S H Engineering
Complete Automation Solution

BOREMEMATIC SHE-BL-3000

Tech/Specifications

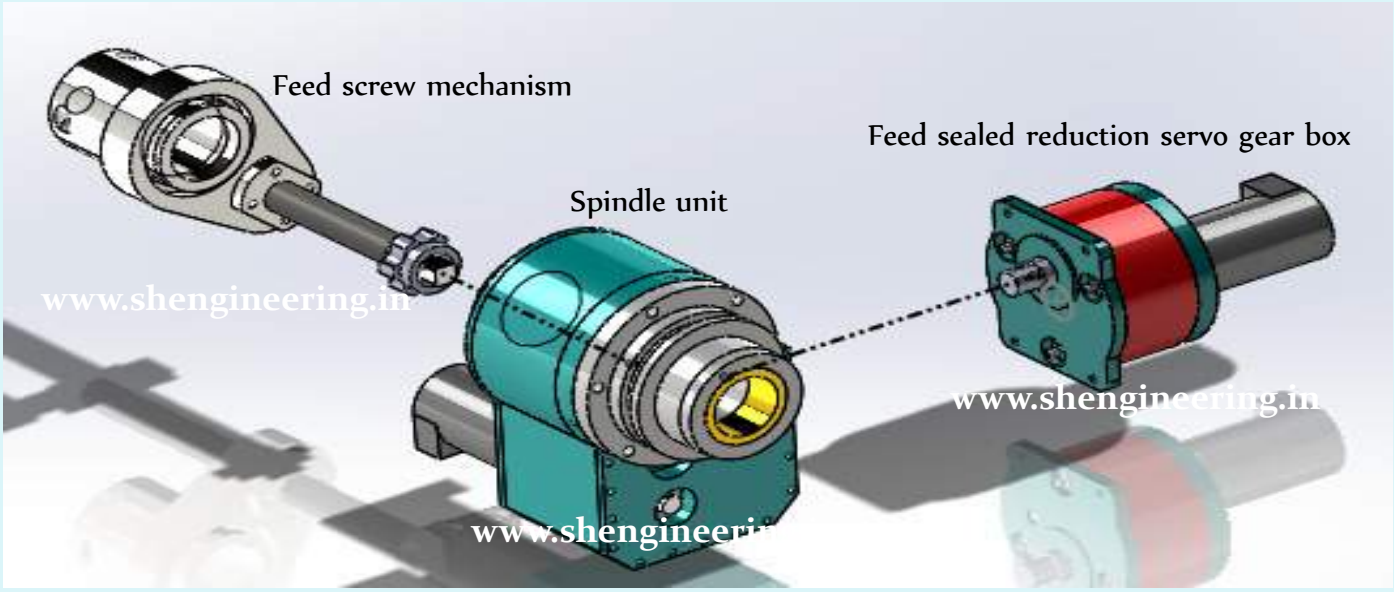
The Borematic BL-3000 is composed of portable in line boring. SHE is developed the portable machine tools have different advantages .

The main technical features of Borematic portable machine are :

- Borematic main body main spindle
- Feed sealed reduction servo gear box
- Feed screw mechanism
- Switch gear panel box.
- Spindle Servo motor 750w
- Feed servo motor 400w

The main features of the machine is less handling weight ,machine fixing divided three methods and easily man can fixing very less time .main body ,feed gearbox and feed screw. Unit function controlled by control pendent.

Control pendent will be having control push buttons for machine start/stop, auto/jog, jog CW/jog CCW, feed motor speed variator, spindle speed variator, feed stop button, emergency button.

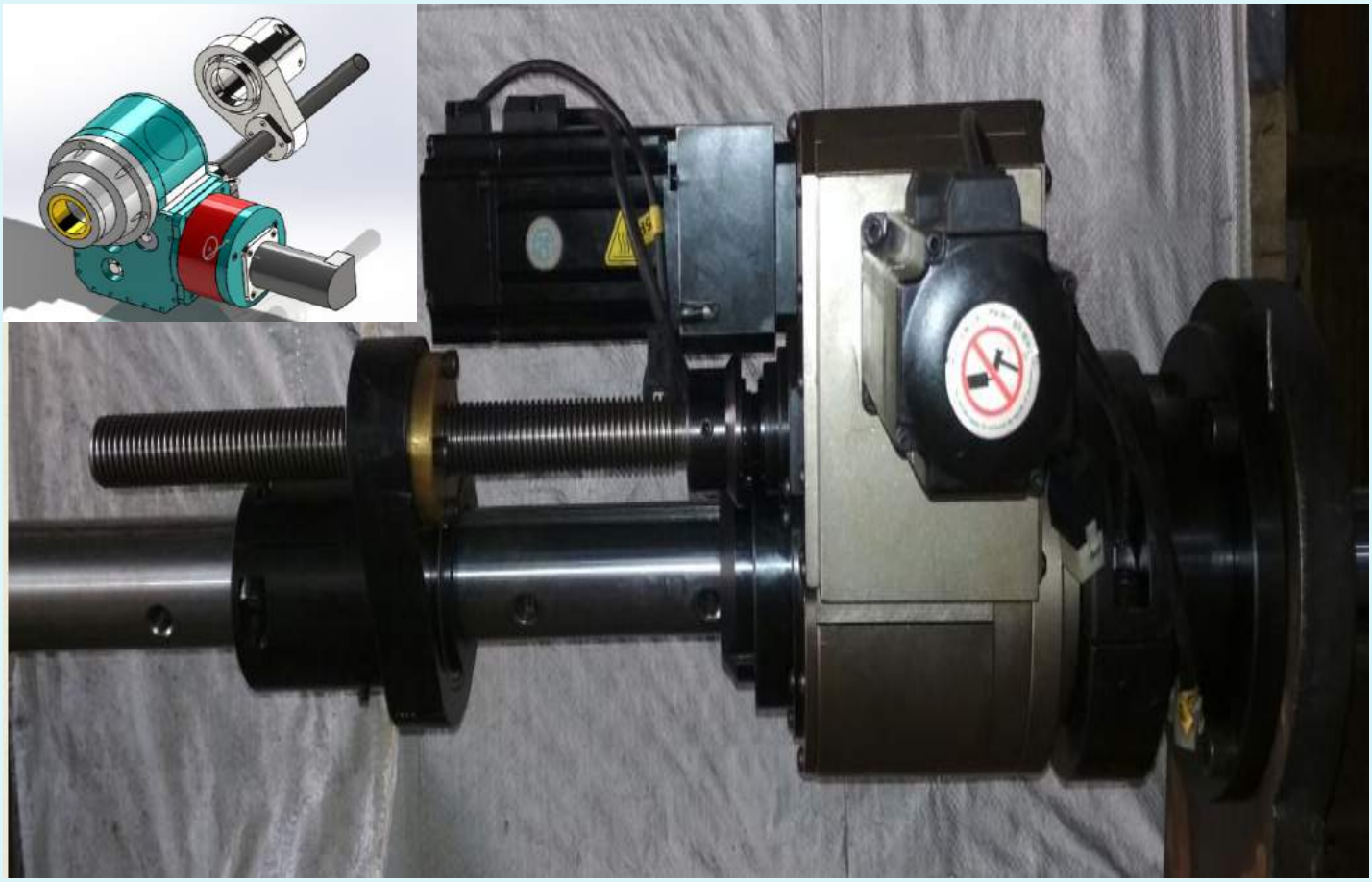


Maximum out put speed 30~200 and sufficient servo motor with speed gearbox system .

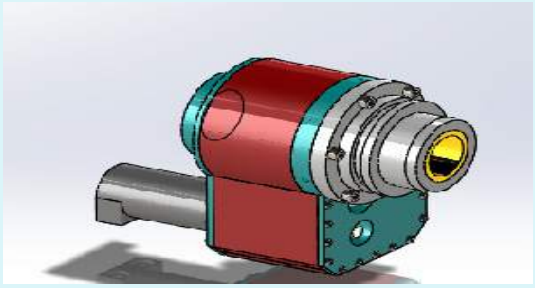
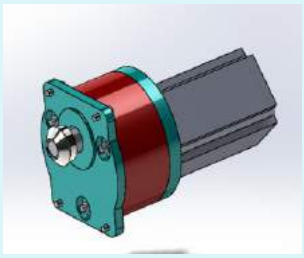
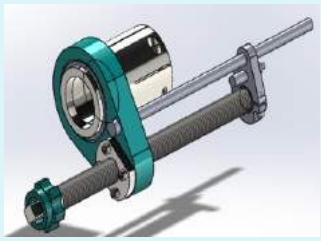
Unlimited longitudinal stroke. Fine speed servo controller unit. Use of servo motors for rotational speed,with servo controlled reduction gear box operations for feed mechanism.
limit is given by the length of the connectable boring bars. and the different signs left by the tool-holder at the beginning and end of the limited feed.

The Borematic series has been created with an attention to a user-friendly interface.
User voltage the machine at 415 volts (three phase).

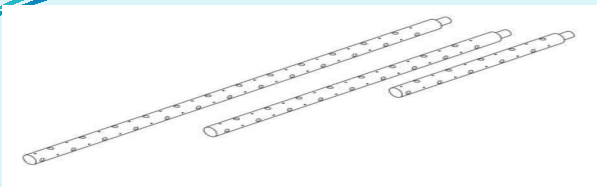
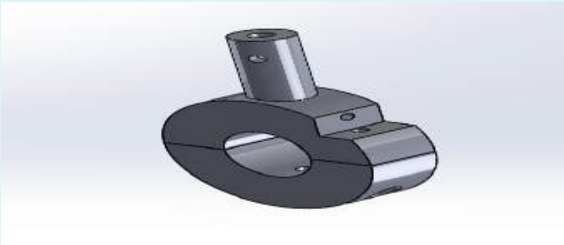
For ordering Borematic unit specify your requirement by mail. Welding and measuring functional unit are optional series.



SUPPLY COMPOSITION:-

SHE BOROMATIC BL MACHINE unit  main body main spindle  Feed sealed reduction servo gear box  Feed screw mechanism	▪Boring capacity dia 400-300 mm bore (In line boring dia 60-300 mm up to length 300omm) ▪300mm cutting tool travelling ▪auto feed control system ▪Torque 126 NM ▪Variable speed up to 200 rpm ▪Machine weight 42 kg
Control panel box & Control pendent	Unit function controlled by control pendent. Control pendent will be having control push buttons for machine start/stop, jog CW/jog CCW, feed motor speed variator, spindle speed variator, feed stop button, emergency button. Panel Box: 380x380x210 750w Spindle motor 400w Drive motor

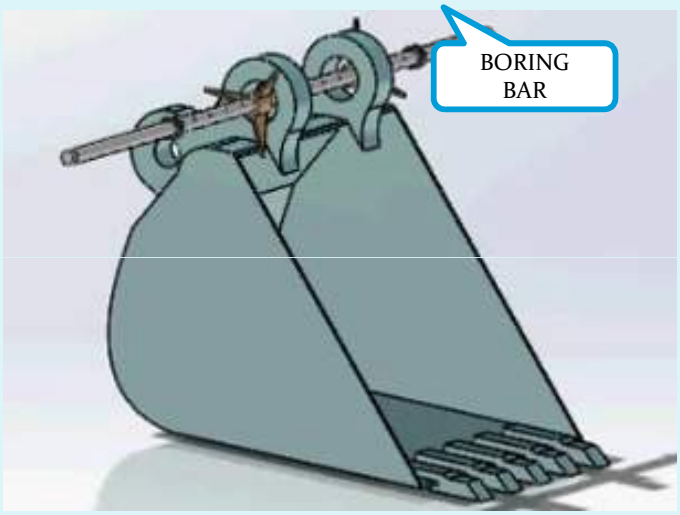
ACCESSORIES

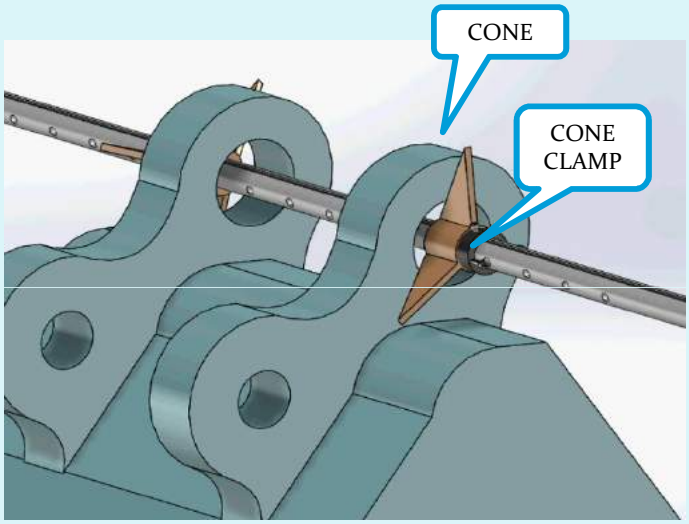
Dia 50MM BORING BAR, 2000mm length 	Staggered dia 16 mm tool ports every 100 mm along the bar. •Tool ports are broached and threaded. •Chrome plated and polished bar
Large Bore holder 	The large bore holder clamp securely to 50mmboring bar. The large bore adapter supports the tool bit to accommodate larger bores over 100mm in diameter.
Centring cone 	•Steel Cones. •Precision alignment
Head mounting unit 	• Bearing for support the boring bar •The head part is easily mounted on the Borematic unit •Replaceable bolts are welded to fix on the work.
End bearing support 	End bearing support is a Bearing for support the boring bar on the opposite side of the machine unit. Replaceable bolts are welded to fix on the work.

SETUP AND OPERATIONS

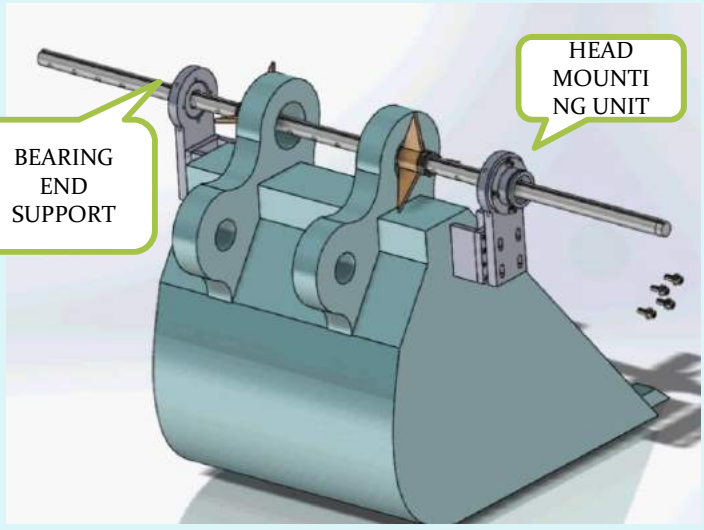
Setup and operation of the SHE BOROMATIC BL 3000 Portable Boring Machine is very easy to handle and An experienced operator can set up the machine in most typical two-bore line boring applications in about half an hour (depending on alignment tolerances).

1 -Slide the bar through the two holes to be bored and roughly centre it with the set-up cones. locked onto the bar with a cone clamp.

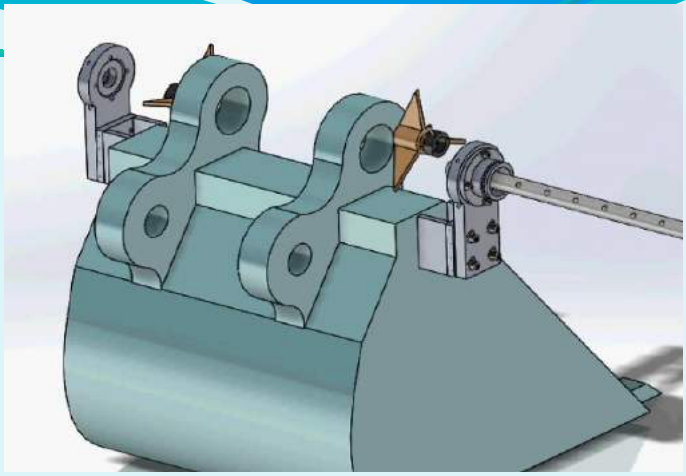




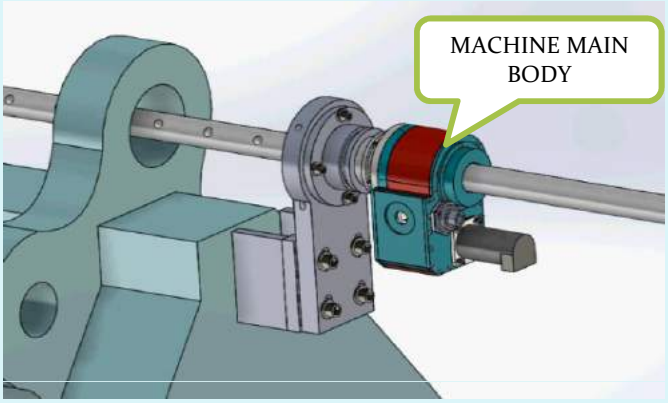
2-Slide on head mounting unit and end bearing support with tack weld plates, and tack weld them to the work piece. These mounts have spherical bearings so they can be mounted up to 5° out of perpendicular alignment.



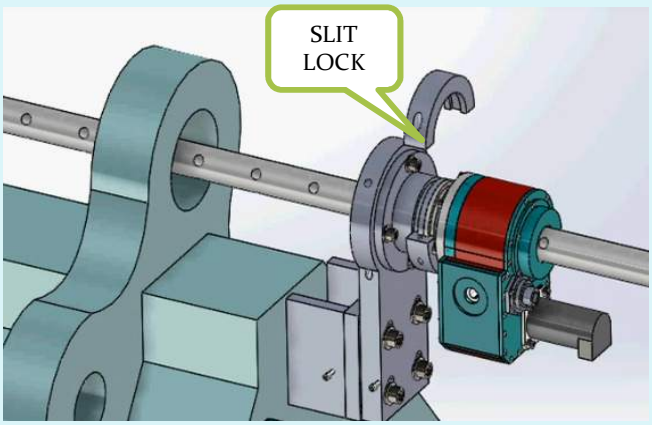
3-Remove the set-up cones and replace the bar. The set-up cones will adequately centre the bar, unless you have very precise tolerances, or need to move the centreline of the bore slightly. Final cantering adjustments are made with the jacking screws.



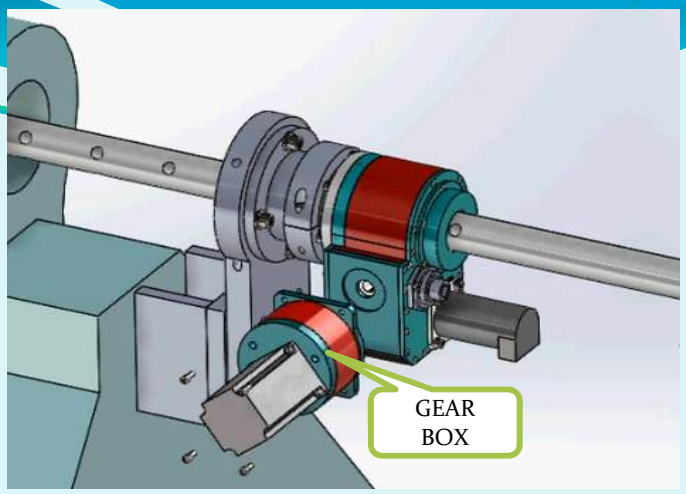
4-Slide the BOROMATIC unit onto the bar. Firmly push it onto the head mounting unit, and lock it in place with bolt.



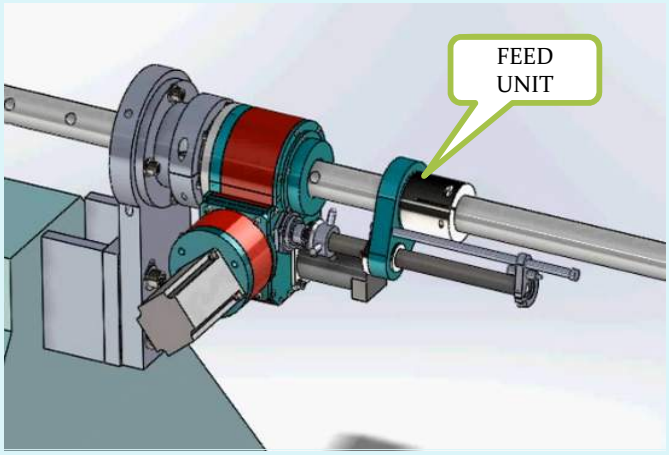
5-lock the machine head unit in front mounting unit using a 2 slit locking block



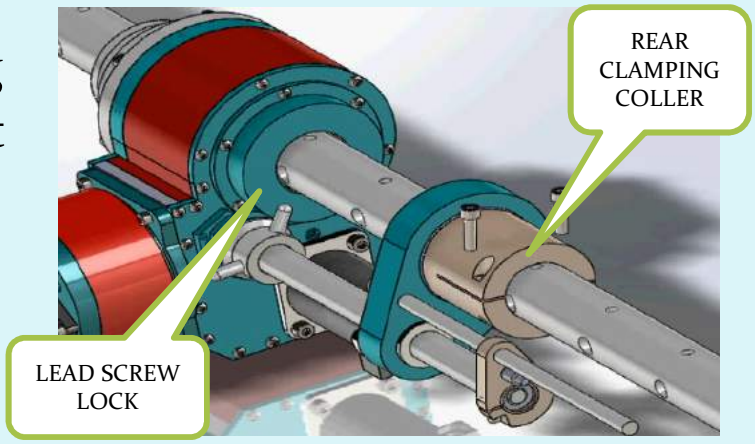
6-Insert and lock the gear box unit on the machine and tighten the screw.



7- insert the feed mechanism unit to machine unit, using the given square port for inserting lead screw . And tight to lock the lead screw .



8-Tight the rear clamping collar enough to snug ,so that the bar can slide through it.



9- Insert a properly ground tool bit into the tool hole in the bar, adjust for depth of cut, and lock in place with the set screw. Connect to power source.