

## ALL YOU NEED TO KNOW ABOUT BOLTS

### ■ IDEAL BOLT MEASURING TOOLS

For precision measuring we would recommend the use of Digital Vernier Callipers and a Thread Gauge to measure thread pitch. For standard bolts in the range of M5 – M12 we offer our own **Pro-bolt Measuring Gauge** – see our website for details.

### ■ MEASURING A FASTENER

#### ■ Shank Diameter

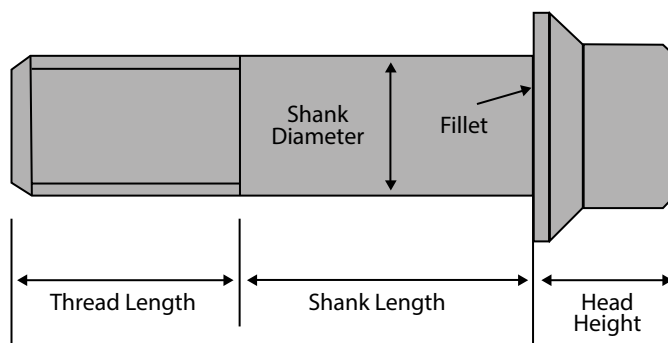
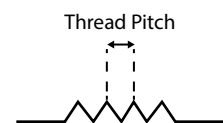
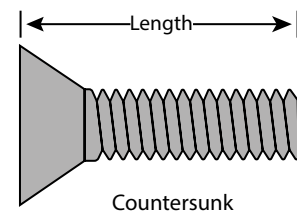
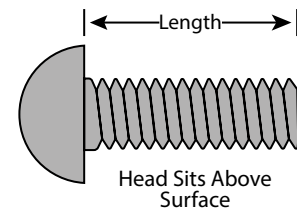
Also called Major diameter. The diameter of a bolt is the Shank diameter, expressed in millimetres for Metric bolts. Because this is approximately the same as the Major or Thread diameter the thread diameter measurement can be used for fully threaded bolts.

#### ■ Shank Length

Fastener length is measured from where the material surface is assumed to be, to the end of the fastener. For fasteners where the head usually sits above the surface, the measurement is from directly under the head to the end of the fastener. For fasteners that are designed to be countersunk, the measurement is made from the point on the head where the surface of the material is, to the end of the fastener.

#### ■ Thread Pitch

Metric fasteners are specified with a thread pitch instead of a thread count. The thread pitch is the distance between threads expressed in millimeters (measured along the length of the fastener). For example a thread pitch of 1.5 means that the distance between one thread and the next is 1.5mm. In general smaller fasteners have finer thread so they have lower thread pitch.



# Bolt Measuring Guide

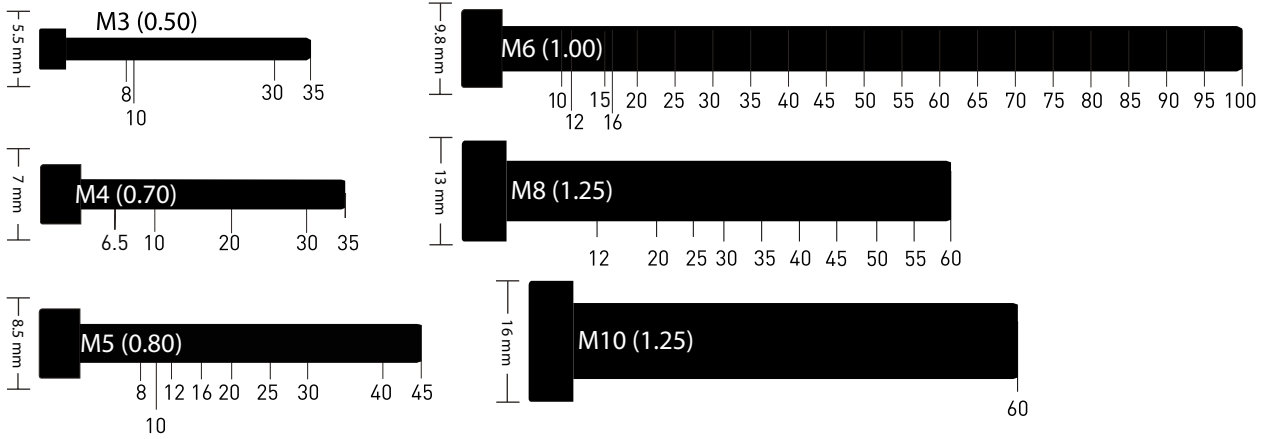
MODEL SPECIFIC HIGH QUALITY FASTENERS  
ALUMINIUM | TITANIUM | STAINLESS STEEL



Pro-Bolt Switzerland

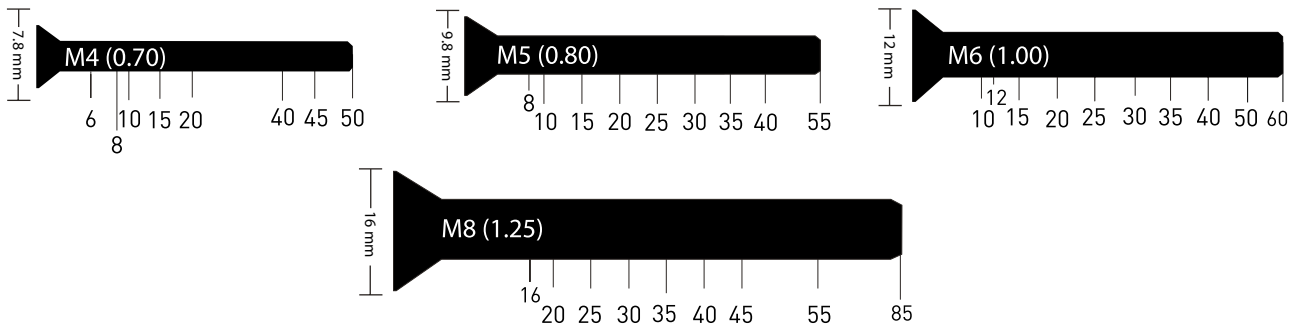
## Allen Key Socket Cap Bolts ( Available in Aluminium | Stainless Steel | Titanium )

\*Please Note: Not all combinations of thread length, thread diameter, and thread pitch are available in every material\*



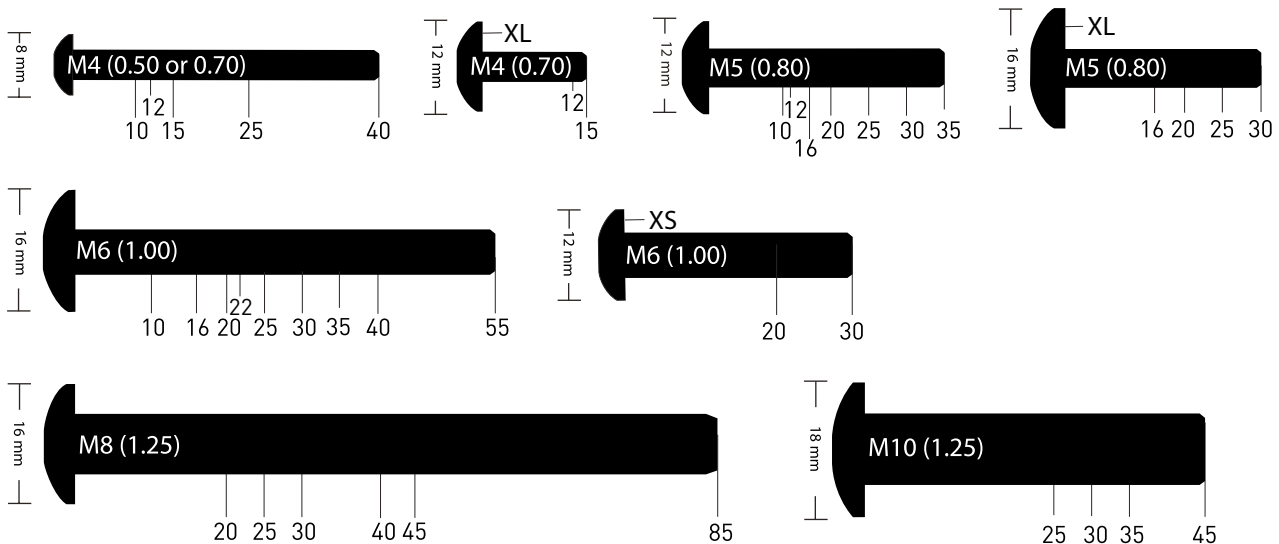
## Countersunk Bolts ( Available in Aluminium | Stainless Steel | Titanium )

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## Dome Head/Fairing Bolts ( Available in Aluminium | Stainless Steel | Titanium )

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# Bolt Measuring Guide

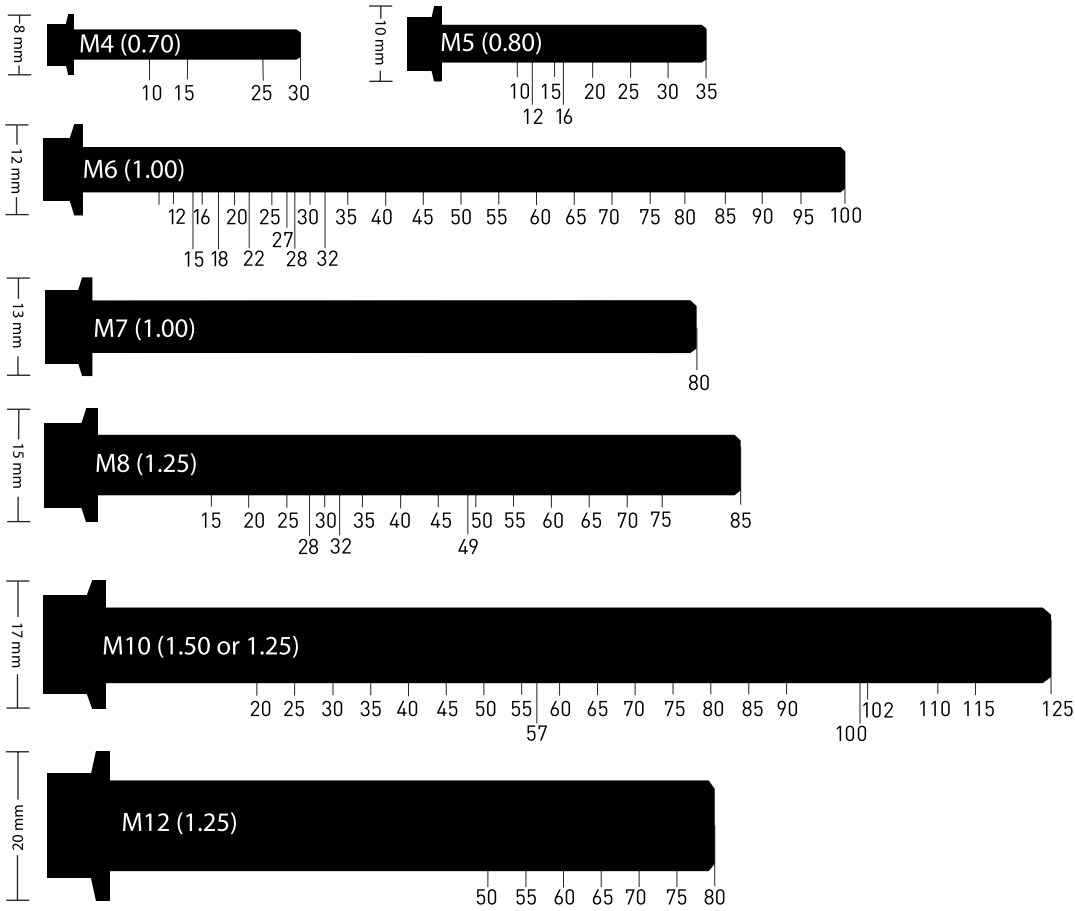
MODEL SPECIFIC HIGH QUALITY FASTENERS  
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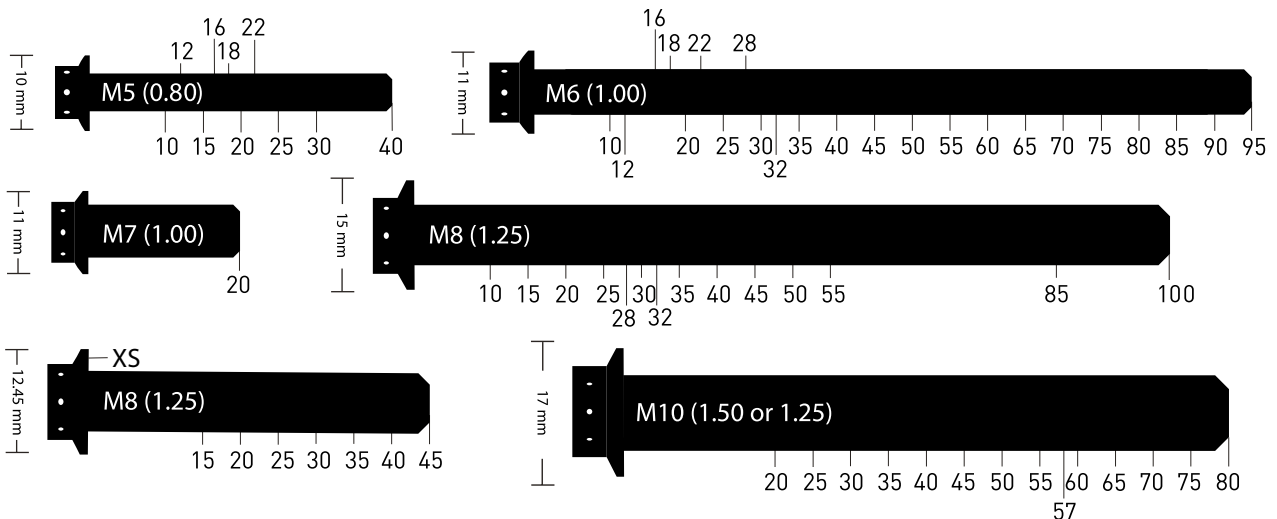
## Flanged Hex Head Bolts ( Available in Aluminium | Stainless Steel | Titanium )

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## Race Spec Bolts ( Available in Aluminium | Stainless Steel | Titanium )

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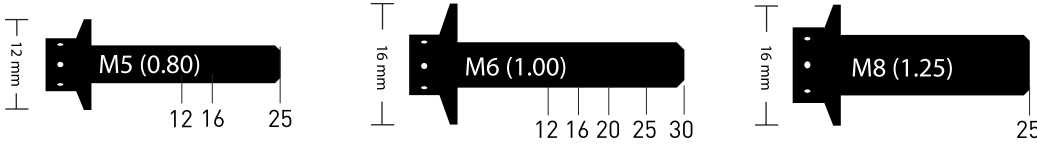
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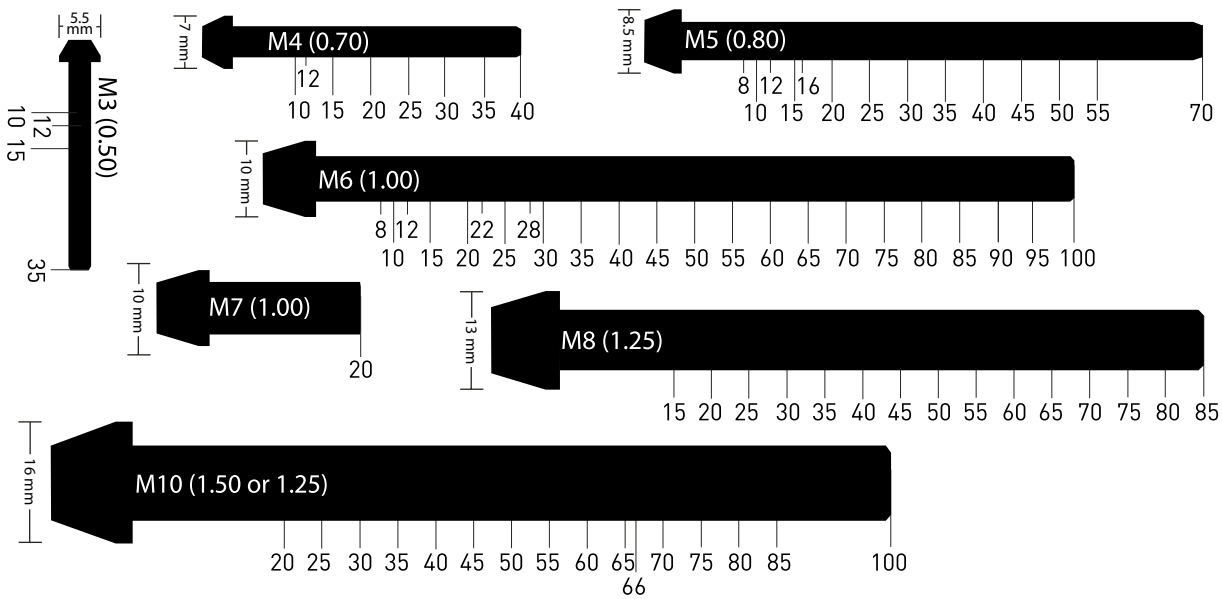
## Race Spec Bodywork Bolts ( Available in Aluminium )

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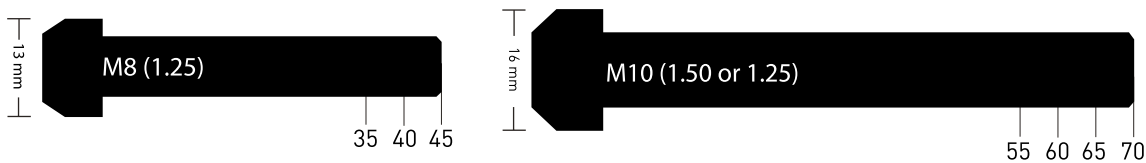
## Tapered Socket Cap Bolts ( Available in Stainless Steel | Titanium )

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## Cylindrical Head Torx Drive ( Available in Titanium )

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## Flanged Cap Bolts ( Available in Stainless Steel | Titanium )

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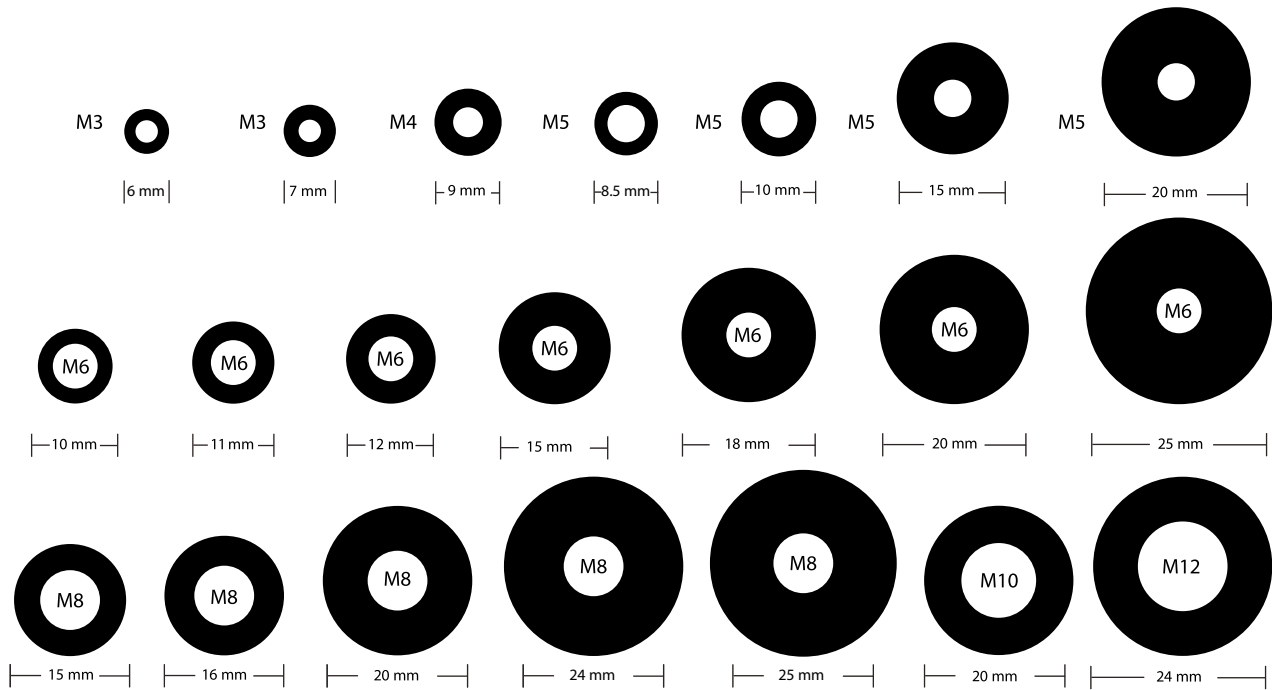
MODEL SPECIFIC HIGH QUALITY FASTENERS  
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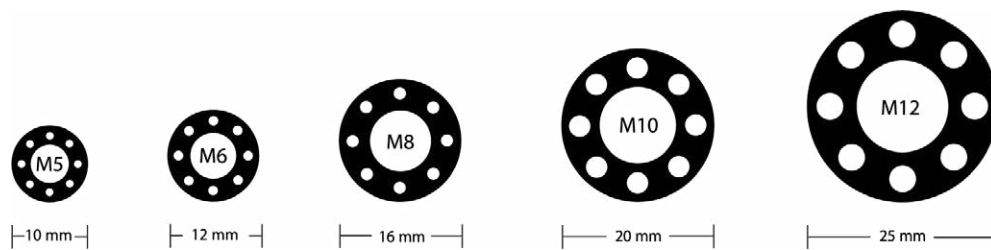
## Flat Washers ( Available in Aluminium | Stainless Steel | Titanium )

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## Drilled Washers ( Available in Aluminium | Titanium )

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## Countersunk Bodywork Washers ( Available in Aluminium | Stainless Steel | Titanium )

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## Cone Washers ( Available in Aluminium | Titanium )

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