

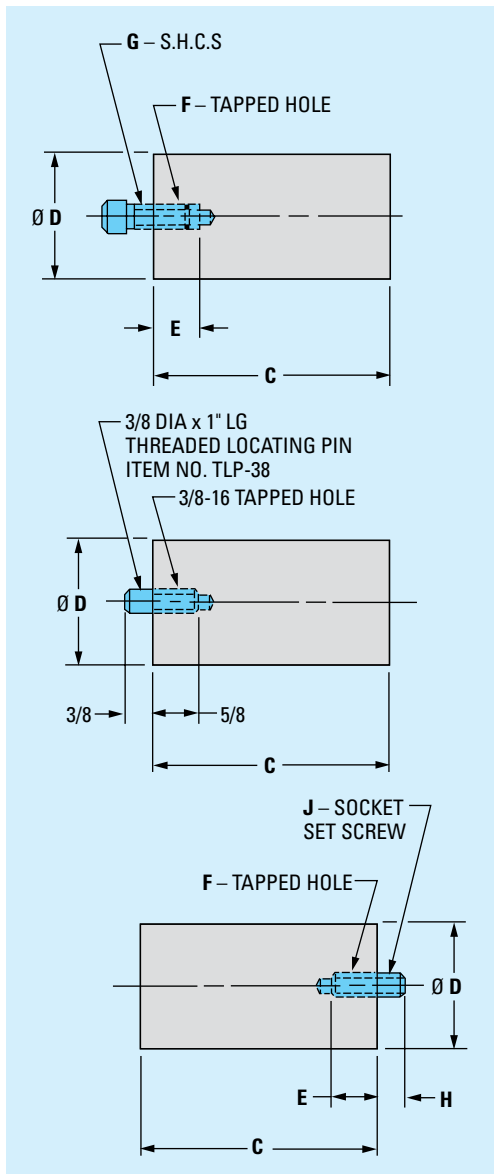
# Support Pillars and Stop Pins

## Support Pillars

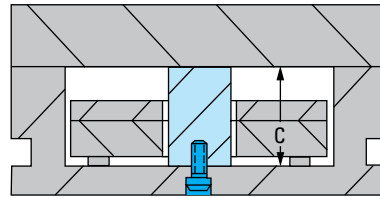
### S.A.E. 1040 Steel

Pillar height (C dimension) is finished flat and parallel.

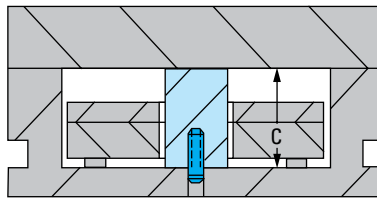
Support pillars should be used liberally since they greatly increase the capacity of the mold to support the projected area of the cavities, runner and sprue. By providing additional support, they prevent deflection of the mold. The absolute necessity of using support pillars is demonstrated by using standard strength of materials formulas. For example, an 11<sup>7</sup>/<sub>8</sub> x 15" mold base without support pillars and with a maximum permissible load on the support plate, will permit 14 square inches of cavity area without deflecting enough to cause flash. The use of one row of support pillars on center will quadruple this permissible cavity area to 56 square inches. Two rows will give nine times the area or 126 square inches. Please refer to the drawings below.



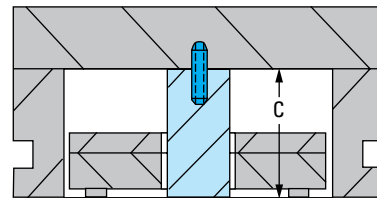
### Cap Screw Application



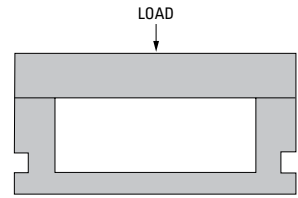
### Threaded Locating Pin Application



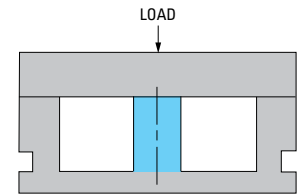
### Socket Set Screw Application



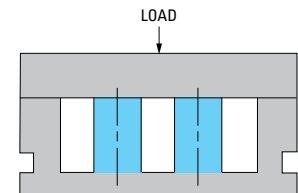
### No support pillars



### One row of support pillars increases the permissible cavity area 4 times



### Two rows of support pillars increase the permissible cavity area 9 times

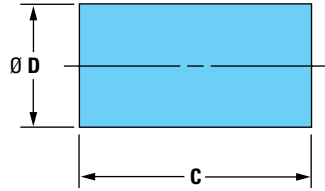


Material: S.A.E. 1040 Steel

Ø D	E	F	H (APPROX)	J SOCKET SET SCREW
1", 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>1</sup> / <sub>2</sub> , 2"	5/8	3/8-16	1/2	ITEM NO. SSS-38114
3", 4"	1 <sup>1</sup> / <sub>4</sub>	5/8-11	3/8	ITEM NO. SSS-582

NOTE: Order S.H.C.S. separately.

# Support Pillars and Stop Pins



## Support Pillars

Support pillars are universally adaptable for cap screw, threaded locating pin, or socket set screw applications.

Order pillars from chart at left and required "fasteners" as listed below.

## Cap Screw (S.H.C.S.) Applications

3/8-16 or 5/8-11 socket head cap screws can be ordered in length required.

## Threaded Locating Pin Applications

Locating pins unavailable for 3" and 4" diameter pillars.

Ø D PILLAR	ITEM NUMBER
1" to 2"	TLP-38

## Socket Set Screw Applications

Order pins and screws in package lots only.

Ø D PILLAR	ITEM NUMBER	QTY PER PACKAGE
1" to 2"	SSS-38114	10
3" and 4"	SSS-582	5

**QUANTITY DISCOUNTS:**  
 Support Pillars. Discounts apply to current Net Prices. Sizes may be mixed for quantity discounts.  
 9 to 16 Less 10%;  
 17 or more Less 20%

Material: S.A.E. 1040 Steel

Ø D <sup>+0.00</sup> <sub>-.060</sub> DIAMETER	C <sup>+0.001</sup> <sub>-.000</sub> HEIGHT	ITEM NUMBER
1"	2.500	6090
	3.000	6091
	3.500	6092
	4.000	6093
	4.500	6094
1 1/4"	2.500	6130
	3.000	6131
	3.500	6132
	4.000	6133
	4.500	6134
	5.000	6135
1 1/2"	2.500	6140
	3.000	6141
	3.500	6142
	4.000	6143
	4.500	6144
	5.000	6145
2"	6.000	6146
	2.500	6150
	3.000	6151
	3.500	6152
	4.000	6153
	4.500	6154
3"	5.000	6155
	6.000	6156
	8.000	6235
	6.000	6236
4"	8.000	6238
	5.000	6245
	6.000	6246
	8.000	6248

## Stop Pins

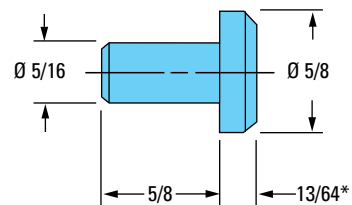
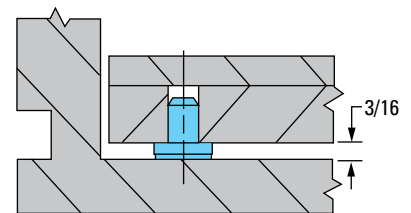
Although every D-M-E Mold Base assembly has flat stop pins welded to the underside of the ejector plate, many moldmakers require these dowel-type Stop Pins for special assemblies.



Order pins in package lots only.

ITEM NUMBER	QTY PER PACKAGE
7100	50

## Typical Installation



\*Head thickness .020 oversize to permit fitting at assembly.