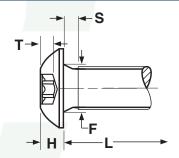
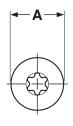
METRIC FASTENERS

SOCKETS, SIX-LOBE

ISO 7380-1 TX Six-Lobe





METRIC - Six-Lobe ISO 7380 Button Head Cap Screws ISO 7380										ISO 7380
		Α		Н		Т	S		F	
Nominal Size	Thread Pitch		Head Head Height		Recess Penetration	Unthreaded Section Under the Head		Fillet Transition Diameter	Six-Lobe Recess Size	
		Max	Min	Max	Min	Min	Max	Min	Max	1 1
M3	0.5	5.7	5.4	1.65	1.40	1.01	1.0	0.5	3.6	T10
M4	0.7	7.60	7.24	2.20	1.95	1.27	1.4	0.7	4.7	T20
M5	0.8	9.50	9.14	2.75	2.50	1.52	1.6	0.8	5.7	T25
M6	1	10.50	10.07	3.3	3.0	2.02	2	1	6.8	T30
M8	1.25	14.00	13.57	4.4	4.1	2.85	2.50	1.25	9.2	T40
Toler	Tolerance on Length			n: ±.24	8-10mm: ±.29	12-16mm: ± .35	20-30mm: ±.42		35-50mm: ±.5	

Description	ription Has a similar thread design as a metric socket cap screw but is fully threaded to the head. The dome shaped head is wider and has a low than a socket cap screw and has a six-lobed recess.					
Applications/ Advantages	Used when a wider bearing surface or a smoother, more finished appearance is desired, or in material too thin to accomodate a countersunk head. Button head screws do not afford the strength of socket head cap screws due to their head geometry and are designed for light fastening applications.					
	Class 10.9 Steel	Stainless				
Material	May be made from a steel, which conforms to any of the following chemical composition requirements <u>Carbon Steel:</u> <i>Carbon</i> : 0.25-0.55%; <i>Phosphorous</i> : 0.035% maximum; <i>Sulfur</i> : 0.035% maximum. <u>Carbon Steel with additives such as Boron, Manganese or Chromium:</u> <i>Carbon</i> : 0.20-0.55%; <i>Phosphorous</i> : 0.035% max; <i>Sulfur</i> : 0.035% max. <u>Alloy steel which contains one or more of the following: Chromium,</u>	A2 Class 50 Stainless Steel				
	Nickel, Molybdenum or Vanadium: Carbon: 0.20-0.55%; Phosphorous: 0.035% max; Sulfur: 0.035% max.					
Heat Treatment	Class 10.9 button head screws shall be heat treated by quenching in oil from above the transformation temperature and reheating to a tempering temperature of 425°C minimum.	-				
Hardness	Rockwell C 32 - 39 (Vickers HV 320 - 380)	-				
Tensile Strength	1,040 N/mm² minimum	600 N/mm²				
Proof Load	940 N/mm² minimum	450 N/mm²				
Plating	Screws are usually provided with a zinc finish.	Stainless screws are provided with a plain finish.				