MAThread®/MATpoint® Anti-Cross-Threading Feature

EJOT is a licensee of MAThread Incorporated, Whitmore Lake, MI, U.S.A. with the patented anti-cross-threading MAThread® and MATpoint® for metric threaded fasteners per ISO 965-2.

Cross-threading is caused by trying to assemble a misaligned axis of the screw to the female thread. The helix of the external thread and the helix of the female thread will not fit together. This will cause thread damage and a final assembly is not possible any more.

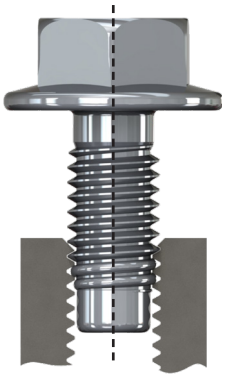
The patented MAThread®/MATpoint® design prevents cross-threading and helps to speed the assembly, reduces or eliminates failures, repairs, scrap, downtime, and warranty associated with thread damage.

These features are the reason, that MAThread®/MATpoint® have been registered worldwide in product standards of OEMs such as Chrysler, Daimler Benz, General Motors, Volkswagen and their suppliers.

Working principle of MAThread®/MATpoint®

Misaligned axis (helix) of the MAThread® to the female thread.

The round shaped MAThreads® are guided into contact and start to cam over the female thread.



The misaligned axis (helix) has been completely accommodated. The fastener threads then drive normally.

Your Benefits

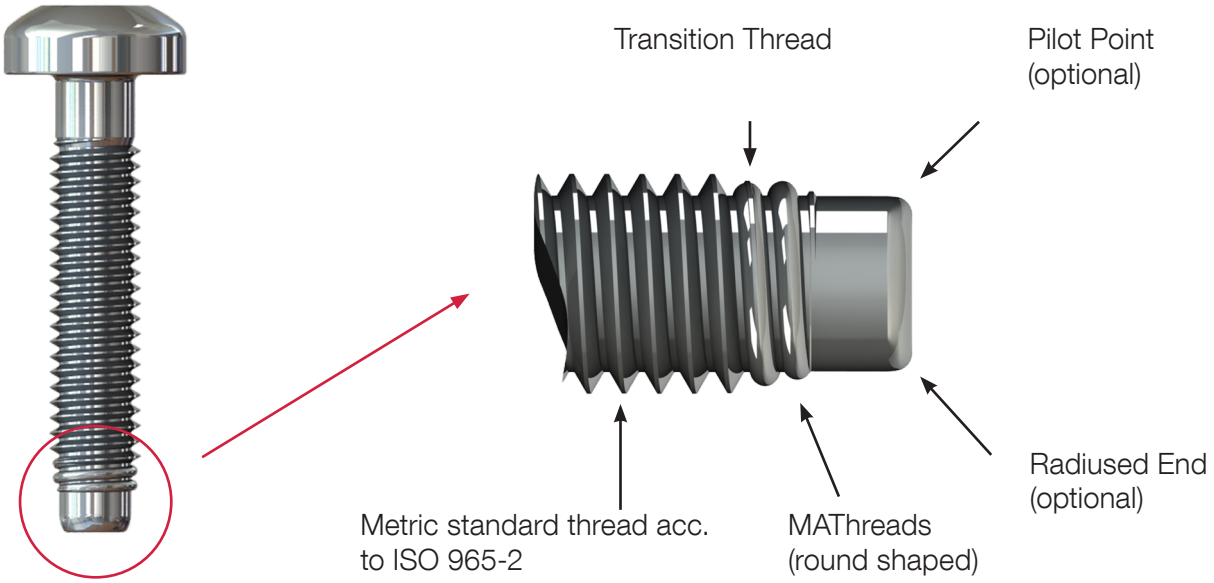
- **Easy assembly**
- No cross-threading
- High process capability due to **short cycling times**
- Low risk of damaged threads
- **Reduction of follow up costs** caused by failures, repairs, scrap and downtime

MAThread®/MATpoint®

MAT stands for **M**is-alignment **A**ccommodating **T**hread. In general, a distinction is made between MAThread® and MATpoint®.

The mis-alignment accommodating function is achieved by the round shaped MAThreads in combination with the special shaped ends (please see detail view below). MAThread® versus MATpoint® shows more round shaped MAThreads.

MAThread® and MATpoint® are combined with different pilot points (e. g. special dog points, pilot points or chamfers). The results of these standardized combinations are seven different MAThread®/MATpoint® types.



Features

- Metric threaded fastener
- Available in the standard dimensions M4 to M10. Other dimensions upon request
- Further information can be taken from www.mathread.com

08.15/PDF08.23 Subject to technical changes. MAThread®/MATpoint® is a registered trademark of MAThread Inc.