



# PORTABLE HONING MACHINE

Model: LP4700-Base with Lateral Lever

Easy to use, to install and very easy to move:

The main characteristic of this machine is the removable tank and the little dimensions, so it is easier to install it on work-shop van for the assistance on race. The honing machine has a speed range included between 0 and 960 RPM thanks to an electronic inverter that controls the main engine. This allows to have the more opportune rotation speed according to the diameter to work.

**The Spindle Rotation Speed is show by a DIGITAL RPM Viewer. The spindle rotation speed can be changed by a potentiometer located frontally.**

The abrasives expansion is increased by the central frontal wheel while the **LATERAL LEVEL** allows the dropping of the expansion to make easier the insertion and the extraction of the cylinder from the mandrels during working.

The second wheel allows to change the cutting pressure of the abrasives; the gravitational pointer allows to visualize the pressure in a range included between 0 e 7.

The machine is completed by a tank to recover cover the honing oil with the relative electric pump that can be worked by the control console, anti-rotation bar, two lateral splash guard panels, a non-return valve fitted on the honing oil feed pipe and a pliable lamp.

The engine is **220 Volt Mono-phase**, that works with a standard petrol or diesel oil generator.

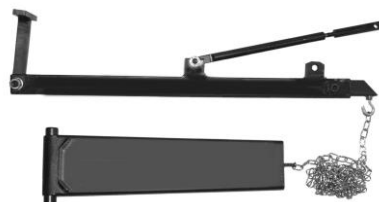
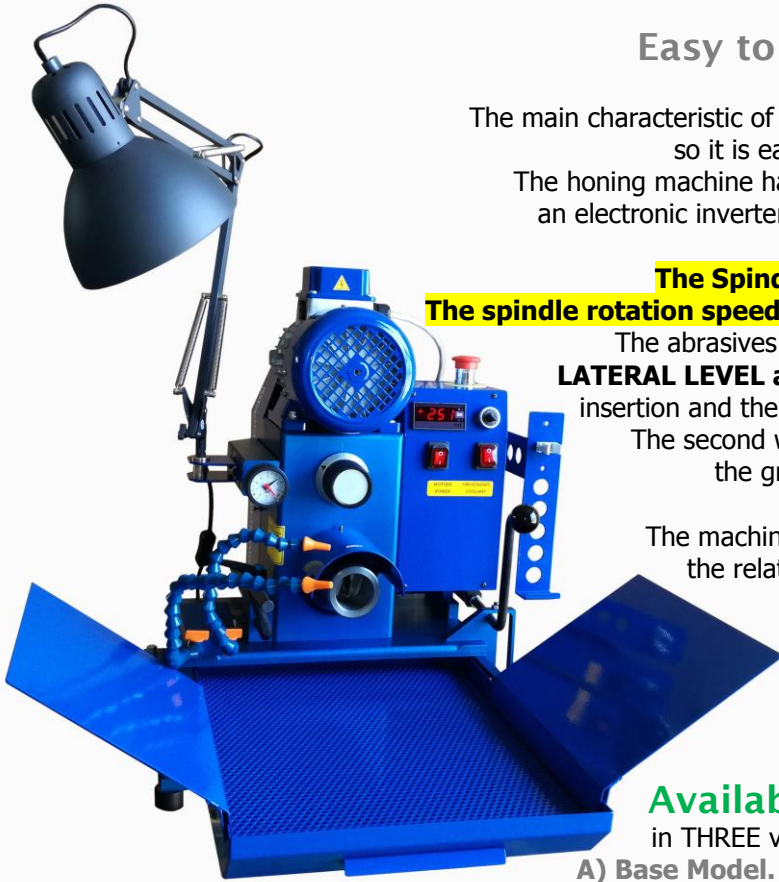
It is available also in 110 Volt, 60 Hz Mono-phase version.

**Available versions** The honing machine LP4700 is available in THREE versions:

**A) Base Model.** That is with a pedal switch that controls the mandrel rotation more the **LATERAL LEVER** to disconnect the abrasive (*see the above picture*). In this version the machine is very easy to move.

**B) With Bench TW390.** In this version the machine is mounted on hits appropriate bench equipped with mechanical pedal that replace the pedal switch and the lateral level. In fact, pushing the pedal the mandrel rotation is started and it is possible to control the abrasives opening. The bench is equipped to contain the tank to recover honing oil with the relative feed pipe and the feeding cable of the electric pump; in this way a space of 50 x 50 cm is enough to position the honing machine in the work-shop or in the van (*see machine black and yellow*).

**C) With the KPM300 kit:** If you don't want to buy the appropriate bench TW300R, but you have decided for a fixed emplacement and you want to take advantage by the mechanical pedal, the honing machine is supplied with a kit to be applied on every working bench (*see the lateral picture*). The working bench must be 640 mm deep



KPM300 mechanical pedal kit



Spindle clutch size Ø 45 mm, with a wide range of hones available: from 9,4 to 139 mm. They are available specific hones for kart engine with **long stone** and **short stone** for all engine displacements. They are available abrasives with the same specification used in production and on race by some of most popular engine builders; and also **diamond abrasives to hone nickel-plated cylinders**.

### Standard Equipment

- 2x Lateral splash guard panels
- 1x Security Bar
- 1x Spindle Carter
- 1x Dial Bore Gage Holder (3 positions)
- 1x Electric Pump 220V Single Phase
- 1x Oil Tank – cap. 14 liters
- 1x Level Indicator of Honing Oil

- 1x Safety Information for Honing Oil
- 1x Tail Pipe + Feed Pipe
- 2x Flow Controllers
- 1x Non-return Valve
- 15x Liters of Honing Oil
- 1x Pliable Lamp
- 4x Anti-vibration Legs

LP4700-BASE  
(with Side Lever)



### On Request:

> Hone Mandrel type CY48, CY44 and CY56, Mandrels for Ø 9,4 – 139 mm, Measuring Instruments (Bore Gauge Ø 30 – 100 mm, Micrometer 0 – 75 mm)



CY48

Hone Mandrels for Kart engines  
"LONG stone" (150 mm)



CY44 – CY56

Hone Mandrels for Kart engines  
"SHORT stone" (68 - 80 mm)

TWR199: Bench (\*) complete of  
Coolant tank, capacity 14 liters.

ON REQUEST: Drawer  
with Lock

(\*) Overall Dimension:  
cm 48 x 43 x 85H – kg 33



### Technical Characteristics

- > Working capacity: Ø 9,4 – 139 mm
- > Spindle rotation speed regulation by Electronic Digital Inverter
- > **Digital RPM Viewer**
- > **Spindle Rotation speed: 0 – 960 RPM**
- > **Increasing/Decreasing of rotation speed: 1 g/m'**
- > Feeding: 220 Volt 50 Hz Single-phase/110 Volt 60 Hz Single phase
- > Main engine: 0,37 Kw (0,50 Hp)
- > Pump engine: 0,09 Kw (0,12 Hp)
- > Abrasives pressure Recordable and visualized
- > Separate Electric pump control
- > Spindle clutch like *Sunnen*
- > Honing oil Decanter
- > Removable Tank
- > Structure in Anodized Aluminium billet
- > Available colours: Red 3002, Blue 5010, White 9010, Yellow 1023, Green 6026 or 6029, Blue 5021, Black 9005, Silver 9007

#### → BASE version and with TWR199 bench:

- > Direct expansion by frontal wheel
- > **Lateral Level for the abrasives dropping**
- > Main Engine controlled by Pedal Switch

#### → Version with TW390 bench and mechanical pedal kit KPM300:

- > Abrasives expansion: controlled by Mechanical pedal that can be modified by central wheel.
- > Main Engine controlled by Mechanical Pedal

### Dimensions and weights

#### Open machine "ON WORKING"

- > Width: 600 mm
- > Depth: 810 mm (max)
- > Base version width: 610 mm
- > Version with TW300R bench width: 1465 mm

#### Closed machine "RETIRED"

- > Width: 450 mm
- > Depth: 475 mm
- > Base version width: 610 mm
- > Version with TW390 bench width: 1465 mm

#### Weight (Oil tank included / honing oil not included)

- > Machine weight of base version: Kg 62
- > Machine weight with Bench TW390: Kg 90
- > Weight of mech. pedal kit KPM300: Kg 3

MADE IN ITALY



### Gallery:



All right reserved. Technical characteristics and dimensions can be modified without notice



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DEALER

