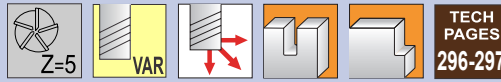


$d1$	+0.000" - .002" (+0.000mm - .050mm)
$d2$	h6
r	+0.011" - .001" (+.025 - .025mm)

.2362" - .3125"
(6.000mm - 7.938mm)



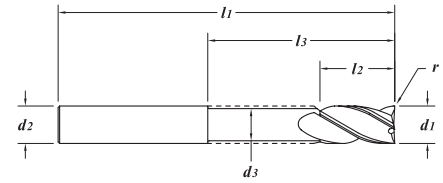
Recommended for titanium, inconel, and stainless steel

Variable Helix End Mill

AlCrN Coating

- Solid submicron grain carbide end mill - center cutting
- Engineered for High Efficiency Milling
- Staggered flutes to control harmonics
- Variable flute design helps with chip evacuation in slots and pockets
- PCT (Polish Carbide Treatment) enhances tool life
- 12mm and larger tools offered with weldon flat
- .375" and larger diameters can be modified within 48 hours

The combination of an extended flute length with a weldon flat may cause the flute washout to reach inside some end mill holders



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MATERIAL HARDNESS (Rc)

EDP#	$d1$ †		$d2$	$l1$	$l2$	r	$l3$	$d3$		
	(plain)	(weldon)							Decimal	Metric
50000	-		.2362	6.000	6.0	50	13	-	-	-
50001	-		.2362	6.000	6.0	50	13	0.5	-	-
50002	-		.2362	6.000	6.0	65	19	-	-	-
50003	-		.2362	6.000	6.0	65	19	0.5	-	-
50004	-		.2362	6.000	6.0	65	13	-	20	5.4
50005	-		.2362	6.000	6.0	65	13	0.5	20	5.4
50006	-		.2362	6.000	6.0	65	13	1.0	20	5.4
50007	-	.2500	1/4"	6.350	1/4"	2"	3/8"	-	-	-
51000	-	.2500	1/4"	6.350	1/4"	2"	3/8"	.010"	-	-
50008	-	.2500	1/4"	6.350	1/4"	2"	3/8"	.015"	-	-
51001	-	.2500	1/4"	6.350	1/4"	2"	3/8"	.020"	-	-
50009	-	.2500	1/4"	6.350	1/4"	2"	3/8"	.030"	-	-
51002	-	.2500	1/4"	6.350	1/4"	2"	1/2"	-	-	-
51003	-	.2500	1/4"	6.350	1/4"	2"	1/2"	.010"	-	-
51004	-	.2500	1/4"	6.350	1/4"	2"	1/2"	.015"	-	-
50011	-	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	-	-	-
51005	-	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	.010"	-	-
50012	-	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	.015"	-	-
50013	-	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	.020"	-	-
50014	-	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	.030"	-	-
50015	-	.2500	1/4"	6.350	1/4"	3"	1"	-	-	-
51006	-	.2500	1/4"	6.350	1/4"	3"	1"	.010"	-	-
51007	-	.2500	1/4"	6.350	1/4"	3"	1"	.015"	-	-
50016	-	.2500	1/4"	6.350	1/4"	3"	1"	.030"	-	-
50113	-	.2500	1/4"	6.350	1/4"	3"	1-1/8"	.030"	-	-
50017	-	.2500	1/4"	6.350	1/4"	4"	1/2"	.015"	1-1/4"	.235"
51008	-	.2500	1/4"	6.350	1/4"	4"	1/2"	.015"	2-1/8"	.235"
50023	-	.2756		7.000	8.0	65	22	0.2	-	-
50018	-	.3125	5/16"	7.938	5/16"	2-1/2"	13/16"	-	-	-
50019	-	.3125	5/16"	7.938	5/16"	2-1/2"	13/16"	.015"	-	-
50021	-	.3125	5/16"	7.938	5/16"	2-1/2"	13/16"	.020"	-	-
50022	-	.3125	5/16"	7.938	5/16"	2-1/2"	13/16"	.030"	-	-

EDP#	<i>d1</i> [†] Diameter	<i>d2</i> Shank Diameter	<i>l1</i> Overall Length	<i>l2</i> Flute Length	<i>r</i> Corner Radius	<i>l3</i> Reach Length	<i>d3</i> Neck Diameter	EDP#	
								(plain)	(weldon)
	Decimal	Metric							
50024	-	.3150	8.000	8.0	65	22	0.2	-	-
50025	-	.3150	8.000	8.0	65	22	0.5	-	-
50026	-	.3150	8.000	8.0	75	19	-	26	7.2
50027	-	.3150	8.000	8.0	75	19	0.5	26	7.2
50028	-	.3150	8.000	8.0	75	19	1.0	26	7.2
50029	-	.3750 3/8"	9.525	3/8"	2"	1/2"	-	-	-
50031	-	.3750 3/8"	9.525	3/8"	2"	1/2"	.015"	-	-
50032	-	.3750 3/8"	9.525	3/8"	2"	1/2"	.020"	-	-
50033	-	.3750 3/8"	9.525	3/8"	2"	1/2"	.030"	-	-
50034	-	.3750 3/8"	9.525	3/8"	2-1/2"	1"	-	-	-
50035	-	.3750 3/8"	9.525	3/8"	2-1/2"	1"	.015"	-	-
50036	-	.3750 3/8"	9.525	3/8"	2-1/2"	1"	.020"	-	-
50037	-	.3750 3/8"	9.525	3/8"	2-1/2"	1"	.030"	-	-
50038	-	.3750 3/8"	9.525	3/8"	2-1/2"	1"	.060"	-	-
51009	-	.3750 3/8"	9.525	3/8"	3"	1-1/4"	.015"	-	-
50114	-	.3750 3/8"	9.525	3/8"	3"	1-1/4"	.030"	-	-
51010	-	.3750 3/8"	9.525	3/8"	4"	1-1/2"	.015"	-	-
50039	-	.3750 3/8"	9.525	3/8"	4"	2"	-	-	-
50041	-	.3750 3/8"	9.525	3/8"	4"	2"	.030"	-	-
51011	-	.3750 3/8"	9.525	3/8"	4"	1/2"	.015"	1-1/8"	.355"
50042	-	.3750 3/8"	9.525	3/8"	4"	7/8"	.015"	1-7/8"	.355"
51012	-	.3750 3/8"	9.525	3/8"	6"	1/2"	.015"	2-1/8"	.355"
51013	-	.3750 3/8"	9.525	3/8"	6"	1/2"	.015"	3-1/8"	.355"
51014	-	.3750 3/8"	9.525	3/8"	6"	1/2"	.015"	4-1/8"	.355"
50043	-	.3937	10.000	10.0	70	22	-	-	-
51015	-	.3937	10.000	10.0	70	22	0.30	-	-
50044	-	.3937	10.000	10.0	70	22	0.50	-	-
51016	-	.3937	10.000	10.0	70	22	0.75	-	-
51017	-	.3937	10.000	10.0	70	22	1.00	-	-
50045	-	.3937	10.000	10.0	75	22	-	32	9.0
50046	-	.3937	10.000	10.0	75	22	0.50	32	9.0
NEW 51018	-	.3937	10.000	10.0	75	22	0.75	32	9.0
50047	-	.3937	10.000	10.0	75	22	1.00	32	9.0
51019	-	.4724	12.000	12.0	65	19	-	-	-
51020	-	.4724	12.000	12.0	65	19	0.50	-	-
50484	50485	.4724	12.000	12.0	75	26	-	-	-
51021	-	.4724	12.000	12.0	75	26	0.30	-	-
50486	50487	.4724	12.000	12.0	75	26	0.50	-	-
51022	-	.4724	12.000	12.0	75	26	0.75	-	-
51023	-	.4724	12.000	12.0	75	26	1.00	-	-
50112	-	.4724	12.000	12.0	75	26	2.00	-	-
50115	-	.4724	12.000	12.0	75	26	2.50	-	-
50048	50299	.4724	12.000	12.0	75	32	-	-	-
51024	-	.4724	12.000	12.0	75	32	0.30	-	-
50049	50300	.4724	12.000	12.0	75	32	0.50	-	-
51025	-	.4724	12.000	12.0	75	32	0.75	-	-
51026	-	.4724	12.000	12.0	75	32	1.00	-	-
51027	-	.4724	12.000	12.0	100	38	-	-	-
51028	-	.4724	12.000	12.0	100	38	0.50	-	-
50423	-	.4724	12.000	12.0	100	42	-	-	-
50425	-	.4724	12.000	12.0	100	42	0.30	-	-
50427	-	.4724	12.000	12.0	100	42	0.50	-	-
50429	-	.4724	12.000	12.0	100	42	1.00	-	-
50431	-	.4724	12.000	12.0	100	42	2.00	-	-
51029	-	.4724	12.000	12.0	100	52	-	-	-
51030	-	.4724	12.000	12.0	100	52	0.50	-	-
50051	50301	.4724	12.000	12.0	100	26	-	38	10.8
50052	50302	.4724	12.000	12.0	100	26	0.50	38	10.8
50053	50303	.4724	12.000	12.0	100	26	1.00	38	10.8

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MATERIAL HARDNESS (Rc)

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Series V5 (continued)

.5000"
(12.700mm)

EDP#		$d1^{\dagger}$ Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	r Corner Radius	$l3$ Reach Length	$d3$ Neck Diameter	
(plain)	(weldon)	Decimal	Metric							
50054	50304	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	-	-	-
50106	50305	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.010"	-	-
50055	50306	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.020"	-	-
50107	50307	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.030"	-	-
50056	50308	.5000	1/2"	12.700	1/2"	3"	1"	-	-	-
50108	50309	.5000	1/2"	12.700	1/2"	3"	1"	.010"	-	-
50057	50310	.5000	1/2"	12.700	1/2"	3"	1"	.020"	-	-
50109	50311	.5000	1/2"	12.700	1/2"	3"	1"	.030"	-	-
50058	50312	.5000	1/2"	12.700	1/2"	3"	1-1/4"	-	-	-
50111	50313	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.010"	-	-
50059	50314	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.015"	-	-
50061	50315	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.020"	-	-
50062	50316	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.030"	-	-
50063	50317	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.045"	-	-
50064	50318	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.060"	-	-
50065	50319	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.090"	-	-
50433	50435	.5000	1/2"	12.700	1/2"	4"	1-1/2"	.010"	-	-
51031	-	.5000	1/2"	12.700	1/2"	4"	1-1/2"	.015"	-	-
51032	-	.5000	1/2"	12.700	1/2"	4"	1-1/2"	.030"	-	-
50436	50437	.5000	1/2"	12.700	1/2"	4"	1-5/8"	-	-	-
50438	50439	.5000	1/2"	12.700	1/2"	4"	1-5/8"	.010"	-	-
50440	50441	.5000	1/2"	12.700	1/2"	4"	1-5/8"	.020"	-	-
50442	50443	.5000	1/2"	12.700	1/2"	4"	1-5/8"	.030"	-	-
50444	50445	.5000	1/2"	12.700	1/2"	4"	1-5/8"	.040"	-	-
50446	50447	.5000	1/2"	12.700	1/2"	4"	1-5/8"	.060"	-	-
50067	50321	.5000	1/2"	12.700	1/2"	4"	2-1/8"	-	-	-
51033	-	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.015"	-	-
50068	50322	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.030"	-	-
51034	-	.5000	1/2"	12.700	1/2"	6"	1"	.030"	-	-
51035	-	.5000	1/2"	12.700	1/2"	6"	3-1/8"	-	-	-
51036	-	.5000	1/2"	12.700	1/2"	6"	3-1/8"	.030"	-	-
51037	-	.5000	1/2"	12.700	1/2"	4"	5/8"	.015"	1-1/2"	.475"
51038	-	.5000	1/2"	12.700	1/2"	4"	5/8"	.015"	2-1/4"	.475"
50066	50320	.5000	1/2"	12.700	1/2"	4"	1-1/4"	.030"	2-1/4"	.475"
51039	-	.5000	1/2"	12.700	1/2"	6"	5/8"	.015"	3-3/8"	.475"
51040	-	.5000	1/2"	12.700	1/2"	6"	5/8"	.015"	4-1/8"	.475"

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MATERIAL HARDNESS (Rc)

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EDP#		$d1^{\dagger}$		$d2$	$l1$	$l2$	r	$l3$	$d3$	
(plain)	(weldon)	Decimal	Diameter	Metric	Shank Diameter	Overall Length	Flute Length	Corner Radius	Reach Length	Neck Diameter
50069	50323	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	-	-	-
51041	-	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.020"	-	-
50071	50324	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.030"	-	-
50072	50325	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.060"	-	-
50401	50402	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.120"	-	-
51042	-	.6250	5/8"	15.875	5/8"	4"	1-5/8"	-	-	-
51043	-	.6250	5/8"	15.875	5/8"	4"	1-5/8"	.030"	-	-
51044	-	.6250	5/8"	15.875	5/8"	4"	2-1/8"	-	-	-
51045	-	.6250	5/8"	15.875	5/8"	4"	2-1/8"	.030"	-	-
51046	-	.6250	5/8"	15.875	5/8"	6"	2-1/2"	.030"	-	-
50403	50404	.6250	5/8"	15.875	5/8"	6"	3-1/8"	.030"	-	-
51047	-	.6250	5/8"	15.875	5/8"	6"	3-1/8"	.060"	-	-
51048	-	.6250	5/8"	15.875	5/8"	6"	3-1/2"	.030"	-	-
51049	-	.6250	5/8"	15.875	5/8"	4"	3/4"	.030"	1-5/8"	.590"
50073	50326	.6250	5/8"	15.875	5/8"	4"	1-1/4"	.030"	2-1/4"	.590"
51050	-	.6250	5/8"	15.875	5/8"	6"	3/4"	.030"	2-3/8"	.590"
51051	-	.6250	5/8"	15.875	5/8"	6"	3/4"	.030"	3-3/8"	.590"
51052	-	.6250	5/8"	15.875	5/8"	6"	3/4"	.030"	4-1/8"	.590"
51053	-	.6299		16.000	16.0	75	19	-	-	-
51054	-	.6299		16.000	16.0	75	19	0.50	-	-
50074	50327	.6299		16.000	16.0	88	32	-	-	-
50075	50328	.6299		16.000	16.0	88	32	0.50	-	-
50420	-	.6299		16.000	16.0	88	32	1.00	-	-
51055	-	.6299		16.000	16.0	88	32	2.00	-	-
50422	-	.6299		16.000	16.0	88	32	3.00	-	-
50424	-	.6299		16.000	16.0	88	32	4.00	-	-
50430	-	.6299		16.000	16.0	100	40	0.50	-	-
50432	-	.6299		16.000	16.0	100	40	1.00	-	-
50434	-	.6299		16.000	16.0	100	40	3.00	-	-
50076	50329	.6299		16.000	16.0	100	32	-	50	14.4
50077	-	.6299		16.000	16.0	100	32	0.50	50	14.4
50426	-	.6299		16.000	16.0	100	32	1.00	50	14.4
51056	-	.6299		16.000	16.0	100	32	2.00	50	14.4
50428	-	.6299		16.000	16.0	100	32	3.00	50	14.4
50078	-	.7087		18.000	18.0	100	32	0.75	-	-

Series V5 (continued)

.7500"
(19.050mm)

MATERIAL HARDNESS (Rc)

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EDP#		$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	r Corner Radius	$l3$ Reach Length	$d3$ Neck Diameter	
(plain)	(weldon)	Decimal		Metric						
50079	50332	.7500	3/4"	19.050	3/4"	3"	7/8"	-	-	-
51103	-	.7500	3/4"	19.050	3/4"	3"	7/8"	.015"	-	-
50081	50333	.7500	3/4"	19.050	3/4"	3"	7/8"	.030"	-	-
51057	-	.7500	3/4"	19.050	3/4"	3"	7/8"	.060"	-	-
51105	-	.7500	3/4"	19.050	3/4"	3"	7/8"	.120"	-	-
51107	-	.7500	3/4"	19.050	3/4"	4"	1-1/4"	.015"	-	-
51058	-	.7500	3/4"	19.050	3/4"	4"	1-1/4"	.030"	-	-
51109	-	.7500	3/4"	19.050	3/4"	4"	1-1/4"	.060"	-	-
50082	50334	.7500	3/4"	19.050	3/4"	4"	1-1/2"	-	-	-
51111	-	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.015"	-	-
50083	50335	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.030"	-	-
50084	50336	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.060"	-	-
51059	-	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.078"	-	-
50085	50337	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.120"	-	-
51113	-	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.190"	-	-
51060	-	.7500	3/4"	19.050	3/4"	4"	1-5/8"	-	-	-
51115	-	.7500	3/4"	19.050	3/4"	4"	1-5/8"	.015"	-	-
51061	-	.7500	3/4"	19.050	3/4"	4"	1-5/8"	.030"	-	-
51119	-	.7500	3/4"	19.050	3/4"	4"	1-5/8"	.060"	-	-
51062	-	.7500	3/4"	19.050	3/4"	4"	1-3/4"	-	-	-
51121	-	.7500	3/4"	19.050	3/4"	4"	1-3/4"	.015"	-	-
51063	-	.7500	3/4"	19.050	3/4"	4"	1-3/4"	.030"	-	-
51123	-	.7500	3/4"	19.050	3/4"	4"	1-3/4"	.060"	-	-
50086	50338	.7500	3/4"	19.050	3/4"	5"	2-1/8"	-	-	-
51125	-	.7500	3/4"	19.050	3/4"	5"	2-1/8"	.015"	-	-
50087	50339	.7500	3/4"	19.050	3/4"	5"	2-1/8"	.030"	-	-
51064	-	.7500	3/4"	19.050	3/4"	5"	2-1/8"	.060"	-	-
51065	-	.7500	3/4"	19.050	3/4"	5"	2-1/8"	.120"	-	-
51127	-	.7500	3/4"	19.050	3/4"	5"	2-1/4"	.015"	-	-
51066	-	.7500	3/4"	19.050	3/4"	5"	2-1/4"	.030"	-	-
51129	-	.7500	3/4"	19.050	3/4"	5"	2-1/4"	.060"	-	-
51131	-	.7500	3/4"	19.050	3/4"	5"	2-1/2"	.015"	-	-
51067	-	.7500	3/4"	19.050	3/4"	5"	2-1/2"	.030"	-	-
51133	-	.7500	3/4"	19.050	3/4"	5"	2-1/2"	.060"	-	-
51135	-	.7500	3/4"	19.050	3/4"	5"	2-3/4"	.015"	-	-
51068	-	.7500	3/4"	19.050	3/4"	5"	2-3/4"	.030"	-	-
51137	-	.7500	3/4"	19.050	3/4"	5"	2-3/4"	.060"	-	-
50089	50341	.7500	3/4"	19.050	3/4"	6"	3-1/4"	-	-	-
51139	-	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.015"	-	-
50091	50342	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.030"	-	-
51141	-	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.060"	-	-
51143	-	.7500	3/4"	19.050	3/4"	7"	4-1/4"	.015"	-	-
51145	-	.7500	3/4"	19.050	3/4"	7"	4-1/4"	.030"	-	-
51147	-	.7500	3/4"	19.050	3/4"	7"	4-1/4"	.060"	-	-
51069	-	.7500	3/4"	19.050	3/4"	4"	1"	.030"	2"	.705"
51070	-	.7500	3/4"	19.050	3/4"	5"	1"	.030"	2-1/2"	.705"
50088	50340	.7500	3/4"	19.050	3/4"	5-1/2"	1-1/2"	.030"	3-1/4"	.705"
51071	-	.7500	3/4"	19.050	3/4"	6"	1"	.030"	4-1/8"	.705"

EDP#	<i>d1</i> [†] Diameter	<i>d2</i> Shank Diameter	<i>l1</i> Overall Length	<i>l2</i> Flute Length	<i>r</i> Corner Radius	<i>l3</i> Reach Length	<i>d3</i> Neck Diameter	EDP#	
								(plain)	(weldon)
	Decimal	Metric							
50092	50343	.7874	20.000	20.0	100	38	-	-	-
51072	-	.7874	20.000	20.0	100	38	0.50	-	-
50093	50344	.7874	20.000	20.0	100	38	0.75	-	-
51073	-	.7874	20.000	20.0	100	38	1.00	-	-
51074	-	.7874	20.000	20.0	100	38	1.50	-	-
51075	-	.7874	20.000	20.0	100	38	2.00	-	-
51076	-	.7874	20.000	20.0	100	38	3.00	-	-
51077	-	.9843	25.000	25.0	100	38	-	-	-
51078	-	.9843	25.000	25.0	100	38	0.50	-	-
NEW 51079	-	.9843	25.000	25.0	100	38	0.75	-	-
51080	-	.9843	25.000	25.0	100	38	1.50	-	-
51081	-	.9843	25.000	25.0	100	38	3.00	-	-
50094	-	1.000	1"	25.400	1"	4"	1-1/4"	-	-
50095	-	1.000	1"	25.400	1"	4"	1-1/4"	.030"	-
NEW 51082	-	1.000	1"	25.400	1"	4"	1-1/4"	.120"	-
-	50348	1.000	1"	25.400	1"	4"	1-1/2"	-	-
-	50349	1.000	1"	25.400	1"	4"	1-1/2"	.030"	-
-	50350	1.000	1"	25.400	1"	4"	1-1/2"	.060"	-
51083	-	1.000	1"	25.400	1"	4"	1-1/2"	.120"	-
NEW 50116	-	1.000	1"	25.400	1"	4"	1-1/2"	.125"	-
50097	-	1.000	1"	25.400	1"	4"	1-3/4"	-	-
50098	-	1.000	1"	25.400	1"	4"	1-3/4"	.030"	-
50099	-	1.000	1"	25.400	1"	4"	1-3/4"	.060"	-
51084	-	1.000	1"	25.400	1"	4"	1-3/4"	.120"	-
51085	-	1.000	1"	25.400	1"	4-1/2"	2"	.030"	-
51086	-	1.000	1"	25.400	1"	4-1/2"	2"	.060"	-
51087	-	1.000	1"	25.400	1"	4-1/2"	2"	.120"	-
51088	-	1.000	1"	25.400	1"	4-1/2"	2"	.250"	-
51089	-	1.000	1"	25.400	1"	5"	2-1/2"	.030"	-
51090	-	1.000	1"	25.400	1"	5"	2-5/8"	.030"	-
50104	50354	1.000	1"	25.400	1"	6"	3-1/4"	-	-
50105	-	1.000	1"	25.400	1"	6"	3-1/4"	.030"	-
51091	-	1.000	1"	25.400	1"	6"	3-3/8"	.060"	-
51092	-	1.000	1"	25.400	1"	7"	4-1/4"	.030"	-
51093	-	1.000	1"	25.400	1"	7"	4-1/4"	.060"	-
51094	-	1.000	1"	25.400	1"	5"	1-1/4"	.030"	2-5/8"
50101	-	1.000	1"	25.400	1"	5-1/2"	1-3/4"	.030"	3-1/4"
50102	50352	1.000	1"	25.400	1"	5-1/2"	1-3/4"	.060"	3-1/4"
51095	-	1.000	1"	25.400	1"	6"	1-1/4"	.030"	3-3/8"
51096	-	1.000	1"	25.400	1"	7"	1-1/4"	.030"	4-1/4"

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MATERIAL HARDNESS (Rc)