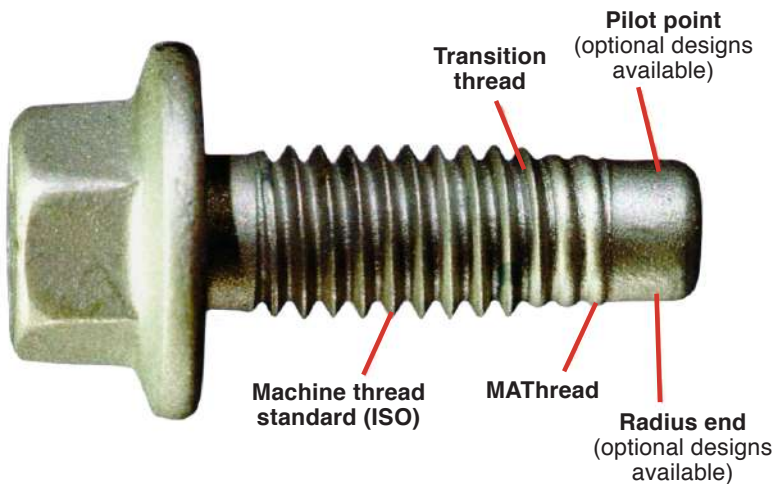


April 2022

Uni-TechSpace

MAThread®

MAThread® and MATpoint®



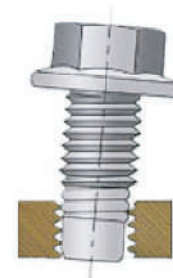
MAThread®, MATpoint® and Never-Jam® are patented thread designs, which may be utilized on any externally threaded screw, bolt, or other threaded product. Currently these designs are found on more than 10,000 different fasteners throughout high-volume manufacturing plants worldwide.

How does MAThread® perform ?

MAThread® eliminates seizing and jamming of fasteners from the most common problems, period. This usually results in an immediate end to ongoing assembly issues. This result has been demonstrated in the most difficult, highest volume assembly operations, where thousands of serious, costly problems have just disappeared after MAThread® was introduced.



**Misaligned
screws**



**MAThread
forces threads
into position**



**Threads drive
normally**

Types of fasteners



“P” Point MATHread®

Use in difficult applications when point clearance is not an issue. Should also be used with thick stack-ups of multiple components.



Custom MATHread®

Design criteria for parts used in special applications. Please contact MATHread® for design help!



MATPoint®

For use in most applications. Do not use when prying heavy components into place during installation - use a 'Dog point' MATHread® instead.



Very Short MATHread®

Use only in applications where point clearance is a problem and angular mis-alignment is limited. Note that this part may very rarely jam if installed at over 8 deg. angular misalignment.



Dog Point MAThread®

Use in any very difficult application or when prying components into place during installation.



Never-Jam™ MAThread®

For use in applications where packaging length and/or weight is a concern. This design is effective up to and including 12 degrees misalignment. Note that our specially-designed lead thread provides improved performance when assembling to internal threads that are roll-form tapped (fish-mouth, a.k.a. crest-crater conditions). If 100% effectiveness is required, be sure to specify one of our full dog-point designs.

Benefits of MAThread®

Improved Product Quality

With MAThread® and MATpoint®:

- Cross threading disappears
- Paint interference is eliminated
- False threading does not occur

With standard threads, each time one of these failures occur cost of scrap, re-work, and downtime jumps. With MAThread®, fewer plant and after-market repairs mean lower costs and increased profitability.

Improved Ergonomics

Since the lead threads of MAThread® products are very similar ball bearing in shape, operators feel almost no feedback early fastener run-down.

Improved Torque Control

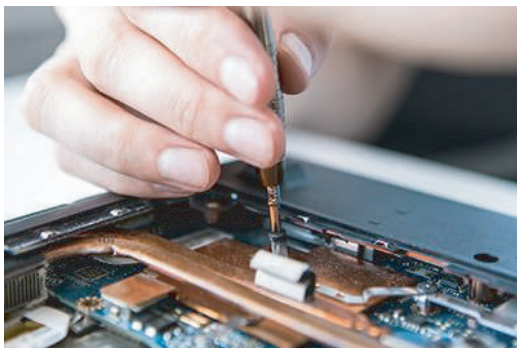
MATHread® products eliminate torque “spikes” early in the run-down, which makes torque monitoring and angle control much more consistent.

A Money Saver

MATHread® products reduce the net cost of an assembly dramatically improving installation time and eliminating resulting from waste, rework, and warranty repairs with conventional joints.

Applications

Electronics



Mass production is a necessity in today's large and diverse market segment for electronics. Manufacturers worldwide are using MATHread® to eliminate assembly problems and lower costs in a highly competitive industry.

Construction



News of breakthroughs in the fastener industry travels fast as prevention and avoidance of assembly problems and operator fatigue become a high priority. The construction industry provides a market for the MATHread® because they are not sensitive to assembly tool speed; they correct off-angle installations, and improve operator ergonomics by reducing repetitive stress.

Water Craft



Assembly of large ships, small boats, and even jet skis now utilize MATHread®. Elimination of assembly failures, repairs, scrap, downtime and warranty service have driven the use of MATHread® at a phenomenal rate.

Automotive



MATHread® have a proven track record throughout the automotive industry for reducing costs by eliminating reworks caused by cross threading, and labor time associated with hand starting. It is widely used by car and truck manufacturers worldwide.

MATHread® Product Range

MATHread® and MATpoint® are currently being manufactured both in Metric & Inch Standards sizes ranging from M3 to M28. There are, however, no size restrictions for the design. Also, the type of fastener head is irrelevant to their manufacture, as well as the materials, and/or surface coatings.



Visit <https://mathread.com/> to find out more about MATHread®
China Micro Machining is an authorized licensee of MATHread®

