

## High wear resistance

Combined with Ovako's broad product programme, WR-Steel, a classification of steels with proven superior wear resistance, offers customers a range of design advantages and heat treatment possibilities.

WR-Steel is offered as hot-rolled round or flat bar, special profiles and tubes, or as grinding media. Its advantages cover a comprehensive

range of hardness levels and hardness intervals (350 – 650HV), dimensions and steels grades.

Boron steel is a large part of the WR-Steel offering, but it also includes grinding media and other mining solutions, offering hardness and consistent composition for optimised performance in demanding applications.

**Tel: 01384 213940**

## Indexing chucks

Leader Chuck Systems offers 2-jaw self-centring indexing chucks in diameters from 125 to 500mm. Designed for holding valve bodies and similar fittings, the chucks feature interchangeable indexing

plates. Usual divisions are four 90° movements with indexing accuracy of  $\pm 2s$  of arc, but divisions of any incremental angle can be specified.

"It is not a new concept," says MD, Mark Jones, "but indexing chucks offer advantages for difficult to hold components that would require multiple or staged fixing that could introduce errors.

"Historically, they have been popular in the production of volume automotive and valve industries for components such as trunnions and universal joint spiders, valve bodies and multi way connectors. Accuracy is derived from the indexing accuracy of the chuck as all the machining is effectively related to the first datum setting."

**Tel: 01827 700000**

## Tool servicing focus

Following the recent launch of a new website to focus on their tool servicing offer – [www.master-toolservices.co.uk](http://www.master-toolservices.co.uk) – Master Abrasives has appointed Andy Wright to the new position of sales manager for the Master Tool Services department.

The initial introduction of Master Tool Services was a strategic development of the company's

regular tool maintenance department.

"Now, we have invested in facilities, equipment and personnel with a view to taking pneumatic tool maintenance to a new level within the industry, offering solutions for industry alongside our abrasives package," says managing director, Paul Batson.

As well as reducing health and safety concerns, correctly serviced pneumatic tools can improve component quality

and increase the functional life expectancy of the abrasive medium.

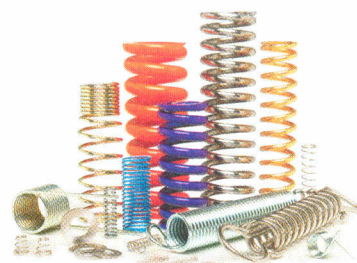
**Tel: 01327 703813**



## Springs & fasteners

The Lee Spring product range is used across a range of sectors including the Motorsport Industry, many requiring high quality springs and fasteners, manufactured to strict legislative standards. The company will exhibit some of its most popular products at Autosport International at the NEC in Birmingham from 8th-11th January 2015.

The Series 20 Lee Spring catalogue was launched earlier this year and contains a number of new products including new 'Skinny & Strong', low index, High Pressure Compression Springs, over 100 new



metric Bantam™ Mini Compression Springs and the latest in Heavy Duty Die Springs.

For applications requiring specialist products that are not featured in the catalogue, Lee Spring's custom spring design service can provide solutions for almost any application specific requirements, employing a variety of spring materials.

**Tel: 0118 978 1800**



## New adhesive systems

When installing elastomeric insulation materials, it is crucial that they are glued professionally. Armacell offers a broad range of accessories specifically developed for its products and regularly adds

innovative solutions.

The adhesive products are simple and quick to apply with very little wastage. They are also odourless and emission free and provide long shelf storage life. Alongside tried-and-tested contact adhesives such as Armaflex 520 adhesive, newer developments are now also available.

Armacell recently launched a completely new generation of adhesives which make the installation process even easier and allow elastomeric insulation materials to be used in projects with the highest environmental and health standards.

**Tel: 0161 287 7015**

## Machine optimised hollow bar

Traditionally, solid bar is a material of choice when it comes to machining components. However, when a central bore is being machined Sandvik argues that by selecting near-net-shape, machine optimised hollow bar, machine shops could significantly increase their output.

Sanmac hollow bar offers a complete selection of material choices including: 4305 UNS S30300, 304/304L UNS S30400/30403, 316/316L UNS

S31600/31603, 4435 UNS S31600/31603, 2205 UNS31803/32205.

These are available in sizes ranging from: outside diameter x inside diameter combinations from: 1.22 x 0.862in, right through to 10.827 x 8.067in, and any size configuration in between, to suit customers' production requirements. Hollow bar in non Sanmac alloys are also available on request.

**Tel: 0121 504 5111**

