

# Metric fastener standards

## IFI - Everything You Need to Know About Inch and Metric Fastener Standards

Table 2. American National Standard Metric Formed Hex Screws  
ANSI/ASME B18.2.3.2M-1979 (R1995)

PROPERTY CLASS AND MANUFACTURER'S IDENTIFICATION TO APPEAR ON TOP OF HEAD

Nominal Size D mm Thread Pitch	Body Dia. d mm	Width Across Flats F mm		Width Across Corners F <sub>c</sub> mm		Head Height E mm	Nom. Head Height E <sub>n</sub> mm	Width Face Thru C mm	Width at Base Thru C <sub>b</sub> mm
		Max	Min	Max	Min				
M3 x 0.8	3.00	4.82	8.00	7.64	8.28	1.56	1.67	3.38	2.4
M3 x 1	3.00	5.82	10.00	9.64	11.00	2.00	2.10	4.15	3.0
M3 x 1.25	3.00	7.78	13.00	12.57	14.00	2.60	2.70	5.50	4.0
M4 x 1.5	4.00	6.78	15.00	12.57	13.10	2.00	2.10	4.15	3.0
M4 x 2	4.00	9.78	20.00	15.57	16.40	2.70	2.80	5.50	4.0
M5 x 1.5	5.00	11.78	25.00	17.57	18.40	3.40	3.50	6.80	5.0
M5 x 2	5.00	14.78	30.00	20.57	21.40	4.10	4.20	8.10	6.0
M6 x 2	6.00	16.78	35.00	22.57	23.40	4.80	4.90	9.40	7.0
M8 x 2	8.00	20.78	45.00	28.57	29.40	6.40	6.50	12.40	9.0
M10 x 2	10.00	26.78	55.00	36.57	37.40	8.40	8.50	16.40	12.0
M12 x 2	12.00	32.78	65.00	44.57	45.40	10.40	10.50	20.40	15.0

\*This size with width across flats of 15 mm is not standard. Unless specifically ordered, M10 formed hex screws with 16 mm width across flats will be furnished.  
All dimensions are in millimeters.

Description: -

- Artificial satellites in telecommunication.

Metric system -- United States.

Fasteners -- Standards -- United States.Metric fastener standards

-Metric fastener standards

Notes: Includes index.

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### bolts: metric standards

Lowercase letters indicate external thread bolt tolerance. Most countries have converted from the inch-pound system and now use SI as the standard measurement system. This property class designation conveys most of the relevant necessary information about the fastener due to the design of the metric marking system.

### Metric System & Specifications

Each metric standard is product specific.

### External Metric Thread Table Chart and Fastener Sizes M1.6

Check out our for new posts every Monday! All nations, including the U. A540;B21 through B24 Common DIN Numbers for Metric Fasteners DIN Hex Capscrews 931 Coarse thread pitch partially threaded specify grade 933 Coarse thread pitch fully threaded specify grade 930 Fine thread pitch partially threaded specify grade 961 Fine thread pitch fully threaded specify grade DIN Nuts 934 Hex nuts specify pitch and class 985 Nylon insert locknuts specify pitch and class 980V All metal locknuts specify pitch and class DIN Washers 125 Flatwashers 127 Lockwashers DIN Socket Products 912 Socket head capscrews normally GR 12.

### bolts: metric standards

Measure oval heads from the largest diameter point—where the dome top meets the conical bearing surface—to the tip. SAE nuts, bolts and screws are measured by their thread count, or TPI threads per inch and their length.

### Metric Bolt Conversion

In these nations, the use of inch-pound products is limited to maintenance parts for older machinery and equipment. The 6g thread tolerance is comparable to a 2A Unified thread tolerance. Coarse is the most common metric thread and, as we've mentioned, coarse is assumed when pitch isn't specified.



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