709
1	1	2	4-1/2	720-5711	721-5711
1	1	4	6-1/2	720-5713	721-5713
1-1/8	1	2	4-1/2	720-5715	721-5715

M42 8% Cobalt Coarse Pitch Roughing End Mills

Remove more metal in less time.
Need less horsepower.

Have excellent performance on heavy duty machining.
Tooth form provides excellent heat dissipation during heavy cutting jobs, is effective for cuts on high tensile steels.



Non Center Cutting

Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	Uncoated Order No.	TiN Coated Order No.
3/16"	3/8"	1/2"	2-3/8"	4	723-5703	723-6703
1/4	3/8	1/4	2-1/16	3	723-5706	723-6706
1/4	3/8	5/16	2-1/8	3	723-5705	723-6705
1/4	3/8	5/8	2-7/16	3	723-5708	723-6708
1/4	3/8	7/8	2-11/16	3	723-5701	723-6701
1/4	3/8	1-1/8	2-15/16	3	723-5702	723-6702
1/4	3/8	1-3/8	3-1/8	4	723-5707	723-6707
1/4	3/8	5/8	2-7/16	4	723-5930	723-6930
1/4	3/8	3/4	2-1/2	4	723-5709	723-6709
1/4	3/8	1-1/8	2-15/16	4	723-5710	723-6710
1/4	3/8	1-1/4	3-1/16	4	723-5711	723-6711
1/4	3/8	1-1/4	3-1/8	4	723-5936	723-6936
9/32	3/8	3/4	2-1/2	3	723-5712	723-6712
5/16	3/8	7/16	2-3/16	3	723-5714	723-6714
5/16	3/8	3/4	2-1/2	3	723-5715	723-6715
5/16	3/8	1-1/8	2-15/16	3	723-5717	723-6717
5/16	3/8	3/4	2-1/2	4	723-5716	723-6716
5/16	3/8	1-3/8	3-1/8	4	723-5941	723-6941
5/16	3/8	1-3/8	3-3/16	4	723-5942	723-6942
5/16	3/8	1-3/8	3-3/8	4	723-5713	723-6713
11/32	3/8	3/4	2-1/2	3	723-5725	723-6725
3/8	3/8	3/8	2-5/32	3	723-5718	723-6718
3/8	3/8	1/2	2-5/16	3	723-5946	723-6946
3/8	3/8	7/8	2-7/8	3	723-5949	723-6949
3/8	3/8	3/8	2-5/32	4	723-5719	723-6719
3/8	3/8	7/16	2-3/16	4	723-5720	723-6720
3/8	3/8	3/4	2-1/2	4	723-5721	723-6721
3/8	3/8	7/8	2-5/8	4	723-5722	723-6722
3/8	3/8	1-1/8	2-15/16	4	723-5726	723-6726
3/8	3/8	1-1/2	3-1/4	4	723-5723	723-6723
3/8	3/8	1-5/8	3-3/16	4	723-5724	723-6724
13/32	3/8	1	2-11/16	4	723-5735	723-6735
7/16	3/8	1	2-11/16	4	723-5727	723-6727
15/32	1/2	1-1/4	3-1/4	4	723-5728	723-6728
1/2	1/2	1/2	2-1/2	3	723-5730	723-6730
1/2	1/2	1/2	2-1/2	4	723-5952	723-6952
1/2	1/2	5/8	2-5/8	4	723-5731	723-6731
1/2	1/2	1	3	4	723-5732	723-6732
1/2	1/2	1-1/4	3-1/4	4	723-5733	723-6733
1/2	1/2	1-5/8	3-5/8	4	723-5734	723-6734
1/2	1/2	2	4	4	723-5736	723-6736
1/2	1/2	2-1/2	4-1/2	4	723-5738	723-6738
1/2	1/2	3	5	4	723-5739	723-6739
9/16	1/2	1-3/8	3-3/8	4	723-5742	723-6742
5/8	5/8	5/8	2-3/4	3	723-5745	723-6745
5/8	5/8	5/8	2-3/4	4	723-5746	723-6746
5/8	5/8	3/4	2-7/8	4	723-5747	723-6747
5/8	5/8	1-1/4	3-3/8	4	723-5743	723-6743
5/8	5/8	1-5/8	3-3/4	4	723-5748	723-6748
5/8	5/8	2	4-1/8	4	723-5749	723-6749
5/8	5/8	2-1/8	4-1/4	4	723-5750	723-6750
5/8	5/8	2-1/2	4-5/8	4	723-5751	723-6751
5/8	5/8	3	5-1/4	4	723-5754	723-6754
5/8	5/8	3-1/8	5-1/4	4	723-5757	723-6757
11/16	5/8	1-5/8	3-3/4	4	723-5760	723-6760
3/4	5/8	1-5/8	3-3/4	4	723-5766	723-6766
3/4	5/8	1-5/8	3-7/8	4	723-5761	723-6761
3/4	3/4	3/4	2-7/8	3	723-5763	723-6763
3/4	3/4	7/8	3-1/8	3	723-5765	723-6765
3/4	3/4	1-1/2	3-3/4	3	723-5768	723-6768
3/4	3/4	3/4	2-7/8	4	723-5764	723-6764
3/4	3/4	3/4	3	4	723-5762	723-6762
3/4	3/4	1-1/4	3-1/2	4	723-5767	723-6767
3/4	3/4	1-5/8	3-3/4	4	723-5769	723-6769
3/4	3/4	1-5/8	3-7/8	4	723-5770	723-6770
3/4	3/4	2-1/4	4-1/2	4	723-5771	723-6771
3/4	3/4	2-1/2	4-5/8	4	723-5772	723-6772
3/4	3/4	2-1/2	4-3/4	4	723-5773	723-6773
3/4	3/4	3	5-1/4	4	723-5775	723-6775
3/4	3/4	4-1/8	6-3/8	4	723-5776	723-6776
13/16	3/4	1-7/8	4-1/8	4	723-5777	723-6777
7/8	3/4	7/8	3-1/8	3	723-5778	723-6778
7/8	3/4	1	3-1/4	3	723-5779	723-6779

Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	Uncoated Order No.	TiN Coated Order No.
7/8"	3/4"	1-1/8"	3-3/8"	5	723-5780	723-6780
7/8	3/4	1-7/8	4-1/8	5	723-5781	723-6781
7/8	3/4	3-1/2	5-3/4	5	723-5782	723-6782
7/8	3/4	3-1/2	5-5/8	5	723-5784	723-6784
7/8	7/8	1-1/8	3-3/8	5	723-5786	723-6786
7/8	7/8	1-7/8	4-1/8	5	723-5787	723-6787
7/8	7/8	3-1/2	5-3/4	5	723-5789	723-6789
7/8	1	1-3/4	5	3	723-5955	723-6955
1	3/4	1-1/8	3-3/8	5	723-5792	723-6792
1	3/4	1-1/2	3-3/8	5	723-5791	723-6791
1	3/4	1-1/2	3-3/4	5	723-5794	723-6794
1	3/4	1-7/8	4-1/8	5	723-5793	723-6793
1	3/4	2	4-1/4	5	723-5795	723-6795
1	3/4	3	5-1/4	5	723-5796	723-6796
1	3/4	4	6-1/4	5	723-5797	723-6797
1	3/4	1-1/8	3-3/8	6	723-5790	723-6790
1	1	1	3-1/2	3	723-5799	723-6799
1	1	1-3/4	5	3	723-5958	723-6958
1	1	1	3-1/2	5	723-5800	723-6800
1	1	1-1/8	3-5/8	5	723-5801	723-6801
1	1	1-5/8	4-1/8	5	723-5798	723-6798
1	1	2	4-1/2	5	723-5802	723-6802
1	1	3	5-1/2	5	723-5805	723-6805
1	1	4	6-1/2	5	723-5808	723-6808
1	1	6	8-1/2	5	723-5811	723-6811
1-1/8	3/4	1-1/8	3-3/8	6	723-5814	723-6814
1-1/8	3/4	2	4-1/4	6	723-5817	723-6817
1-1/8	1	2	4-1/2	6	723-5820	723-6820
1-1/8	1	3-1/2	6	6	723-5823	723-6823
1-1/4	3/4	1-1/8	3-3/8	6	723-5826	723-6826
1-1/4	3/4	2	4-1/4	6	723-5829	723-6829
1-1/4	1-1/4	2	5-1/4	3	723-5836	723-6836
1-1/4	1-1/4	1-1/4	4	4	723-5833	723-6833
1-1/4	1-1/4	1-3/8	3-7/8	6	723-5834	723-6834
1-1/4	1-1/4	2	4-1/2	6	723-5835	723-6835
1-1/4	1-1/4	3	5-1/2	6	723-5838	723-6838
1-1/4	1-1/4	4	6-1/2	6	723-5841	723-6841
1-1/4	1-1/4	6	8-1/2	6	723-5844	723-6844
1-3/8	3/4	1-1/8	3-3/8	6	723-5847	723-6847
1-3/8	3/4	2	4-1/4	6	723-5850	723-6850
1-1/2	3/4	1-1/8	3-3/8	6	723-5853	723-6853
1-1/2	3/4	1-1/2	3-3/4	6	723-5854	723-6854
1-1/2	3/4	2	4-1/4	6	723-5856	723-6856
1-1/2	3/4	4	6-1/4	6	723-5858	723-6858
1-1/2	1-1/4	2	4-1/2	6	723-5859	723-6859
1-1/2	1-1/4	3	5-1/2	6	723-5862	723-6862
1-1/2	1-1/4	4	6-1/2	6	723-5865	723-6865
1-1/2	1-1/4	5	7-1/2	6	723-5868	723-6868
1-1/2	1-1/4	6	8-1/2	6	723-5871	723-6871
1-1/2	1-1/4	6-1/8	8-5/8	6	723-5869	723-6869
1-3/4	3/4	1-1/8	3-3/8	6	723-5874	723-6874
1-3/4	3/4	2	4-1/4	6	723-5877	723-6877
1-3/4	1-1/4	2	4-1/2	6	723-5880	723-6880
1-3/4	1-1/4	4	6-1/2	6	723-5883	723-6883
2	3/4	1-1/8	3-3/8	8	723-5886	723-6886
2	3/4	2	4-1/2	8	723-5889	723-6889
2	1-1/4	2	4-1/2	8	723-5892	723-6892
2	1-1/4	3-1/8	5-5/8	8	723-5893	723-6893
2	1-1/4	4	6-1/2	8	723-5895	723-6895
2	1-1/4	6-1/8	8-5/8	8	723-5896	723-6896
2	2	3	6-3/4	6	723-5899	723-6899
2	2	4	7-3/4	6	723-5902	723-6902
2	2	6	9-3/4	6	723-5908	723-6908
2	2	2	5-3/4	8	723-5898	723-6898
2	2	3	6-3/4	8	723-5901	723-6901
2	2	4	7-3/4	8	723-5904	723-6904
2	2	5	8-3/4	8	723-5907	723-6907
2	2	6	9-3/4	8	723-5910	723-6910
2	2	7	10-3/4	8	723-5911	723-6911
2	2	8	11-3/4	8	723-5913	723-6913
2	2	10	13-3/4	8	723-5916	723-6916
2	2	12	15-3/4	8	723-5919	723-6919

M42 8% Cobalt Coarse Pitch Roughing End Mills

Center Cutting



Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	Uncoated Order No.	TiN Coated Order No.
3/16"	3/8"	1/2"	2-3/8"	4	724-0008	724-1008
1/4	3/8	1/4	2-1/16	3	724-0011	724-1011
1/4	3/8	5/16	2-1/8	3	724-0014	724-1014
1/4	3/8	1/4	2-1/16	3	724-0017	724-1017
1/4	3/8	5/8	2-7/16	3	724-0020	724-1020
1/4	3/8	5/8	2-7/16	4	724-0023	724-1023
1/4	3/8	7/8	2-11/16	3	724-0026	724-1026
1/4	3/8	3/4	2-1/2	4	724-0029	724-1029
1/4	3/8	1-1/8	2-15/16	4	724-0032	724-1032
1/4	3/8	1-1/4	3-1/16	4	724-0035	724-1035
1/4	3/8	1-1/4	3-1/8	4	724-0038	724-1038
1/4	3/8	1-3/8	3-1/8	3	724-0041	724-1041
9/32	3/8	3/4	2-1/2	3	724-0044	724-1044
5/16	3/8	7/16	2-3/16	3	724-0047	724-1047
5/16	3/8	3/4	2-1/2	3	724-0050	724-1050
5/16	3/8	3/4	2-1/2	4	724-0053	724-1053
5/16	3/8	1-1/8	2-15/16	3	724-0056	724-1056
5/16	3/8	1-3/8	3-1/8	4	724-0059	724-1059
11/32	3/8	3/4	2-1/2	3	724-0062	724-1062
3/8	3/8	3/8	2-5/32	3	724-0065	724-1065
3/8	3/8	3/8	2-5/32	4	724-0068	724-1068
3/8	3/8	7/16	2-3/16	4	724-0071	724-1071
3/8	3/8	1/2	2-5/16	3	724-0074	724-1074
3/8	3/8	3/4	2-1/2	4	724-0077	724-1077
3/8	3/8	7/8	2-5/8	4	724-0080	724-1080
3/8	3/8	7/8	2-7/8	3	724-0083	724-1083
3/8	3/8	1-1/8	2-15/16	4	724-0086	724-1086
3/8	3/8	1-1/2	3-1/4	4	724-0089	724-1089
3/8	3/8	1-5/8	3-3/16	4	724-0092	724-1092
7/16	3/8	1	2-11/16	4	724-0095	724-1095
15/32	1/2	1-1/4	3-1/4	4	724-0098	724-1098
1/2	1/2	1/2	2-1/2	3	724-0101	724-1101
1/2	1/2	1/2	2-1/2	4	724-0104	724-1104
1/2	1/2	5/8	2-5/8	4	724-0110	724-1110
1/2	1/2	1	3	4	724-0113	724-1113
1/2	1/2	1-1/4	3-1/4	4	724-0116	724-1116
1/2	1/2	1-5/8	3-5/8	4	724-0119	724-1119
1/2	1/2	2	4	4	724-0122	724-1122
1/2	1/2	2-1/2	4-1/2	4	724-0125	724-1125
1/2	1/2	3	5	4	724-0128	724-1128
9/16	1/2	1-3/8	3-3/8	4	724-0131	724-1131
5/8	5/8	5/8	2-3/4	3	724-0134	724-1134
5/8	5/8	5/8	2-3/4	4	724-0137	724-1137
5/8	5/8	3/4	2-7/8	4	724-0140	724-1140
5/8	5/8	1-1/4	3-3/8	4	724-0143	724-1143
5/8	5/8	1-5/8	3-3/4	4	724-0146	724-1146
5/8	5/8	2	4-1/8	4	724-0149	724-1149
5/8	5/8	2-1/8	4-1/4	4	724-0152	724-1152
5/8	5/8	2-1/2	4-5/8	4	724-0155	724-1155
5/8	5/8	3	5-1/4	4	724-0158	724-1158
5/8	5/8	3-1/8	5-1/4	4	724-0161	724-1161
11/16	5/8	1-5/8	3-3/4	4	724-0164	724-1164
3/4	5/8	1-5/8	3-3/4	4	724-0167	724-1167
3/4	3/4	3/4	2-7/8	3	724-0170	724-1170
3/4	3/4	3/4	3	4	724-0173	724-1173
3/4	3/4	7/8	3-1/8	3	724-0176	724-1176
3/4	3/4	1-1/4	3-1/2	4	724-0179	724-1179
3/4	3/4	1-1/2	3-3/4	3	724-0182	724-1182
3/4	3/4	1-5/8	3-3/4	4	724-0185	724-1185
3/4	3/4	1-5/8	3-7/8	4	724-0187	724-1187
3/4	3/4	2-1/4	4-1/2	4	724-0188	724-1188
3/4	3/4	2-1/2	4-5/8	4	724-0191	724-1191
3/4	3/4	3	5-1/4	4	724-0194	724-1194
3/4	3/4	4-1/8	6-3/8	4	724-0197	724-1197
13/16	3/4	1-7/8	4-1/8	4	724-0200	724-1200
7/8	3/4	7/8	3-1/8	3	724-0203	724-1203
7/8	3/4	1	3-1/4	3	724-0206	724-1206

Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	Uncoated Order No.	TiN Coated Order No.
7/8"	3/4"	1-1/8"	3-3/8"	5	724-0209	724-1209
7/8	3/4	1-7/8	4-1/8	5	724-0212	724-1212
7/8	3/4	3-1/2	5-5/8	5	724-0215	724-1215
7/8	7/8	1-1/8	3-3/8	5	724-0218	724-1218
7/8	7/8	1-7/8	4-1/8	5	724-0221	724-1221
7/8	7/8	3-1/2	5-3/4	5	724-0224	724-1224
7/8	1	1-3/4	5	3	724-0227	724-1227
1	3/4	1-1/8	3-3/8	6	724-0230	724-1230
1	3/4	1-1/2	3-3/8	5	724-0233	724-1233
1	3/4	1-7/8	4-1/8	5	724-0236	724-1236
1	3/4	2	4-1/4	5	724-0239	724-1239
1	3/4	3	5-1/4	5	724-0242	724-1242
1	3/4	4	6-1/4	5	724-0245	724-1245
1	1	1	3-1/2	3	724-0248	724-1248
1	1	1	3-1/2	5	724-0251	724-1251
1	1	1-1/8	3-5/8	5	724-0254	724-1254
1	1	1-5/8	4-1/8	5	724-0257	724-1257
1	1	1-3/4	5	3	724-0260	724-1260
1	1	2	4-1/2	5	724-0263	724-1263
1	1	3	5-1/2	5	724-0266	724-1266
1	1	4	6-1/2	5	724-0269	724-1269
1	1	6	8-1/2	5	724-0272	724-1272
1-1/8	3/4	1-1/8	3-3/8	6	724-0275	724-1275
1-1/8	3/4	2	4-1/4	6	724-0278	724-1278
1-1/8	1	2	4-1/2	6	724-0281	724-1281
1-1/8	1	3-1/2	6	6	724-0284	724-1284
1-1/4	3/4	1-1/8	3-3/8	6	724-0287	724-1287
1-1/4	3/4	2	4-1/4	6	724-0290	724-1290
1-1/4	1-1/4	1-1/4	4	4	724-0296	724-1296
1-1/4	1-1/4	1-3/8	3-7/8	6	724-0299	724-1299
1-1/4	1-1/4	2	4-1/2	6	724-0302	724-1302
1-1/4	1-1/4	2	5-1/4	3	724-0305	724-1305
1-1/4	1-1/4	3	5-1/2	6	724-0308	724-1308
1-1/4	1-1/4	4	6-1/2	6	724-0311	724-1311
1-1/4	1-1/4	6	8-1/2	6	724-0314	724-1314
1-3/8	3/4	1-1/8	3-3/8	6	724-0317	724-1317
1-3/8	3/4	2	4-1/4	6	724-0320	724-1320
1-1/2	3/4	1-1/8	3-3/8	6	724-0323	724-1323
1-1/2	3/4	1-1/2	3-3/4	6	724-0326	724-1326
1-1/2	3/4	2	4-1/4	6	724-0329	724-1329
1-1/2	3/4	4	6-1/4	6	724-0332	724-1332
1-1/2	1-1/4	2	4-1/2	6	724-0335	724-1335
1-1/2	1-1/4	3	5-1/2	6	724-0338	724-1338
1-1/2	1-1/4	4	6-1/2	6	724-0341	724-1341
1-1/2	1-1/4	5	7-1/2	6	724-0344	724-1344
1-1/2	1-1/4	6	8-1/2	6	724-0347	724-1347
1-3/4	3/4	1-1/8	3-3/8	6	724-0350	724-1350
1-3/4	3/4	2	4-1/4	6	724-0353	724-1353
1-3/4	1-1/4	2	4-1/2	6	724-0356	724-1356
1-3/4	1-1/4	4	6-1/2	6	724-0359	724-1359
2	3/4	1-1/8	3-3/8	8	724-0362	724-1362
2	3/4	2	4-1/2	8	724-0365	724-1365
2	1-1/4	2	4-1/2	8	724-0368	724-1368
2	1-1/4	4	6-1/2	8	724-0371	724-1371
2	1-1/4	6-1/8	8-5/8	8	724-0374	724-1374
2	2	2	5-3/4	8	724-0377	724-1377
2	2	3	6-3/4	6	724-0380	724-1380
2	2	3	6-3/4	8	724-0383	724-1383
2	2	4	7-3/4	6	724-0386	724-1386
2	2	4	7-3/4	8	724-0389	724-1389
2	2	5	8-3/4	8	724-0392	724-1392
2	2	6	9-3/4	6	724-0395	724-1395
2	2	6	9-3/4	8	724-0398	724-1398
2	2	7	10-3/4	8	724-0401	724-1401
2	2	8	11-3/4	8	724-0404	724-1404
2	2	10	13-3/4	8	724-0407	724-1407
2	2	12	15-3/4	8	724-0410	724-1410

M42 8% Cobalt Fine Pitch Roughing End Mills

Non Center Cutting

- For use in high production milling in variety of exotic materials.
- Coating improves tool life and allows for higher speeds and feeds.
- Fine pitch design provides a better finish than coarse pitch end mills and eliminates chipping in harder materials.



Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	Uncoated Order No.	TiN Coated Order No.
3/16"	3/8"	1/2"	2-3/8"	4	724-2008	724-3008
1/4	3/8	1/4	2-1/16	3	724-2011	724-3011
1/4	3/8	5/16	2-1/8	3	724-2014	724-3014
1/4	3/8	1/4	2-1/16	3	724-2017	724-3017
1/4	3/8	5/8	2-7/16	3	724-2020	724-3020
1/4	3/8	5/8	2-7/16	4	724-2023	724-3023
1/4	3/8	7/8	2-11/16	3	724-2026	724-3026
1/4	3/8	3/4	2-1/2	4	724-2029	724-3029
1/4	3/8	1-1/4	2-15/16	4	724-2032	724-3032
1/4	3/8	1-1/8	3-1/8	4	724-2033	724-3033
1/4	3/8	1-1/4	3-1/16	4	724-2035	724-3035
1/4	3/8	1-1/4	3-1/8	4	724-2038	724-3038
1/4	3/8	1-3/8	3-1/8	3	724-2041	724-3041
9/32	3/8	3/4	2-1/2	3	724-2044	724-3044
5/16	3/8	7/16	2-3/16	3	724-2047	724-3047
5/16	3/8	3/4	2-1/2	3	724-2050	724-3050
5/16	3/8	3/4	2-1/2	4	724-2053	724-3053
5/16	3/8	1-1/8	2-15/16	3	724-2056	724-3056
5/16	3/8	1-3/8	3-1/8	4	724-2059	724-3059
11/32	3/8	3/4	2-1/2	3	724-2062	724-3062
3/8	3/8	3/8	2-5/32	3	724-2065	724-3065
3/8	3/8	3/8	2-5/32	4	724-2068	724-3068
3/8	3/8	7/16	2-3/16	4	724-2071	724-3071
3/8	3/8	1/2	2-5/16	3	724-2074	724-3074
3/8	3/8	3/4	2-1/2	4	724-2077	724-3077
3/8	3/8	7/8	2-5/8	4	724-2080	724-3080
3/8	3/8	7/8	2-7/8	3	724-2083	724-3083
3/8	3/8	1-1/8	2-15/16	4	724-2086	724-3086
3/8	3/8	1-1/2	3-1/4	4	724-2089	724-3089
3/8	3/8	1-5/8	3-3/16	4	724-2092	724-3092
7/16	3/8	1	2-5/16	3	724-2093	724-3093
7/16	3/8	1	2-5/16	4	724-2094	724-3094
7/16	3/8	1	2-11/16	4	724-2095	724-3095
15/32	1/2	1-1/4	3-1/4	4	724-2098	724-3098
1/2	1/2	1/2	2-1/2	3	724-2101	724-3101
1/2	1/2	1/2	2-1/2	4	724-2107	724-3107
1/2	1/2	5/8	2-5/8	4	724-2110	724-3110
1/2	1/2	1	3	4	724-2113	724-3113
1/2	1/2	1-1/4	3-1/4	4	724-2116	724-3116
1/2	1/2	1-5/8	3-5/8	4	724-2119	724-3119
1/2	1/2	2	4	4	724-2122	724-3122
1/2	1/2	2-1/2	4-1/2	4	724-2125	724-3125
1/2	1/2	3	5	4	724-2128	724-3128
9/16	1/2	1-3/8	3-3/8	4	724-2131	724-3131
5/8	5/8	5/8	2-3/4	3	724-2134	724-3134
5/8	5/8	5/8	2-3/4	4	724-2137	724-3137
5/8	5/8	3/4	2-7/8	4	724-2140	724-3140
5/8	5/8	1-1/4	3-3/8	4	724-2143	724-3143
5/8	5/8	1-5/8	3-3/4	4	724-2146	724-3146
5/8	5/8	2	4-1/8	4	724-2149	724-3149
5/8	5/8	2-1/8	4-1/4	4	724-2152	724-3152
5/8	5/8	2-1/2	4-5/8	4	724-2155	724-3155
5/8	5/8	3	5-1/4	4	724-2158	724-3158
5/8	5/8	3-1/8	5-1/4	4	724-2161	724-3161
11/16	5/8	1-5/8	3-3/4	4	724-2164	724-3164
3/4	5/8	1-5/8	3-3/4	4	724-2167	724-3167
3/4	3/4	3/4	2-7/8	3	724-2170	724-3170
3/4	3/4	3/4	3	4	724-2173	724-3173
3/4	3/4	7/8	3-1/8	3	724-2176	724-3176
3/4	3/4	1-1/4	3-1/2	4	724-2179	724-3179
3/4	3/4	1-1/2	3-3/4	3	724-2182	724-3182
3/4	3/4	1-5/8	3-3/4	4	724-2185	724-3185
3/4	3/4	2-1/4	4-1/2	4	724-2188	724-3188
3/4	3/4	2-1/2	4-5/8	4	724-2191	724-3191
3/4	3/4	3	5-1/4	4	724-2194	724-3194
3/4	3/4	4-1/8	6-3/8	4	724-2197	724-3197
13/16	3/4	1-7/8	4-1/8	4	724-2200	724-3200
7/8	3/4	7/8	3-1/8	3	724-2203	724-3203
7/8	3/4	1	3-1/4	3	724-2206	724-3206

Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	Uncoated Order No.	TiN Coated Order No.
7/8"	3/4"	1-1/8"	3-3/8"	5	724-2209	724-3209
7/8	3/4	1-7/8	4-1/8	5	724-2212	724-3212
7/8	3/4	3-1/2	5-5/8	5	724-2215	724-3215
7/8	7/8	1-1/8	3-3/8	5	724-2218	724-3218
7/8	7/8	1-7/8	4-1/8	5	724-2221	724-3221
7/8	7/8	3-1/2	5-3/4	5	724-2224	724-3224
7/8	1	1-3/4	5	3	724-2227	724-3227
1	3/4	1-1/8	3-3/8	5	724-2229	724-3229
1	3/4	1-1/8	3-3/8	6	724-2230	724-3230
1	3/4	1-1/2	3-3/8	5	724-2233	724-3233
1	3/4	1-7/8	4-1/8	5	724-2236	724-3236
1	3/4	2	4-1/4	5	724-2239	724-3239
1	3/4	3	5-1/4	5	724-2242	724-3242
1	3/4	4	6-1/4	5	724-2245	724-3245
1	1	1	3-1/2	3	724-2248	724-3248
1	1	1	3-1/2	5	724-2251	724-3251
1	1	1-1/8	3-5/8	5	724-2254	724-3254
1	1	1-5/8	4-1/8	5	724-2257	724-3257
1	1	1-3/4	5	3	724-2260	724-3260
1	1	2	4-1/2	5	724-2263	724-3263
1	1	3	5-1/2	5	724-2266	724-3266
1	1	4	6-1/2	5	724-2269	724-3269
1	1	6	8-1/2	5	724-2272	724-3272
1-1/8	3/4	1-1/8	3-3/8	6	724-2275	724-3275
1-1/8	3/4	2	4-1/4	6	724-2278	724-3278
1-1/8	1	2	4-1/2	6	724-2281	724-3281
1-1/8	1	3-1/2	6	6	724-2284	724-3284
1-1/4	3/4	1-1/8	3-3/8	6	724-2287	724-3287
1-1/4	3/4	2	4-1/4	6	724-2290	724-3290
1-1/4	1-1/4	1-1/4	4	4	724-2293	724-3293
1-1/4	1-1/4	1-3/8	3-7/8	6	724-2296	724-3296
1-1/4	1-1/4	2	4-1/2	6	724-2299	724-3299
1-1/4	1-1/4	2	5-1/4	3	724-2302	724-3302
1-1/4	1-1/4	2	5-1/4	3	724-2305	724-3305
1-1/4	1-1/4	3	5-1/2	6	724-2308	724-3308
1-1/4	1-1/4	4	6-1/2	6	724-2311	724-3311
1-1/4	1-1/4	6	8-1/2	6	724-2314	724-3314
1-3/8	3/4	1-1/8	3-3/8	6	724-2317	724-3317
1-3/8	3/4	2	4-1/4	6	724-2320	724-3320
1-1/2	3/4	1-1/8	3-3/8	6	724-2323	724-3323
1-1/2	3/4	1-1/2	3-3/4	6	724-2326	724-3326
1-1/2	3/4	2	4-1/4	6	724-2329	724-3329
1-1/2	3/4	4	6-1/4	6	724-2332	724-3332
1-1/2	1-1/4	2	4-1/2	6	724-2335	724-3335
1-1/2	1-1/4	3	5-1/2	6	724-2338	724-3338
1-1/2	1-1/4	4	6-1/2	6	724-2341	724-3341
1-1/2	1-1/4	5	7-1/2	6	724-2344	724-3344
1-1/2	1-1/4	6	8-1/2	6	724-2347	724-3347
1-3/4	3/4	1-1/8	3-3/8	6	724-2350	724-3350
1-3/4	3/4	2	4-1/4	6	724-2353	724-3353
1-3/4	1-1/4	2	4-1/2	6	724-2356	724-3356
1-3/4	1-1/4	4	6-1/2	6	724-2359	724-3359
2	3/4	1-1/8	3-3/8	8	724-2362	724-3362
2	3/4	2	4-1/2	8	724-2365	724-3365
2	1-1/4	2	4-1/2	8	724-2368	724-3368
2	1-1/4	4	6-1/2	8	724-2371	724-3371
2	1-1/4	6-1/8	8-5/8	8	724-2374	724-3374
2	2	2	5-3/4	8	724-2377	724-3377
2	2	3	6-3/4	6	724-2380	724-3380
2	2	3	6-3/4	8	724-2383	724-3383
2	2	4	7-3/4	6	724-2386	724-3386
2	2	4	7-3/4	8	724-2389	724-3389
2	2	5	8-3/4	8	724-2392	724-3392
2	2	6	9-3/4	6	724-2395	724-3395
2	2	6	9-3/4	8	724-2398	724-3398
2	2	7	10-3/4	8	724-2401	724-3401
2	2	8	11-3/4	8	724-2404	724-3404
2	2	10	13-3/4	8	724-2407	724-3407
2	2	12	15-3/4	8	724-2410	724-3410

M42 8% Cobalt Fine Pitch Roughing End Mills

Center Cutting

- Fine pitch design provides a better finish than coarse pitch end mills and eliminates chipping in harder materials.
- For use in high production milling in variety of exotic materials.
- Coating improves tool life and allows for higher speeds and feeds.



Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	Uncoate Order No.	TiN Coated Order No.
3/16"	3/8"	1/2"	2-3/8"	4	724-0508	724-1508
1/4	3/8	1/4	2-1/16	3	724-0511	724-1511
1/4	3/8	5/16	2-1/8	3	724-0514	724-1514
1/4	3/8	1/4	2-1/16	3	724-0517	724-1517
1/4	3/8	5/8	2-7/16	3	724-0520	724-1520
1/4	3/8	5/8	2-7/16	4	724-0523	724-1523
1/4	3/8	7/8	2-11/16	3	724-0526	724-1526
1/4	3/8	3/4	2-1/2	4	724-0529	724-1529
1/4	3/8	1-1/8	2-15/16	4	724-0532	724-1532
1/4	3/8	1-1/4	3-1/16	4	724-0535	724-1535
1/4	3/8	1-1/4	3-1/8	4	724-0538	724-1538
1/4	3/8	1-3/8	3-1/8	3	724-0541	724-1541
9/32	3/8	3/4	2-1/2	3	724-0544	724-1544
5/16	3/8	7/16	2-3/16	3	724-0547	724-1547
5/16	3/8	3/4	2-1/2	3	724-0550	724-1550
5/16	3/8	3/4	2-1/2	4	724-0553	724-1553
5/16	3/8	1-1/8	2-15/16	3	724-0556	724-1556
5/16	3/8	1-3/8	3-1/8	4	724-0559	724-1559
11/32	3/8	3/4	2-1/2	3	724-0562	724-1562
3/8	3/8	3/8	2-5/32	3	724-0565	724-1565
3/8	3/8	3/8	2-5/32	4	724-0568	724-1568
3/8	3/8	7/16	2-3/16	4	724-0571	724-1571
3/8	3/8	1/2	2-5/16	3	724-0574	724-1574
3/8	3/8	3/4	2-1/2	4	724-0577	724-1577
3/8	3/8	7/8	2-5/8	4	724-0580	724-1580
3/8	3/8	7/8	2-7/8	3	724-0583	724-1583
3/8	3/8	1-1/8	2-15/16	4	724-0586	724-1586
3/8	3/8	1-1/2	3-1/4	4	724-0589	724-1589
3/8	3/8	1-5/8	3-3/16	4	724-0592	724-1592
7/16	3/8	1	2-11/16	4	724-0595	724-1595
15/32	1/2	1-1/4	3-1/4	4	724-0598	724-1598
1/2	1/2	1/2	2-1/2	3	724-0601	724-1601
1/2	1/2	1/2	2-1/2	3	724-0604	724-1604
1/2	1/2	1/2	2-1/2	4	724-0607	724-1607
1/2	1/2	5/8	2-5/8	4	724-0610	724-1610
1/2	1/2	1	3	4	724-0613	724-1613
1/2	1/2	1-1/4	3-1/4	4	724-0616	724-1616
1/2	1/2	1-5/8	3-5/8	4	724-0619	724-1619
1/2	1/2	2	4	4	724-0622	724-1622
1/2	1/2	2-1/2	4-1/2	4	724-0625	724-1625
1/2	1/2	3	5	4	724-0628	724-1628
9/16	1/2	1-3/8	3-3/8	4	724-0631	724-1631
5/8	5/8	5/8	2-3/4	3	724-0634	724-1634
5/8	5/8	5/8	2-3/4	4	724-0637	724-1637
5/8	5/8	3/4	2-7/8	4	724-0640	724-1640
5/8	5/8	1-1/4	3-3/8	4	724-0643	724-1643
5/8	5/8	1-5/8	3-3/4	4	724-0646	724-1646
5/8	5/8	2	4-1/8	4	724-0649	724-1649
5/8	5/8	2-1/8	4-1/4	4	724-0652	724-1652
5/8	5/8	2-1/2	4-5/8	4	724-0655	724-1655
5/8	5/8	3	5-1/4	4	724-0658	724-1658
5/8	5/8	3-1/8	5-1/4	4	724-0661	724-1661
11/16	5/8	1-5/8	3-3/4	4	724-0664	724-1664
3/4	5/8	1-5/8	3-3/4	4	724-0667	724-1667
3/4	3/4	3/4	2-7/8	3	724-0670	724-1670
3/4	3/4	3/4	2-7/8	4	724-0673	724-1673
3/4	3/4	7/8	3-1/8	3	724-0676	724-1676
3/4	3/4	1-1/4	3-1/2	4	724-0679	724-1679
3/4	3/4	1-1/2	3-3/4	3	724-0682	724-1682
3/4	3/4	1-5/8	3-3/4	4	724-0685	724-1685
3/4	3/4	2-1/4	4-1/2	4	724-0688	724-1688
3/4	3/4	2-1/2	4-5/8	4	724-0691	724-1691
3/4	3/4	3	5-1/4	4	724-0694	724-1694
3/4	3/4	4-1/8	6-3/8	4	724-0697	724-1697
13/16	3/4	1-7/8	4-1/8	4	724-0700	724-1700
7/8	3/4	7/8	3-1/8	3	724-0703	724-1703
7/8	3/4	1	3-1/4	3	724-0706	724-1706

Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	Uncoated Order No.	TiN Coated Order No.
7/8"	3/4"	1-1/8"	3-3/8"	5	724-0709	724-1709
7/8	3/4	1-7/8	4-1/8	5	724-0712	724-1712
7/8	3/4	3-1/2	5-5/8	5	724-0715	724-1715
7/8	7/8	1-1/8	3-3/8	5	724-0718	724-1718
7/8	7/8	1-7/8	4-1/8	5	724-0721	724-1721
7/8	7/8	3-1/2	5-3/4	5	724-0724	724-1724
7/8	1	1-3/4	5	3	724-0727	724-1727
1	3/4	1-1/8	3-3/8	6	724-0730	724-1730
1	3/4	1-1/2	3-3/8	5	724-0733	724-1733
1	3/4	1-7/8	4-1/8	5	724-0736	724-1736
1	3/4	2	4-1/4	5	724-0739	724-1739
1	3/4	3	5-1/4	5	724-0742	724-1742
1	3/4	4	6-1/4	5	724-0745	724-1745
1	1	1	3-1/2	3	724-0748	724-1748
1	1	1	3-1/2	5	724-0751	724-1751
1	1	1-1/8	3-5/8	5	724-0754	724-1754
1	1	1-5/8	4-1/8	5	724-0757	724-1757
1	1	1-3/4	5	3	724-0760	724-1760
1	1	2	4-1/2	5	724-0763	724-1763
1	1	3	5-1/2	5	724-0766	724-1766
1	1	4	6-1/2	5	724-0769	724-1769
1	1	6	8-1/2	5	724-0772	724-1772
1-1/8	3/4	1-1/8	3-3/8	6	724-0775	724-1775
1-1/8	3/4	2	4-1/4	6	724-0778	724-1778
1-1/8	1	2	4-1/2	6	724-0781	724-1781
1-1/8	1	3-1/2	6	6	724-0784	724-1784
1-1/4	3/4	1-1/8	3-3/8	6	724-0787	724-1787
1-1/4	3/4	2	4-1/4	6	724-0790	724-1790
1-1/4	1-1/4	1-1/4	4	4	724-0796	724-1796
1-1/4	1-1/4	1-3/8	3-7/8	6	724-0799	724-1799
1-1/4	1-1/4	2	4-1/2	6	724-0802	724-1802
1-1/4	1-1/4	2	5-1/4	3	724-0805	724-1805
1-1/4	1-1/4	3	5-1/2	6	724-0808	724-1808
1-1/4	1-1/4	4	6-1/2	6	724-0811	724-1811
1-1/4	1-1/4	6	8-1/2	6	724-0814	724-1814
1-3/8	3/4	1-1/8	3-3/8	6	724-0817	724-1817
1-3/8	3/4	2	4-1/4	6	724-0820	724-1820
1-1/2	3/4	1-1/8	3-3/8	6	724-0823	724-1823
1-1/2	3/4	1-1/2	3-3/4	6	724-0826	724-1826
1-1/2	3/4	2	4-1/4	6	724-0829	724-1829
1-1/2	3/4	4	6-1/4	6	724-0832	724-1832
1-1/2	1-1/4	2	4-1/2	6	724-0835	724-1835
1-1/2	1-1/4	3	5-1/2	6	724-0838	724-1838
1-1/2	1-1/4	4	6-1/2	6	724-0841	724-1841
1-1/2	1-1/4	5	7-1/2	6	724-0844	724-1844
1-1/2	1-1/4	6	8-1/2	6	724-0847	724-1847
1-3/4	3/4	1-1/8	3-3/8	6	724-0850	724-1850
1-3/4	3/4	2	4-1/4	6	724-0853	724-1853
1-3/4	1-1/4	2	4-1/2	6	724-0856	724-1856
1-3/4	1-1/4	4	6-1/2	6	724-0859	724-1859
2	3/4	1-1/8	3-3/8	8	724-0862	724-1862
2	3/4	2	4-1/2	8	724-0865	724-1865
2	1-1/4	2	4-1/2	8	724-0868	724-1868
2	1-1/4	4	6-1/2	8	724-0871	724-1871
2	1-1/4	6-1/8	8-5/8	8	724-0874	724-1874
2	2	2	5-3/4	8	724-0877	724-1877
2	2	3	6-3/4	6	724-0880	724-1880
2	2	3	6-3/4	8	724-0883	724-1883
2	2	4	7-3/4	6	724-0886	724-1886
2	2	4	7-3/4	8	724-0889	724-1889
2	2	5	8-3/4	8	724-0892	724-1892
2	2	6	9-3/4	6	724-0895	724-1895
2	2	6	9-3/4	8	724-0898	724-1898
2	2	7	10-3/4	8	724-0901	724-1901
2	2	8	11-3/4	8	724-0904	724-1904
2	2	10	13-3/4	8	724-0907	724-1907
2	2	12	15-3/4	8	724-0910	724-1910

M42 8% Cobalt Roughing & Finishing End Mills

Non Center Cutting



Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	Uncoated Order No.	TiN Coated Order No.
3/16"	3/8"	1/2"	2-3/8"	3	724-4008	724-5008
1/4	3/8	1/4	2-1/16	3	724-4011	724-5011
1/4	3/8	5/16	2-1/8	4	724-4014	724-5014
1/4	3/8	1/4	2-1/16	3	724-4017	724-5017
1/4	3/8	5/8	2-7/16	3	724-4020	724-5020
1/4	3/8	5/8	2-7/16	4	724-4023	724-5023
1/4	3/8	7/8	2-11/16	4	724-4026	724-5026
1/4	3/8	3/4	2-1/2	4	724-4029	724-5029
1/4	3/8	1-1/8	2-15/16	4	724-4032	724-5032
1/4	3/8	1-1/4	3-1/16	4	724-4035	724-5035
1/4	3/8	1-1/4	3-1/8	4	724-4038	724-5038
1/4	3/8	1-3/8	3-1/8	3	724-4041	724-5041
9/32	3/8	3/4	2-1/2	3	724-4044	724-5044
5/16	3/8	7/16	2-3/16	4	724-4047	724-5047
5/16	3/8	3/4	2-1/2	3	724-4050	724-5050
5/16	3/8	3/4	2-1/2	4	724-4053	724-5053
5/16	3/8	1-1/8	2-15/16	4	724-4056	724-5056
5/16	3/8	1-3/8	3-1/8	3	724-4058	724-5058
5/16	3/8	1-3/8	3-1/8	4	724-4059	724-5059
11/32	3/8	3/4	2-1/2	3	724-4062	724-5062
3/8	3/8	3/8	2-5/32	3	724-4065	724-5065
3/8	3/8	3/8	2-5/32	4	724-4068	724-5068
3/8	3/8	7/16	2-3/16	4	724-4071	724-5071
3/8	3/8	1/2	2-5/16	3	724-4074	724-5074
3/8	3/8	3/4	2-1/2	3	724-4076	724-5076
3/8	3/8	3/4	2-1/2	4	724-4077	724-5077
3/8	3/8	7/8	2-5/8	4	724-4080	724-5080
3/8	3/8	7/8	2-7/8	3	724-4083	724-5083
3/8	3/8	1-1/8	2-15/16	4	724-4086	724-5086
3/8	3/8	1-3/8	3-3/16	4	724-4088	724-5088
3/8	3/8	1-1/2	3-1/4	4	724-4089	724-5089
3/8	3/8	1-5/8	3-3/16	4	724-4092	724-5092
7/16	3/8	1	2-11/16	4	724-4095	724-5095
15/32	1/2	1-1/4	3-1/4	4	724-4098	724-5098
1/2	1/2	1/2	2-1/2	3	724-4101	724-5101
1/2	1/2	1/2	2-1/2	3	724-4104	724-5104
1/2	1/2	1/2	2-1/2	4	724-4107	724-5107
1/2	1/2	5/8	2-5/8	4	724-4110	724-5110
1/2	1/2	1	3	4	724-4113	724-5113
1/2	1/2	1-1/4	3-1/4	3	724-4115	724-5115
1/2	1/2	1-1/4	3-1/4	4	724-4116	724-5116
1/2	1/2	1-5/8	3-5/8	4	724-4119	724-5119
1/2	1/2	2	4	3	724-4121	724-5121
1/2	1/2	2	4	4	724-4122	724-5122
1/2	1/2	2-1/2	4-1/2	4	724-4125	724-5125
1/2	1/2	3	5	4	724-4128	724-5128
9/16	1/2	1-3/8	3-3/8	4	724-4131	724-5131
5/8	5/8	5/8	2-3/4	3	724-4134	724-5134
5/8	5/8	5/8	2-3/4	4	724-4137	724-5137
5/8	5/8	3/4	2-7/8	4	724-4140	724-5140
5/8	5/8	1-1/4	3-3/8	4	724-4143	724-5143
5/8	5/8	1-5/8	3-3/4	3	724-4145	724-5145
5/8	5/8	1-5/8	3-3/4	4	724-4146	724-5146
5/8	5/8	2	4-1/8	4	724-4149	724-5149
5/8	5/8	2-1/8	4-1/4	4	724-4152	724-5152
5/8	5/8	2-1/2	4-5/8	3	724-4154	724-5154
5/8	5/8	2-1/2	4-5/8	4	724-4155	724-5155
5/8	5/8	3	5-1/4	4	724-4158	724-5158
5/8	5/8	3-1/8	5-1/4	4	724-4161	724-5161
11/16	5/8	1-5/8	3-3/4	4	724-4164	724-5164
3/4	5/8	1-5/8	3-3/4	4	724-4167	724-5167
3/4	3/4	3/4	2-7/8	3	724-4170	724-5170
3/4	3/4	3/4	3	4	724-4173	724-5173
3/4	3/4	7/8	3-1/8	3	724-4176	724-5176
3/4	3/4	1-1/4	3-1/2	4	724-4179	724-5179
3/4	3/4	1-1/2	3-3/4	3	724-4182	724-5182
3/4	3/4	1-5/8	3-3/4	4	724-4185	724-5185
3/4	3/4	1-5/8	3-7/8	3	724-4186	724-5186
3/4	3/4	2-1/4	4-1/2	4	724-4188	724-5188
3/4	3/4	2-1/2	4-5/8	4	724-4191	724-5191
3/4	3/4	3	5-1/4	3	724-4193	724-5193
3/4	3/4	3	5-1/4	4	724-4194	724-5194
2	2	6	9-3/4	6	724-4395	724-5395
2	2	6	9-3/4	8	724-4398	724-5398
2	2	7	10-3/4	8	724-4401	724-5401
2	2	8	11-3/4	8	724-4404	724-5404
2	2	10	13-3/4	8	724-4407	724-5407
2	2	12	15-3/4	8	724-4410	724-5410

Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	Uncoated Order No.	TiN Coated Order No.
3/4"	3/4"	4-1/8"	6-3/8"	4	724-4197	724-5197
13/16	3/4	1-7/8	4-1/8	5	724-4200	724-5200
7/8	3/4	7/8	3-1/8	3	724-4203	724-5203
7/8	3/4	1	3-1/4	3	724-4206	724-5206
7/8	3/4	1-1/8	3-3/8	5	724-4209	724-5209
7/8	3/4	1-3/4	4	3	724-4211	724-5211
7/8	3/4	1-7/8	4-1/8	5	724-4212	724-5212
7/8	3/4	3-1/2	5-5/8	5	724-4215	724-5215
7/8	7/8	1-1/8	3-3/8	5	724-4218	724-5218
7/8	7/8	1-7/8	4-1/8	5	724-4221	724-5221
7/8	7/8	3-1/2	5-3/4	5	724-4224	724-5224
7/8	1	1-3/4	5	3	724-4227	724-5227
1	3/4	1-1/8	3-3/8	6	724-4230	724-5230
1	3/4	1-1/2	3-3/8	5	724-4233	724-5233
1	3/4	1-1/2	3-3/4	3	724-4234	724-5234
1	3/4	1-7/8	4-1/8	5	724-4236	724-5236
1	3/4	2	4-1/4	5	724-4239	724-5239
1	3/4	3	5-1/4	5	724-4242	724-5242
1	3/4	4	6-1/4	4	724-4245	724-5245
1	1	1	3-1/2	3	724-4248	724-5248
1	1	1	3-1/2	5	724-4251	724-5251
1	1	1-1/8	3-5/8	6	724-4254	724-5254
1	1	1-5/8	4-1/8	6	724-4257	724-5257
1	1	1-3/4	5	3	724-4260	724-5260
1	1	2	4-1/2	3	724-4262	724-5262
1	1	2	4-1/2	6	724-4263	724-5263
1	1	3	5-1/2	5	724-4266	724-5266
1	1	4	6-1/2	3	724-4268	724-5268
1	1	4	6-1/2	5	724-4269	724-5269
1	1	6	8-1/2	5	724-4272	724-5272
1-1/8	3/4	1-1/8	3-3/8	6	724-4275	724-5275
1-1/8	3/4	2	4-1/4	6	724-4278	724-5278
1-1/8	1	2	4-1/2	6	724-4281	724-5281
1-1/8	1	3-1/2	6	6	724-4284	724-5284
1-1/4	3/4	1-1/8	3-3/8	6	724-4287	724-5287
1-1/4	3/4	1-1/2	3-3/4	3	724-4289	724-5289
1-1/4	3/4	2	4-1/4	6	724-4290	724-5290
1-1/4	3/4	2	4-1/2	6	724-4293	724-5293
1-1/4	1-1/4	1-1/4	4	4	724-4296	724-5296
1-1/4	1-1/4	1-3/8	3-7/8	6	724-4299	724-5299
1-1/4	1-1/4	2	4-1/2	3	724-4301	724-5301
1-1/4	1-1/4	2	4-1/2	6	724-4302	724-5302
1-1/4	1-1/4	2	5-1/4	3	724-4305	724-5305
1-1/4	1-1/4	3	5-1/2	6	724-4308	724-5308
1-1/4	1-1/4	4	6-1/2	3	724-4310	724-5310
1-1/4	1-1/4	4	6-1/2	6	724-4311	724-5311
1-1/4	1-1/4	6	8-1/2	6	724-4314	724-5314
1-3/8	3/4	1-1/8	3-3/8	6	724-4317	724-5317
1-3/8	3/4	2	4-1/4	6	724-4320	724-5320
1-1/2	3/4	1-1/8	3-3/8	6	724-4323	724-5323
1-1/2	3/4	1-1/2	3-3/4	6	724-4326	724-5326
1-1/2	3/4	2	4-1/2	6	724-4329	724-5329
1-1/2	3/4	4	6-1/4	6	724-4332	724-5332
1-1/2	1-1/4	2	4-1/2	3	724-4334	724-5334
1-1/2	1-1/4	2	4-1/2	6	724-4335	724-5335
1-1/2	1-1/4	3	5-1/2	6	724-4338	724-5338
1-1/2	1-1/4	4	6-1/2	3	724-4340	724-5340
1-1/2	1-1/4	4	6-1/2	6	724-4341	724-5341
1-1/2	1-1/4	5	7-1/2	6	724-4344	724-5344
1-1/2	1-1/4	6	8-1/2	6	724-4347	724-5347
1-3/4	3/4	1-1/8	3-3/8	6	724-4350	724-5350
1-3/4	3/4	2	4-1/4	6	724-4353	724-5353
1-3/4	1-1/4	2	4-1/2	6	724-4356	724-5356
1-3/4	1-1/4	4	6-1/2	6	724-4359	724-5359
2	3/4	1-1/8	3-3/8	8	724-4362	724-5362
2	3/4	2	4-1/2	8	724-4365	724-5365
2	1-1/4	2	4-1/2	3	724-4367	724-5367
2	1-1/4	2	4-1/2	8	724-4368	724-5368
2	1-1/4	4	6-1/2	3	724-4370	724-5370
2	1-1/4	4	6-1/2	8	724-4371	724-5371
2	1-1/4	6-1/8	8-5/8	8	724-4374	724-5374
2	2	2	5-3/4	8	724-4377	724-5377
2	2	3	6-3/4	6	724-4380	724-5380
2	2	3	6-3/4	8	724-4383	724-5383
2	2	4	7-3/4	6	724-4386	724-5386
2	2	4	7-3/4	8	724-4389	724-5389
2	2	5	8-3/4	8	724-4392	724-5392

M42 8% Cobalt 3 Flute Roughing End Mills For Aluminum

Coarse Pitch, Center Cutting



Size	Shank Dia.	Flute Length	Overall Length	Order No.	TiN-Coated Order No.
3/16"	3/8"	1/2"	2-3/8"	723-4403	724-6403
1/4	3/8	5/8	2-7/16	723-4406	724-6406
1/4	3/8	1-1/8	2-15/16	723-4409	724-6409
1/4	3/8	1-3/8	3-1/8	723-4412	724-6412
9/32	3/8	3/4	2-1/2	723-4415	724-6415
5/16	3/8	3/4	2-1/2	723-4418	724-6418
5/16	3/8	1-1/8	2-15/16	723-4421	724-6421
5/16	3/8	1-3/8	3-1/8	723-4424	724-6424
11/32	3/8	3/4	2-1/2	723-4427	724-6427
3/8	3/8	7/16	2-3/16	723-4430	724-6430
3/8	3/8	3/4	2-1/2	723-4433	724-6433
3/8	3/8	1-1/8	2-13/16	723-4436	724-6436
3/8	3/8	1-1/2	3-1/4	723-4439	724-6439
3/8	3/8	1-5/8	3-3/16	723-4442	724-6442
7/16	3/8	1	2-11/16	723-4445	724-6445
15/32	1/2	1-1/4	3-1/4	723-4448	724-6448
1/2	1/2	5/8	2-5/8	723-4451	724-6451
1/2	1/2	1	3	723-4454	724-6454
1/2	1/2	1-1/4	3-1/4	723-4457	724-6457
1/2	1/2	1-5/8	3-5/8	723-4460	724-6460
1/2	1/2	2	4	723-4463	724-6463
1/2	1/2	2-1/2	4-1/2	723-4466	724-6466
1/2	1/2	3	5	723-4469	724-6469
9/16	1/2	1-3/8	3-3/8	723-4472	724-6472
5/8	5/8	3/4	2-7/8	723-4475	724-6475
5/8	5/8	1-1/4	3-3/8	723-4478	724-6478
5/8	5/8	1-5/8	3-3/4	723-4481	724-6481
5/8	5/8	2	4-1/8	723-4484	724-6484
5/8	5/8	2-1/8	4-1/4	723-4487	724-6487
5/8	5/8	2-1/2	4-5/8	723-4490	724-6490
5/8	5/8	3	5-1/8	723-4493	724-6493
5/8	5/8	3-1/8	5-1/4	723-4496	724-6496
11/16	5/8	1-5/8	3-3/4	723-4499	724-6499
3/4	5/8	1-5/8	3-3/4	723-4502	724-6502
3/4	3/4	3/4	3	723-4505	724-6505
3/4	3/4	1-1/4	3-1/2	723-4508	724-6508
3/4	3/4	1-5/8	3-3/4	723-4511	724-6511
3/4	3/4	1-5/8	3-7/8	723-4514	724-6514
3/4	3/4	2	4-1/4	723-4517	724-6517
3/4	3/4	2-1/4	4-1/2	723-4520	724-6520
3/4	3/4	2-1/2	4-3/4	723-4523	724-6523
3/4	3/4	3	5-1/4	723-4526	724-6526
3/4	3/4	4	6-1/4	723-4529	724-6529
3/4	3/4	4-1/8	6-3/8	723-4532	724-6532
7/8	3/4	1-1/8	3-3/8	723-4535	724-6535
7/8	3/4	1-1/2	3-3/4	723-4538	724-6538
7/8	3/4	1-7/8	4-1/8	723-4541	724-6541
7/8	3/4	3-1/2	5-5/8	723-4544	724-6544
7/8	7/8	1-1/8	3-3/8	723-4547	724-6547
7/8	7/8	1-7/8	4-1/8	723-4550	724-6550
1	3/4	1-1/8	3-3/8	723-4553	724-6553
1	3/4	1-1/2	3-3/4	723-4556	724-6556
1	3/4	2	4-1/4	723-4559	724-6559
1	3/4	3	5-1/4	723-4562	724-6562
1	3/4	4	6-1/4	723-4565	724-6565
1	1	1-1/8	3-5/8	723-4568	724-6568
1	1	1-5/8	4-1/8	723-4571	724-6571

Size	Shank Dia.	Flute Length	Overall Length	Order No.	TiN-Coated Order No.
1	1	2	4-1/2	723-4574	724-6574
1	1	3	5-1/2	723-4577	724-6577
1	1	4	6-1/2	723-4580	724-6580
1	1	6	8-1/2	723-4583	724-6583
1-1/8	3/4	1-1/8	3-3/8	723-4586	724-6586
1-1/4	3/4	1-1/2	3-3/4	723-4589	724-6589
1-1/4	3/4	2	4-1/4	723-4592	724-6592
1-1/4	1-1/4	2	4-1/2	723-4595	724-6595
1-1/4	1-1/4	3	5-1/2	723-4598	724-6598
1-1/4	1-1/4	4	6-1/2	723-4601	724-6601
1-1/4	1-1/4	6	8-1/2	723-4604	724-6604
1-3/8	3/4	2	4-1/4	723-4607	724-6607
1-1/2	3/4	1-1/2	3-3/4	723-4610	724-6610
1-1/2	3/4	2	4-1/4	723-4613	724-6613
1-1/2	1-1/4	2	4-1/2	723-4616	724-6616
1-1/2	1-1/4	3	5-1/2	723-4619	724-6619
1-1/2	1-1/4	4	6-1/2	723-4622	724-6622
1-1/2	1-1/4	5	7-1/2	723-4625	724-6625
1-1/2	1-1/4	6	8-1/2	723-4628	724-6628
1-1/2	1-1/4	8	10-1/2	723-4631	724-6631
1-3/4	1-1/4	2	4-1/2	723-4634	724-6634
1-3/4	1-1/4	4	6-1/2	723-4637	724-6637
2	3/4	3/4	3	723-4640	724-6640
2	3/4	1-1/8	3-1/2	723-4643	724-6643
2	3/4	2	4-1/2	723-4646	724-6646
2	1-1/4	2	4-1/2	723-4649	724-6649
2	1-1/4	4	6-1/2	723-4652	724-6652
2	2	2	5-3/4	723-4655	724-6655
2	2	2	6-3/4	723-4658	724-6658
2	2	3	6-3/4	723-4661	724-6661
2	2	4	7-3/4	723-4664	724-6664
2	2	5	7-3/4	723-4667	724-6667
2	2	6	8-3/4	723-4670	724-6670
2	2	6	9-3/4	723-4673	724-6673
2	2	7	9-3/4	723-4676	724-6676
2	2	8	11-3/4	723-4679	724-6679

M42 8% Cobalt 3 Flute Stub Roughing End Mills

Center Cutting

- Offers higher rigidity than regular length.
- Allows increased feeds up to 100%.



Size	Shank Dia.	Flute Length	Overall Length	Uncoated Order No.	TiN-Coated Order No.
1/4"	3/8"	1/4"	2-1/16"	723-5205	723-6205
3/8	3/8	3/8	2-5/32	723-5210	723-6210
1/2	1/2	1/2	2-1/2	723-5215	723-6215
5/8	5/8	5/8	2-3/4	723-5220	723-6220
3/4"	3/4"	3/4"	2-7/8"	723-5225	723-6225
7/8	3/4	7/8	3-1/8	723-5230	723-6230
1	1	1	3-1/2	723-5235	723-6235

M42 8% Cobalt 3 Flute Roughing End Mills

Fine Pitch 45° For Aluminum, Center Cutting



Size	Shank Dia.	Flute Length	Overall Length	Uncoated Order No.	TiN-Coated Order No.
1/4"	3/8"	5/8"	2-7/16"	723-5304	723-6304
5/16	3/8	3/4	2-1/2	723-5308	723-6308
3/8	3/8	3/4	2-1/2	723-5312	723-6312
1/2	1/2	1-1/4	3-1/4	723-5316	723-6316
1/2	1/2	2	4	723-5320	723-6320
5/8	5/8	1-5/8	3-3/4	723-5324	723-6324
5/8	5/8	2-1/2	4-5/8	723-5328	723-6328
3/4	3/4	1-5/8	3-3/4	723-5332	723-6332
3/4	3/4	3	5-1/4	723-5336	723-6336
7/8	3/4	1-7/8	4-1/8	723-5340	723-6340
7/8	3/4	3-1/2	5-3/4	723-5344	723-6344
1	3/4	2	4-1/2	723-5348	723-6348
1	1	2	4-1/2	723-5352	723-6352
1	1	4	6-1/2	723-5356	723-6356
1-1/8	3/4	2	4-1/2	723-5360	723-6360
1-1/4	1-1/4	2	4-1/2	723-5364	723-6364
1-1/4	1-1/4	4	6-1/2	723-5368	723-6368
1-1/2	1-1/4	2	4-1/2	723-5372	723-6372
1-3/4	1-1/4	2	4-1/2	723-5376	723-6376
2	1-1/4	2	4-1/2	723-5380	723-6380
2	1-1/4	4	6-1/2	723-5384	723-6384

M42 8% Cobalt Ball Nose Roughing End Mills

- Designed for heavy cuts and high stock removal in radius bottom slots, fillets and special contours.
- Coarse pitch profile can remove metal at the same rate as conventional end mills with considerably less deflection.



Fine Pitch

Size	Shank Dia.	Flute Length	Overall Length	No. of Flute	Uncoated Order No.	TiN-Coated Order No.
3/8"	3/8"	3/4"	2-1/2"	4	724-2502	724-2702
1/2	1/2	1-1/4	3-1/4	4	724-2511	724-2711
1/2	1/2	2	4	4	724-2520	724-2720
5/8	5/8	1-5/8	3-3/4	4	724-2529	724-2729
5/8	5/8	2	4-1/8	4	724-2538	724-2738
5/8	5/8	2-1/2	4-5/8	4	724-2547	724-2747
3/4	3/4	1-5/8	3-7/8	4	724-2556	724-2756
3/4	3/4	1-3/4	4	4	724-2565	724-2765
3/4	3/4	2-1/4	4-1/2	4	724-2574	724-2774
3/4	3/4	3	5-1/4	4	724-2583	724-2783
7/8	7/8	1-7/8	4-1/8	5	724-2592	724-2792
1	1	2	4-1/2	5	724-2601	724-2801
1	1	3	5-1/2	5	724-2610	724-2810
1	1	4	6-1/2	5	724-2619	724-2819
1-1/4	1-1/4	2	4-1/2	6	724-2628	724-2828
1-1/4	1-1/4	3	5-1/2	6	724-2637	724-2837
1-1/4	1-1/4	4	6-1/2	6	724-2646	724-2846
1-1/2	1-1/4	2	4-1/2	6	724-2655	724-2855
2	2	2	5-3/4	6	724-2664	724-2864
2	2	4	6-3/4	6	724-2673	724-2873
2	2	4	9-3/4	6	724-2682	724-2882

M42 8% Cobalt 3 Flute Roughing End Mills

Coarse Pitch for Aluminum, Non Center Cutting



Size	Shank Dia.	Flute Length	Overall Length	Uncoated Order No.	TiN-Coated Order No.
3/8"	3/8"	3/4"	2-1/2"	723-7304	723-8304
3/8	3/8	7/8	2-5/8	723-7308	723-8308
1/2	1/2	1-1/4	3-1/4	723-7312	723-8312
1/2	1/2	2	4	723-7316	723-8316
5/8	5/8	1-5/8	3-3/4	723-7320	723-8320
5/8	5/8	2-1/2	4-5/8	723-7324	723-8324
3/4	3/4	1-5/8	3-7/8	723-7328	723-8328
3/4	3/4	2	4-1/4	723-7332	723-8332
3/4	3/4	3	5-1/4	723-7336	723-8336
7/8	3/4	1-7/8	4-1/8	723-7340	723-8340
1	3/4	1-1/2	3-3/4	723-7344	723-8344
1	3/4	2	4-1/4	723-7348	723-8348
1	1	2	4-1/2	723-7352	723-8352
1	1	3	5-1/2	723-7356	723-8356
1	1	4	6-1/2	723-7360	723-8360
1-1/4	3/4	1-1/2	3-3/4	723-7364	723-8364
1-1/4	3/4	2	4-1/4	723-7368	723-8368
1-1/4	1-1/4	2	4-1/2	723-7372	723-8372
1-1/4	1-1/4	3	5-1/2	723-7376	723-8376
1-1/4	1-1/4	4	6-1/2	723-7380	723-8380
1-1/2	3/4	1-1/2	3-3/4	723-7384	723-8384
1-1/2	3/4	2	4-1/2	723-7388	723-8388
1-1/2	1-1/4	2	4-1/2	723-7392	723-8392
1-1/2	1-1/4	3	5-1/2	723-7396	723-8396
2	3/4	3/4	3	723-7400	723-8400
2	1-1/4	2	4-1/2	723-7404	723-8404
2	1-1/4	4	6-1/2	723-7408	723-8408
2	2	2	5-3/4	723-7412	723-8412
2	2	4	7-3/4	723-7416	723-8416

Coarse Pitch

Size	Shank Dia.	Flute Length	Overall Length	No. Of Flute	Uncoated Order No.	TiN-Coated Order No.
1/4"	3/8"	5/8"	2-7/16"	3	723-5503	723-5603
1/4	3/8	5/8	2-1/2	3	723-5505	723-5605
5/16	3/8	3/4	2-1/2	3	723-5510	723-5610
3/8	3/8	3/4	2-1/2	4	723-5515	723-5615
1/2	1/2	1-1/4	3-1/4	4	723-5520	723-5620
1/2	1/2	2-1/2	4-1/2	4	723-5522	723-5622
5/8	5/8	1-5/8	3-3/4	4	723-5525	723-5625
5/8	5/8	2-1/2	4-5/8	4	723-5527	723-5627
3/4	3/4	1-5/8	3-7/8	4	723-5530	723-5630
3/4	3/4	1-3/4	4	4	723-5531	723-5631
3/4	3/4	3	5-1/4	4	723-5532	723-5632
1	3/4	2	4-1/2	5	723-5533	723-5633
1	1	2	4-1/2	5	723-5534	723-5634
1	1	2	4-1/2	6	723-5535	723-5635
1	1	4	6-1/2	5	723-5537	723-5637
1-1/4	3/4	2	4-1/2	6	723-5538	723-5638
1-1/4	1-1/4	2	4-1/2	6	723-5540	723-5640
1-1/4	1-1/4	4	6-1/2	6	723-5542	723-5642
1-1/2	3/4	2	4-1/2	6	723-5544	723-5644
1-1/2	1-1/4	2	4-1/2	6	723-5545	723-5645
1-1/2	1-1/2	2	4-1/2	6	723-5546	723-5646
1-1/2	1-1/2	4	6-1/2	6	723-5547	723-5647
2	2	4	7-3/4	6	723-5550	723-5650
2	1-1/4	4	7-3/4	8	723-5555	723-5655
2	2	4	7-3/4	8	723-5556	723-5656