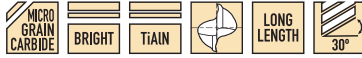


## 2-Flute Long Length Carbide End Mills

Long length end mills combine added flute and overall length for greater reach when deep slotting or milling. These end mills have the capability to mill much thicker material in a single pass, thereby eliminating the interrupted cut that may be present with regular length end mills.



Bright: Speeds & Feeds > P. A30  
TiAIN: Speeds & Feeds > P. A33

Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	Price \$	TiAIN Code No.	Price \$
<b>Inch</b>							
1/8	1/8	3/4	2-1/4	102961	13.22	102902	15.96
3/16	3/16	3/4	2-1/4	102962	16.59	102904	15.19
1/4	1/4	1-1/8	3	102963	26.07	102906	31.60
5/16	5/16	1-1/8	3	102964	37.00	102908	46.53
3/8	3/8	1-1/8	3	102965	41.64	102910	51.16
7/16	7/16	2	4	102966	54.72	102912	76.91
1/2	1/2	2	4	102967	58.20	102914	80.93
5/8	5/8	2-1/4	5	102968	119.94	102916	161.16
3/4	3/4	2-1/4	5	102969	199.09	102918	209.58
1	1	2-1/4	5	102970	373.55	102920	312.27
<b>Metric</b>							
3	3	19	57	101560	14.56	102921	16.97
4	4	19	57	101561	15.27	102923	18.37
5	5	25	64	101562	27.26	102925	33.58
6	6	28	76	101563	31.58	102927	37.92
8	8	29	76	101564	38.97	102929	48.46
10	10	32	76	101565	45.20	102931	56.01
12	12	51	102	101566	70.97	102933	84.94
14	14	57	127	101567	127.02	-	-
16	16	57	127	101568	137.93	102937	161.16
18	18	57	127	101569	207.39	102939	207.39
20	20	57	127	101570	231.46	-	-
25	25	57	127	101571	356.68	-	-

## 2-Flute Extra Long Length Carbide End Mills

Extra long length end mills combine added flute and overall length for greater reach when deep slotting or milling. These end mills have the capability to mill much thicker material in a single pass, thereby eliminating the interrupted cut that may be present with regular length end mills.



Bright: Speeds & Feeds > P. A30  
TiAIN: Speeds & Feeds > P. A33

Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	Price \$	TiAIN Code No.	Price \$
<b>Inch</b>							
1/8	1/8	1	3	102400	20.41	102500	23.68
3/16	3/16	1-1/8	3	102402	25.89	102502	30.68
1/4	1/4	1-1/2	4	102404	27.53	102504	33.99
5/16	5/16	1-5/8	4	102406	41.32	102506	53.37
3/8	3/8	1-3/4	4	102408	39.75	102508	57.81
7/16	7/16	3	6	102410	83.64	102510	103.33
1/2	1/2	3	6	102412	116.44	102512	116.44
5/8	5/8	3	6	102414	137.93	102514	161.16
3/4	3/4	3	6	102416	219.73	102516	246.59
1	1	3	6	102418	373.55	102518	408.45

### Tolerances - Inch

Size	Diameter	Shank Diameter
3/32 thru 1"	+0.000"-0.002"	+0.0000"-0.0005"

### Tolerances - Metric

Size	Diameter	Shank Diameter
1mm-25mm	+0.000mm-0.051mm	+0.000mm-0.013mm

Steel

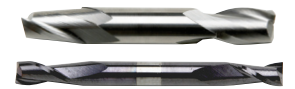
Stainless Steel

Cast Iron/Hardened

Aluminum

## 2-Flute Double End Stub Length

Double end end mills offer the same tool geometry as the single end stub end mill, but with two cutters in one tool. Economy is an added feature of this tool.



Bright: Speeds & Feeds > P. A30  
TiAIN: Speeds & Feeds > P. A33

Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	Price \$	TiAIN Code No.	Price \$
<b>Inch</b>							
1/32	1/8	5/64	1-1/2	102260	23.00	102360	27.61
1/16	1/8	1/8	1-1/2	102262	23.00	102362	27.61
3/32	1/8	3/16	1-1/2	102264	23.00	102364	27.61
1/8	1/8	1/4	1-1/2	102266	14.25	102366	18.87
5/32	3/16	5/16	2	102268	25.32	102368	29.95
3/16	3/16	3/8	2	102270	20.65	102370	25.29
7/32	1/4	1/2	2-1/2	102272	29.52	102372	39.05
1/4	1/4	1/2	2-1/2	102274	26.90	102374	36.40
5/16	5/16	1/2	2-1/2	102276	33.48	102376	47.71
3/8	3/8	1/2	2-1/2	102278	35.59	102378	49.86
7/16	7/16	9/16	2-3/4	102280	60.48	102380	76.68
1/2	1/2	5/8	3	102282	60.48	102382	76.68

## 2-Flute Double End Regular Length

With maximum chip clearance, 2-flute end mills are ideal for milling, sinking, profiling or slotting in a variety of materials.



Bright: Speeds & Feeds > P. A30  
TiAIN: Speeds & Feeds > P. A33

Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	Price \$	TiAIN Code No.	Price \$
<b>Inch</b>							
1/8	3/8	3/8	3-1/16	101300	45.11	102001	59.39
5/32	3/8	7/16	3-1/8	101301	45.11	102003	59.39
3/16	3/8	1/2	3-1/4	101302	45.11	102005	59.39
7/32	3/8	9/16	3-3/8	101303	45.11	102007	59.39
1/4	3/8	5/8	3-3/8	101304	45.11	102009	57.09
9/32	3/8	11/16	3-3/8	101305	51.85	102011	69.94
5/16	3/8	3/4	3-1/2	101306	49.85	102013	69.94
11/32	3/8	3/4	3-1/2	101307	51.85	-	-
3/8	3/8	3/4	3-1/2	101308	51.85	102017	69.94
7/16	1/2	7/8	4	101309	62.93	102019	76.91
1/2	1/2	1	4	101310	66.93	102021	80.93

## End Mill Dispenser Cabinets

- Three drawer
- All steel



Description	Model No.	Code No.	Price \$
Two flute single and double end for 1/16 to 1	CZD10	113905	1,204.05
Four flute single and double end for 1/16 to 1	CZD11	113906	1,204.05
Two and four flute single and double end for 1/8 to 1 x 8ths	CZD12	113907	293.62

## End Mill Sheath Rack

- ABS plastic
- 62 sheaths



Model	Size Range (mm)	Dimensions	Code No.	Price \$
VMS-2	06-042	205x205x80	326545	61.02