

Series TMR

.4724"
(12.000mm)



TECH
PAGES
272-273

TOLERANCES

$d1$	+0.000" - .002" (+.000mm - .050mm)
$d2$	h6
r	+0.01" - .001" (+.025mm - .025mm)

Recommended for Titanium and Steels under 40Rc

Multi-Flute End Mill - Corner Radius

AlCrN Coating

Solid submicron grain carbide end mill - non-center cutting

Engineered for Titanium

Multiple flutes for increased feed rates

Odd number of flutes to naturally break up harmonics

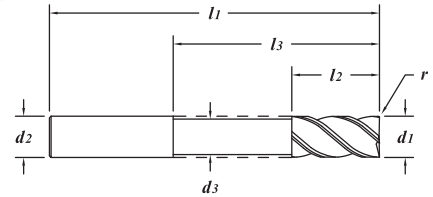
Effective for Trochoidal milling

Up to 5% Radial (ap) engagement

Can be used to finish most steels under 40Rc, as well as aluminum

Conventional grind for better finish cutting and less push off

Regrindable



MATERIAL HARDNESS (Rc)

70

35

0

EDP#	$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	Corner Radius	$l3$ Reach Length	$d3$ Neck Diameter	Number Flutes	1-11	12-24	25-49	50-100
	Decimal	Metric											
98502	.4724	12.000	12.0	75	26	0.30	-	-	7	81.54	77.99	74.45	70.90
98504	.4724	12.000	12.0	75	26	0.50	-	-	7	81.54	77.99	74.45	70.90
98506	.4724	12.000	12.0	75	26	0.75	-	-	7	81.54	77.99	74.45	70.90
98508	.4724	12.000	12.0	75	26	1.00	-	-	7	81.54	77.99	74.45	70.90
98510	.4724	12.000	12.0	75	26	1.50	-	-	7	81.54	77.99	74.45	70.90
98512	.4724	12.000	12.0	75	26	2.00	-	-	7	81.54	77.99	74.45	70.90
98514	.4724	12.000	12.0	75	26	3.00	-	-	7	81.54	77.99	74.45	70.90
98516	.4724	12.000	12.0	75	26	4.00	-	-	7	81.54	77.99	74.45	70.90
98518	.4724	12.000	12.0	75	32	0.50	-	-	7	81.54	77.99	74.45	70.90
98520	.4724	12.000	12.0	75	32	0.75	-	-	7	81.54	77.99	74.45	70.90
98522	.4724	12.000	12.0	75	32	1.00	-	-	7	81.54	77.99	74.45	70.90
98524	.4724	12.000	12.0	75	32	1.50	-	-	7	81.54	77.99	74.45	70.90
98526	.4724	12.000	12.0	75	32	2.00	-	-	7	81.54	77.99	74.45	70.90
98528	.4724	12.000	12.0	75	32	3.00	-	-	7	81.54	77.99	74.45	70.90
98530	.4724	12.000	12.0	75	32	4.00	-	-	7	81.54	77.99	74.45	70.90
98532	.4724	12.000	12.0	100	42	0.50	-	-	7	96.59	92.39	88.19	83.99
98534	.4724	12.000	12.0	100	42	0.75	-	-	7	96.59	92.39	88.19	83.99
98536	.4724	12.000	12.0	100	42	1.00	-	-	7	96.59	92.39	88.19	83.99
98538	.4724	12.000	12.0	100	42	1.50	-	-	7	96.59	92.39	88.19	83.99
98540	.4724	12.000	12.0	100	42	2.00	-	-	7	96.59	92.39	88.19	83.99
98542	.4724	12.000	12.0	100	42	3.00	-	-	7	96.59	92.39	88.19	83.99
98544	.4724	12.000	12.0	100	42	4.00	-	-	7	96.59	92.39	88.19	83.99
98546	.4724	12.000	12.0	100	52	0.50	-	-	7	96.59	92.39	88.19	83.99
98548	.4724	12.000	12.0	100	52	0.75	-	-	7	96.59	92.39	88.19	83.99
98550	.4724	12.000	12.0	100	52	1.00	-	-	7	96.59	92.39	88.19	83.99
98552	.4724	12.000	12.0	100	52	1.50	-	-	7	96.59	92.39	88.19	83.99
98554	.4724	12.000	12.0	100	52	2.00	-	-	7	96.59	92.39	88.19	83.99
98556	.4724	12.000	12.0	100	52	3.00	-	-	7	96.59	92.39	88.19	83.99
98558	.4724	12.000	12.0	100	52	4.00	-	-	7	96.59	92.39	88.19	83.99
98560	.4724	12.000	12.0	150	19	0.50	105	11.4	7	134.01	128.18	122.36	116.53
98562	.4724	12.000	12.0	150	19	0.75	105	11.4	7	134.01	128.18	122.36	116.53
98564	.4724	12.000	12.0	150	19	1.00	105	11.4	7	134.01	128.18	122.36	116.53
98566	.4724	12.000	12.0	150	19	1.50	105	11.4	7	134.01	128.18	122.36	116.53
98568	.4724	12.000	12.0	150	19	2.00	105	11.4	7	134.01	128.18	122.36	116.53
98570	.4724	12.000	12.0	150	19	3.00	105	11.4	7	134.01	128.18	122.36	116.53
98572	.4724	12.000	12.0	150	19	4.00	105	11.4	7	134.01	128.18	122.36	116.53

70

35

0

EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	r Corner Radius	l_3 Reach Length	d_3 Neck Diameter	Number Flutes	1-11	12-24	25-49	50-100	
	Decimal	Metric												
98574	.5000	1/2"	12.700	1/2"	3"	1"	.010"	-	-	7	78.22	74.82	71.42	68.02
98576	.5000	1/2"	12.700	1/2"	3"	1"	.020"	-	-	7	78.22	74.82	71.42	68.02
98578	.5000	1/2"	12.700	1/2"	3"	1"	.030"	-	-	7	78.22	74.82	71.42	68.02
98580	.5000	1/2"	12.700	1/2"	3"	1"	.060"	-	-	7	78.22	74.82	71.42	68.02
98582	.5000	1/2"	12.700	1/2"	3"	1"	.090"	-	-	7	78.22	74.82	71.42	68.02
98584	.5000	1/2"	12.700	1/2"	3"	1"	.120"	-	-	7	78.22	74.82	71.42	68.02
98586	.5000	1/2"	12.700	1/2"	3"	1"	.125"	-	-	7	78.22	74.82	71.42	68.02
98588	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.010"	-	-	7	78.22	74.82	71.42	68.02
98590	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.020"	-	-	7	78.22	74.82	71.42	68.02
98592	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.030"	-	-	7	78.22	74.82	71.42	68.02
98594	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.060"	-	-	7	78.22	74.82	71.42	68.02
98596	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.090"	-	-	7	78.22	74.82	71.42	68.02
98598	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.120"	-	-	7	78.22	74.82	71.42	68.02
98600	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.125"	-	-	7	78.22	74.82	71.42	68.02
98602	.5000	1/2"	12.700	1/2"	4"	5/8"	.010"	2-1/8"	.470"	7	95.71	91.55	87.39	83.23
98604	.5000	1/2"	12.700	1/2"	4"	5/8"	.020"	2-1/8"	.470"	7	95.71	91.55	87.39	83.23
98606	.5000	1/2"	12.700	1/2"	4"	5/8"	.030"	2-1/8"	.470"	7	95.71	91.55	87.39	83.23
98608	.5000	1/2"	12.700	1/2"	4"	5/8"	.060"	2-1/8"	.470"	7	95.71	91.55	87.39	83.23
98610	.5000	1/2"	12.700	1/2"	4"	5/8"	.120"	2-1/8"	.470"	7	95.71	91.55	87.39	83.23
98612	.5000	1/2"	12.700	1/2"	4"	5/8"	.125"	2-1/8"	.470"	7	95.71	91.55	87.39	83.23
98614	.5000	1/2"	12.700	1/2"	4"	1-1/2"	.010"	-	-	7	92.44	88.42	84.40	80.38
98616	.5000	1/2"	12.700	1/2"	4"	1-1/2"	.020"	-	-	7	92.44	88.42	84.40	80.38
98618	.5000	1/2"	12.700	1/2"	4"	1-1/2"	.030"	-	-	7	92.44	88.42	84.40	80.38
98620	.5000	1/2"	12.700	1/2"	4"	1-1/2"	.060"	-	-	7	92.44	88.42	84.40	80.38
98622	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.010"	-	-	7	92.44	88.42	84.40	80.38
98624	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.020"	-	-	7	92.44	88.42	84.40	80.38
98626	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.030"	-	-	7	92.44	88.42	84.40	80.38
98628	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.060"	-	-	7	92.44	88.42	84.40	80.38
98630	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.120"	-	-	7	92.44	88.42	84.40	80.38
98632	.5000	1/2"	12.700	1/2"	4"	2-1/8"	.125"	-	-	7	92.44	88.42	84.40	80.38
98634	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.010"	-	-	7	138.99	132.95	126.90	120.86
98636	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.020"	-	-	7	138.99	132.95	126.90	120.86
98638	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.030"	-	-	7	138.99	132.95	126.90	120.86
98640	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.060"	-	-	7	138.99	132.95	126.90	120.86
98642	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.120"	-	-	7	138.99	132.95	126.90	120.86
98644	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.125"	-	-	7	138.99	132.95	126.90	120.86
98646	.6250	5/8"	15.875	5/8"	4"	1-5/8"	.010"	-	-	7	151.08	144.51	137.94	131.37
98648	.6250	5/8"	15.875	5/8"	4"	1-5/8"	.020"	-	-	7	151.08	144.51	137.94	131.37
98650	.6250	5/8"	15.875	5/8"	4"	1-5/8"	.030"	-	-	7	151.08	144.51	137.94	131.37
98652	.6250	5/8"	15.875	5/8"	4"	1-5/8"	.060"	-	-	7	151.08	144.51	137.94	131.37
98654	.6250	5/8"	15.875	5/8"	4"	1-5/8"	.120"	-	-	7	151.08	144.51	137.94	131.37
98656	.6250	5/8"	15.875	5/8"	4"	1-5/8"	.125"	-	-	7	151.08	144.51	137.94	131.37
98658	.6250	5/8"	15.875	5/8"	6"	3-1/4"	.010"	-	-	7	207.98	198.94	189.89	180.85
98660	.6250	5/8"	15.875	5/8"	6"	3-1/4"	.020"	-	-	7	207.98	198.94	189.89	180.85
98662	.6250	5/8"	15.875	5/8"	6"	3-1/4"	.030"	-	-	7	207.98	198.94	189.89	180.85
98664	.6250	5/8"	15.875	5/8"	6"	3-1/4"	.060"	-	-	7	207.98	198.94	189.89	180.85
98666	.6250	5/8"	15.875	5/8"	6"	3-1/4"	.120"	-	-	7	207.98	198.94	189.89	180.85
98668	.6250	5/8"	15.875	5/8"	6"	3-1/4"	.125"	-	-	7	207.98	198.94	189.89	180.85
98670	.6250	5/8"	15.875	5/8"	6"	3/4"	.010"	4-1/8"	.590"	7	211.27	202.08	192.90	183.71
98672	.6250	5/8"	15.875	5/8"	6"	3/4"	.020"	4-1/8"	.590"	7	211.27	202.08	192.90	183.71
98674	.6250	5/8"	15.875	5/8"	6"	3/4"	.030"	4-1/8"	.590"	7	211.27	202.08	192.90	183.71
98676	.6250	5/8"	15.875	5/8"	6"	3/4"	.060"	4-1/8"	.590"	7	211.27	202.08	192.90	183.71
98678	.6250	5/8"	15.875	5/8"	6"	3/4"	.120"	4-1/8"	.590"	7	211.27	202.08	192.90	183.71

continued →

Series TMR (continued)

.6299" - .7500"
(16.000mm - 19.050mm)

EDP#	$d1^{\dagger}$ Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	r Corner Radius	$l3$ Reach Length	$d3$ Neck Diameter	Number Flutes	1-11	12-24	25-49	50-100
	Decimal	Metric											
98680	.6299	16.000	16.0	88	32	0.50	-	-	7	145.03	138.72	132.42	126.11
98682	.6299	16.000	16.0	88	32	0.75	-	-	7	145.03	138.72	132.42	126.11
98684	.6299	16.000	16.0	88	32	1.00	-	-	7	145.03	138.72	132.42	126.11
98686	.6299	16.000	16.0	88	32	1.50	-	-	7	145.03	138.72	132.42	126.11
98688	.6299	16.000	16.0	88	32	2.00	-	-	7	145.03	138.72	132.42	126.11
98690	.6299	16.000	16.0	88	32	3.00	-	-	7	145.03	138.72	132.42	126.11
98692	.6299	16.000	16.0	88	32	4.00	-	-	7	145.03	138.72	132.42	126.11
98694	.6299	16.000	16.0	88	32	5.00	-	-	7	145.03	138.72	132.42	126.11
98696	.6299	16.000	16.0	100	42	0.50	-	-	7	154.23	147.52	140.82	134.11
98698	.6299	16.000	16.0	100	42	0.75	-	-	7	154.23	147.52	140.82	134.11
98700	.6299	16.000	16.0	100	42	1.00	-	-	7	154.23	147.52	140.82	134.11
98702	.6299	16.000	16.0	100	42	1.50	-	-	7	154.23	147.52	140.82	134.11
98704	.6299	16.000	16.0	100	42	2.00	-	-	7	154.23	147.52	140.82	134.11
98706	.6299	16.000	16.0	100	42	3.00	-	-	7	154.23	147.52	140.82	134.11
98708	.6299	16.000	16.0	100	42	4.00	-	-	7	154.23	147.52	140.82	134.11
98710	.6299	16.000	16.0	100	42	5.00	-	-	7	154.23	147.52	140.82	134.11
98712	.6299	16.000	16.0	150	60	0.50	-	-	7	216.29	206.89	197.48	188.08
98714	.6299	16.000	16.0	150	60	0.75	-	-	7	216.29	206.89	197.48	188.08
98716	.6299	16.000	16.0	150	60	1.00	-	-	7	216.29	206.89	197.48	188.08
98718	.6299	16.000	16.0	150	60	1.50	-	-	7	216.29	206.89	197.48	188.08
98720	.6299	16.000	16.0	150	60	2.00	-	-	7	216.29	206.89	197.48	188.08
98722	.6299	16.000	16.0	150	60	3.00	-	-	7	216.29	206.89	197.48	188.08
98724	.6299	16.000	16.0	150	60	4.00	-	-	7	216.29	206.89	197.48	188.08
98726	.6299	16.000	16.0	150	60	5.00	-	-	7	216.29	206.89	197.48	188.08
98728	.6299	16.000	16.0	150	80	0.50	-	-	7	216.29	206.89	197.48	188.08
98730	.6299	16.000	16.0	150	80	0.75	-	-	7	216.29	206.89	197.48	188.08
98732	.6299	16.000	16.0	150	80	1.00	-	-	7	216.29	206.89	197.48	188.08
98734	.6299	16.000	16.0	150	80	1.50	-	-	7	216.29	206.89	197.48	188.08
98736	.6299	16.000	16.0	150	80	2.00	-	-	7	216.29	206.89	197.48	188.08
98738	.6299	16.000	16.0	150	80	3.00	-	-	7	216.29	206.89	197.48	188.08
98740	.6299	16.000	16.0	150	80	4.00	-	-	7	216.29	206.89	197.48	188.08
98742	.6299	16.000	16.0	150	80	5.00	-	-	7	216.29	206.89	197.48	188.08
98744	.6299	16.000	16.0	150	22	0.50	102	15.4	7	219.57	210.02	200.48	190.93
98746	.6299	16.000	16.0	150	22	0.75	102	15.4	7	219.57	210.02	200.48	190.93
98748	.6299	16.000	16.0	150	22	1.00	102	15.4	7	219.57	210.02	200.48	190.93
98750	.6299	16.000	16.0	150	22	1.50	102	15.4	7	219.57	210.02	200.48	190.93
98752	.6299	16.000	16.0	150	22	2.00	102	15.4	7	219.57	210.02	200.48	190.93
98754	.6299	16.000	16.0	150	22	3.00	102	15.4	7	219.57	210.02	200.48	190.93
98756	.6299	16.000	16.0	150	22	4.00	102	15.4	7	219.57	210.02	200.48	190.93
98758	.6299	16.000	16.0	150	22	5.00	102	15.4	7	219.57	210.02	200.48	190.93
98760	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.010"	-	9	207.30	198.29	189.27	180.26
98762	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.020"	-	9	207.30	198.29	189.27	180.26
98764	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.030"	-	9	207.30	198.29	189.27	180.26
98766	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.060"	-	9	207.30	198.29	189.27	180.26
98768	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.120"	-	9	207.30	198.29	189.27	180.26
98770	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.190"	-	9	207.30	198.29	189.27	180.26
98772	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.250"	-	9	207.30	198.29	189.27	180.26
98774	.7500	3/4"	19.050	3/4"	4"	1-5/8"	.010"	-	9	207.30	198.29	189.27	180.26
98776	.7500	3/4"	19.050	3/4"	4"	1-5/8"	.020"	-	9	207.30	198.29	189.27	180.26
98778	.7500	3/4"	19.050	3/4"	4"	1-5/8"	.030"	-	9	207.30	198.29	189.27	180.26
98780	.7500	3/4"	19.050	3/4"	4"	1-5/8"	.060"	-	9	207.30	198.29	189.27	180.26
98782	.7500	3/4"	19.050	3/4"	4"	1-5/8"	.120"	-	9	207.30	198.29	189.27	180.26
98784	.7500	3/4"	19.050	3/4"	4"	1-5/8"	.190"	-	9	207.30	198.29	189.27	180.26
98786	.7500	3/4"	19.050	3/4"	4"	1-5/8"	.250"	-	9	207.30	198.29	189.27	180.26

MATERIAL HARDNESS (Rc)

70

35

0

70

35

0

EDP#	$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	r Corner Radius	$l3$ Reach Length	$d3$ Neck Diameter	Number Flutes	1-11	12-24	25-49	50-100	
	Decimal	Metric												
98788	.7500	3/4"	19.050	3/4"	5"	2-1/8"	.010"	-	9	287.53	275.03	262.53	250.03	
98790	.7500	3/4"	19.050	3/4"	5"	2-1/8"	.020"	-	9	287.53	275.03	262.53	250.03	
98792	.7500	3/4"	19.050	3/4"	5"	2-1/8"	.030"	-	9	287.53	275.03	262.53	250.03	
98794	.7500	3/4"	19.050	3/4"	5"	2-1/8"	.060"	-	9	287.53	275.03	262.53	250.03	
98796	.7500	3/4"	19.050	3/4"	5"	2-1/8"	.120"	-	9	287.53	275.03	262.53	250.03	
98798	.7500	3/4"	19.050	3/4"	5"	2-1/8"	.190"	-	9	287.53	275.03	262.53	250.03	
98800	.7500	3/4"	19.050	3/4"	5"	2-1/8"	.250"	-	9	287.53	275.03	262.53	250.03	
98802	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.010"	-	9	341.54	326.69	311.84	296.99	
98804	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.020"	-	9	341.54	326.69	311.84	296.99	
98806	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.030"	-	9	341.54	326.69	311.84	296.99	
98808	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.060"	-	9	341.54	326.69	311.84	296.99	
98810	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.120"	-	9	341.54	326.69	311.84	296.99	
98812	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.190"	-	9	341.54	326.69	311.84	296.99	
98814	.7500	3/4"	19.050	3/4"	6"	3-1/4"	.250"	-	9	341.54	326.69	311.84	296.99	
98816	.7500	3/4"	19.050	3/4"	6"	1"	.010"	4-1/8"	.720"	9	344.83	329.84	314.84	299.85
98818	.7500	3/4"	19.050	3/4"	6"	1"	.020"	4-1/8"	.720"	9	344.83	329.84	314.84	299.85
98820	.7500	3/4"	19.050	3/4"	6"	1"	.030"	4-1/8"	.720"	9	344.83	329.84	314.84	299.85
98822	.7500	3/4"	19.050	3/4"	6"	1"	.060"	4-1/8"	.720"	9	344.83	329.84	314.84	299.85
98824	.7500	3/4"	19.050	3/4"	6"	1"	.120"	4-1/8"	.720"	9	344.83	329.84	314.84	299.85
98826	.7500	3/4"	19.050	3/4"	6"	1"	.190"	4-1/8"	.720"	9	344.83	329.84	314.84	299.85
98828	.7500	3/4"	19.050	3/4"	6"	1"	.250"	4-1/8"	.720"	9	344.83	329.84	314.84	299.85
98830	.7874		20.000	20.0	100	26	0.50	-	9	282.11	269.84	257.58	245.31	
98832	.7874		20.000	20.0	100	26	0.75	-	9	282.11	269.84	257.58	245.31	
98834	.7874		20.000	20.0	100	26	1.00	-	9	282.11	269.84	257.58	245.31	
98836	.7874		20.000	20.0	100	26	1.50	-	9	282.11	269.84	257.58	245.31	
98838	.7874		20.000	20.0	100	26	2.00	-	9	282.11	269.84	257.58	245.31	
98840	.7874		20.000	20.0	100	26	3.00	-	9	282.11	269.84	257.58	245.31	
98842	.7874		20.000	20.0	100	26	4.00	-	9	282.11	269.84	257.58	245.31	
98844	.7874		20.000	20.0	100	26	5.00	-	9	282.11	269.84	257.58	245.31	
98846	.7874		20.000	20.0	100	26	6.00	-	9	282.11	269.84	257.58	245.31	
98848	.7874		20.000	20.0	100	38	0.50	-	9	282.11	269.84	257.58	245.31	
98850	.7874		20.000	20.0	100	38	0.75	-	9	282.11	269.84	257.58	245.31	
98852	.7874		20.000	20.0	100	38	1.00	-	9	282.11	269.84	257.58	245.31	
98854	.7874		20.000	20.0	100	38	1.50	-	9	282.11	269.84	257.58	245.31	
98856	.7874		20.000	20.0	100	38	2.00	-	9	282.11	269.84	257.58	245.31	
98858	.7874		20.000	20.0	100	38	3.00	-	9	282.11	269.84	257.58	245.31	
98860	.7874		20.000	20.0	100	38	4.00	-	9	282.11	269.84	257.58	245.31	
98862	.7874		20.000	20.0	100	38	5.00	-	9	282.11	269.84	257.58	245.31	
98864	.7874		20.000	20.0	100	38	6.00	-	9	282.11	269.84	257.58	245.31	
98866	.7874		20.000	20.0	150	60	0.50	-	9	346.78	331.70	316.62	301.55	
98868	.7874		20.000	20.0	150	60	0.75	-	9	346.78	331.70	316.62	301.55	
98870	.7874		20.000	20.0	150	60	1.00	-	9	346.78	331.70	316.62	301.55	
98872	.7874		20.000	20.0	150	60	1.50	-	9	346.78	331.70	316.62	301.55	
98874	.7874		20.000	20.0	150	60	2.00	-	9	346.78	331.70	316.62	301.55	
98876	.7874		20.000	20.0	150	60	3.00	-	9	346.78	331.70	316.62	301.55	
98878	.7874		20.000	20.0	150	60	4.00	-	9	346.78	331.70	316.62	301.55	
98880	.7874		20.000	20.0	150	60	5.00	-	9	346.78	331.70	316.62	301.55	
98882	.7874		20.000	20.0	150	60	6.00	-	9	346.78	331.70	316.62	301.55	

continued →

Series TMR (continued)

.7874" - 1.000"
(20.000mm - 25.400mm)

MATERIAL HARDNESS (Rc)
70
35
0

EDP#	$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	r Corner Radius	$l3$ Reach Length	$d3$ Neck Diameter	Number Flutes	1-11	12-24	25-49	50-100
	Decimal	Metric											
98884	.7874	20.000	20.0	150	80	0.50	-	-	9	346.78	331.70	316.62	301.55
98886	.7874	20.000	20.0	150	80	0.75	-	-	9	346.78	331.70	316.62	301.55
98888	.7874	20.000	20.0	150	80	1.00	-	-	9	346.78	331.70	316.62	301.55
98890	.7874	20.000	20.0	150	80	1.50	-	-	9	346.78	331.70	316.62	301.55
98892	.7874	20.000	20.0	150	80	2.00	-	-	9	346.78	331.70	316.62	301.55
98894	.7874	20.000	20.0	150	80	3.00	-	-	9	346.78	331.70	316.62	301.55
98896	.7874	20.000	20.0	150	80	4.00	-	-	9	346.78	331.70	316.62	301.55
98898	.7874	20.000	20.0	150	80	5.00	-	-	9	346.78	331.70	316.62	301.55
98900	.7874	20.000	20.0	150	80	6.00	-	-	9	346.78	331.70	316.62	301.55
98902	.7874	20.000	20.0	150	26	0.50	102	19.4	9	350.06	334.84	319.62	304.40
98904	.7874	20.000	20.0	150	26	0.75	102	19.4	9	350.06	334.84	319.62	304.40
98906	.7874	20.000	20.0	150	26	1.00	102	19.4	9	350.06	334.84	319.62	304.40
98908	.7874	20.000	20.0	150	26	1.50	102	19.4	9	350.06	334.84	319.62	304.40
98910	.7874	20.000	20.0	150	26	2.00	102	19.4	9	350.06	334.84	319.62	304.40
98912	.7874	20.000	20.0	150	26	3.00	102	19.4	9	350.06	334.84	319.62	304.40
98914	.7874	20.000	20.0	150	26	4.00	102	19.4	9	350.06	334.84	319.62	304.40
98916	.7874	20.000	20.0	150	26	5.00	102	19.4	9	350.06	334.84	319.62	304.40
98918	.7874	20.000	20.0	150	26	6.00	102	19.4	9	350.06	334.84	319.62	304.40
98920	1.000	1"	25.400	1"	4"	1-1/2"	.015"	-	11	326.67	312.47	298.26	284.06
98922	1.000	1"	25.400	1"	4"	1-1/2"	.030"	-	11	326.67	312.47	298.26	284.06
98924	1.000	1"	25.400	1"	4"	1-1/2"	.060"	-	11	326.67	312.47	298.26	284.06
98926	1.000	1"	25.400	1"	4"	1-1/2"	.090"	-	11	326.67	312.47	298.26	284.06
98928	1.000	1"	25.400	1"	4"	1-1/2"	.120"	-	11	326.67	312.47	298.26	284.06
98930	1.000	1"	25.400	1"	4"	1-1/2"	.190"	-	11	326.67	312.47	298.26	284.06
98932	1.000	1"	25.400	1"	4"	1-1/2"	.250"	-	11	326.67	312.47	298.26	284.06
98934	1.000	1"	25.400	1"	5"	2-1/4"	.015"	-	11	401.94	384.46	366.99	349.51
98936	1.000	1"	25.400	1"	5"	2-1/4"	.030"	-	11	401.94	384.46	366.99	349.51
98938	1.000	1"	25.400	1"	5"	2-1/4"	.060"	-	11	401.94	384.46	366.99	349.51
98940	1.000	1"	25.400	1"	5"	2-1/4"	.090"	-	11	401.94	384.46	366.99	349.51
98942	1.000	1"	25.400	1"	5"	2-1/4"	.120"	-	11	401.94	384.46	366.99	349.51
98944	1.000	1"	25.400	1"	5"	2-1/4"	.190"	-	11	401.94	384.46	366.99	349.51
98946	1.000	1"	25.400	1"	5"	2-1/4"	.250"	-	11	401.94	384.46	366.99	349.51
98948	1.000	1"	25.400	1"	6"	3-1/4"	.030"	-	11	524.23	501.44	478.64	455.85
98950	1.000	1"	25.400	1"	6"	3-1/4"	.060"	-	11	524.23	501.44	478.64	455.85
98952	1.000	1"	25.400	1"	6"	3-1/4"	.120"	-	11	524.23	501.44	478.64	455.85
98954	1.000	1"	25.400	1"	6"	3-1/4"	.190"	-	11	524.23	501.44	478.64	455.85
98956	1.000	1"	25.400	1"	6"	3-1/4"	.250"	-	11	524.23	501.44	478.64	455.85
98958	1.000	1"	25.400	1"	7"	4-1/4"	.030"	-	11	687.31	657.43	627.54	597.66
98960	1.000	1"	25.400	1"	7"	4-1/4"	.060"	-	11	687.31	657.43	627.54	597.66
98962	1.000	1"	25.400	1"	7"	4-1/4"	.120"	-	11	687.31	657.43	627.54	597.66
98964	1.000	1"	25.400	1"	7"	4-1/4"	.190"	-	11	687.31	657.43	627.54	597.66
98966	1.000	1"	25.400	1"	7"	4-1/4"	.250"	-	11	687.31	657.43	627.54	597.66

