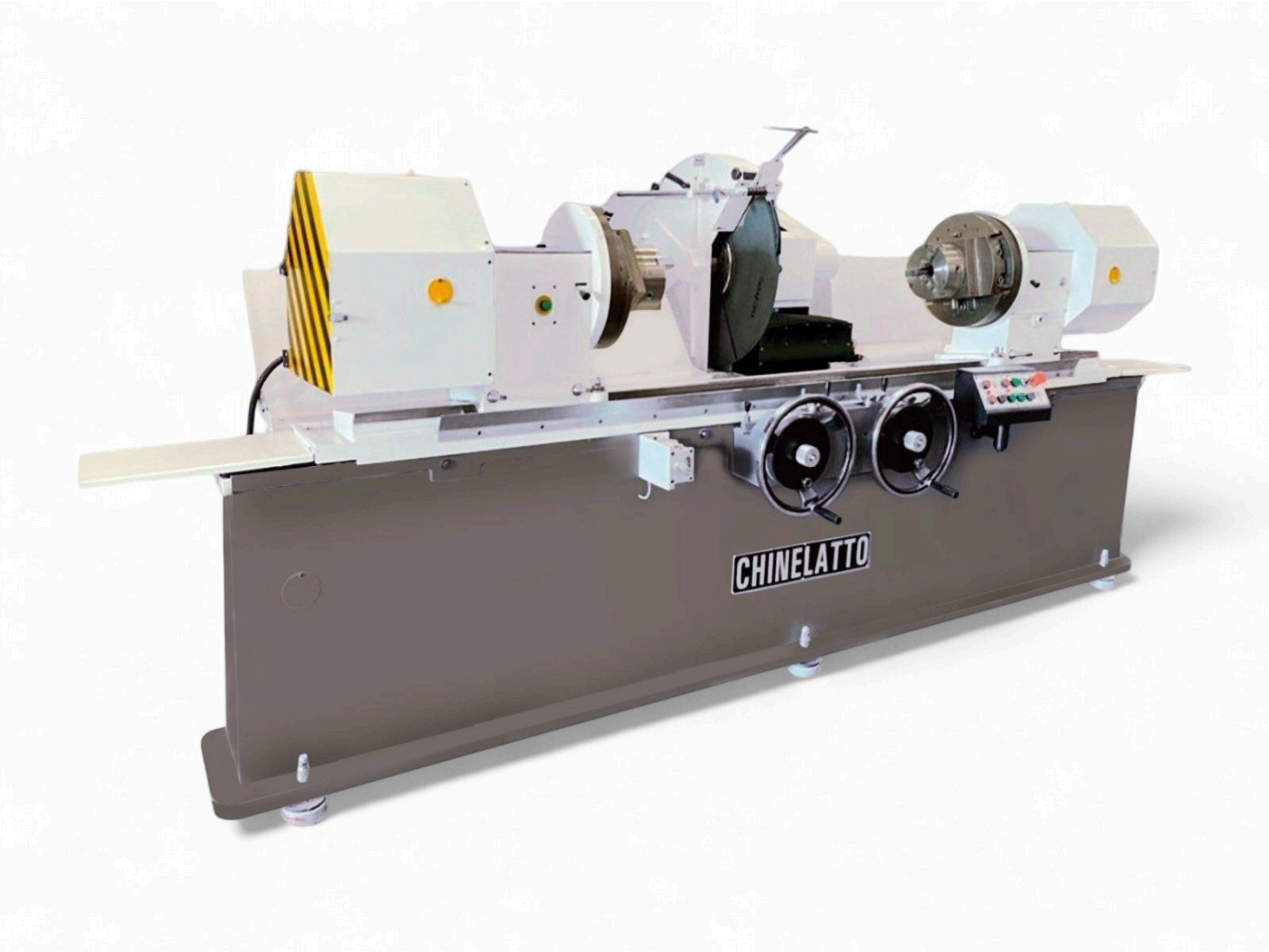
RVC-1500HVP

Hydraulic Crankshaft Grinder 1.5-Meter

CRANKSHAFT GRINDING MACHINE

MADE IN BRAZIL



Grinds crankshafts with P4 precision and automatic hydraulic feed. Capacity 1,500 mm (59") between centers, Ø540 mm (Ø21.3") swing, continuous measurement and ribbed cast iron structure.



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.
- Continuous measuring device with 01 blade to speed up operation.

CAPACITY

Distance between universal chucks	**1,500 mm (59")**
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	**43.1 mm (1.7")**
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 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	**15.75 x 8.20 ft**
Machine dimensions with packaging	**10.83 x 7.22 x 6.89 ft**
Net weight	**3,330 kg (7,341 lb)**
Gross weight	**4,050 kg (8,929 lb)**

STANDARD ACCESSORIES

- (01) Grinding wheel - Ø711.2 x 19 x 203.2 mm (Ø28 x 0.75 x 8") 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) V-square for centering
- (01) Continuous measuring device with 01 dial gauge in inches
- (02) Steady rests of 7 mm (0.28") and 12 mm (0.47")
- (01) Grinding wheel removal wrench
- (02) Center points
- (07) Allen wrenches: (02) 8 mm; (01) 1/4"; (01) 3/16"; (01) 5/32"; (01) 1/8"; (01) 3/32"; (01) ratchet wrench
- (01) Manual oil lubrication pump
- (01) Grinding wheel carriage counterweight
- (01) Splash guard
- (09) Anti-vibration pads



Technical Specifications (continued)

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 25.4 x 203.2 mm (Ø28 x 1 x 8")
- Grinding wheel - Ø711.2 mm x thickness 31.8 x 203.2 mm (Ø28 x 1.25 x 8")
- Grinding wheel - Ø711.2 mm x thickness 38.1 x 203.2 mm (Ø28 x 1.5 x 8")
- Grinding wheel - Ø711.2 mm x thickness 43.1 x 203.2 mm (Ø28 x 1.7 x 8")
- Wheel flange - "extra"
- Portable crankshaft polisher
- 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

ACCESSORIES, FIXTURES AND DETAILS (CONT.)

02



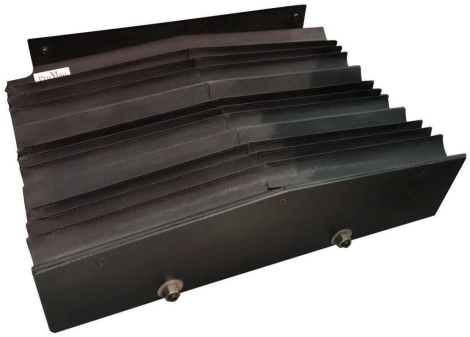
Standard accessory — Hydraulic

03



Standard accessory — Lubrication pump

04



Detail — Accordion protection wheel head



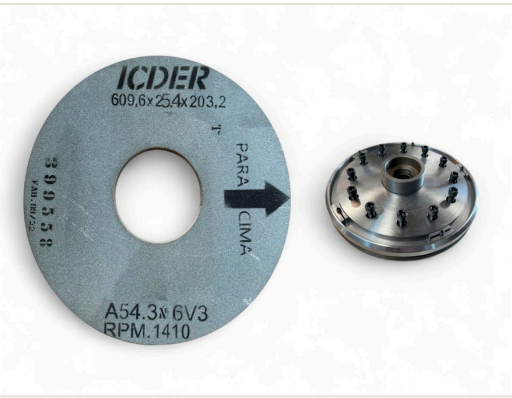
Accessories, fixtures and details (continued)

05



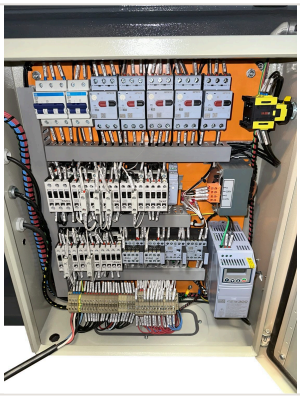
Detail — Grinding head counter weight

06



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

07



Detail — Electrical panel

08



Standard accessory — Continuous journal sizing gauge

09



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

10



Standard accessory — Crankshaft centering fixture with dial indicato



Accessories, fixtures and details (continued)

11



Standard accessory — Crankshaft journal checking square

12



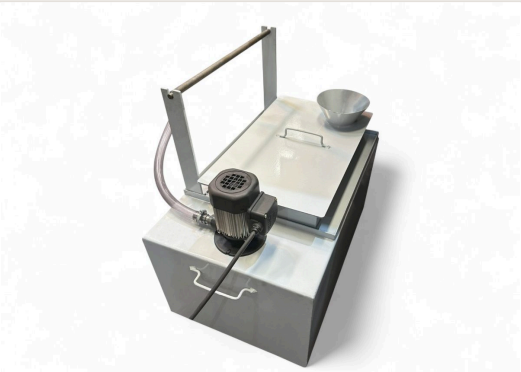
Standard accessory — 02 Center Points

13



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

14



Standard accessory — Coolant pump with tank

15



Standard accessory — 02 Steady rest

16



Standard accessory — Addition counter weight

Accessories, fixtures and details (continued)

17



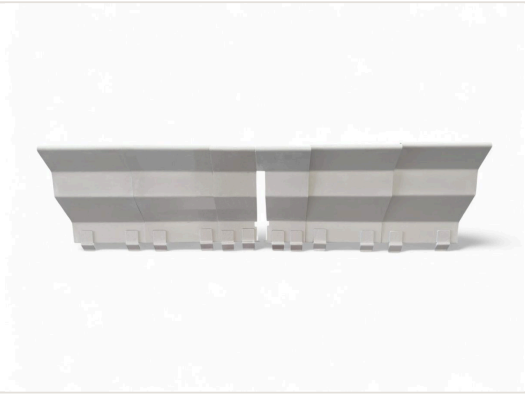
Standard accessory — 09 Anti-vibrators

18



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")

19



Standard accessory — Splash protection

20



Optional accessory — Flanges of grinding wheel

21



Standard accessory — Grinding wheel extraction key

22



Optional accessory — Device for balancing grinding wheel



Accessories, fixtures and details (continued)

23



Optional accessory — Filter paper

24



Optional accessory — Diamond