



BVC-1400X

Cylinder Boring Machine and Vertical Mill

HEAVY-DUTY CYLINDER BORING MACHINE

 **MADE IN BRAZIL**



OTHER VIEWS



Standard accessory — Control panel



Sheet metal protection against chips

Vertical boring machine for cylinder boring $\varnothing 1.5-5.9$ inches with variable speeds 100-1200RPM. Large 61X20 inch table and 47-INCH useful stroke ensure high productivity in machining operations



BVC-1400X

CYLINDER BORING MACHINE AND VERTICAL MILL



Technical Specifications

CAPACITY

Capacity for boring cylinders with standard tool holder shafts	Ø 55 ~ Ø 130 mm
Capacity for boring cylinders with extra tool holder shaft	Ø 39 ~ Ø 150 mm
Table - dimension: length x width	1.560 x 500 mm
Total longitudinal table stroke	1.400 mm
Useful longitudinal table stroke	1.200 mm
Flat surface milling capacity	1.200 x 320 mm

WORKING SPEEDS

Variable speeds of tool holder shaft rotation	100 a 1.200 rpm
Variable speeds of vertical displacement	40 a 1000 mm/min
Variable speeds of table displacement	10 a 430 mm/min

ELECTRICAL

Standard electrical voltage installed	220 volts - 60hz - 3 phases
Total power of installed electric motors	7,0 cv

WEIGHT

Weights - net / gross - approximate	2.300 kg / 2.700 kg
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STANDARD ACCESSORIES - SUPPLIED WITH THE MACHINE

- Tool holder shaft no. 01 for boring cylinders Ø55 ~ Ø 85 mm;
- Tool holder shaft no. 02 for boring cylinders Ø85 ~ Ø 130 mm;
- Device for measuring shaft no. 01 tool, equipped with 01 micrometer in mm;
- Device for measuring shaft no. 02 tool, equipped with 01 micrometer in mm;
- Dial indicator for centering tool holder shaft installed on machine head;

STANDARD ACCESSORIES - SUPPLIED WITH THE MACHINE (CONT.)

- Dial indicator installed on column for height adjustment;
- Tools with brazed carbide:
 - Piece Ø20 x 40 mm;
 - Piece Ø20 x 50 mm;
 - Piece Ø20 x 60 mm;
 - Piece Ø20 x 70 mm;
- Tools with screwed insert:
 - Piece Ø20 x 40 mm;
 - Piece Ø20 x 50 mm;
 - Piece Ø20 x 60 mm;
 - Piece Ø20 x 70 mm;
- Chamfering tools;
- Mobile pins for centering tool holder shaft in cylinder;
- Pairs of parallel blocks for supporting blocks #50 x 500 mm, #100 x 500 mm, #200 x 500 mm;
- Manual oil lubricator;
- Service wrenches;
- Lubrication pump for column prismatic guides, installed on machine;
- Chip protection installed on machine head;
- Speed variators: (1) tool holder shaft rotation; (1) vertical feed; (1) table feed.

OPTIONAL ACCESSORIES

- Tool holder shaft no. 0 (zero) for boring cylinders Ø39 ~ Ø55 mm, with 02 Tools, with centering device and with tool measuring device with 01 micrometer;
- Tool holder shaft no. 3 (three) for boring cylinders Ø90 ~ Ø160 mm, with 01 tool measuring device with 01 micrometer and with 02 Tools;
- Device for fixing blocks in "V" - fixed degrees at 30° and 45°;



Technical Specifications (continued)

OPTIONAL ACCESSORIES (CONT.)

- Tool sharpener with 01 diamond wheel;
- Mobile arm for accommodating tool holder shafts.
- Technical Specifications Subject to Changes

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

ACCESSORIES, FIXTURES AND DETAILS

01



Standard accessory — Tool holder spindle number 01 from Ø55 to Ø85mm (Ø2.165 to Ø3.346 in) with tool measurement device with 01 micrometer

02



Standard accessory — Tool holder spindle number 02 from Ø80 to Ø150mm (Ø3.15 to Ø5.91in) with tool measuring device with 01 micrometer

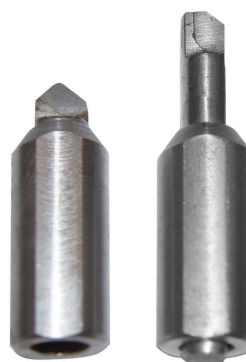
ACCESSORIES, FIXTURES AND DETAILS (CONT.)

03



Standard accessory — (4) Brazed and sharpened carbide insert tools for boring at low speed

04



Standard accessory — (2) Chamfering tools

05



Standard accessory — (4) Screwed insert tip tools for high-speed boring



Accessories, fixtures and details (continued)

06



Standard accessory — Wrench set and service accessories

07



Optional accessory — Tool sharpener with 01 diamond stone and with 01 fixture device with sets for sharpening at different degrees

08



Optional accessory — Extra acc.: Tool holder spindle number 03 from Ø90 to Ø160mm (Ø3.54 to Ø6.30 in) with tool measurement device with 01 micrometer and with 02 tools

09



Optional accessory — Mobile arm to support shafts and facilitate replacement by the operator

10



Optional accessory — Milling sub-head

11



Optional accessory — Internal measurement instrument

