

2-Flute Double End Regular Length HSCO

Excellent tool geometry for slotting, keying and general purpose milling, plus the added economy offered by the double-end design.

- 2 helical flutes
- Centre cutting
- Double end with weldon shank

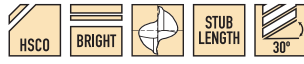


Speeds & Feeds > P. A43

Cutting Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Overall Length (in.)	Code No.	Price \$
Inch					
1/8	3/8	3/8	3-1/16	103180	32.50
5/32	3/8	7/16	3-1/8	103182	32.50
3/16	3/8	7/16	3-1/8	103184	32.50
7/32	3/8	1/2	3-1/8	103186	31.28
1/4	3/8	1/2	3-1/8	103188	32.50
9/32	3/8	9/16	3-1/8	103190	31.28
5/16	3/8	9/16	3-1/8	103192	32.50
11/32	3/8	9/16	3-1/8	103194	32.50
3/8	3/8	9/16	3-1/8	103196	31.28
13/32	1/2	9/16	3-1/8	103198	50.65
7/16	1/2	13/16	3-3/4	103200	50.65
15/32	1/2	13/16	3-3/4	103202	38.42
1/2	1/2	13/16	3-3/4	103204	50.65
9/16	5/8	1-1/8	4-1/2	103206	84.59
5/8	5/8	1-1/8	4-1/2	103208	84.55
11/16	3/4	1-5/16	5	103210	78.72
3/4	3/4	1-5/16	5	103212	99.66
1	1	1-5/8	5-7/8	103220	144.21

2-Flute Double End Stub Length Miniature HSCO

Tools under Miniature End Mills have 3/16" shank diameter without flats. Designed with positive rake angle geometry and a high helix angle to ensure free cutting action. Flute design provides good strength behind the cutting edge. Suitable for finishing of precision components such as watch, camera and electronic apparatus molds.



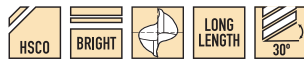
Speeds & Feeds > P. A43

Cutting Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Overall Length (in.)	Code No.	Price \$
Inch					
1/32	3/16	3/64	2	103281	24.99
3/64	3/16	1/16	2	103282	23.86
1/16	3/16	3/32	2	103283	22.67
5/64	3/16	1/8	2	103284	22.53
3/32	3/16	9/64	2	103285	24.26
7/64	3/16	5/32	2	103286	19.75
1/8	3/16	3/16	2	103288	22.67
9/64	3/16	7/32	2	103289	21.83
5/32	3/16	15/64	2	103290	24.04
11/64	3/16	1/4	2	103291	22.67
3/16	3/16	9/32	2	103292	19.75

2-Flute Double End Long Length Miniature HSCO

Longer flute length. Suitable for finishing of precision components such as watch, camera and electronic apparatus molds.

- Long length
- 2 helical flutes
- Double end with straight shank

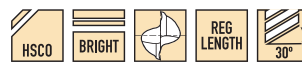


Speeds & Feeds > P. A43

Cutting Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Overall Length (in.)	Code No.	Price \$
Inch					
1/16	3/16	7/32	2-1/2	103452	24.44
5/64	3/16	1/4	2-1/2	103453	24.44
3/32	3/16	9/32	2-5/8	103454	24.44
7/64	3/16	9/32	2-5/8	103455	25.94
1/8	3/16	3/4	3-1/8	103456	25.04
9/64	3/16	3/4	3-1/8	103457	27.64
5/32	3/16	7/8	3-1/4	103458	26.04
11/64	3/16	7/8	3-1/4	103459	25.04
3/16	3/16	1	3-3/8	103460	26.04

2-Flute Double End Regular Length Miniature HSCO

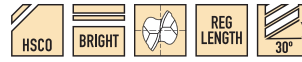
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Cutting Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Overall Length (in.)	Code No.	Price \$
Inch					
1/32	3/16	3/32	2-1/4	103441	24.99
3/64	3/16	9/64	2-1/4	103442	23.86
1/16	3/16	3/16	2-1/4	103443	22.67
5/64	3/16	15/64	2-1/4	103444	22.67
3/32	3/16	9/32	2-1/4	103445	22.67
7/64	3/16	21/64	2-1/4	103446	22.67
1/8	3/16	3/8	2-1/4	103447	22.67
9/64	3/16	13/32	2-1/4	103448	21.83
5/32	3/16	7/16	2-1/4	103449	21.83
11/64	3/16	1/2	2-1/4	103450	21.83
3/16	3/16	1/2	2-1/4	103451	22.67

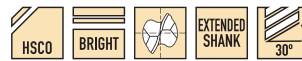
2-Flute Ball Nose Regular Length HSCO



Speeds & Feeds > P. A43

Cutting Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Overall Length (in.)	Comb. Shank Code No.	Price \$	Weldon Flat Code No.	Price \$
Inch							
1/8	3/8	3/8	2-5/16	103801	33.26	103394	30.84
3/16	3/8	1/2	2-3/8	103802	25.45	103395	30.84
1/4	3/8	5/8	2-7/16	103803	26.46	103396	30.84
5/16	3/8	3/4	2-1/2	103804	25.45	103397	33.58
3/8	3/8	3/4	2-1/2	-	-	103398	33.58
7/16	1/2	1	3	103806	36.03	103399	50.07
1/2	1/2	1	3	-	-	103400	50.17
5/8	5/8	1-3/8	3-1/2	103808	61.33	103402	73.54
3/4	3/4	1-5/8	3-7/8	103809	78.45	103404	96.93
7/8	3/4	2	4-1/4	103810	90.26	103405	133.92
1	1	2-1/4	4-3/4	103811	136.57	103406	155.02

2-Flute Ball Nose Extended Shank HSCO



Speeds & Feeds > P. A43

Cutting Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Length Below Shank	Overall Length (in.)	Comb. Shank Code No.	Price \$	Weldon Flat Code No.	Price \$
Inch								
1/8	3/8	3/8	13/16	2-3/8	103821	33.79	103410	42.90
3/16	3/8	1/2	1-1/8	2-11/16	103822	33.79	103411	42.90
1/4	3/8	5/8	1-1/2	3-1/16	103823	33.79	103412	42.90
5/16	3/8	3/4	1-3/4	3-5/16	-	-	103413	53.63
3/8	3/8	3/4	1-3/4	3-5/16	103825	33.94	103414	53.63
7/16	1/2	1	1-7/8	3-11/16	-	-	103415	68.02
1/2	1/2	1	2-1/4	4	103827	41.03	103416	70.66
5/8	5/8	1-3/8	2-3/4	4-5/8	-	-	103417	96.54
3/4	3/4	1-5/8	3-3/8	5-3/8	-	-	103418	123.12
1	1	2-1/2	5	7-1/4	103830	152.29	103419	192.94