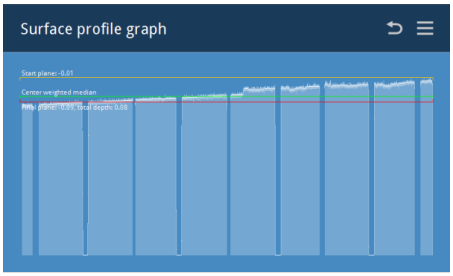
RP1400

CNC Head and block resurfacer

The RP1400 CNC is a resurfacing machine for cylinder heads and engine blocks of cars and trucks, as well as for all flat surfaces requiring maximum accuracy of the contact surfaces. The construction technology combines highly innovative solutions, such as the brushless motor for the automatic and precise positioning of the milling cutter plate - that is controlled by the CNC - with tested technologies, like the linear guides and recirculating-ball feed screws. The axes and the rotation speed of the milling cutter are controlled by an inverter. It is possible to monitor the feed speed. The control panel is an industrial touch screen, equipped with a simple and intuitive programme. The RP1400 CNC can be supplied with a milling cutter plate with tool-holder of CBN-PCD with a diameter of 405mm to resurface cast iron or aluminum surfaces. For heads with pre-chambers, you can use a special tool to ensure a perfect finishing.

The RP1400 CNC is defined as the "Smart Resurfacer", thanks to its laser sensor that scans the cylinder-head surfaces, thus recording their profile and automating milling operations.

Images may show the product equipped with optional accessories



Standard equipment

Table and head feed with recirculating-ball screw
Ø 405 mm milling plate with CBN insert
Touch screen CNC control panel
Laser sensor for scanning workpiece
Surface profile graph
Fully automatic cycle
Database with preloaded working cycles and possibility to customise them
Estimated cycle time
Safety guard with sliding doors
PV0160 Pair of parallel supports
PV0021 Large clamps (2 pcs.)
PV0022 Small clamps (4 pcs.)
Lubricant for slides
Wrench set
Instruction manual

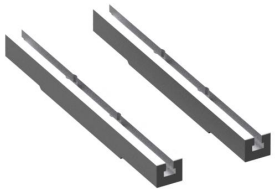
Specifications

Table travel: 1410 mm
Max working length: 1195 mm
Max working width: 405 mm
Min - Max working height: 170÷690 mm
Useful table surface: 1100x335 mm
Milling cutter diameter: 405 mm (16”)
Spindle rotation speed: 300÷1200 RPM
Variable table feed speed: 0÷1500 mm/min
Spindle motor: 2,2 kW
Table motor: 0.75 kW
Feed torque motor: 1.27 Nm
Dimensions (LxWxH): 2500x1000x1900 mm
Weight: 1410 kg

Accessories

PVA015

Adjustable universal fixture wit parallels



PV0007

PV0007 Pair of parallel supports H=49mm

PV0015

Adjustable universal fixture with mounting plate

PV0160

PV0160 Pair of parallel supports

UT1320

3/8" CBN/PCD insert tool holder

UT1355

1/2" CBN Insert for cast iron

UT1356

1/2" PCD Insert for aluminium

UT1390

ALP insert tool holder for UT1392

UT1392

ALP insert for aluminum with prechambers

UT1330

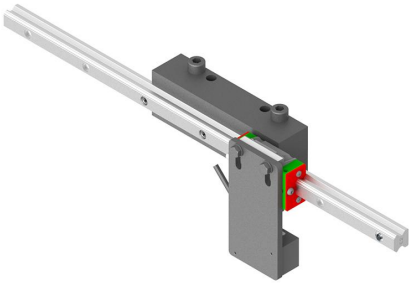
1/2"CBN/PCD insert tool holder

UT1345

3/8" CBN Insert for cast iron

UT1346

3/8" PCD Insert for aluminium

GL0400

Guide line laser sensor