

# MINIATURE 2 FLUTE DOUBLE END MILLS

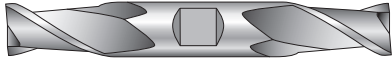
ICS USA

GENERAL PURPOSE

CENTER CUTTING

Miniature Double End Mills are small diameter (1/32" to 3/16") milling tools with a common 3/16" shank to provide rigidity when doing small diameter cutting.

## 2 Flute - Regular Length



RIGHT HAND CUT  
RIGHT HAND HELIX

## 2 Flute - Long Length



SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH	
				HSS	TIN COATED
				MDEM-2R	MDEM-2T
1/32	3/16	3/32	2-1/4	15.12	19.78
1/16	3/16	7/32	2-1/4	15.12	19.78
5/64	3/16	1/4	2-1/4	15.12	19.78
3/32	3/16	5/16	2-1/4	15.12	19.78
7/64	3/16	11/32	2-1/4	15.12	19.78
1/8	3/16	3/8	2-1/4	15.12	19.78
9/64	3/16	13/32	2-1/4	15.12	19.78
5/32	3/16	7/16	2-1/4	15.12	19.78
11/64	3/16	15/32	2-1/4	15.12	19.78
3/16	3/16	1/2	2-1/4	15.12	19.78

SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH	
				HSS	TIN COATED
				MDEM-2L	MDEM-2LT
1/16	3/16	7/32	2-1/2	17.92	22.58
5/64	3/16	1/4	2-1/2	17.92	22.58
3/32	3/16	9/32	2-5/8	17.92	22.58
7/64	3/16	9/32	2-5/8	17.92	22.58
1/8	3/16	3/4	3-1/8	17.92	23.38
9/64	3/16	3/4	3-1/8	17.92	23.38
5/32	3/16	7/8	3-1/4	17.92	23.38
11/64	3/16	7/8	3-1/4	17.92	23.38
3/16	3/16	1	3-3/8	17.92	23.38

TOLERANCES  
Flute Dia.: +.000 -.0015"  
Shank Dia.: +.0005 -.0005"

TOLERANCES  
Flute Dia.: +.0003 -.000"  
Shank Dia.: +.0005 -.0005"

# MINIATURE 4 FLUTE DOUBLE END MILLS

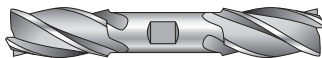
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GENERAL PURPOSE

NON-CENTER CUTTING

Miniature Double End Mills are small diameter (1/32" to 3/16") milling tools with a common 3/16" shank to provide rigidity when doing small diameter cutting.

## 4 Flute - Regular Length



RIGHT HAND CUT  
RIGHT HAND HELIX

## 4 Flute - Long Length



SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH	
				HSS	TIN COATED
				MDEM-4R	MDEM-4T
1/16	3/16	5/16	2-1/4	15.12	19.78
5/64	3/16	5/16	2-1/4	15.12	19.78
3/32	3/16	5/16	2-1/4	15.12	19.78
7/64	3/16	5/16	2-1/4	15.12	19.78
1/8	3/16	3/8	2-1/4	15.12	19.78
9/64	3/16	3/8	2-1/4	15.12	19.78
5/32	3/16	7/16	2-1/4	15.12	19.78
11/64	3/16	7/16	2-1/4	15.12	19.78
3/16	3/16	1/2	2-1/4	15.12	19.78

SIZE	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	PRICE EACH	
				HSS	TIN COATED
				MDEM-4L	MDEM-4LT
1/16	3/16	7/32	2-5/8	17.92	22.58
5/64	3/16	1/4	2-5/8	17.92	22.58
3/32	3/16	9/32	2-5/8	17.92	22.58
7/64	3/16	9/32	2-5/8	17.92	22.58
1/8	3/16	3/4	3-1/8	17.92	22.58
9/64	3/16	3/4	3-1/8	17.92	22.58
5/32	3/16	7/8	3-1/4	17.92	22.58
11/64	3/16	7/8	3-1/4	17.92	22.58
3/16	3/16	1	3-3/8	17.92	22.58

TOLERANCES  
Flute Dia.: +.0003 -.000"  
Shank Dia.: +.0005 -.0005"

TOLERANCES  
Flute Dia.: +.0003 -.000"  
Shank Dia.: +.0005 -.0005"