



## **b&m-HIGHLOAD<sup>®</sup>**

Direct screwing system for  
high-stress applications

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### Direct screwing system for high-stress applications

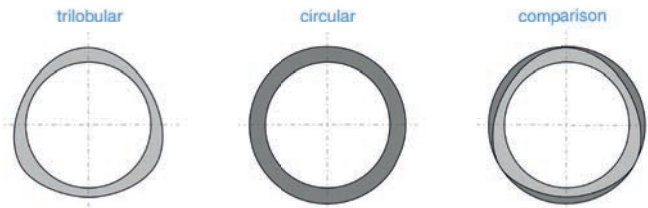
Our b&m-HIGHLOAD® thread-forming screw is primarily used in multi-material construction. The screw suitable for highly stressed component joints, be they in high-strength steels or in low-strength aluminum alloys. A screw connection with the b&m-HIGHLOAD® is self-locking and free of play. If required, the threads produced are compatible with metric ISO standard parts.



### Functional principle

Conventional direct screwing systems rely on a “trilobular” geometry of the thread body. This means that the thread cross-section has the profile of a heavily rounded triangle. Unlike such conventional solutions, the b&m-HIGHLOAD® uses a circular thread cross-section and offers complete flank coverage. This screw increases the load-bearing capacity of safety and crash-relevant assemblies.

#### Load-bearing thread parts in cross section



Compared to a trilobular solution, the circular geometry of the b&m-HIGHLOAD® provides an additional load-bearing component (© b&m)

## Features

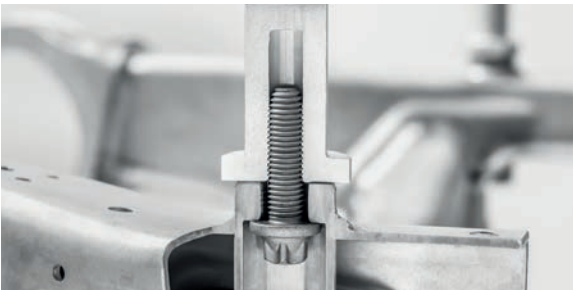
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- **Diameter:** M8 - M14
- **Length:** depending on diameter
- **Property class:** 10.9 according to DIN EN ISO 898-1 + induction-hardened forming zone
- **Head geometry:** Hexalobular external drive as standard; customized solutions are possible
- **Surface:** Duplex coating - zinc-nickel or zinc as a base layer with organic TopCoat. Additional coatings on customer request

## Benefits

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- The high strength of the screw in combination with the large flank overlap provides enormous preload forces
- The special groove zone geometry prevents the screw from “seizing” in tough-soft nut component materials - screw-in depths of up to  $5 \times D$  ( $D$  = thread diameter) possible
- In addition, the groove zone geometry ensures a self-righting effect and compensates for lateral deviations during installation
- Cost efficient: Anyone using the b&m-HIGHLOAD® saves work steps and costs for the use of tools and machines





Get in touch with us



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