Cutting edge boring technology

- Precise adjustment down to 1 µm/.00004” on diameter
- Easy-to-read digital adjustment display
- Optional remote display device
- Ideal for tight tolerance precision manufacturing
- Allows multiple Smartbore® cutting edges per tool
- Adjuster tool compatible with multiple Smartbore® cartridges
Rigibore® Smartbore®...

is available built-in or as a cartridge-based solution. Offering unprecedented ease-of-use, adjustments are easily legible on a digital readout. When tools are more difficult to access and read, the adjustment data can be relayed to a secondary remote display.

Key statistics include:
- Minimum bore 28 mm/1.1” on diameter for cartridge, 16 mm/.63” if built-in (with adjusting slide incorporated into boring bar)
- Adjustment to 1 µm/.00004” on diameter over a range of 0.6 mm/.024”
- Adjuster tool is compatible with multiple Smartbore® cartridges
- Multiple Smartbore® cartridges on a single boring bar
- Built-in rechargeable power pack for the adjuster tool

Smartbore® cartridges exhibit excellent repeatability and rigidity thanks to an adjustment mechanism that incorporates a constantly applied preload. They are self-contained and derive power directly from the adjuster tool.

This means:
- The machine spindle requires no modification
- Smartbore® bars can be carried in a standard magazine and tool management system
- Smartbore® cartridges are easily replaceable

setting the standards...
Adjustment = 0.001 mm/.00004” per division on diameter
Axial Adjustment (X) = 1.0 mm/.040”

<table>
<thead>
<tr>
<th>Cartridge Number</th>
<th>D (min Bore)</th>
<th>F*</th>
<th>A</th>
<th>L1</th>
<th>Insert</th>
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<td>28 1.1</td>
<td>16 0.630</td>
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<td>55.5 2.185</td>
<td>CC or CP.0602..</td>
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<td>95° RH</td>
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<td>16 0.630</td>
<td>0.3 0.012</td>
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<td>90° RH</td>
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</table>

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For all technical enquiries in USA and Mexico telephone 262 363 3922
Featuring fast and straightforward micron-accurate adjustment to the cutting edge, Smartbore® is ideal for precision single and multi-point boring requirements.

The adjustment can easily be made at arm’s length and is clearly displayed on a digital LCD either on the adjustment tool itself or on a remote display.

Available in replaceable cartridge or built-in configurations, the set-up requires no modification of the machine spindle or boring bar.

Delivering pioneering accuracy and ease-of-use Smartbore® empowers manufacturers to achieve radical productivity gains by reducing bottlenecks and promoting improved quality/standards.