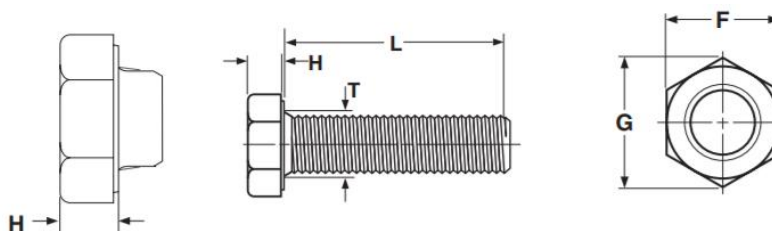


Metallics

An **AMERICAN** Source For Premier
and Innovative Fasteners and Anchors

HEX HEAD METRIC TAP BOLTS – STEEL ZINC

The following Specification Sheet applies to all **Hex Head Metric Tap Bolts – Steel Zinc** in our **MHTB and JMHTB** series.



METRIC - HEX HEAD FULLY THREADED CAP SCREWS, COARSE										DIN 933
Nominal Size	Thread Pitch	R		H		F		T		G
		Threaded Length		Head Height		Width Across Flats		Body Diameter		Width Across Corners
		L ≤ 125 mm	L > 125 mm ≤ 200 mm	Max	Min	Max	Min	Max	Min	Min
M3	0.5	12	-	2.13	1.88	5.5	5.32	2.98	2.87	6.01
M4	0.7	14	-	2.92	2.68	7	6.78	4	3.82	7.74
M5	0.8	16	22	3.65	3.35	8	7.78	5	4.82	8.87
M6	1	18	24	4.15	3.85	10	9.78	6	5.82	11.05
M8	1.25	22	28	5.45	5.15	13	12.73	8	7.78	14.38
M10	1.5	26	32	6.58	6.22	17	16.73	10	9.78	17.77
M12	1.75	30	36	7.68	7.32	19	18.67	12	11.73	20.03

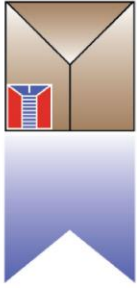
Metallics

229 Cross Street
Bristol, CT 06010

www.metallics.us

Phone: 860 589-4186 Toll Free: 800 243-8272

Fax: 860 584-1008 Toll Free Fax: 800 831-9358



Metallics

An **AMERICAN** Source For Premier
and Innovative Fasteners and Anchors

Description	A hex headed externally threaded fastener with washer-face beneath the head, a metric thread pitch, made from medium carbon steel and heat-treated. The threads on the shank extend all of the way to directly beneath the head.	A hex headed externally threaded fastener with washer-face beneath the head, a metric thread pitch, made from high alloy steel and heat-treated. The threads on the shank extend all of the way to directly beneath the head.
Applications/ Advantages	Used to mount motors to machinery. Also popular in automotive and truck repair.	Used in automotive and fleet industries where greater tensile strength is required than can be achieved with a Class 8.8 fastener.
Material	Class 8.8	Class 10.9
	Class 8.8 bolts can be made from a carbon steel which conforms to the following chemical composition-- Carbon: 0.25-0.55%; Phosphorus: 0.035% maximum; Sulfur: 0.035% maximum.	Class 10.9 bolts can be made from an alloy steel which conforms to the following chemical composition-- Carbon: 0.20-0.55%; Phosphorus: 0.035% maximum; Sulfur: 0.035% maximum; and shall contain one or more of the following elements: Chromium, Nickel, Molybdenum or Vanadium
Heat Treatment	Class 8.8 bolts shall be heat treated by quenching in a liquid medium from above the transformation temperature and reheating to a tempering temperature of 425°C.	Class 10.9 bolts shall be heat treated by quenching in oil from above the transformation temperature and reheating to a tempering temperature of 425°C.
Core Hardness	<i>For diameters less than or equal to 16mm:</i> Rockwell C22 - 32 <i>For diameters greater than 16mm:</i> Rockwell C23 - 34	<i>All diameters:</i> Rockwell C32 - 39
Yield Strength	<i>For diameters less than or equal to 16mm:</i> 92,800 psi. minimum <i>For diameters greater than 16mm:</i> 95,700 psi. minimum	<i>All diameters:</i> 136,300 psi. minimum
Tensile Strength	<i>For diameters less than or equal to 16mm:</i> 116,000 psi. minimum <i>For diameters greater than 16mm:</i> 120,350 psi. minimum	<i>All diameters:</i> 150,800 psi. minimum

Metallics

229 Cross Street
Bristol, CT 06010

www.metallics.us

Phone: 860 589-4186 Toll Free: 800 243-8272

Fax: 860 584-1008 Toll Free Fax: 800 831-9358