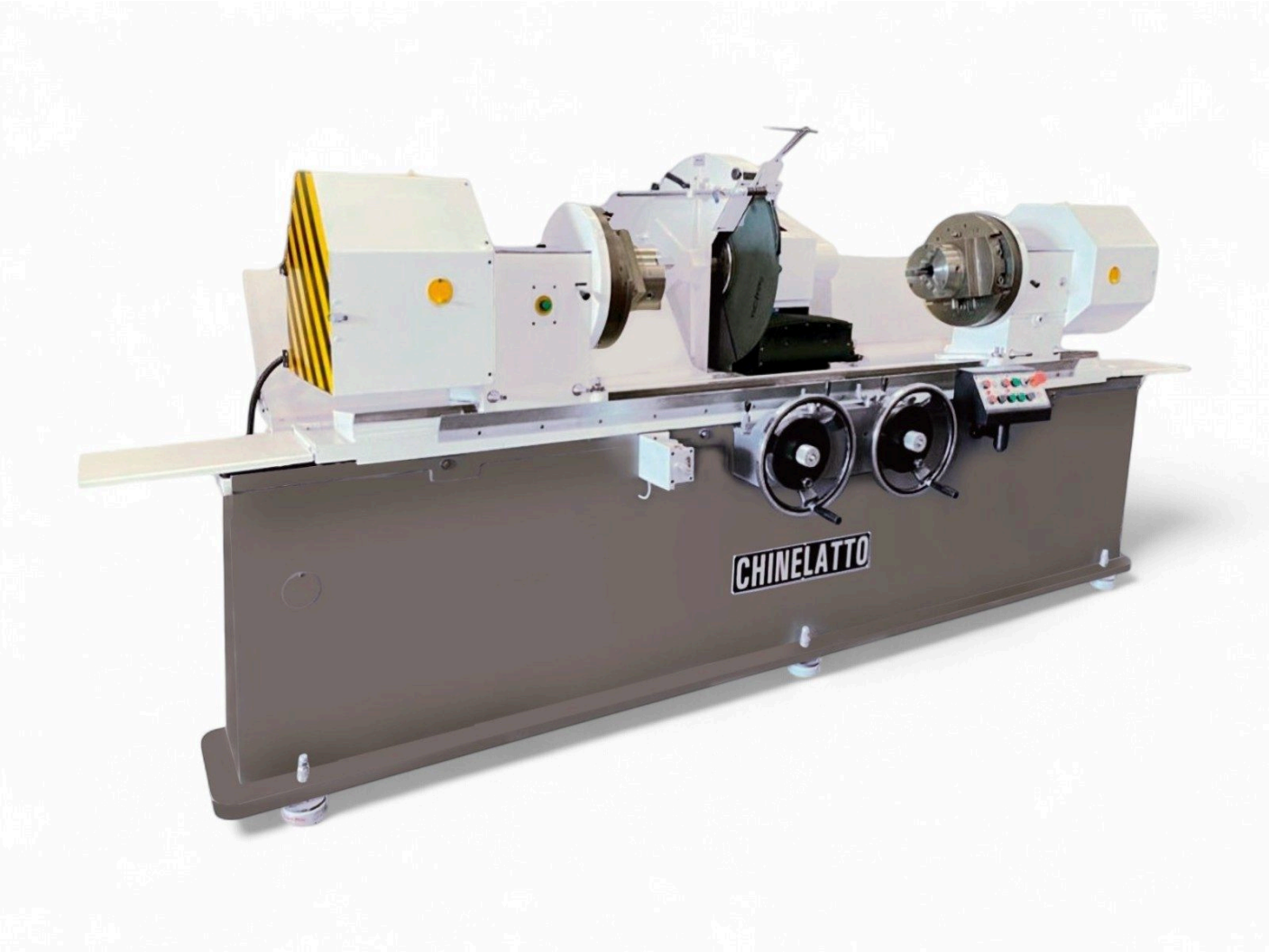
RVC-1800HVP

Hydraulic Crankshaft Grinder 1.8-Meter

CRANKSHAFT GRINDING MACHINE

MADE IN BRAZIL



Hydraulic crankshaft grinder with automatic feed and continuous measurement. Cast iron structure, P4 bearings, 1,800 mm (70.9") center distance, swing up to Ø540 mm (Ø21.3"). Professional precision.



Technical Specifications

CONSTRUCTION FORM

- Entire structure built in ribbed cast iron.
- Grinding wheel head with automatic hydraulic feed.
- Table with automatic feed via gear motor.
- Cross quick-centering plates.
- Accordion-type guideways protection for the grinding wheel head.
- P4 precision bearings in the crankshaft head spindles.
- Electrical panel.
- Continuous measuring device with 01 blade to speed up operation.

CAPACITY

Distance between universal chucks	**1,800 mm (71")**
Maximum swing diameter	**Ø540 mm (Ø21.3")**
Cross centering movement	**80 x 5 mm (3.15 x 0.197")**

CRANKSHAFT HEAD

Center height to table	**270 mm (10.6")**
Variable rotation speeds	**20~100 rpm**
Automatic table feed speed	**3,000 mm/min (118 in/min)**
Universal chuck diameter	**Ø200 mm (Ø7.87")**
Steady rest capacity	**Ø25 ~ Ø125 mm (Ø0.984 ~ Ø4.92")**

GRINDING WHEEL HEAD

Max. diameter of new grinding wheel	**Ø711.2 mm (Ø28")**
Maximum grinding wheel thickness	**43 mm (1.69")**
Minimum grinding wheel thickness	**17 mm (0.669")**
Grinding wheel bore diameter	**Ø203.2 mm (Ø8")**
Grinding wheel rotation speed	**1,150 rpm**

GRINDING WHEEL HEAD (CONT.)

Grinding wheel head feed speed	**2,000 mm/min (79 in/min)**

MOTORS

Total motor power	**7.62 hp**

ELECTRIC POWER

Standard electrical supply	**220V - 60Hz - 3 phase**

DIMENSIONS - WEIGHT

Floor space in operation	**5.9 x 2.5 m (232 x 98")**
Machine dimensions with packaging	**3.9 x 2.2 x 2.1 m (154 x 87 x 83")**
Net weight	**3,950 kg (8,708 lb)**
Gross weight	**4,800 kg (10,582 lb)**

STANDARD ACCESSORIES

- (01) Grinding wheel - Ø711.2 x 19 mm (Ø28 x 0.75") with 01 wheel flange
- (01) Coolant pump with tank
- (02) Universal chucks Ø200 mm (Ø7.87") with jaws and keys
- (01) Wheel radius and face dresser (without diamond)
- (01) Primary centering device
- (01) Crankshaft fine centering device
- (01) Continuous measuring device
- (02) Steady rests
- (01) Grinding wheel removal wrench
- (02) Center points
- (01) Lubrication pump
- (01) Grinding wheel carriage counterweight
- Supplementary counterweight



Technical Specifications (continued)

STANDARD ACCESSORIES (CONT.)

- (01) Splash guard
- (09) Anti-vibration pads

OPTIONAL ACCESSORIES

- Grinding wheel - Ø711.2 mm x thickness 17 x 203.2 mm (Ø28 x 0.67 x 8")
- Grinding wheel - Ø711.2 mm x thickness 19 x 203.2 mm (Ø28 x 0.75 x 8")
- Grinding wheel - Ø711.2 mm x thickness 25 x 203.2 mm (Ø28 x 0.98 x 8")
- Grinding wheel - Ø711.2 mm x thickness 32 x 203.2 mm (Ø28 x 1.26 x 8")
- Grinding wheel - Ø711.2 mm x thickness 38 x 203.2 mm (Ø28 x 1.5 x 8")
- Grinding wheel - Ø711.2 mm x thickness 43 x 203.2 mm (Ø28 x 1.69 x 8")
- Wheel flange - "extra"
- Wheel balancer with 01 dummy shaft
- Coolant filter paper
- Diamond

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 — Crossed fast centering plates

02



Standard accessory — Hydraulic

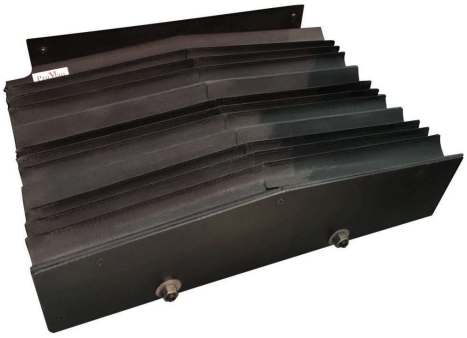
03



Standard accessory — Lubrication pump

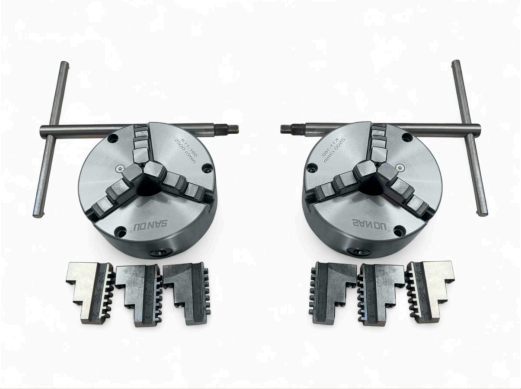
Accessories, fixtures and details (continued)

04



Detail — Accordion protection wheel head

05



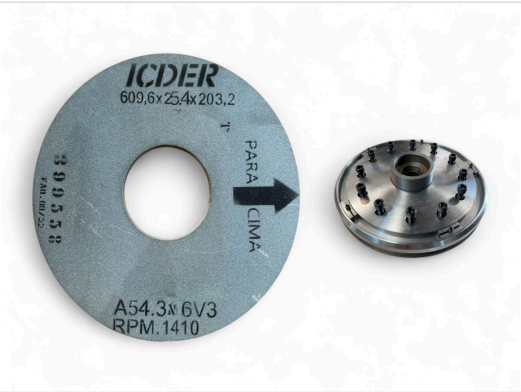
Standard accessory — 02 universal chucks Ø200 mm (Ø7.87") with jaws and keys

06



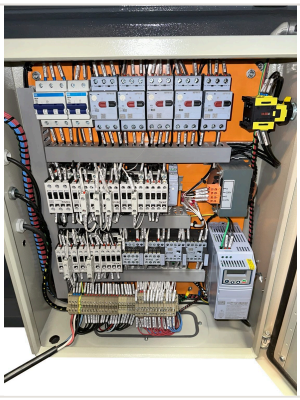
Detail — Grinding head counter weight

07



Standard accessory — Grinding wheel Ø711 x 19 mm (Ø28 x 0.75") with 01 flange

08



Detail — Electrical panel

09



Standard accessory — Continuous journal sizing gauge

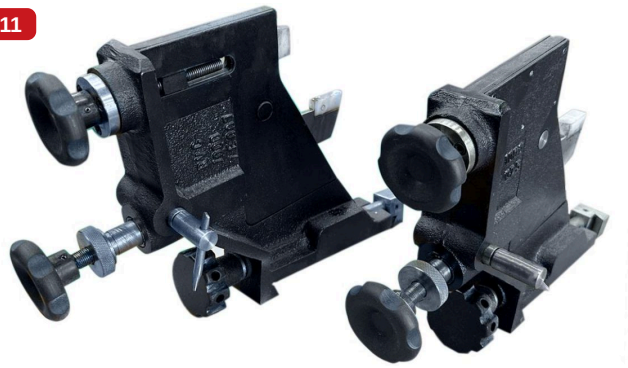
Accessories, fixtures and details (continued)

10



Standard accessory — Crankshaft centering fixture with dial indicato

11



Standard accessory — 02 Steady rest

12



Standard accessory — Crankshaft journal checking square

13



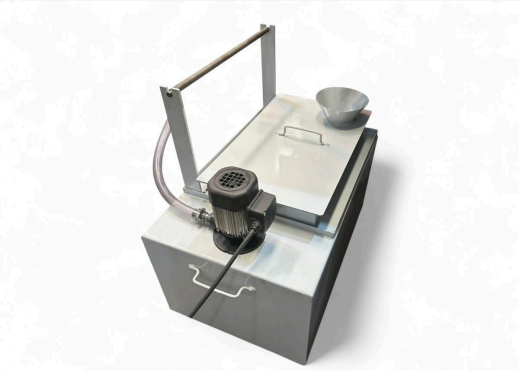
Standard accessory — 02 Center Points

14



Standard accessory — Wheel face, side and radius dresser without diamond

15



Standard accessory — Coolant pump with tank



Accessories, fixtures and details (continued)

16



Standard accessory — Addition counter weight

17



Standard accessory — Grinding wheel extraction key

18



Standard accessory — 09 Anti-vibrators

19



Optional accessory — Grinding wheel - Ø711 mm (Ø28") - thickness: 17 - 19 - 25 - 32 - 38 - 43 mm (0.67 - 0.75 - 1 - 1.26 - 1.5 - 1.69")

20



Standard accessory — Splash protection

21



Optional accessory — Flanges of grinding wheel



Accessories, fixtures and details (continued)

22



Optional accessory — Device for balancing grinding wheel

23



Optional accessory — Filter paper

24



Optional accessory — Diamond