

RIGIBORE®



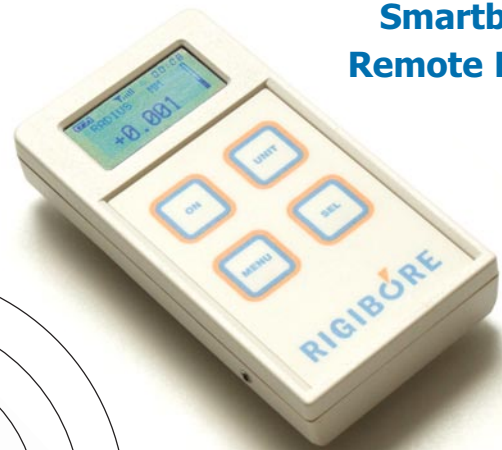
Smartbore®

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

**Smartbore®
Remote Reader**

**Tool with
Smartbore®
Cartridge**



**Smartbore®
Adjuster**

**RF Data
Transmission
between
Adjuster and
Remote Reader**

setting the standards...

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.

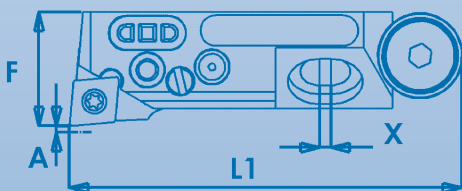
This means:

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



...for engineering innovation

Cartridge Number	D (min Bore)		F*		A		L1		Insert	Datum Insert Rad	Approach
	mm	inch	mm	inch	mm	inch	mm	inch			
SB-UFP-0695	28	1.1	16	0.630	0.3	0.012	55.5	2.185	CC or CP..0602..	0.4	95° RH
SB-UFP-0695 - LH	28	1.1	16	0.630	0.3	0.012	55.5	2.185	CC or CP..0602..	0.4	95° LH
SB-UFP-07120	36	1.417	20	0.787	0.3	0.012	58.5	2.303	DC or DP..0702..	0.4	120° RH
SB-UFP-07120 - LH	36	1.417	20	0.787	0.3	0.012	58.5	2.303	DC or DP..0702..	0.4	120° LH
SB-UFP-1195	36	1.417	20	0.787	0.3	0.012	55.5	2.185	TC or TP..1102..	0.4	95° RH
SB-UFP-1195 - LH	36	1.417	20	0.787	0.3	0.012	55.5	2.185	TC or TP..1102..	0.4	95° LH
SB-UFP-1290	75	2.953	32	1.260	0.3	0.012	107	4.213	CC1204..	0.8	90° RH
SB-UFP-1690	75	2.953	32	1.260	0.3	0.012	107	4.213	TC1603..	0.8	90° RH



Adjustment = 0.001 mm/.00004" per division on diameter
 Axial Adjustment (X) = 1.0 mm/.040"

For all technical enquiries in UK, Europe and ROW telephone +44 (0) 1736 755 355
 For all technical enquiries in USA and Mexico telephone 262 363 3922



Smartbore® unit built into a boring bar as a Fine Adjusting Slide (FAS - minimum bore 16 mm/.63")

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.

World: Rigibore® Ltd

Guildford Road Industrial Estate
Hayle TR27 4BA
United Kingdom
Tel: +44 (0)1736 755355
Fax: +44 (0)1736 756100
E-mail: mail@rigibore.com
www.rigibore.com

USA: Rigibore® Inc

700 Swan Drive
Mukwonago
WI 53149, USA
Tel: 262 363 3922
Fax: 262 363 3685
E-mail: mail@rigiboreinc.com
www.rigiboreinc.com