

# TOOLING SYSTEMS

## Erickson™ SMC Bearing Milling Chuck Sleeves • **Milling**

Erickson Bearing Milling Chuck Reduction Sleeves are specially designed for high-precision clamping of straight cylindrical cutting tool shanks. These are not self-sealing designed and rely on the back-up screws in the milling chuck for sealing coolant through the cutting tool.



# SMC

- One-piece design.
- Cutting tool shank requirement tolerance is h6.
- Maximum collapse is h6.


**ERICKSON™**

- One-piece design.
- Cutting tool must be cylindrical and have a through hole when using coolant.
- Cutting tool shank requirement tolerance is h6 and  $Ra \geq 0,3 \mu m$  (12  $\mu in$ ) surface finish.
- Maximum collapse is h6.



### ERICKSON

**20**

System Size

20 = 20mm  
25 = 25mm  
32 = 32mm  
75 = 3/4"  
10 = 1"  
12 = 1-1/4"

**SMC**

Sleeve Style

SMC = Milling Chuck

**120**

Sleeve Bore Size

metric (xx.x)  
010 = 1mm  
160 = 16mm  
245 = 24,5mm  
inch (x.xxx)  
0125 = 1/8"  
0500 = 1/2"  
1000 = 1"

**M**

Identification Value

M =  
Sleeve bore size built to metric values  
(blank) =  
Sleeve bore size built to metric values

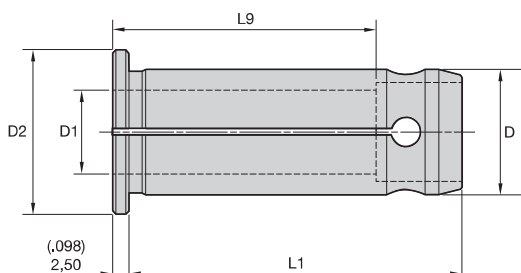


## Collets and Sleeves

### SMC Milling Chuck Sleeves



- One-piece design.
- Cutting tool must be cylindrical and have a through hole when using coolant.
- Sleeve must be inserted completely into the milling chuck until shoulder mates against the chuck front face.
- Cutting tools must be in full contact with the sleeve bore length (L9).
- Maximum collapse is h6.
- Metric and inch bores are available.



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#### ■ Metric with Metric Bores

D1	20SMC D = 20mm D2 = 25mm L1 = 50,5mm	32SMC D = 32mm D2 = 37mm L1 = 61,51mm	L9
6	20SMC060M	32SMC060M	32,0
8	20SMC080M	32SMC080M	35,0
10	20SMC100M	—	36,0
10	—	32SMC100M	38,0
12	20SMC120M	—	40,0
12	—	32SMC120M	42,5
16	20SMC160M	—	41,0
16	—	32SMC160M	47,5
20	—	32SMC200M	48,5
25	—	32SMC250M	51,5

#### ■ Inch with Metric Bores

D1	75SMC D = 19,05mm D2 = 25mm L1 = 50,5mm	10SMC D = 25,4mm D2 = 29mm L1 = 58,5mm	12SMC D = 31,75mm D2 = 37mm L1 = 61,51mm	L9
.2362	75SMC060M	10SMC060M	12SMC060M	1.260
.3150	75SMC080M	10SMC080M	12SMC080M	1.378
.3937	75SMC100M	—	—	1.417
.3937	—	—	12SMC100M	1.496
.3937	—	10SMC100M	—	1.516
.4724	75SMC120M	—	—	1.575
.4724	—	10SMC120M	12SMC120M	1.673
.5512	75SMC140M	—	—	1.614
.5512	—	10SMC140M	—	1.673
.5512	—	—	12SMC140M	1.752
.6299	75SMC160M	—	—	1.614
.6299	—	10SMC160M	12SMC160M	1.870

(continued)



(SMC Milling Chuck Sleeves continued)

D1	75SMC D = 19,05mm D2 = 25mm L1 = 50,5mm	10SMC D = 25,4mm D2 = 29mm L1 = 58,5mm	12SMC D = 31,75mm D2 = 37mm L1 = 61,51mm	L9
.7087	—	—	12SMC180M	1.870
.7087	—	10SMC180M	—	1.909
.7874	—	10SMC200M	12SMC200M	1.909
.8661	—	—	12SMC220M	1.949
.9843	—	—	12SMC250M	2.028

### ■ Inch with Inch Bores

D1	75SMC D = .750 D2 = .984 L1 = 1.988	10SMC D = 1.000 D2 = 1.142 L1 = 2.303	12SMC D = 1.250 D2 = 1.457 L1 = 2.422	L9
1/8	75SMC0125	10SMC0125	12SMC0125	.709
3/16	75SMC0188	10SMC0188	12SMC0188	.984
1/4	75SMC0250	10SMC0250	12SMC0250	1.260
5/16	75SMC0312	10SMC0312	12SMC0312	1.378
3/8	75SMC0375	—	—	1.417
3/8	—	—	12SMC0375	1.496
3/8	—	10SMC0375	—	1.516
7/16	75SMC0438	10SMC0438	12SMC0438	1.575
1/2	75SMC0500	—	—	1.575
1/2	—	10SMC0500	12SMC0500	1.673
9/16	75SMC0563	—	—	1.614
9/16	—	10SMC0563	—	1.673
9/16	—	—	12SMC0563	1.752
5/8	75SMC0625	—	—	1.614
5/8	—	10SMC0625	12SMC0625	1.870
3/4	—	10SMC0750	12SMC0750	1.909
7/8	—	10SMC0875	—	1.909
7/8	—	—	12SMC0875	1.949
1	—	—	12SMC1000	2.028