



# DOUBLE-ENDED STUDS

QUALITY FIRST. ENGINEERED TO LAST.®

Double-ended studs mechanically join separate hardware through tailored thread body length, pitch and diameter. Thread bodies are separated by collars that act as bearing surface features. These features align the studs for threading and can integrate drive features to fix the fastener in place.

The double-ended stud example demonstrates customization with a plastic cutting thread on the upper left and machine screw separated by a circular bearing surface. A Torx® drive is integrated at the tip of the machine screw on the lower right.



Z01046M: M6x1x14 PT / M6x1X23 TORX  
Monterrey, NL, MX

## FEATURES

- ▶ Diameters from M4 to M18 with lengths from 15 to 174 mm
- ▶ Custom thread types, diameters and lengths on either side of the bearing surface
- ▶ Custom bearing surfaces that can include a washer

## BENEFITS

- ▶ One end can be fixed in place to provide a fitting for a separate module
- ▶ Part integration of two bolts into one
- ▶ One bolt to fix parts made from different materials

## IDEAL APPLICATIONS

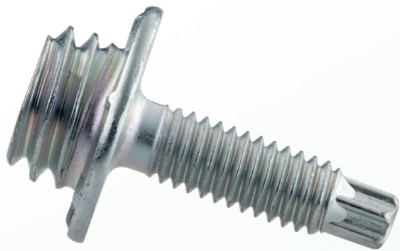
- ▶ Engine valve cover
- ▶ Oil filtration module
- ▶ Electronic module
- ▶ Air intake manifold
- ▶ Battery packs
- ▶ Exhaust manifold





| LOCATIONS            | DIAMETERS | LENGTHS      |
|----------------------|-----------|--------------|
| Belvidere, IL        | M4 to M11 | 16 to 72 mm  |
| Holly, MI            | M6 to M8  | 40 to 50 mm  |
| Monterrey, NL, MX    | M4 to M8  | 15 to 46 mm  |
| Spencer, TN          | M8 to M18 | 46 to 190 mm |
| Sterling Heights, MI | M5 to M14 | 15 to 174 mm |

## EXAMPLES



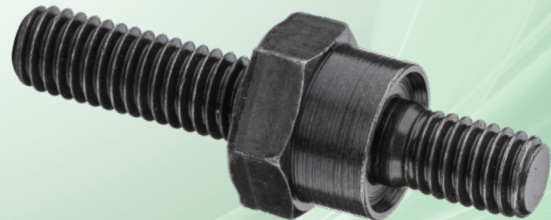
283-90407-562: M8x1.25 / M4x0.7x19 mm  
Belvidere, IL



6509511AA: M6x1x20 / 1/4" - 20x16 mm Hex  
Holly, MI



6505293AA: M10x1.5x92 / 7/16" - 14x30 mm  
Spencer, TN



26015316: 3/8" / 3/8" - 16x2.3" Hex  
Sterling Heights, MI