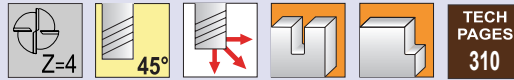


TOLERANCES

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

HIGH FEED END MILLS

Series H-45



Recommended for die mold applications

Corner Radius

AlTiN Coating

Solid submicron grain carbide end mill - center cutting

For light axial / radial depths of cut

Rigid work holding, machine stability and part integrity are critical!

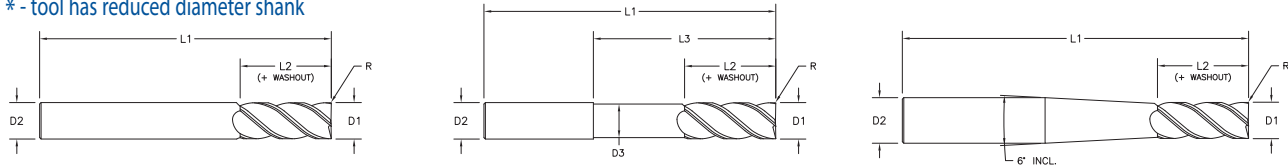
Recommended for high Rockwell materials

Modified reach lengths available within 48 hours



* - tool has 3° per side blend angle to shank

* - tool has reduced diameter shank



EDP#	$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	r Corner Radius	$l3$ Reach Length	$d3$ Neck Diameter	1-11	12-24	25-49	50-100
	Decimal	Metric										
48300	.1181	3.000	6.0	65	3	0.75	15.0	2.80	38.63	36.95	35.27	33.59
48305	.1250	3.175	1/8"	3"	1/8"	.015"	-	-	29.19	27.92	26.65	25.38
48310	.1250	3.175	1/8"	3"	1/8"	.030"	-	-	29.19	27.92	26.65	25.38
48315	.1250	3.175	3/16"	2-1/2"	1/8"	.010"	3/4"	.115"	34.29	32.80	31.31	29.82
48320	.1250	3.175	3/16"	2-1/2"	1/8"	.015"	3/4"	.115"	34.29	32.80	31.31	29.82
48325	.1250	3.175	3/16"	2-1/2"	1/8"	.020"	3/4"	.115"	34.29	32.80	31.31	29.82
* 48330	.1250	3.175	3/16"	3"	1/8"	.030"	*	-	31.29	29.93	28.57	27.21
48335	.1575	4.000	6.0	65	4	1.00	20.0	3.70	37.09	35.48	33.86	32.25
48340	.1875	4.763	3/16"	3"	3/16"	.015"	-	-	33.66	32.20	30.73	29.27
48345	.1875	4.763	3/16"	3"	3/16"	.030"	-	-	33.66	32.20	30.73	29.27
48350	.1875	4.763	3/16"	3"	3/16"	.060"	-	-	33.66	32.20	30.73	29.27
48355	.1875	4.763	1/4"	2-1/2"	3/16"	.020"	7/8"	.175"	36.02	34.45	32.89	31.32
48360	.1875	4.763	1/4"	2-1/2"	3/16"	.030"	7/8"	.175"	36.02	34.45	32.89	31.32
48365	.1875	4.763	1/4"	2-1/2"	3/16"	.060"	7/8"	.175"	36.02	34.45	32.89	31.32
48370	.1875	4.763	1/4"	4"	3/16"	.020"	1-1/2"	.175"	52.07	49.81	47.54	45.28
48375	.1875	4.763	1/4"	4"	3/16"	.030"	1-1/2"	.175"	52.07	49.81	47.54	45.28
* 48380	.1875	4.763	1/4"	4"	3/16"	.030"	*	-	52.07	49.81	47.54	45.28
* 48385	.1969	5.000	6.0	100	5	1.20	* 10.0	5.00	53.98	51.63	49.29	46.94
48390	.2362	6.000	6.0	100	6	1.50	30.0	5.70	51.20	48.97	46.75	44.52
48395	.2500	6.350	1/4"	3"	1/4"	.015"	-	-	38.89	37.20	35.51	33.82
48400	.2500	6.350	1/4"	3"	1/4"	.030"	-	-	38.89	37.20	35.51	33.82
48405	.2500	6.350	1/4"	3"	1/4"	.060"	-	-	38.89	37.20	35.51	33.82
* 48410	.2756	7.000	6.0	100	7	1.50	*	-	81.01	77.48	73.96	70.44
48415	.3125	7.938	5/16"	2-1/2"	5/16"	.020"	-	-	35.93	34.36	32.80	31.24
48420	.3125	7.938	5/16"	3"	5/16"	.078"	1-5/8"	.300"	57.34	54.85	52.35	49.86
48425	.3125	7.938	5/16"	3"	5/16"	.094"	1-5/8"	.300"	57.34	54.85	52.35	49.86
48430	.3150	8.000	8.0	75	8	2.00	-	-	51.62	49.38	47.13	44.89
48435	.3150	8.000	8.0	100	8	2.00	40.0	7.70	66.95	64.04	61.13	58.22
48440	.3750	9.525	3/8"	3"	3/8"	.015"	-	-	54.53	52.16	49.79	47.42
48445	.3750	9.525	3/8"	3"	3/8"	.030"	-	-	54.53	52.16	49.79	47.42
48450	.3750	9.525	3/8"	3"	3/8"	.060"	-	-	54.53	52.16	49.79	47.42
48455	.3750	9.525	3/8"	3"	3/8"	.094"	2.00"	.365"	62.32	59.61	56.90	54.19
48460	.3750	9.525	3/8"	4"	3/8"	.030"	2-1/2"	.365"	69.37	66.35	63.34	60.32
48465	.3750	9.525	3/8"	4"	3/8"	.094"	2-1/2"	.365"	69.37	66.35	63.34	60.32
48470	.3937	10.000	10.0	100	10	2.00	50.0	9.70	85.64	81.92	78.19	74.47
48475	.4724	12.000	12.0	100	12	3.00	60.0	11.70	95.12	90.98	86.85	82.71
48480	.5000	12.700	1/2"	3"	1/2"	.015"	-	-	70.89	67.80	64.72	61.64
48485	.5000	12.700	1/2"	3"	1/2"	.030"	-	-	70.89	67.80	64.72	61.64
48490	.5000	12.700	1/2"	3"	1/2"	.060"	-	-	70.89	67.80	64.72	61.64
48495	.5000	12.700	1/2"	3"	1/2"	.125"	-	-	70.89	67.80	64.72	61.64
48500	.5000	12.700	1/2"	4"	1/2"	.125"	-	-	83.97	80.32	76.67	73.02

70
35
0
MATERIAL HARDNESS (Rc)

HIGH PERFORMANCE
END MILLS