



## REM710 - Multi Flute Single-End Non-Center Cut Roughing Cobalt End Mills



### September 2005 Pricing

Flute Dia	Shank Dia	Length of Cut	Overall Length	# F	Uncoated EDP	Uncoated List	TiN EDP	TiN List	TiCN EDP	TiCN List	TiAlN EDP	TiAlN List
3/16	3/8	1/2	2 3/8	4	71061	\$24.42	71060	\$25.65	69290	\$26.88	70941	\$26.88
1/4	3/8	5/8	2 7/16	4	71081	\$24.42	71080	\$25.65	71084	\$26.88	70942	\$26.88
1/4	3/8	1 1/8	2 15/16	4	71092	\$27.89	71093	\$29.23	70939	\$30.69	70943	\$30.69
1/4	3/8	1 1/4	3 1/16	4	71082	\$29.12	71083	\$30.58	69291	\$32.03	70944	\$32.03
5/16	3/8	3/4	2 1/2	4	71101	\$24.42	71100	\$25.65	71104	\$26.88	70945	\$26.88
5/16	3/8	1 3/8	3 1/8	4	71102	\$29.12	71103	\$30.58	69293	\$32.03	70946	\$32.03
3/8	3/8	3/4	2 1/2	4	71121	\$24.42	71120	\$25.65	71124	\$26.88	70947	\$26.88
3/8	3/8	1 3/8	3 1/8	4	71126	\$27.89	71125	\$29.23	70940	\$30.69	70948	\$30.69
3/8	3/8	1 1/2	3 1/4	4	71122	\$29.12	71123	\$30.58	69294	\$32.03	70949	\$32.03
7/16	3/8	1	2 11/16	4	71141	\$36.18	71140	\$37.97	69295	\$39.76	70950	\$39.76
1/2	1/2	1	3	4	71161	\$30.80	71166	\$32.37	79420	\$33.94	70951	\$33.94
1/2	1/2	1 1/4	3 1/4	4	71162	\$32.03	71160	\$33.60	71165	\$35.28	70952	\$35.28
1/2	1/2	1 5/8	3 5/8	4	72162	\$37.30	72160	\$39.20	79421	\$40.99	70953	\$40.99
1/2	1/2	2	4	4	71163	\$42.67	71164	\$44.80	69296	\$46.93	70954	\$46.93
1/2	1/2	2 1/2	4 1/2	4	72163	\$47.15	72164	\$49.50	79422	\$51.86	70955	\$51.86
1/2	1/2	3	5	4	72167	\$53.20	72168	\$55.89	79423	\$58.58	70956	\$58.58
9/16	1/2	1 3/8	3 3/8	4	71182	\$38.98	71180	\$40.88	69297	\$42.90	70957	\$42.90
5/8	5/8	3/4	2 7/8	4	71206	\$34.05	71207	\$35.73	79424	\$37.41	70958	\$37.41
5/8	5/8	1 1/4	3 3/8	4	71202	\$35.28	71201	\$37.07	79425	\$38.86	70959	\$38.86
5/8	5/8	1 5/8	3 3/4	4	71203	\$38.86	71200	\$40.77	71208	\$42.78	70960	\$42.78
5/8	5/8	2 1/8	4 1/4	4	72203	\$46.37	72200	\$48.72	79426	\$50.96	70961	\$50.96
5/8	5/8	2 1/2	4 5/8	4	71204	\$50.18	71205	\$52.64	69298	\$55.22	70962	\$55.22
5/8	5/8	3 1/8	5 1/4	4	72204	\$61.82	72205	\$64.96	79427	\$67.98	70963	\$67.98
11/16	5/8	1 5/8	3 3/4	4	71223	\$49.50	71220	\$51.97	79428	\$54.43	70964	\$54.43
3/4	5/8	1 5/8	3 3/4	4	71243	\$49.50	71242	\$51.97	69301	\$54.43	70965	\$54.43
3/4	3/4	3/4	3	4	72243	\$46.37	72242	\$48.72	69300	\$50.96	70966	\$50.96
3/4	3/4	1 1/4	3 1/2	4	71241	\$43.57	71246	\$45.70	79429	\$47.94	70967	\$47.94
3/4	3/4	1 1/2	3 3/4	4	72241	\$48.05	72246	\$50.40	79430	\$52.86	70968	\$52.86
3/4	3/4	1 5/8	3 7/8	4	71244	\$44.58	71240	\$46.82	71245	\$49.06	70969	\$49.06
3/4	3/4	2	4 1/4	4	71247	\$53.31	71248	\$56.00	79431	\$58.69	70970	\$58.69
3/4	3/4	2 1/2	4 3/4	4	72245	\$53.54	72247	\$56.22	79432	\$58.91	70971	\$58.91
3/4	3/4	3	5 1/4	4	72244	\$58.35	72240	\$61.26	69299	\$64.18	70972	\$64.18
3/4	3/4	4 1/8	6 3/8	4	72248	\$77.62	72249	\$81.54	79433	\$85.34	70973	\$85.34
13/16	3/4	1 7/8	4 1/8	5	71264	\$52.53	71260	\$55.10	79434	\$57.79	70974	\$57.79
7/8	3/4	1 1/8	3 3/8	5	71280	\$51.86	71287	\$54.43	79435	\$57.01	70975	\$57.01
7/8	3/4	1 1/2	3 3/4	5	71288	\$61.15	71289	\$64.18	79436	\$67.31	70976	\$67.31
7/8	3/4	1 7/8	4 1/8	5	72284	\$63.95	72280	\$67.20	69302	\$70.34	70977	\$70.34
7/8	3/4	3 1/2	5 3/4	5	71283	\$77.84	71281	\$81.76	69303	\$85.68	70978	\$85.68
7/8	7/8	1 1/8	3 3/8	5	72283	\$61.15	72281	\$64.18	79437	\$67.31	70979	\$67.31
7/8	7/8	1 7/8	4 1/8	5	71284	\$61.49	71282	\$64.51	69304	\$67.65	70980	\$67.65
7/8	7/8	3 1/2	5 3/4	5	71285	\$74.59	71286	\$78.29	69305	\$82.10	70981	\$82.10
1	3/4	3/4	3	5	71324	\$53.20	71321	\$55.89	69310	\$58.58	70982	\$58.58
1	3/4	1 1/8	3 3/8	5	72325	\$62.72	72329	\$65.86	79438	\$68.99	70983	\$68.99
1	3/4	1 1/2	3 3/4	5	72324	\$65.74	72321	\$68.99	69309	\$72.35	70984	\$72.35
1	3/4	2	4 1/4	5	71330	\$70.22	71325	\$73.70	79439	\$77.28	70985	\$77.28
1	3/4	3	5 1/4	5	72316	\$94.53	72311	\$99.23	79440	\$103.94	70986	\$103.94
1	3/4	4	6 1/4	5	72317	\$87.25	72312	\$91.62	79441	\$95.98	70987	\$95.98
1	1	1 1/8	3 5/8	5	72318	\$62.16	72313	\$65.30	79442	\$68.43	70988	\$68.43
1	1	1 5/8	4 1/8	5	72319	\$67.76	72314	\$71.12	79443	\$74.59	70989	\$74.59
1	1	2	4 1/2	5	71326	\$67.09	71320	\$70.45	71329	\$73.81	70990	\$73.81
1	1	3	5 1/2	5	71327	\$85.90	71322	\$90.16	69306	\$94.53	70991	\$94.53
1	1	4	6 1/2	5	72326	\$90.94	72320	\$95.54	69307	\$100.02	70992	\$100.02
1	1	6	8 1/2	5	72327	\$124.21	72322	\$130.37	69308	\$136.64	70993	\$136.64

**REM710 - Multi Flute Single-End Non-Center Cut Roughing Cobalt End Mills**

Continued

Flute	Shank	Length	Overall	#	Uncoated	Uncoated	TiN	TiN	TiCN	TiCN	TiAlN	TiAlN	
Dia	Dia	of Cut	Length	F	EDP	List	EDP	List	EDP	List	EDP	List	
1 1/8	3/4	1 1/8	3 3/8	6	71364	\$90.61	71361	\$95.09	79444	\$99.68	70994	\$99.68	
1 1/8	3/4	2	4 1/4	6	71365	\$95.76	71362	\$100.58	79445	\$105.39	70995	\$105.39	
1 1/8	1	2	4 1/2	6	71366	\$95.98	71360	\$100.80	69311	\$105.62	70996	\$105.62	
1 1/8	1	3 1/2	6	6	71367	\$102.03	71369	\$107.18	79446	\$112.22	70997	\$112.22	
1 1/4	3/4	3/4	3	6	71404	\$86.13	71401	\$90.38	69317	\$94.75	70998	\$94.75	
1 1/4	3/4	1 1/8	3 3/8	6	71403	\$92.18	71405	\$96.77	79447	\$101.36	70999	\$101.36	
1 1/4	3/4	1 1/2	3 3/4	6	72404	\$91.62	72401	\$96.21	69316	\$100.80	71000	\$100.80	
1 1/4	3/4	2	4 1/4	6	71406	\$95.98	71409	\$100.80	79448	\$105.62	71001	\$105.62	
1 1/4	1 1/4	1 3/8	3 7/8	6	72403	\$93.86	72405	\$98.56	79449	\$103.26	71002	\$103.26	
1 1/4	1 1/4	2	4 1/2	6	71407	\$89.04	71400	\$93.52	69312	\$98.00	71003	\$98.00	
1 1/4	1 1/4	3	5 1/2	6	71408	\$117.26	71402	\$123.09	69313	\$129.02	71004	\$129.02	
1 1/4	1 1/4	4	6 1/2	6	72407	\$131.71	72400	\$138.32	69314	\$144.93	71005	\$144.93	
1 1/4	1 1/4	6	8 1/2	6	72408	\$188.16	72402	\$197.57	69315	\$206.98	71006	\$206.98	
1 3/8	3/4	1 1/8	3 3/8	6	71444	\$95.87	71448	\$100.69	79450	\$105.50	71007	\$105.50	
1 3/8	3/4	2	4 1/4	6	72444	\$121.74	72448	\$127.79	79451	\$133.95	71008	\$133.95	
1 1/2	3/4	3/4	3	6	71484	\$90.16	71481	\$94.64	69325	\$99.23	71009	\$99.23	
1 1/2	3/4	1 1/8	3 3/8	6	71485	\$97.78	71486	\$102.70	79452	\$107.52	71010	\$107.52	
1 1/2	3/4	1 1/2	3 3/4	6	72484	\$121.18	72481	\$127.23	69324	\$133.28	71011	\$133.28	
1 1/2	3/4	2	4 1/4	6	72485	\$125.44	72486	\$131.71	79453	\$137.98	71012	\$137.98	
1 1/2	1 1/4	2	4 1/2	6	71487	\$119.17	71480	\$125.10	69318	\$131.04	71013	\$131.04	
1 1/2	1 1/4	3	5 1/2	6	71488	\$153.66	71482	\$161.39	69319	\$169.01	71014	\$169.01	
1 1/2	1 1/4	4	6 1/2	6	72487	\$171.25	72480	\$179.76	69320	\$188.38	71015	\$188.38	
1 1/2	1 1/4	5	7 1/2	6	72488	\$202.38	72483	\$212.46	69321	\$222.66	71016	\$222.66	
1 1/2	1 1/4	6	8 1/2	6	71489	\$251.55	71483	\$264.10	69322	\$276.75	71017	\$276.75	
1 1/2	1 1/4	8	10 1/2	6	72489	\$284.03	72482	\$298.26	69323	\$312.48	71018	\$312.48	
1 3/4	3/4	1 1/8	3 3/8	6	71564	\$156.02	71563	\$163.86	79454	\$171.58	71019	\$171.58	
1 3/4	3/4	2	4 1/4	6	71566	\$167.44	71565	\$175.84	79455	\$184.24	71020	\$184.24	
1 3/4	1 1/4	2	4 1/2	6	72564	\$153.66	72562	\$161.39	69326	\$169.01	71021	\$169.01	
1 3/4	1 1/2	2 1/2	5 3/8	6	72568	\$153.66	72560	\$161.39	69327	\$169.01	71022	\$169.01	
1 3/4	1 1/4	4	6 1/2	6	72574	\$191.97	72572	\$201.60	69328	\$211.12	71023	\$211.12	
1 3/4	1 1/2	4 1/2	7 3/8	6	72569	\$191.97	72561	\$201.60	69329	\$211.12	71024	\$211.12	
2	3/4	3/4	3	8	71644	\$180.21	71643	\$189.17	69330	\$198.24	71025	\$198.24	
2	3/4	1 1/8	3 3/8	8	71640	\$158.37	71641	\$166.32	79456	\$174.16	71026	\$174.16	
2	3/4	2	4 1/4	8	71642	\$177.07	71649	\$185.92	79457	\$194.77	71027	\$194.77	
2	1 1/4	2	4 1/2	8	71645	\$179.42	71646	\$188.38	69331	\$197.34	71028	\$197.34	
2	1 1/4	4	6 1/2	8	71648	\$220.19	71647	\$231.17	69332	\$242.26	71029	\$242.26	
2	1 1/4	6 1/8	8 5/8	8	72647	\$281.57	72640	\$295.68	79458	\$309.68	71030	\$309.68	
2	2	2	5 3/4	8	71323	\$200.03	71328	\$210.00	69333	\$220.08	71031	\$220.08	
2	2	3	6 3/4	8	71333	\$213.92	71338	\$224.67	69334	\$235.31	71032	\$235.31	
2	2	4	7 3/4	8	71343	\$247.07	71348	\$259.39	69335	\$271.82	71033	\$271.82	
2	2	5	8 3/4	8	71353	\$281.57	71358	\$295.68	69336	\$309.68	71034	\$309.68	
2	2	6	9 3/4	8	71363	\$305.42	71368	\$320.66	69337	\$336.00	71035	\$336.00	
2	2	7	10 3/4	8	71373	\$379.79	71378	\$398.83	69338	\$417.76	71036	\$417.76	
2	2	8	11 3/4	8	71383	\$393.23	71388	\$412.94	69339	\$432.54	71037	\$432.54	
2	2	10	13 3/4	8	71303	\$542.53	71308	\$569.63	69340	\$596.74	71038	\$596.74	
2	2	12	15 3/4	8	71304	\$647.36	71309	\$679.73	69341	\$712.10	71039	\$712.10	
2 1/2	2	4	7 3/4	8	72491	\$419.10	72490	\$440.05	69342	\$460.99	71040	\$460.99	
2 1/2	2	6	9 3/4	8	72495	\$558.88	72494	\$586.88	69343	\$614.77	71041	\$614.77	
2 1/2	2	8	11 3/4	8	72499	\$646.69	72498	\$679.06	69344	\$711.31	71042	\$711.31	
2 1/2	2	10	13 3/4	8	72503	\$761.04	72502	\$799.12	69345	\$837.20	71043	\$837.20	
2 1/2	2	12	15 3/4	8	72507	\$912.91	72506	\$958.61	69346	\$1,004.19	71044	\$1,004.19	
3	2 1/2	4	7 3/4	10	72511	\$787.81	72510	\$827.23	69347	\$866.54	71045	\$866.54	
3	2 1/2	6	9 3/4	10	72515	\$937.55	72514	\$984.48	69348	\$1,031.30	71046	\$1,031.30	
3	2 1/2	8	11 3/4	10	72519	\$1,132.32	72518	\$1,188.99	69349	\$1,245.55	71047	\$1,245.55	
3	2 1/2	10	13 3/4	10	72523	\$1,262.02	72522	\$1,325.07	69350	\$1,388.24	71048	\$1,388.24	
3	2 1/2	12	15 3/4	10	72527	\$1,301.55	72526	\$1,366.62	69351	\$1,431.70	71049	\$1,431.70	
<b>Flute Dia</b>		+0.003" -0.000 1" & under / +0.006" -0.000" over 1"										<b>Helix Angle 30°</b>	
<b>Shank Dia</b>		-0.0001"	-0.0005"		<b>Overall Length</b>		+0.062"	-0.000"	<b>Length of Cut</b>		+0.031"	-0.000"	