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COARSE PITCH COBALT ROUGHERS

DIA.	SHK	LOC	OAL	# FLUTES	Uncoated		TiAlN Coated	
					EDP	PRICE/EA	EDP	PRICE/EA
1/4	3/8	5/8	2 7/16	3	60297	\$ 14.64	60297CF	\$ 21.80
5/16	3/8	3/4	2 1/2	3	60301	\$ 14.64	60301CF	\$ 21.80
3/8	3/8	3/4	2 1/2	4	60305	\$ 14.64	60305CF	\$ 21.80
7/16	3/8	1	2 11/16	4	60312	\$ 20.42	60312CF	\$ 27.56
1/2	1/2	1 1/4	3 1/4	4	60321	\$ 20.42	60321CF	\$ 31.72
1/2	1/2	2	4	4	62321	\$ 26.27	62321CF	\$ 37.55
9/16	1/2	1 3/8	3 3/8	4	60328	\$ 24.90	60328CF	\$ 36.19
5/8	5/8	1 5/8	3 3/4	4	60337	\$ 24.90	60337CF	\$ 37.65
5/8	5/8	2 1/2	4 5/8	4	62337	\$ 35.94	62337CF	\$ 51.81
11/16	5/8	1 5/8	3 3/4	4	60348	\$ 30.95	60348CF	\$ 43.70
3/4	5/8	1 5/8	3 3/4	4	60358	\$ 30.95	60358CF	\$ 43.70
3/4	5/8	3	5 1/8	4	62358	\$ 38.71	62358CF	\$ 60.39
3/4	3/4	1 5/8	3 3/4	4	60359	\$ 30.95	60359CF	\$ 45.93
3/4	3/4	3	5 1/4	4	62359	\$ 38.71	62359CF	\$ 60.39
13/16	3/4	1 7/8	4 1/8	4	60375	\$ 39.82	60375CF	\$ 58.12
7/8	3/4	1 7/8	4 1/8	5	60391	\$ 39.82	60391CF	\$ 58.12
7/8	3/4	3 1/2	5 3/4	5	62391	\$ 47.01	62391CF	\$ 68.70
7/8	7/8	1 7/8	4 1/8	5	60394	\$ 39.82	60394CF	\$ 64.79
15/16	7/8	1 7/8	4 1/8	5	60409	\$ 44.79	60409CF	\$ 70.05
1	3/4	2	4 1/4	5	60422	\$ 44.79	60422CF	\$ 70.05
1	3/4	4	6 1/4	5	62422	\$ 60.30	62422CF	\$ 91.80
1	1	2	4 1/2	5	60426	\$ 44.79	60426CF	\$ 70.05
1	1	3	5 1/2	5	61426	\$ 55.31	61426CF	\$ 83.69
1	1	4	6 1/2	5	62426	\$ 64.28	62426CF	\$ 95.80
1 1/8	3/4	2	4 1/4	6	60431	\$ 59.13	60431CF	\$ 90.42
1 1/8	1	2	4 1/2	6	60435	\$ 59.13	60435CF	\$ 90.44
1 1/4	3/4	2	4 1/4	6	60439	\$ 68.45	60439CF	\$ 99.74
1 1/4	3/4	4	6 1/4	6	62439	\$ 92.35	62439CF	\$ 131.76
1 1/4	1 1/4	2	4 1/2	6	60445	\$ 68.45	60445CF	\$ 99.74
1 1/4	1 1/4	3	5 1/2	6	61445	\$ 82.93	61445CF	\$ 118.26
1 1/4	1 1/4	4	6 1/2	6	62445	\$ 92.35	62445CF	\$ 131.76
1 3/8	3/4	2	4 1/4	6	60449	\$ 82.14	60449CF	\$ 131.38
1 1/2	3/4	2	4 1/4	6	60457	\$ 91.68	60457CF	\$ 140.95
1 1/2	3/4	4	6 1/4	6	62457	\$ 109.63	62457CF	\$ 171.49
1 1/2	1 1/4	2	4 1/2	6	60461	\$ 91.68	60461CF	\$ 144.84
1 1/2	1 1/4	3	5 1/2	6	61461	\$ 95.67	61461CF	\$ 151.19
1 1/2	1 1/4	4	6 1/2	6	62461	\$ 109.63	62461CF	\$ 171.49
1 3/4	3/4	2	4 1/4	6	60467	\$ 113.55	60467CF	\$ 162.79
1 3/4	1 1/4	2	4 1/2	6	60469	\$ 113.55	60469CF	\$ 162.79
1 3/4	1 1/4	4	6 1/2	6	62469	\$ 143.39	62469CF	\$ 205.27
2	3/4	2	4 1/4	6	60475	\$ 132.97	60475CF	\$ 182.21
2	1 1/4	2	4 1/2	6	60477	\$ 132.97	60477CF	\$ 182.21
2	1-1/4	4	6 1/2	6	62477	\$ 169.65	62477CF	\$ 231.51
2	2	2	5 3/4	8	60480	\$ 198.00	60480CF	\$ 274.37
2	2	3	6 3/4	8	60482	\$ 212.63	60482CF	\$ 298.25
2	2	4	7 3/4	8	60484	\$ 234.57	60484CF	\$ 332.81
2	2	6	9 3/4	8	61488	\$ 261.79	61488CF	\$ 384.97
2	2	8	11 3/4	8	62490	\$ 358.16	62490CF	\$ 518.75



TOLERANCE OF MILL DIA.	
Up to 1"	Over 1"
+ .0030	+ .0060
- .0000	- .0000

► This general purpose rougher is designed for high production metal removal in a wide range of work piece material. It is recommended for cutting steel grades and many non-ferrous materials. The end tooth of this tool has a center hole design for many accurate resharpenings between centers.