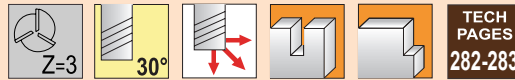


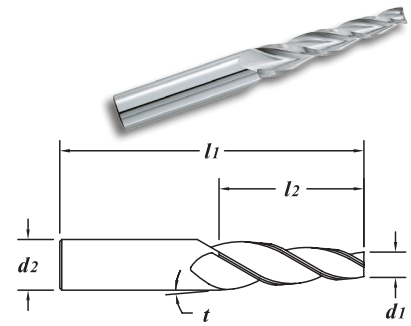
**TOLERANCES**

$d1$	$+0.003^{+0.000}$ ( $+0.075 - .000$ mm)
$d2$	$h6$



**Standard Length - Tapered - Square End**

Solid submicron grain carbide end mill - center cutting  
Excellent for holding draft angles in mold and die applications

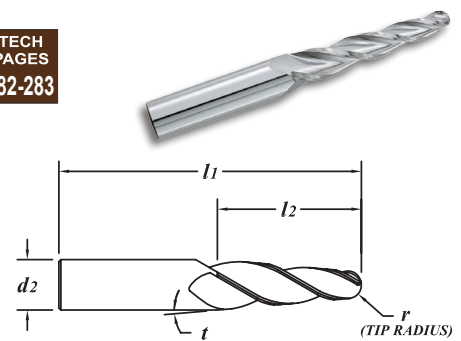


273M EDP#	$d2$ Shank Diameter	$t$ Taper Per Side	$d1$ † Tip Diameter		$l1$ Overall Length	$l2$ Flute Length	1-11	12-24	25-49	50-100	
			Decimal	Metric							
49010	1/4"	1°	.1250	1/8"	3.175	3"	1-1/2"	33.01	31.57	30.14	28.70
49020	1/4"	1° 30'	.1250	1/8"	3.175	3"	1-1/2"	33.01	31.57	30.14	28.70
49030	1/4"	2°	.1250	1/8"	3.175	3"	1"	33.01	31.57	30.14	28.70
49040	1/4"	3°	.1250	1/8"	3.175	3"	1-1/4"	33.01	31.57	30.14	28.70
49050	1/4"	5°	.1250	1/8"	3.175	3"	3/4"	33.01	31.57	30.14	28.70
49060	1/4"	7°	.1250	1/8"	3.175	3"	1/2"	33.01	31.57	30.14	28.70
49070	3/8"	1°	.1875	3/16"	4.763	3-1/2"	1-3/4"	49.58	47.42	45.27	43.11
49080	3/8"	1° 30'	.1875	3/16"	4.763	3-1/2"	1-3/4"	49.58	47.42	45.27	43.11
49090	3/8"	2°	.1875	3/16"	4.763	3-1/2"	1-3/4"	49.58	47.42	45.27	43.11
49100	3/8"	3°	.1562	5/32"	3.967	3-1/2"	1-3/4"	49.58	47.42	45.27	43.11
49110	3/8"	5°	.1250	1/8"	3.175	3-1/2"	1-1/2"	49.58	47.42	45.27	43.11
49120	3/8"	7°	.1562	5/32"	3.967	3-1/2"	1"	49.58	47.42	45.27	43.11
49130	1/2"	3°	.2500	1/4"	6.350	4"	2"	68.29	65.32	62.35	59.38
49140	1/2"	5°	.2500	1/4"	6.350	4"	1-1/2"	68.29	65.32	62.35	59.38
49150	1/2"	7°	.1875	3/16"	4.763	4"	1-5/16"	68.29	65.32	62.35	59.38



**Standard Length - Tapered - Ball End**

Solid submicron grain carbide end mill - center cutting  
Excellent for holding draft angles in mold and die applications  
Radius tolerance  $+0.003^{+0.000}$  ( $+0.075$ mm  $- .000$ mm)



373M EDP#	$d2$ Shank Diameter	$t$ Taper Per Side	$r$ † Tip Radius		$l1$ Overall Length	$l2$ Flute Length	1-11	12-24	25-49	50-100	
			Decimal	Metric							
50010	1/4"	1°	.0620	.062"	1.575	3"	1-1/2"	36.62	35.02	33.43	31.84
50020	1/4"	1° 30'	.0620	.062"	1.575	3"	1-1/2"	36.62	35.02	33.43	31.84
50030	1/4"	2°	.0620	.062"	1.575	3"	1"	36.62	35.02	33.43	31.84
50040	1/4"	3°	.0620	.062"	1.575	3"	1-1/4"	36.62	35.02	33.43	31.84
50050	1/4"	5°	.0620	.062"	1.575	3"	3/4"	36.62	35.02	33.43	31.84
50060	1/4"	7°	.0620	.062"	1.575	3"	1/2"	36.62	35.02	33.43	31.84
50070	3/8"	1°	.0930	.093"	2.362	3-1/2"	1-3/4"	55.05	52.66	50.26	47.87
50080	3/8"	1° 30'	.0930	.093"	2.362	3-1/2"	1-3/4"	55.05	52.66	50.26	47.87
50090	3/8"	2°	.0930	.093"	2.362	3-1/2"	1-3/4"	55.05	52.66	50.26	47.87
50100	3/8"	3°	.0780	.078"	1.981	3-1/2"	1-3/4"	55.05	52.66	50.26	47.87
50110	3/8"	5°	.0620	.062"	1.575	3-1/2"	1-1/2"	55.05	52.66	50.26	47.87
50120	3/8"	7°	.0780	.078"	1.981	3-1/2"	1"	55.05	52.66	50.26	47.87
50130	1/2"	3°	.1250	.125"	3.175	4"	2"	78.50	75.09	71.67	68.26
50140	1/2"	5°	.1250	.125"	3.175	4"	1-1/2"	78.50	75.09	71.67	68.26
50150	1/2"	7°	.0930	.093"	2.362	4"	1-5/16"	78.50	75.09	71.67	68.26

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MATERIAL HARDNESS (Rc)

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