



AUTOMATIC DOUBLE END BORING MACHINE

THE OVALITY OF THE PIPE TO BE BORED SHOULD BE WITHIN 0.5 MM
LESS OVALITY ENSURES GREATER ACCURACY

- AUTOMATIC TWIN HEAD BORING MACHINE WITH CAST IRON BED •



WELDMAN SYNERGIC PVT.LTD
an ISO 9001 : 2015 Certified Company
+91 9836621216
www.weldmansynergic.com/www.welden.in

WELDMAN SYNERGIC PRIVATE LIMITED

SPECIAL FEATURES OF THE TWIN HEAD AUTOMATIC BORING MACHINE

• ROBUST CAST-IRON CONSTRUCTION

- Built with a heavy-duty cast-iron body, this machine guarantees exceptional durability and stability, even under demanding conditions. Engineered for longevity, it delivers reliable performance for years of continuous operation.

• INTUITIVE AND USER-FRIENDLY OPERATION

- The machine features a 7" Human-Machine Interface (HMI) for effortless control of boring depth. Only the tool setting is manual. Its intuitive design ensures operators to quickly master the system, minimizing training time and boosting productivity time. The entire machining operation is completed within a fraction of a minute.

• EFFICIENT SIMULTANEOUS MACHINING:

- This machine performs simultaneous facing boring and outer chamfering on both ends of the idler pipe, significantly reducing processing

• PRECISE & AUTOMATED PLC BASED OPERATION:

- Equipped with two 5 HP motors, one for each head, for rotary motion of the cutting spindle.
- The machining sequence is fully automated and controlled by a PLC, enhancing ruggedness and repeatability.
- Movement of the heads is precise, starting at a rapid speed, slowing down to machining speed near the job, and then returning to the HOME position rapidly after completion.

• ADVANCED CLAMPING SYSTEM FOR SUPERIOR QUALITY:

- Job clamping and de-clamping are managed by two hydraulic motor-operated vices.
- The unique clamping mechanism, using two sets of horizontal clamps operated by hydraulic motors and gears, divides any error in pipe diameter equally, leading to better quality machining of the idler pipe.

• VERSATILE MACHINING CAPABILITIES:

- Suitable for conveyor tubes/pipes with diameters ranging from 76 mm to 194.7 mm and lengths from 200 mm to 2200 mm, utilizing two vices.
- Standard boring depth is 12 mm, but the machine can be customized for longer boring lengths. We have already manufactured and supplied machines capable of boring up to a depth of 70 mm.

• INTEGRATED COOLING SYSTEM:

- The Machine features a closed-circuit cooling system utilizing a mixture of distilled water and coolant. It is advisable to use BLASOCUT 2000 CF coolant (mixed in a 1:10 ratio) for optimal cut performance.

TECHINCAL SPECIFICATIONS :	
Operating Pressure of Hydraulic System	40 – 50 BAR
Spindle Speed	572 RPM
Maximum Diameter Of Pipe	194.7 mm
Minimum Diameter Of Pipe	76 mm
Feeding Speed	0.3-0.6 mm/sec
Cutting Depth (can be increased)	10 mm
Spindle Motor Two Numbers	5 HP/3.7KW
Hydraulic Power Pack Motor	2 HP / 105 KW
Weight (Approximately)	3.2 TON
Dimension (L x W x H) (Approximately)	
Processing Precision	0.3-0.5 mm

Note : Company's policy is one of continuous research and development, hence we reserve the right to modify the specification given in this brochure.

WELDMAN SYNERGIC PRIVATE LIMITED

Mahamayatala (Garia), Laskarpur, Kolkata – 700 153, India
Phone : +91 9836621216

Email : sm@weldmansynergic.com, Website : www.weldmansynergic.com/www.welden.in

