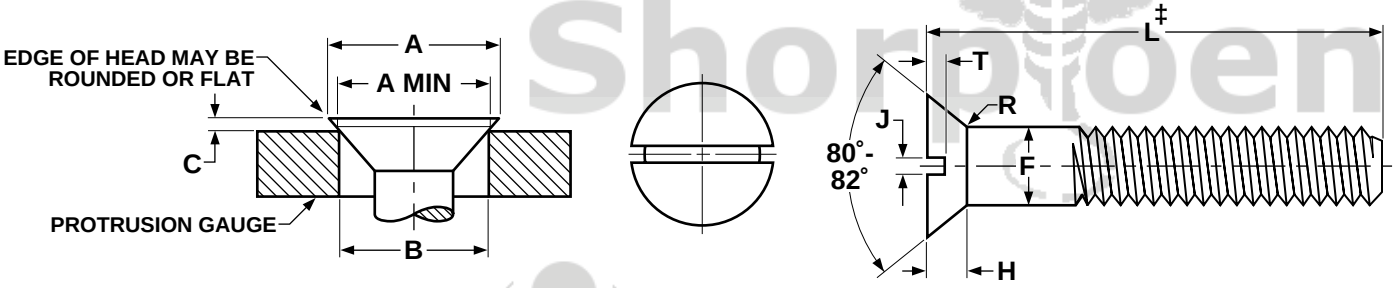
Slotted Flat Cap Screws



‡Length of a slotted flat cap screw is measured from the top of the head to the extreme end of the screw.

Slotted Flat Countersunk Head Cap Screws

ANSI B18.6.2

Nominal Size or Basic Screw Diameter		F		A		H	J		T		R	C		B
		Body Diameter		Head Diameter		Head Height	Slot Width		Slot Depth		Fillet Radius	Protrusion Above Gaging Diameter		Gaging Diameter
		Max	Min	Max, Edge Sharp	Min,Edge Rounded or Flat	Ref	Max	Min	Max	Min	Max	Max	Min	
1/2	0.5000	0.5000	0.4930	0.875	0.791	0.210	0.106	0.091	0.103	0.068	0.200	0.071	0.049	0.756
5/8	0.6250	0.6250	0.6170	1.125	1.020	0.281	0.133	0.116	0.137	0.091	0.250	0.085	0.058	0.982
3/4	0.7500	0.7500	0.7420	1.375	1.251	0.352	0.149	0.131	0.171	0.115	0.300	0.099	0.068	1.208

Tolerance on Length	Nominal Screw Size	Nominal Screw Length		
		Up to 1 in., incl.	Over 1 to 2-1/2 in., incl.	Over 2-1/2 to 6 in., incl.
	1/2 thru 3/4	-0.03	-0.06	-0.08

Description	Flat, countersunk screw with a flat top surface, milled slot, and a conical bearing surface with a head angle of 82°.
Applications/ Advantages	For assembling close tolerance machinery where head clearance is critical.
Material	AISI 1006 - 1050 or equivalent steel.
Core Hardness	1/2 through 3/4 in. diameter, all lengths: Rockwell B80 - B100
Proof Load	1/2 through 3/4 in. diameter, all lengths: 55,000 psi.
Tensile Strength	1/2 through 3/4 in. diameter, all lengths: 74,000 psi. minimum
Thread Length	The length of full-form thread shall be equal to twice the basic screw diameter plus 0.250 in. with a tolerance of +0.188 in..
Plating	See Appendix-A for plating information.