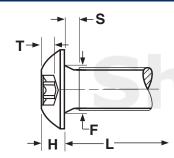
## **SOCKETS, SIX-LOBE**

## ISO 7380-1 TX Six-Lobe





METRIC - Six-Lobe ISO 7380 Button Head Cap Screws ISO 7380										
	Thread Pitch	A Head Diameter		H Head Height		Т	S Unthreaded Section Under the Head		F Fillet Transition Diameter	Six-Lobe Recess Size
Nominal Size						Recess Penetration				
		Max	Min	Max	Min	Min	Max	Min	Max	]
МЗ	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 6mm				m: ±.24 8-10mm: ±.29		20-30mm: ±.42		35-50mm: ±.5	

Description	cription  Has a similar thread design as a metric socket cap screw but is fully threaded to the head. The dome shaped head is with 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				
	May be made from a steel, which conforms to any of the following chemical composition requirements <u>Carbon Steel:</u> Carbon: 0.25-0.55%; Phosphorous: 0.035% maximum;  Sulfur: 0.035% maximum.					
Material	Carbon Steel with additives such as Boron, Manganese or Chromium: Carbon: 0.20-0.55%; Phosphorous: 0.035% max; Sulfur: 0.035% max.	A2 Class 50 Stainless Steel				
	Alloy steel which contains one or more of the following: Chromium,					
	Nickel, Molybdenum or Vanadium: <i>Carbon</i> : 0.20-0.55%; <i>Phosphorous</i> : 0.035% max; <i>Sulfur</i> : 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.				