

Never a problem,
always a...



 **CHALLENGE**  ®





Challenge Engineering Pedigree

The Challenge brand represents three decades of development, manufacture and refinement of the most comprehensive range of quality power transmission and engineered products available from any single source.

Our global group of Challenge Power Transmission Centres supply only trade and OEM's with end users served by their local Challenge distributor.

Quality, value and service are the cornerstone of the Challenge group, we have unparalleled expertise in the manufacture and distribution of engineering products from the East, complying with all international standards, tolerances and technical requirements.

All Challenge manufacturing facilities are staffed by experienced engineers who are also able to offer custom made machine parts, ranging from the raw castings to the finished product.

Our products are branded using the latest technology for ease of replacement, order, stock and despatch.

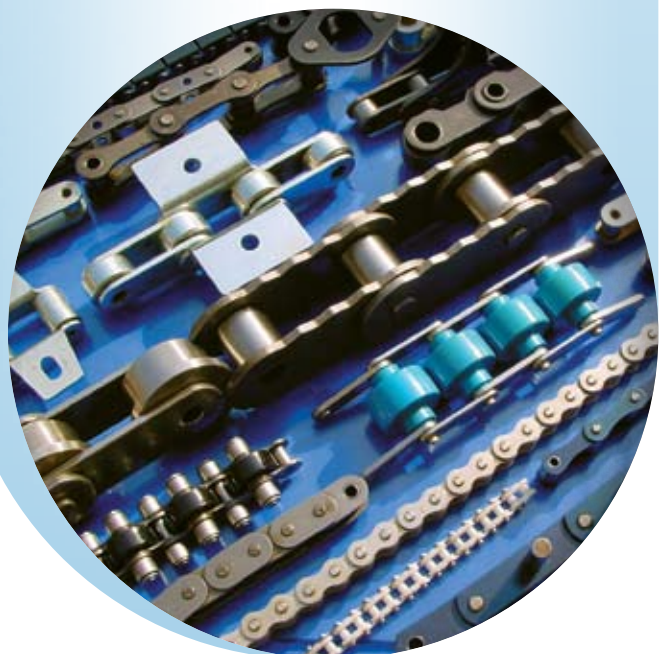
So don't forget, Never a problem, always a...

Chain

Challenge's extensive range of Roller, Leaf, Timber, Agricultural and Conveyor chains not only offer all the manufacturing refinements and life optimising characteristics that today's engineers and designers expect; they do so without compromise in value or quality. A full range of attachments are also available as are many types of special design chain to suit customers specific requirements.

Our latest addition is a range of both transmission and conveyor chain featuring spin riveted pins.

This makes the Challenge chain range the ideal choice for any new build or replacement application.



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Sprockets

Sprockets are manufactured to the same exacting standards as Challenge chain. The quality inspection procedures are also identical

The range includes both taper bore and pilot bore sprockets in simplex, duplex, triplex. Double simplex sprockets are also available

Challenge also offer plate wheels and Idler sprockets.

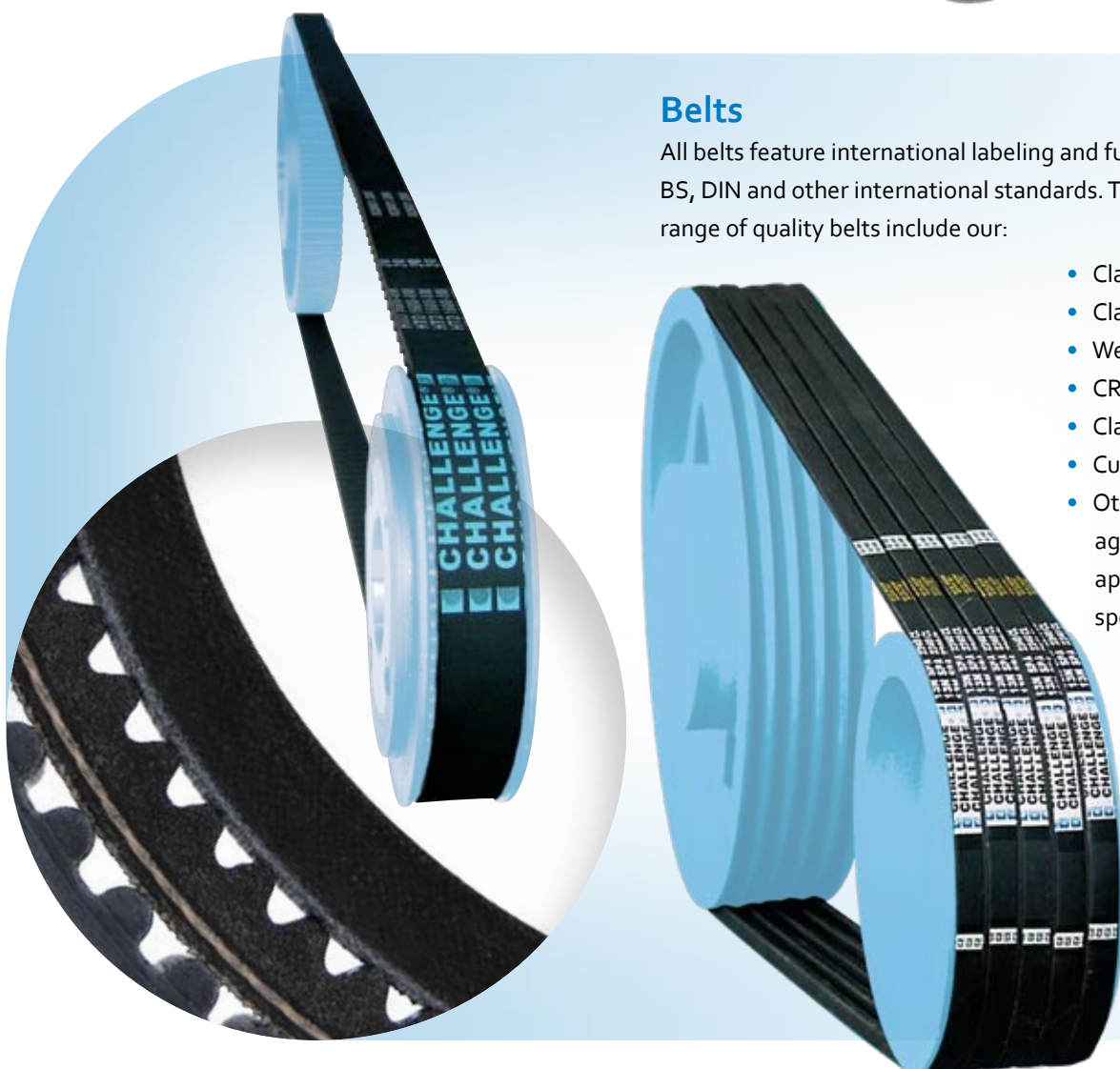
Our welded sprockets and hubs are available in BS and ANSI sizes.



Belts

All belts feature international labeling and fully comply with ISO, BS, DIN and other international standards. The extensive Challenge range of quality belts include our:

- Classical V-Belts
 - Classical CRE V-Belts
 - Wedge Belts
 - CRE Wedge Belts
 - Classical Timing Belts
 - Curved Tooth Timing Belts
 - Other belts to suit
- agricultural automotive applications are available to special order.

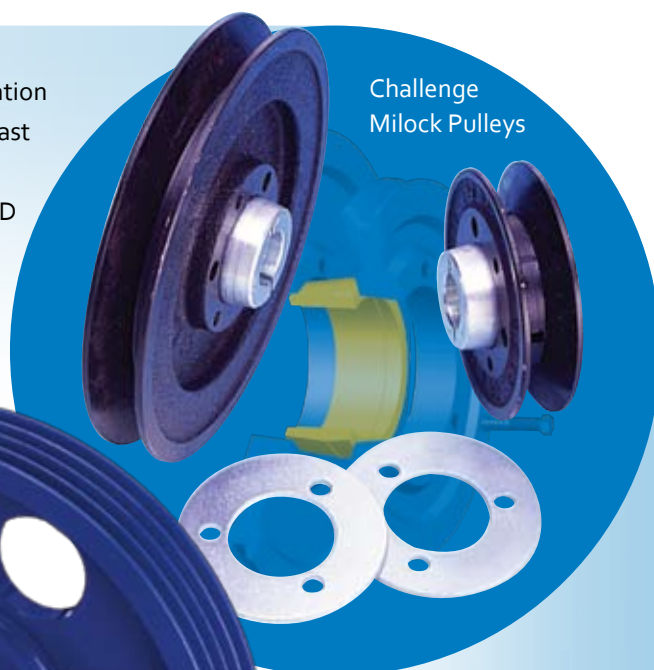


Pulleys

The Challenge range of 'V' pulleys in both taper and pilot bore configuration conform to ISO 4183, and are produced from phosphated GG25 grade cast iron and are balanced to Q6.3 or better.

Challenge also manufacture taper bored and pilot bore classical and HTD timing pulleys to the same demanding specifications.

To complement the range of pulleys, variable speed and our simple Mi-lock pulley system are available.



Taper Bushes & Hubs

For torque transmission you need the maximum contact area.

Challenge's high machining tolerances deliver just that, with over 500 metric and imperial bore sizes of taper bush being available and are manufactured from close grain cast iron[†]. Challenge is sure to have the quality taper bush you are looking for at the right price.

All Challenge 3 hole taper bushes have a machined 4th balancing hole to compliment our range of shaft fixings, Challenge also manufacture an extended range of precision machined C45 steel weld-on-hubs, as well as phosphated Bolt-on-Hubs in GG22 Cast iron, plus an extended range of keyed and keyless adaptors, ideal for our pilot bored components.

([†]thin walled taper bushes are manufactured from C45 steel)



Cone Clamping Elements

Challenge Shaftlock keyless shaft fixings come in a wide range of size and configurations and are simply installed or disassembled.

Challenge Shaftlock is a premium grade clamping element with high machining tolerances and surface finishes resulting in high torque ratings.

Shaft Couplings

The Challenge range of shaft couplings covers most of industry's requirements.

The range encompasses FFX, HRC, Jaw and Chain shaft couplings. New to the Challenge range are our NPX and RPX couplings which match industry standards.

Whether you need to absorb shock from a crusher or to drive a smooth running generator, Challenge will have a suitable coupling in their range.



FFX



HRC



CHAIN



NPX



JAW



RPX



Shaft Mounted Speed Reducers (SMSR's)

The workhorse on many conveyor's, Challenge SMSR's are fully interchangeable with other manufacturers and are supplied complete with torque arm. A backstop is available on request.

Consistent quality and close tolerances are guaranteed by Challenge's production line manufacturing.

SMSR gears are ground in 20MnCr5 steel and gas carburised, pinions are machined from 8620 steel, all castings are crack tested.

All our SMSR units are test run for 30 minutes before final quality control, with each unit having our unique Challenge serial number for full traceability.

Torque Limiters

The torque limiter range from Challenge will save you money in damage and downtime, with its zero manual re-setting and simple installation, this unit works with our Challenge plate wheels sprockets, gears, pulleys, couplings etc.



Motor Mounts

Manufactured from galvanized steel, Challenge motor mounts maintain your motor's alignment and drive tension, whilst preventing vibration and noise. They are easily adjustable, and are available in five motor frame sizes covering 63 to 180. Challenge also stock a slide rail design motor mount range.



Electric Motors

A new addition to the ever increasing portfolio of products is the Challenge range of three and single phase electric motors complying with IEC 60034 standards.

The motors are CE approved having fan cooled, high grade cast aluminium alloy squirrel caged construction, incorporating engineering grade plastic terminal boxes. All motors have multi-mount feet and thus can achieve numerous mounting positions.



Worm Gear Units

Challenge now offer a range of worm gear units with aluminium alloy cases.

This extremely versatile unit can be offered with output shafts, electric motors, input flanges, torque arms with many different configurations to fulfil most application criteria. The sizes match industry standards



Bearings

Our ever increasing range of bearings include metric 1600, 6000, 6200, 6300 and 6800/6900 series, and R Series imperial bearings.

All our roller bearings are shielded for longer life and ease of maintenance.

We also stock a popular range of metric and imperial taper roller bearings.



Bearing Units

Challenge Pillow (Plummer) blocks, 2 and 4 hole flange units together with take-up units all have triple lipped seals with shields fitted as standard.

The bearings are sealed for longer life and grease nipples are supplied with these industry standard units.

Challenge Technical Catalogue

The new 2008 Challenge Power Transmission Technical Catalogue covers our entire range of products in our 370 page publication. Contact your local Challenge Sales office for your copy now.

www.challengept.com



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