

Special Tools

Fast Quotation and Delivery

- in-house developed design and manufacturing system
- rapid on-time delivery of quality goods
- tooling guaranteed to do job required



Experience Matters

- our extensive engineering experience guarantees the best solution for your boring application
- global partnerships and distribution networks maximise our productivity



Quality and Reliability

- integrated manufacturing system validates design before manufacturing begins
- solid modelling software verifies physical properties of tool including weight, moment and CoG
- 3D machining simulation ensures orders are expediently processed



Customer Focus

- modern manufacturing techniques means even complex, multi-edge cutting tools delivered quicker than the competition
- industry leading enquiry response times and product quality
- award-winning record for excellence in use of technology and commitment to customers



High-tech Tooling

ActiveEdge

- precise adjustments to up to 8 cutting edges *without touching the tool!*
- adjustable to 1 μm on diameter (over 0.3mm)
- automatic in-process adjustment when linked to gauging station or CMM



- fit to any type of boring bar or shank
- relative accuracy over the full-scale adjustment is better than 95%
- outstanding repeatability, negligible backlash ensured by constantly applied preload to adjustment mechanism

Smartbore

- boring system adjustable to 1 μm on diameter (over 0.3mm)
- remote, digital readout...
- ...comprising of LCD display with touchpad
- low power radio link between bar and reader relays adjustment data



- all Smartbore tools designed to suit specific applications
- tools available for any machine spindle with multiple cutting edges per tool
- easy to use reader: only one is required for any number of boring bars

Standard Products

Micron-adjustable Boring Units (MBU)

- adjustable to 1 μm on radius
- pre-tensioned to eliminate backlash
- dedicated size



UFP cartridges (micro-adjustable)

- 5 μm graduations on diameter (over 0.3 mm)
- exceptional durability
- expanded range

Standard Boring Bars

- wide selection of bars sold as standard
- majority of parts sold from stock



ISO (Side Mount) Cartridges

- available in a wide range of styles and sizes for all applications

Inserts

- a variety of inserts available for machining a wide range of materials
- new range of inserts for Cast Iron and Aluminium
- exceptional material removal rates
- outstanding durability



RIGIBORE

SPECIALISTS IN PRECISION BORING TOOLS

www.rigibore.com

Special tool manufacture

Hi-tech Tooling:
Smartbore
ActiveEdge

Micron-adjustable
Boring Units (MBUs)

UFP cartridges

Standard Boring Bars

ISO Lay-in Cartridges

Inserts

Fast Quotation/Fast Delivery

Extensive Experience

Quality and Reliability

Customer Focus

Recognising the need to continuously upgrade and improve our product range in order to keep up with a rapidly evolving marketplace, Rigibore is firmly committed to a number of extensive R&D programmes.

Having pioneered the use of IT in systems such as RADS - the Rigibore Automated Design System - to rationalise our Special Tool service, we are now bringing to market a range of further exciting new technologies.

Our Smartbore and ActiveEdge systems promise to revolutionise the high-tolerance engineering environment with significant enhancements to ease-of-use and accuracy.

Smartbore is a manual, cartridge-based boring system that facilitates micron adjustment of cutting edges by providing a remote digital readout.

ActiveEdge goes one further by enabling precise adjustment of multiple cutting edges remotely - via a radio-link - without touching the tool. Uniquely, ActiveEdge thus holds the key to radical productivity gains for precision manufacturing operations everywhere.

Our commitment to new technologies has resulted in a number of awards - notably the Institute of Mechanical Engineers Manufacturing Excellence Award (2002) and Best Practice in IT and Customer Focus Award (2003).

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innovation, technology and quality in

design and manufacture

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