



BVC-1600X

Cylinder Boring and Surface Milling Machine

HEAVY-DUTY CYLINDER BORING MACHINE

 **MADE IN BRAZIL**



OTHER VIEWS



Fixture table with multiple holes for workpiece positioning on BVC-1600X boring machine



Cast iron engine block being milled on BVC-1600X milling machine with rotating cutting tool



Cast iron engine block being milled on BVC-1600X cylinder boring machine by Chinelatto

Precision boring Ø39-160MM and milling 1500MM surface capacity. Variable speed 30-800 rpm for professional engine rebuild shops



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Technical Specifications

CAPACITY

Boring capacity with standard accessories	Ø55 ~ 130 mm
Boring capacity with optional accessories	Ø39 a 160 mm
Surface milling capacity	1.500 x 320 mm

WORKSPEED

Variable speed rotating (spindle)	30 ~ 800 rpm
Variable speed - vertical advance	50 ~ 1.000 mm/min
Automatic forward speed table	40 - 80 mm/min

DIMENSION / DISTANCE

Maximum longitudinal advance	1.800 mm
Maximum cross advance	150 mm
Table dimensions - length x width	1.560 x 500 mm
Vertical advance - spindle head	800 mm
Column distance - axis spindle	345 mm
Height between table - milling headstock	1.200 mm

ELECTRIC POWER

Normal electric power	220 volts - 60hz - 3 fases
Motor power	6,15 cv

DIMENSIONS - WEIGHT

Machine dimensions (length x width x height)	2,26 x 1,62 x 2,23 m
Running machine dimensions (length x width x height)	3,9 x 1,6 x 2,9 m
Maritime packing (length x width x height)	3,3 x 1,8 x 2,54 m
Net - gross approx. weight	3.300 kg / 3.900 kg

STANDARD ACCESSORIES

- Spindle n° 1 range boring cylinders Ø55 ~ 85 mm;
- Spindle n° 2 range boring cylinders Ø80 ~ 130 mm;

STANDARD ACCESSORIES (CONT.)

- Indicators for measure with micrometers;
- Head-dial Indicator for centering;
- Micrometer dial indicator to approach - column;
- Tools block:
- 02x Ø 20 x 40 mm - 1 welded and 1 industrial insert;
- 02x Ø 20 x 50 mm - 1 welded and 1 industrial insert;
- 02x de Ø 20 x 60 mm - 1 welded and 1 industrial insert;
- 02x de Ø 20 x 70 mm - 1 welded and 1 industrial insert;
- Tools chamfer;
- Centering device;
- Pair of cast iron shims to fix blocks;
- Lubrication pump machine installed;
- Sub-flat surface grinding head;
- Cone ISO 40;
- Plate holder flat surface grinding tool diameter 320 mm;
- Welded widia blade to rectify flat surface;
- Mobile protection against chips can em operator;
- Service tools: 1/8 "-5/32" -3/16 "and M12;
- Washers, nuts, fixing cans;

OPTIONAL ACCESSORIES

Spindle n° 1 range boring cylinders Ø39 ~ 55 mm;	Spindle n° 1 range boring cylinders Ø100 ~ 160 mm;
Cradle for "V" blocks - without inclination - 30° and 45°	Cradle for "V" blocks - with inclination - 30° and 45°
Movable device to camp and to change spindles	Technical specifications subjected to change.

Specifications subject to change without notice. Some capacities listed may require optional accessories. Confirm exact dimensions during quotation.



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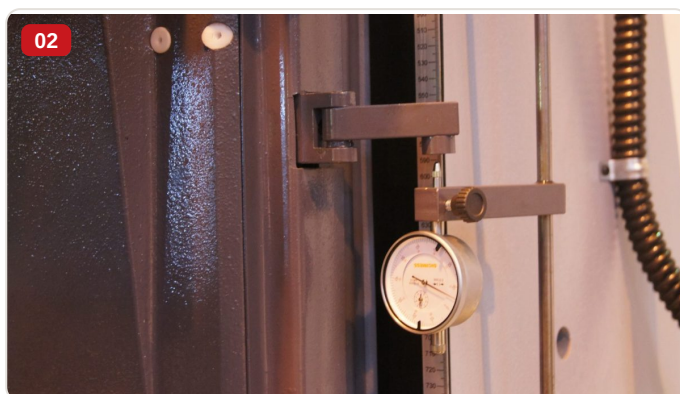
CYLINDER BORING AND SURFACE MILLING MACHINE



Accessories, fixtures and details



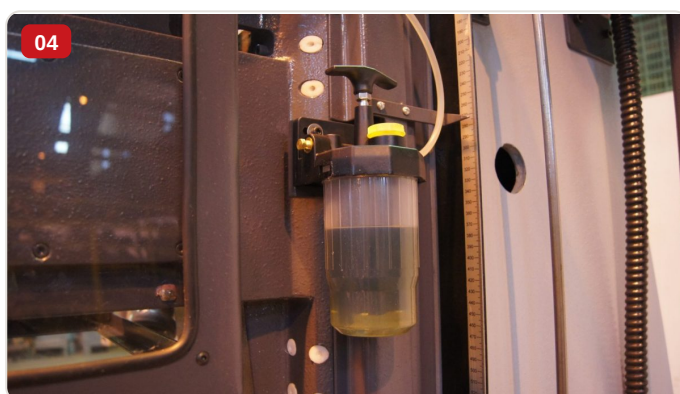
Standard accessory — Boring head of BVC-1600X machine with tool holder spindle and installed boring tool



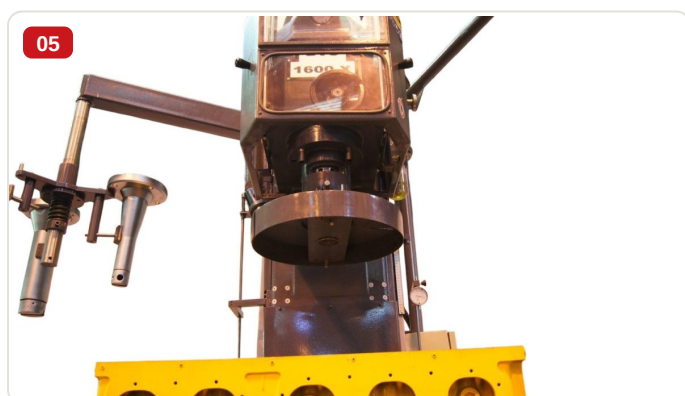
Standard accessory — Precision dial indicator with articulated mount on BVC-1600X boring machine Chinelatto



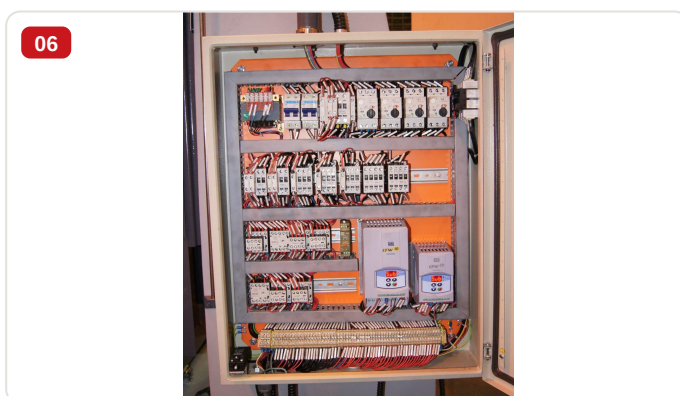
Detail — BVC-1600PAAX control panel with on/off buttons and graduated knobs for boring machine



Standard accessory — Lubrication system with transparent reservoir for BVC-1600X boring machine



Detail — Boring head of BVC-1600X with tool spindle and dial indicator for workpiece centering



Detail — Electric control panel of BVC-1600X boring machine with contactors and WEG CFW10 inverters



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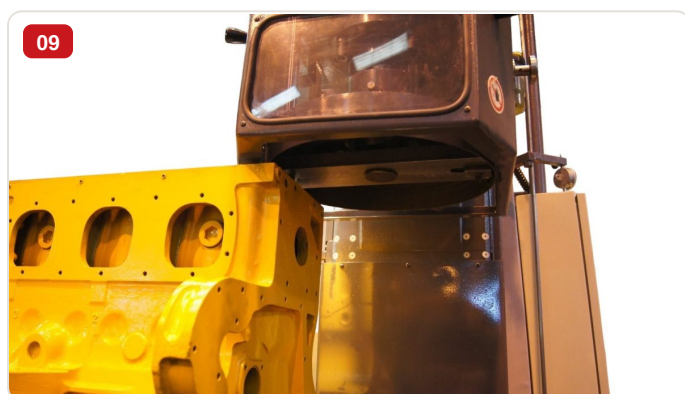
Accessories, fixtures and details (continued)



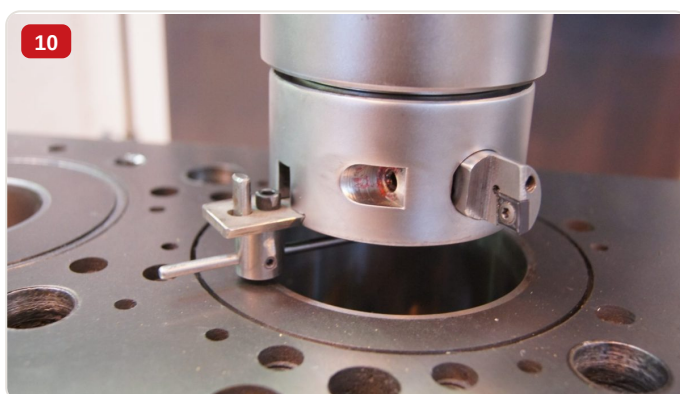
Standard accessory — Electric motor with start/stop control panel of BVC-1600X Chinelatto boring machine



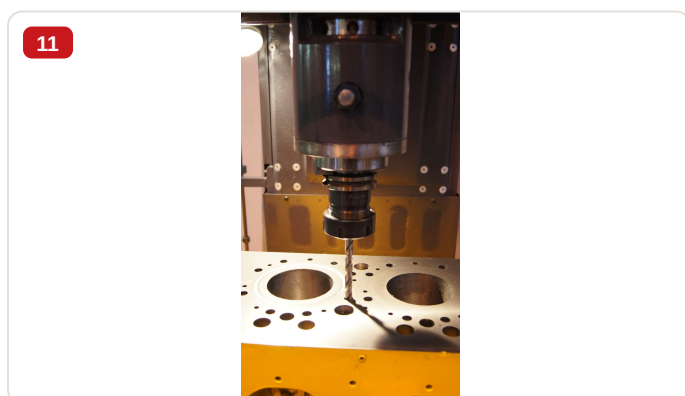
Standard accessory — Centering device with holes for workpiece fixation on BVC-1600X boring machine Chinelatto



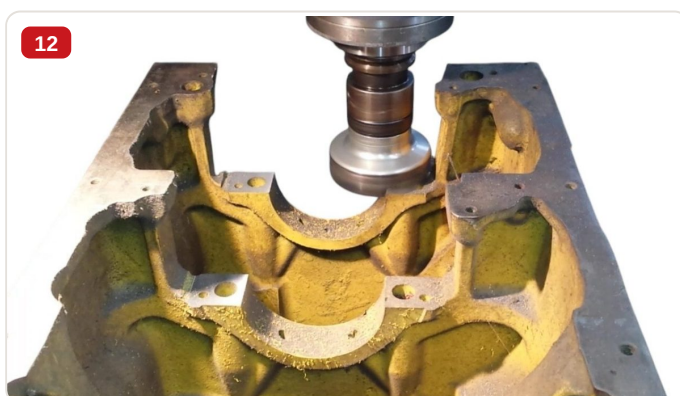
Detail — Cast iron engine block positioned for milling on BVC-1600X boring machine



Detail — Metal tool holder spindle positioned on perforated table of BVC-1600X boring machine



Detail — Helical drill bit machining aluminum workpiece with circular holes on BVC-1600X boring machine



Detail — Cast iron engine block being milled on BVC-1600X boring machine with clamping system



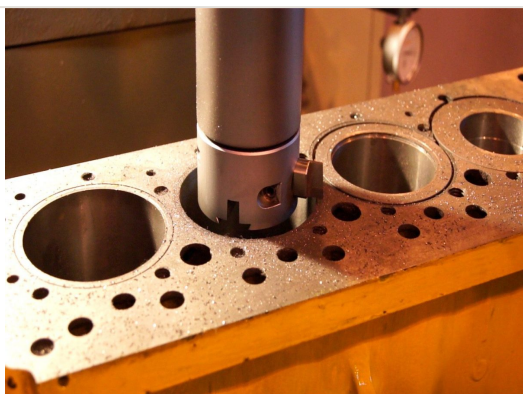
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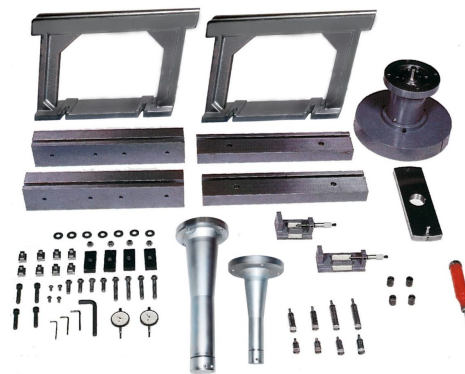
Accessories, fixtures and details (continued)

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Detail — Cast iron engine cylinder head being milled on BVC-1600X boring machine with cylindrical cutting tool

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Standard accessory — Complete accessory and tooling kit for BVC-1600X cylinder boring machine by Chinelatto