

FT7

Auto Centering(Automatic) Cylinder Boring Machine



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The machine and its features

Features

FT7 represent latest technology in engine block boring, Technological evolution has enabled us to develop a new generation of machines that are in the forefront of the rebuilding sector.

Simple to operate, in spite of the introduction of greater electronic features, the FT7 is the right choice even for those operators without a deep knowledge of electronics.

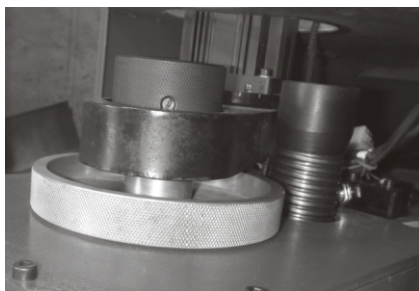
Speed

FT7 have the same high performance AC servo motor, delivering up to 1000 RPM. Thanks to Automatic centering design and programmed boring cycle, 6 cylinder in line block $\text{\O}125 \times 250$ mm takes 20 minutes and 90° V8'blocks $\text{\O}100 \times 180$ mm takes 16 minutes.

Flexibility

FT7 have variable feed rates that allow you to maximize the performance of the machine. Increase spindle feed rates for simple oversize bores. Decrease feed rates for sleeve cuts or counter bores.

Quick Cutterhead Change Draw Bar System

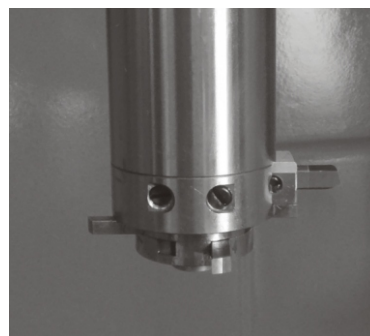


Reliability

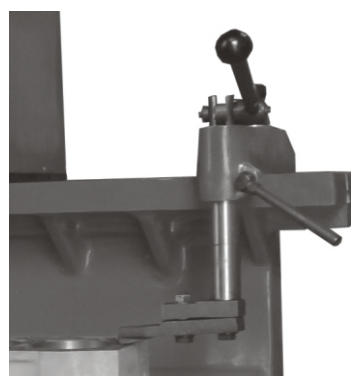
FT7 use a high-speed, cogged belt drive system. Entirely eliminates the gear box. With fewer moving parts, and a superior design, FT7 becomes a much more reliable boring machine than other designs of equipment.

Easy operation

4 centering rod and air floating head make the centering job Fast and Easy than ever, thanks for this new design, we do not need centering gauge any longer.



Universal clamping brackets to reduce block set-up time



Accuracy

FT7 uses a precision ground ball screw to control feed rate and cutter position.

Automatic Centering Accuracy 0.02mm

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Automation

FT7 have programmable boring cycles and automatic centering cycles.

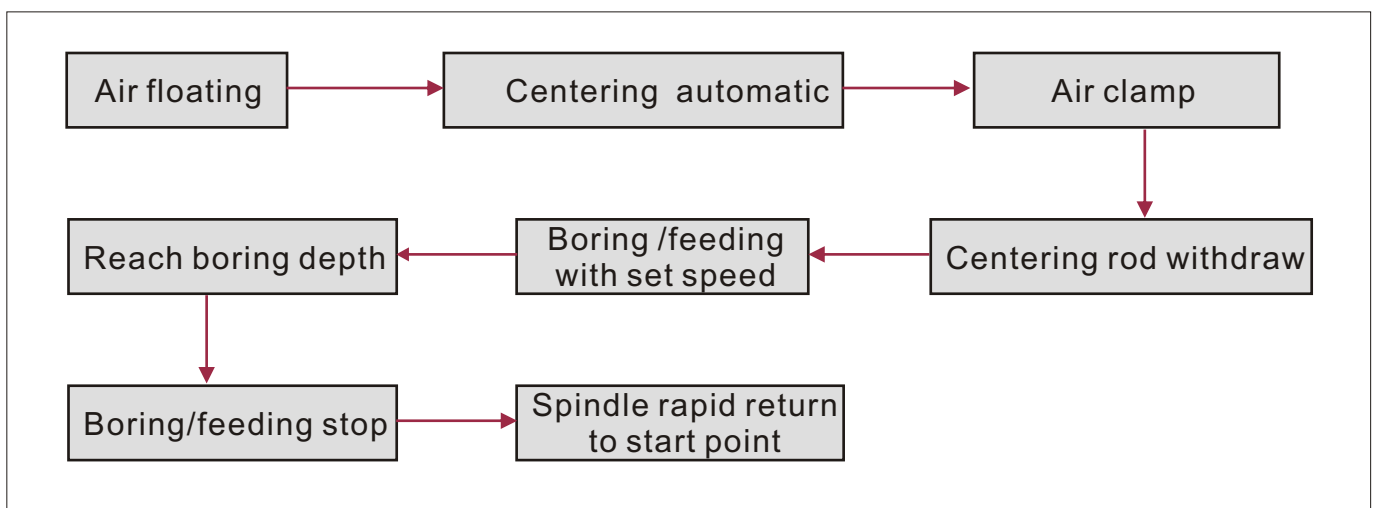


Working procedure

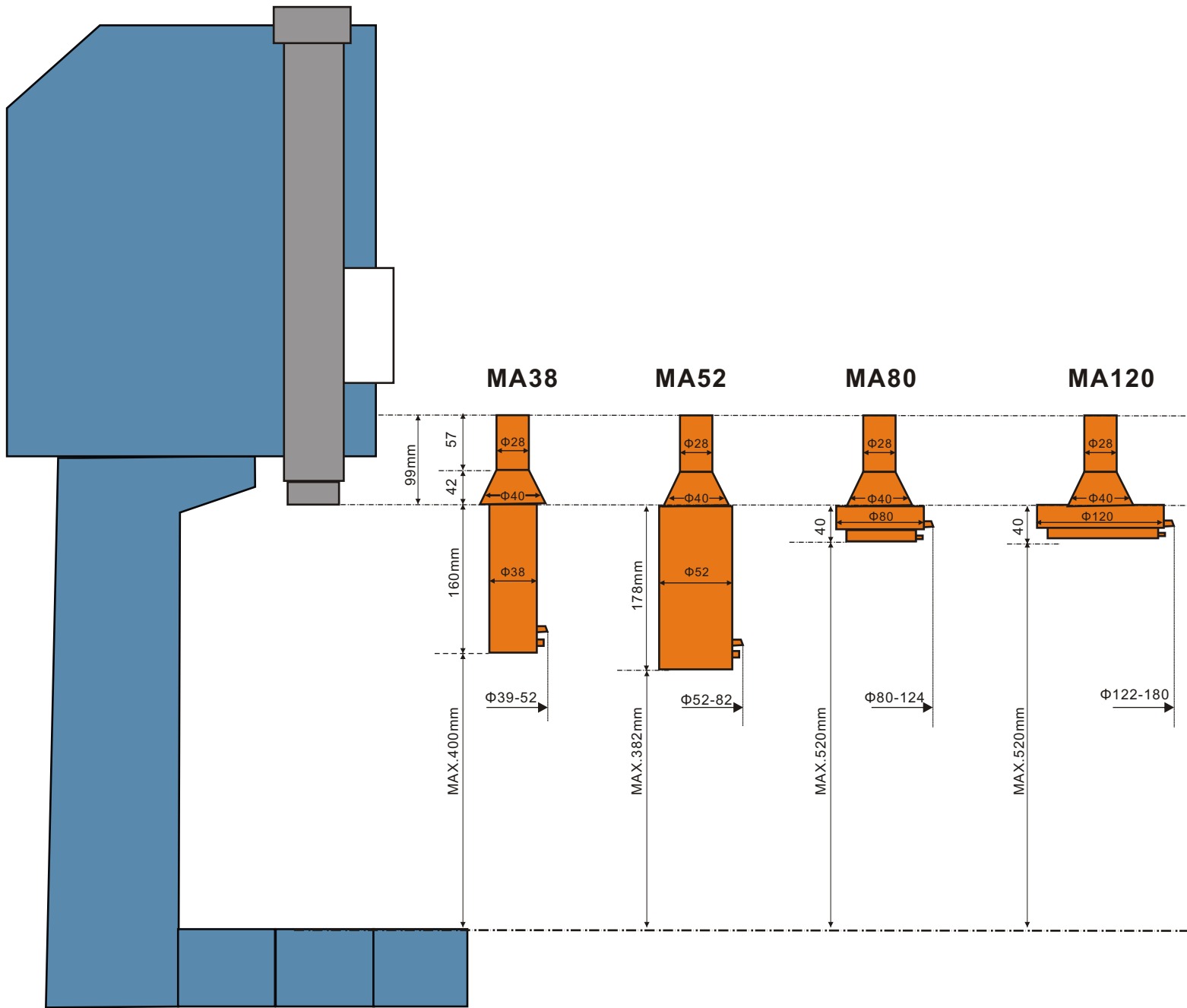
Set Boring depth, Feed speed and spindle speed(this can be adjusted during boring)

Move the spindle to start point, which is Self memorized.

Push Start, follow steps is automatic



The machine and its components

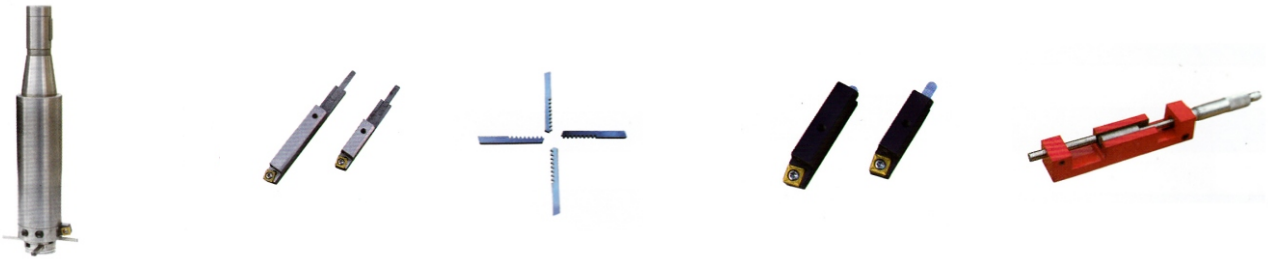


The machine and its components

1 Spindle $\Phi 39\text{-}\Phi 53$ mm



2 Spindle $\Phi 51\text{-}\Phi 83$ mm



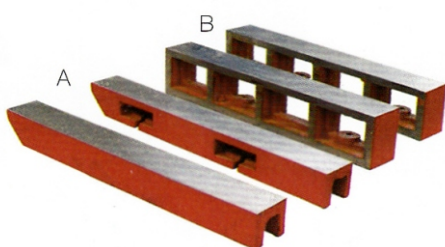
3 Spindle $\Phi 80\text{-}\Phi 160$ mm



4 Spindle $\Phi 120\text{-}\Phi 180$ mm



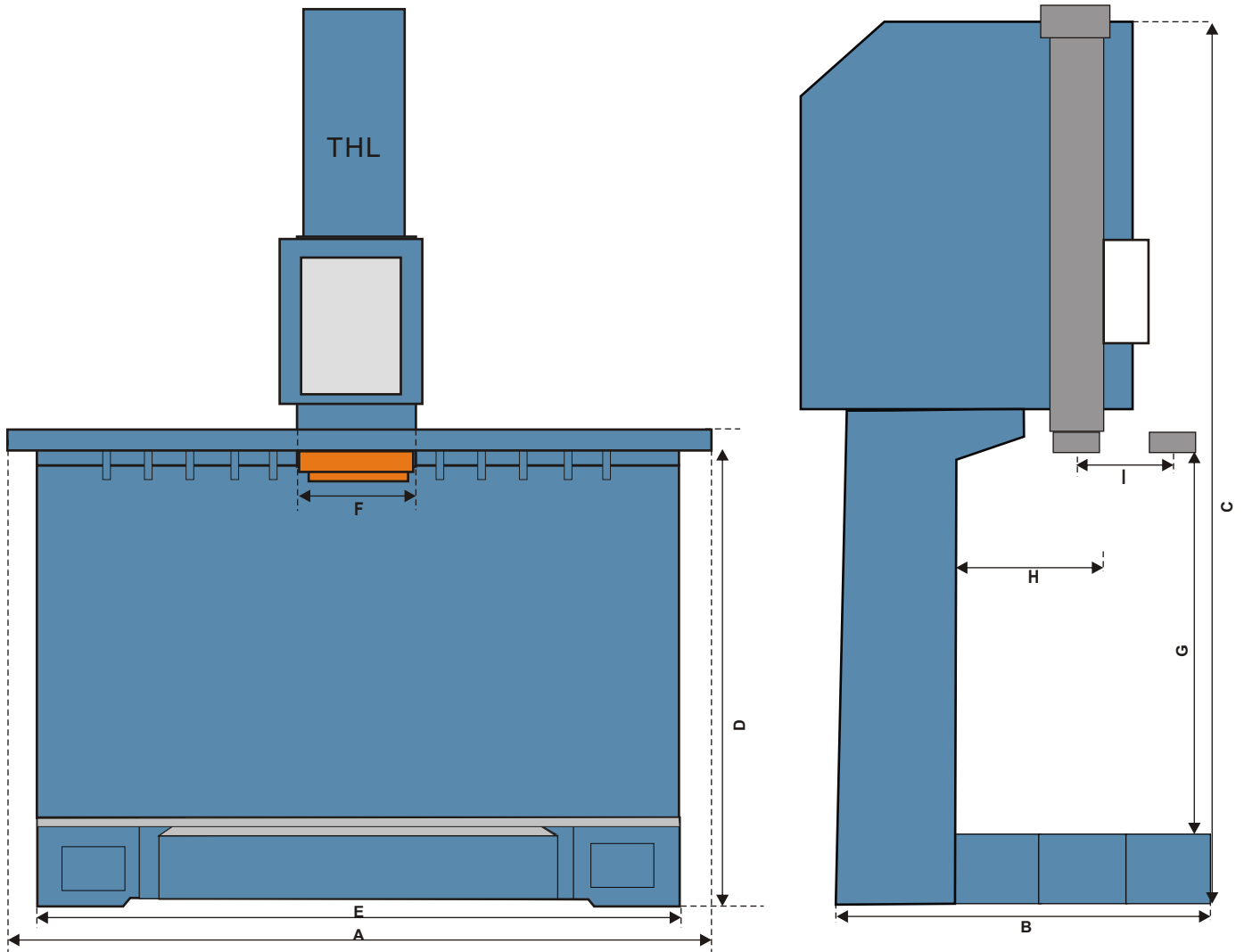
5 Parallel Block A 60x70x610mm
B 70x100x550mm



6 V-type Cylinder Fixture



Technical data



MODEL	units	FT7
Working capacity		
Bore capacity	mm	39-180
Max. spindle travel vertical	mm	400
Working stroke programming		electronic
Spindle speed RPM		
Number of spindle speeds	number	stepless
Feed per revolution		
Spindle rapid travel in both directions	mm/min	960
Feed per revolution	mm/rev.	0-0.5
Variable spindle feed		stepless
Step feed		selectable
Spindle motor	kW	1.5
Overall dimensions		
Length (A)	mm	1600
Width (B)	mm	950
Height (C)	mm	2100
Base height (D)	mm	920
Maximum inside admitted length (E)	mm	1180/1580
Boring unit width (F)	mm	280
Cutterhead to machine base (G)	mm	560
Max. distance between cutterhead and base (depth capacity) (H)	mm	280
Cutterhead traverse stroke (I)	mm	45
Weight		
Weight of standard version with equipment	kg	1500/1800
Package size(LxWxH)	mm	1750X1350X2200
Perpendicularity \perp 0.02mm in vertical length 300mm		