Support Pillars and Stop Pins

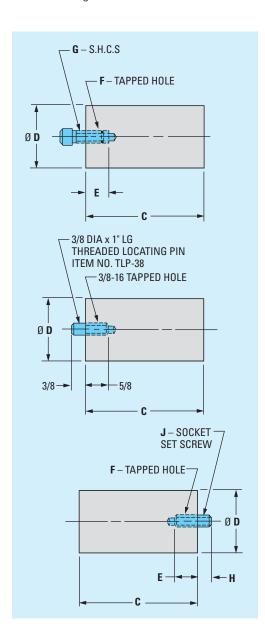
Support Pillars

S.A.E. 1040 Steel

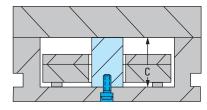
Pillar height (C dimension) is finished flat and parallel.

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 $117/8 \times 15^{\circ}$ 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.

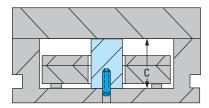




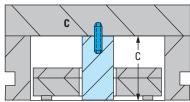
Cap Screw Application



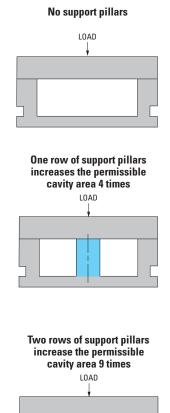
Threaded Locating Pin Application



Socket Set Screw Application



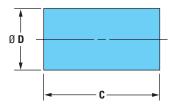
Material: S.A.E. 1040 Steel



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

NOTES: Order S.H.C.S. separately.
Please reference page 292 for Socket Head Cap Screw information.

Support Pillars and Stop Pins



Material: S.A.E. 1040 Steel

Ø D +.000 060 DIAMETER	C +.001 +.000 HEIGHT	ITEM NUMBER
1"	2.500	6090
	3.000	6091
	3.500	6092
	4.000	6093
	4.500	6094
11/4	2.500	6130
	3.000	6131
	3.500	6132
	4.000	6133
	4.500	6134
	5.000	6135
	6.000	6136
	2.500	6140
	3.000	6141
	3.500	6142
11/2	4.000	6143
	4.500	6144
	5.000	6145
	6.000	6146
	2.500	6150
	3.000	6151
	3.500	6152
2"	4.000	6153
	4.500	6154
	5.000	6155
	6.000	6156
	5.000	6235
3"	6.000	6236
	8.000	6238
	5.000	6245
4"	6.000	6246
	8.000	6248

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. Please reference page 292 for Socket Head Cap Screw information.

Threaded Locating Pin Applications

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

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

Socket Set Screw Applications

Order pins and screws in package lots only.

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

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.

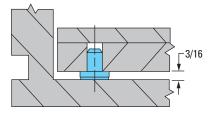


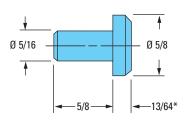


Order pins in package lots only.

ITEM	QTY PER	
NUMBER	PACKAGE	
7100	50	

Typical Installation





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