



HIDRAGRUP

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VACUUM

VERTICAL VACUUM MACHINE.

Main Characteristics.

Table size dimensions.

Max 1600 x 1000 mm.

Max exterior dimensions.

1700 x 1400 x 5400 mm.

Minimum oven height.

2100 mm.

Structure.

Built with steel structural tube St52.

Vacuum chamber completely sealed.

All components integrated in the machine frame.

Lighting inside the machine --> Lux 1000.

Adjustable feet with screw (150 mm).

3 color light (R/Y/G).

Voltmeter integrated onto electrical cabinet.

Operator's control button of front side.

Lower plate:

- Table equipped with exchangeable seal.
- Machined with a grid of vacuum holes.
- Minimum noisy Ø8 mm holes.
- Table with 2 rails and centering system.

Heating stations.

Pneumatically actuated movement with shock absorbers.

168 HQE heaters of 400 W in lower plate.

167 HQE heaters of 400 W & one heater of 300 W in the upper plate.

1 refrigerated pyrometer in the upper plate station to read the temperature of the foil.

4 pneumatic cylinders with valves of 3/8 "station to read the temperature of the foil.

HS724 SIEMENS heating system.



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Transport system.

Vertical moment for oven done by a servo engine.

Heating Chamber.

Lower side of the heat chamber is closed.
Heating up the oven: 150°C in 4 sec.
Homogenous temperature distribution.
PT100 thermocouples inside the chamber.
Upper position : 2100 mm from ground.
Max tool height: 600 mm.
Heating Unit: LE10000 Double flange.
Air Blower: HP Blower LEISTER Silence / ASO.

Vacuum pump.

In the back of the machine.
Vacuum pump: Busch.
Evacuates the vacuum tank during cooling time.
Membrane frame: frame linked to the oven chamber. All is moved together.

Vacuum tank.

Minimum size vacuum tank is 500 Litres.
3" hose linked to the lower machine plate.
Vacuum tank pressure is monitored on the TP.

Cooling system.

Cooling system (20°C ±3 °C).
Upper side of the press.
Cooling working under pressure.
Cooling working under pressure.

Cooling time between 60 sec - 180 sec.
Fan capacity: 670 m³/h.
Nozzles adjustable.
Low noisy system.

Electric installation.

PLC: Siemens.
Connection protocol PROFINET.
HMI TP700.