

WDS Components Help Desk

[News](#) > [News and Media](#) > [Shoulder Bolts Now Available With Ultra Low Head For Compact Installation](#)

Shoulder Bolts Now Available With Ultra Low Head For Compact Installation

2022-11-08 - Mark Moody - Sales and Marketing Director - [News and Media](#)

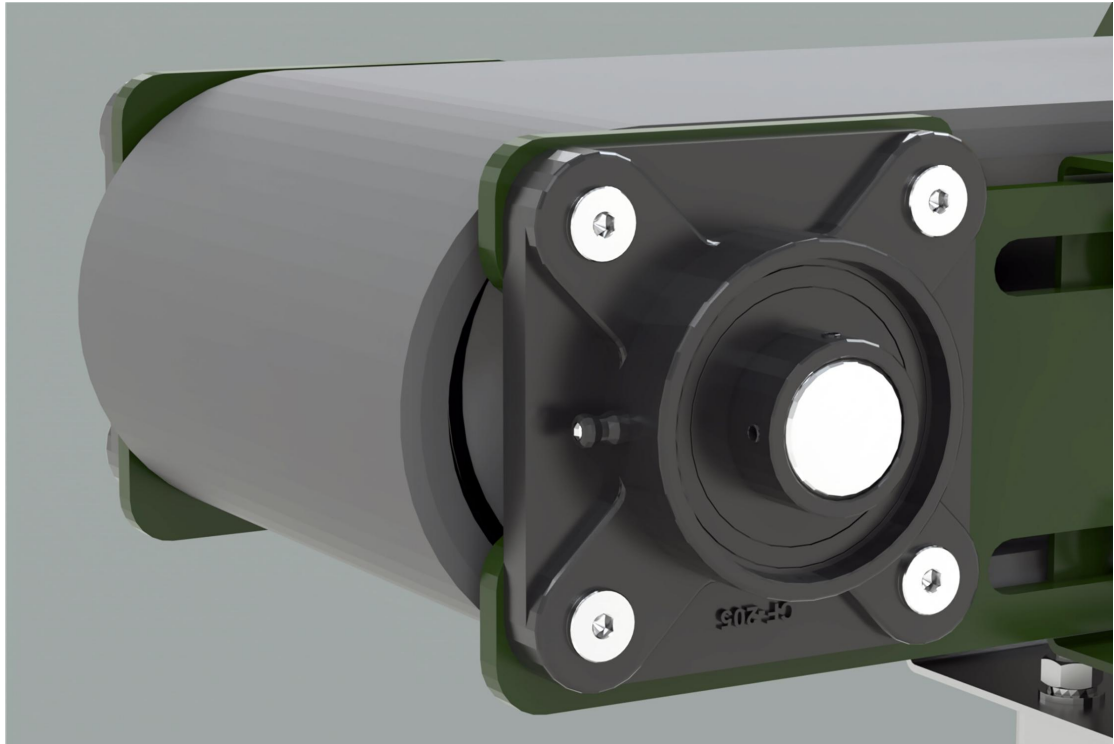
We at WDS have released an ultra-low head shoulder bolt, designed to conserve space when a compact footprint is required. We developed the new shoulder bolt for applications such as electronics manufacture. Made from high grade 316 stainless steel, the ultra-low head shoulder bolts are sufficiently durable to be used across industries, with sizes ranging from M3 to M6.



The design of the bolt includes a broad, threadless 'shoulder' that allows the fastener to rotate, pivot, or slide. Meanwhile, the thread, tightened against a nut or female threaded insert, holds the bolt's position. The threadless shoulder is machined to a very close tolerance of just 0.025mm, enabling precision location as well as movement with minimal play for smooth and efficient function. When used in high speed applications, vibration is also minimised as a result of the exacting tolerance. This also reduces long-term wear for lasting performance.

Adding to WDS' existing range of shoulder bolts, the new ultra-low head design reduces physical height in installation and creates a more compact footprint for space-constrained designs. To further reduce assembly height, the bolts can also be installed by insertion into counter-sunk holes. Ideal for electronics assembly, the bolts can also be used to retain bushes, axles, joints and shafts, as well as linear slides, in applications such as punch and die mechanisms, linkages, and motion systems.

Manufactured from 316 stainless steel, the ultra-low head shoulder bolts are highly resistant to corrosion and are able to withstand aggressive chemical washdown as well as saline exposure. This makes them ideal for use in clean in place applications, such as food & beverage production, as well as marine environments. The bolts are also manufactured to BS468-7 and ISO7379 standards.



The ultra-low head shoulder bolts are available in over thirty metric size lengths, with threads extending from M3 to M6, while the thread-free shoulder length ranges from 4mm to 20mm. The head includes allen key fitting. Full specification details are available on wdscomponents.com, including free to download CAD drawings covering all major file types, as well as 3D images that can be viewed with non-specialist software.

The new bolts, under part code WDS 887, are available in stock and can be purchased in high volume as well as single unit orders. The bolts are also within WDS' stock guarantee offer that provides a 10% discount on any outstanding order volume that cannot be fulfilled. Same-day despatch can also be applied for UK and worldwide orders.