



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/0.590inches - 18.5mm/0.728 inches (CC insert)

SB-M18 18mm/0.709inches - 22mm/0.866 inches (TP/CC insert)

SB-M20 20mm/0.787inches - 31mm/1.220 inches (TP/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



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

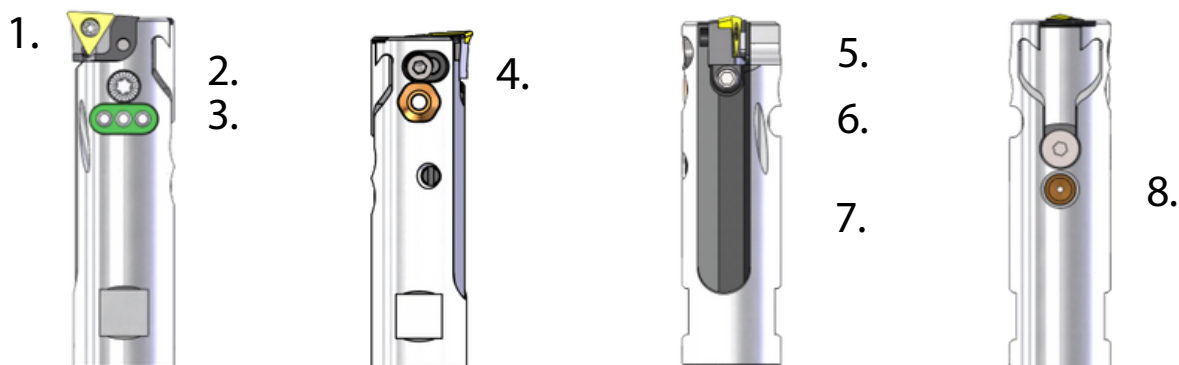


Rigid design avoids the risk of movement from clamping / unclamping



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	Diameter Range	Shank Length	Shank Diameter	Tool Body Length	Coarse Adjust	Approach Angle
		mm	mm	mm	mm	mm	°
	SB-M15	15-18.5	95	14	50	1.75	93°
	SB-M18-CC06 SB-M18-TP08	18-22	77.5	16	57	2.0	93°
	SB-M20-CC06 SB-M20-TP08	20-31 *	75	18	46	5.5	93°

* Diameter is achieved across two separate insert holders covering 20-26mm & 25-31mm

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	UFPG-00
SB-M18-CC06 SB-M18-TP08	R28	RS2560 RS2560	R37	SB-ADJ187	SB-CHR07	UFPG-00
SB-M20-CC06 SB-M20-TP08	R28	RS2543 RS2543	R37	SB-SDJ187	SB-CHR07	UFPG-00

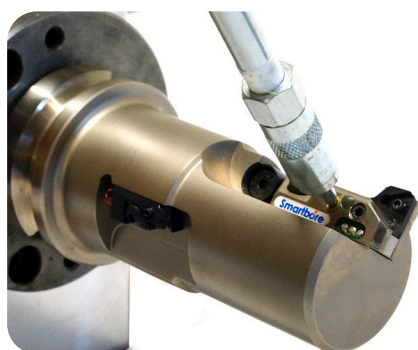
Smartbore Plus+ is available to purchase in the following combinations

Boring Head	Shank & Boring Head	Insert Holder	Boring Set
SB-M15	SB-M15-SH	CC..04	SB-M15-SET
SB-M18-CC06	SB-M18-CC06-SH	CC..06	SB-M18-CC06-SET
SB-M18-TP08	SB-M18-TP08-SH	TP..08	SB-M18-TP08-SET
SB-M20-CC06	SB-M20-CC06-SH	CC..06	SB-M20-CC06-SET
SB-M20-TP08	SB-M20-TP08-SH	TP..08	SB-M20-TP08-SET

Purchasing Smartbore Plus+ as a boring set provides a saving over purchasing parts individually

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



<https://rigibore.com>

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