

Shoulder bolts now available with ultra-low head for compact installation

05 July 2022

WDS Components Limited has released an ultra-low head shoulder bolt, designed to conserve space when a compact footprint is required. The Leeds-based supplier and manufacturer of standard parts and components has 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.

Image Captions:



Image 1: WDS Components ultra-low head shoulder bolts



Image 2: Shoulder bolt made from high grade 316 stainless steel for applications such as electronics manufacture

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About WDS Components Ltd

WDS Components is the home of standard parts and machine accessories. Established in 1952 'Woodside Die Sinking Company' made jig and die parts to speed up production in tool rooms, WDS Components has grown from humble beginnings to become a leading European manufacturer and global distributor of high quality durable parts at competitive prices. We supply components, standard parts and machine accessories to original equipment manufacturers, maintenance engineers, small businesses and individuals all over the world. Over 98% of our range is available from stock and can be shipped the same day from our global distribution centre in the UK, using best in class worldwide logistics companies.

We provide unrivalled choice and unequalled availability.

WDS Components are proud to support some of the most prestigious engineering companies and brands in the world, who all trust WDS Components to service their needs.

We are committed to engineering excellence and continuous improvement. Our team of in-house engineers has expertise spanning several decades and is a blend of highly experienced and new generation graduate engineers who focus on the latest developments in design and manufacturing technology.

Our entire range of products is available to purchase on our website [WDS COMPONENTS.COM](https://www.wds-components.com) where designers and manufacturers alike can download 3D models of all components in the widest range of formats available.

WDS Components provide solutions for customers who require a wide

and growing range of high quality, competitively priced products, coupled with incredible product availability and same day despatch, backed up by easily accessible technical support.

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