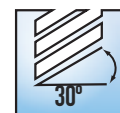
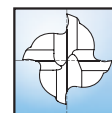


This Double End endmill has the same geometry and application design as our General Purpose Single End Mill. Four-flute configuration with center cutting permits plunging and milling on many ferrous and most non-ferrous materials, and offers lower chip-load for size control and finish.

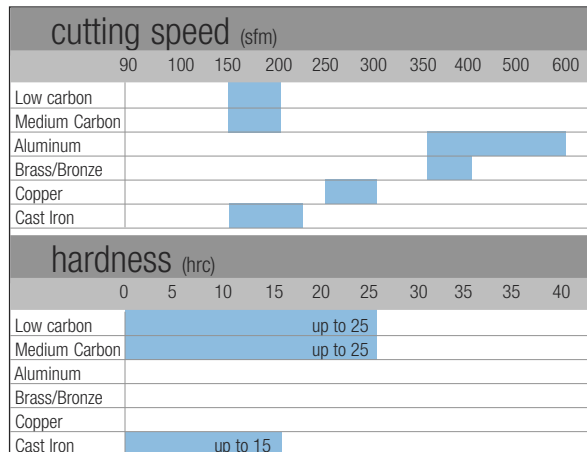
■ 4 FLUTE DOUBLE END REG. LENGTH-INCH					
Cutting Diameter (in.)	Shank Diameter (in.)	Flute Length (in.)	Overall Length (in.)	Code No.	Price \$
1/8	3/8	3/8	3-1/16	101-340	52.60
5/32	3/8	7/16	3-1/8	101-341	55.60
3/16	3/8	1/2	3-1/4	101-342	55.60
7/32	3/8	9/16	3-3/8	101-343	61.10
1/4	3/8	5/8	3-3/8	101-344	62.30
9/32	3/8	11/16	3-3/8	101-345	69.50
5/16	3/8	3/4	3-1/2	101-346	71.90
11/32	3/8	3/4	3-1/2	101-347	80.30
3/8	3/8	3/4	3-1/2	101-348	80.30
7/16	1/2	7/8	4	101-349	119.20
1/2	1/2	1	4	101-350	125.30



These end mills have a shorter flute length which provides greater rigidity with less deflection for shallow milling or slotting. This series is ideal for use on high tensile alloys and heat treated steels.

■ 4 FLUTE DOUBLE END STUB LENGTH-INCH					
Cutting Diameter (in.)	Shank Diameter (in.)	Flute Length (in.)	Overall Length (in.)	Code No.	Price \$
1/16	1/8	1/8	1-1/2	102-230	11.80
3/32	1/8	3/16	1-1/2	102-232	11.80
1/8	1/8	1/4	1-1/2	102-234	11.30
5/32	3/16	5/16	2	102-236	16.00
3/16	3/16	3/8	2	102-238	16.00
7/32	1/4	1/2	2-1/2	102-240	19.80
1/4	1/4	1/2	2-1/2	102-242	19.80
5/16	5/16	1/2	2-1/2	102-244	29.10
3/8	3/8	1/2	2-1/2	102-246	29.30
7/16	7/16	9/16	2-3/4	102-248	43.90
1/2	1/2	5/8	3	102-250	52.90

cutting conditions				
Materials				Cutting Speed (SFM)
Main Group	Sub-Group	Condition	Hardness (HRC)	
Low carbon	1018, 1010, 1035	Normalized	<25	150-200
Medium carbon	1045, 1050, 1065	Normalized	<25	150-200
Aluminum	Unalloyed, cast	-	-	350-600
Brass/bronze	-	-	-	350-400
Copper	-	-	-	250-300
Cast iron	-	As cast	<15	150-225



tolerances		
Size	Diameter	Shank Diameter
3/32 thru 1"	+ .000" - .002"	+ .0000" - .0005"

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