



Smartbore

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Smartbore
Micron accurate cutting edge tool adjuster

Finish boring tools with digital adjustment & display
Accurate to one micron on diameter

Smartbore Plus+

The Smartbore Plus boring head is suitable for a range of bore sizes. Adjustment is quick and simple using coarse adjustment and fine adjustment using the Smartbore Adjuster.

Smartbore Plus+ Overview

Smartbore Plus boring heads cover a range from 15mm diameter.

SB-M15	15mm/0.590 inches - 18.5mm/0.728 inches	(CC insert)
SB-M18	18mm/0.709 inches - 22mm/0.866 inches	(TP/CC insert)
SB-M20	20mm/0.787 inches - 31mm/1.220 inches	(TP/CC insert)
SB-M30	30mm/1.338 inches - 41mm/1.614 inches	(CC insert)
SB-M40	40mm/1.574 inches - 51mm/2.007 inches	(CC insert)

Micron Accurate Adjustment

The coarse adjustment capability allows the tool to be set quickly and accurately across a range of bore sizes. There is 3.5mm of coarse adjustment on diameter.

Micron accurate fine adjustments are made using the Smartbore Adjuster (Digital Torx Wrench). Coarse and fine adjustment measures combine to offer flexibility and accuracy in setting bore sizes.



A range of bore sizes can be quickly covered using the coarse adjustment feature



Rigid design avoids the risk of movement from clamping / unclamping

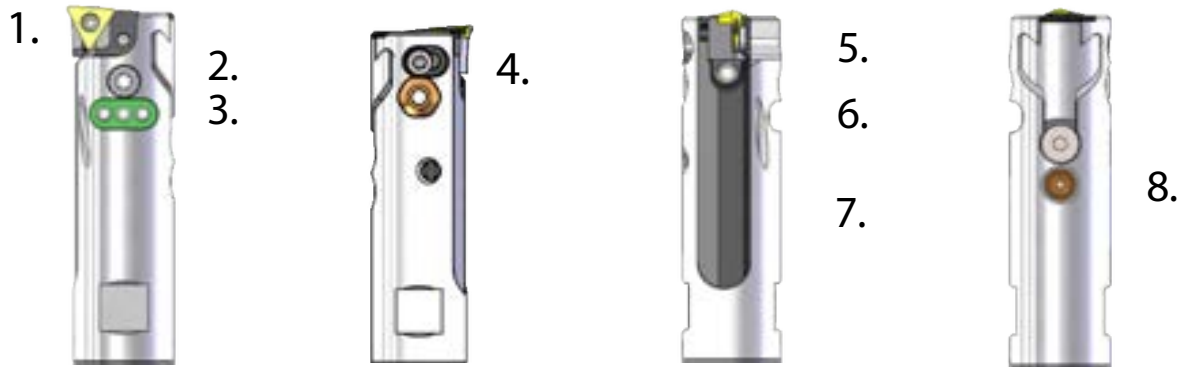


For optimal performance the Smartbore Plus head should be mounted in a precision collet chuck



The Smartbore Plus boring head range supports CC04, CC06 & TP08 inserts

Smartbore Plus Technical Specifications



Smartbore Plus+ Components

1. Insert	2. Fine Adjustment Torx Screw	3. Electronic Interface	4. Coarse Adjustment Locking Screw
5. Insert Holder	6. Coarse Adjustment Screw	7. Insert Slide	8. Lubrication Point

Total adjustment range: 0.30mm on radius

Smartbore Plus Head	Part Number	Insert	Diameter Range	Shank Length	Shank Diameter	Tool Body Length	Coarse Adjust	Approach Angle
			mm	mm	mm	mm	mm	°
	SB-M15	CC04	15-18.5	95	14	50	1.75	93°
	SB-M18 *	CC06 TP08	18-22	77.5	16	57	2.0	93°
	SB-M20 *	CC06 TP08	20-31 **	75	18	46	5.5	93°
	SB-M30	CC06	30-41**	100	25	50	3	93°
	SB-M40	CC06	40-51**	130	25	50	3	93°

* SB-M18 & SB-M20 are supplied with insert shoes to suit both CC06 and TP08 inserts.

** Diameter is achieved across two separate insert shoes.

**All Smartbore Plus heads are supplied with the shank..

Smartbore Plus+ Spares & Accessories

Part Number	 Hexagon Wrench for Clamp Screw	 Insert Screw	 Torx Wrench for Insert Screw	 Smartbore Adjuster	 Battery Recharger	 Grease Gun
SB-M15	R28	TS21	R27	SB-ADJ187	SB-CHR07	UFGP-00
SB-M18-CC06 SB-M18-TP08	R28	RS2560	R37	SB-ADJ187	SB-CHR07	UFGP-00
SB-M20-CC06 SB-M20-TP08	R28	RS2543	R37	SB-ADJ187	SB-CHR07	UFGP-00
SB-M30	R38	RS2543	R37	SB-ADJ187	SB-CHR07	UFGP-00
SB-M40	R38	RS2543	R37	SB-ADJ187	SB-CHR07	UFGP-00

CARTRIDGE MAINTENANCE

Smartbore cartridges require regular maintenance to ensure optimal performance and durability, especially when machining cast iron



Grease Nipple

Greasing Process

The greasing process is designed to flush out small chips and machining dust that may build up in the cartridge mechanism. Grease should be pumped into the cartridge via the grease nipple until it emerges clean from around the slide as shown.

The correct operation and micron accuracy of the adjustment will be negatively affected unless the schedule below is adhered to.

Essential Maintenance

Material / Usage	Heavy Usage	Medium Usage	Light Usage
Ferrous (Cast Iron) - no coolant	3 / week	2 / week	1 / week
Ferrous (Cast Iron)	2 / week	1 / week	1 / week
Ferrous (Steel)	1 / week	1 - 2 weeks	1 / month
Non-ferrous	1 - 2 weeks	1 / month	6 / year

Grease & Grease Applicator



Our grease applicator is supplied with a refill with approx 120g of grease.

Grease applicator / gun can be purchased from Rigibore

Part Number: UFGP-00
Grease Gun & Refill

Part Number: UFGP-00RFL
Grease Refill

Rigibore recommends
Castrol Tribol GR 100-1 PD

