

TEM P-80

Rapid and cost-effective production deburring

The fast and reliable P-80 machine is the best solution for removing all internal and external burrs simultaneously in a single operation. The P-80 is designed to accommodate medium-to-large production volume, as well as handle a variety of difficult to deburr workpieces.

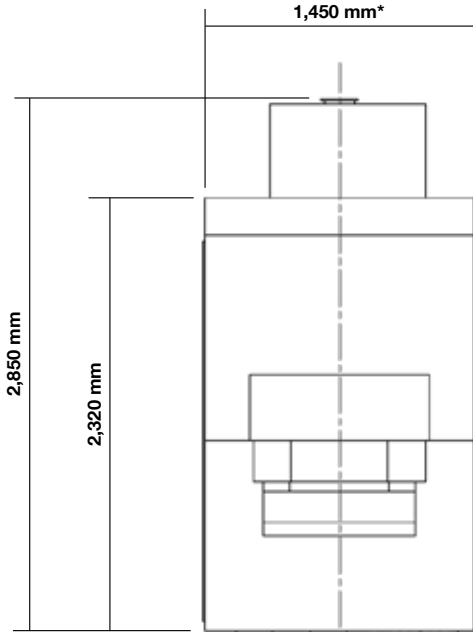
Available in two different chamber sizes with a clamping force of 800 kN, the P-80 delivers long service life and consistent part quality even in three shift operational environments.



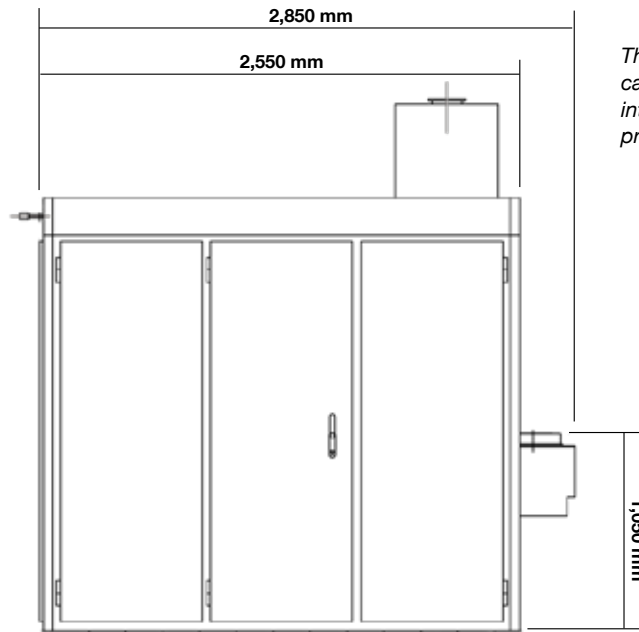
System Features at a Glance:

- **Robust machine frame**
It ensures highest levels of stability at each stage of the production process.
- **Indexing table with five closure plates**
The closure plates make loading and unloading workpieces easy and high-volume production feasible.
- **Hydraulically secured closure plates**
The deburring chamber is hermetically sealed off, eliminating contamination concerns and guaranteeing production safety.
- **Gas metering via dosing cylinder**
This feature provides highly precise metering of the required quantity of gas whereby a consistent quality level is achieved.
- **Integrated noise suppression enclosure**
The enclosure prevents noise emissions into the production environment and ensures safety for the machine operator.
- **User-friendly and expandable Programmable Logic Controller**
The software can easily accommodate customer-specific parameters.

Technical Data TEM P-80 Series



* Dimensions without control cabinet



The machine also can be integrated into fully automated production lines.

Electrical Specifications

The main control cabinet is located to the right side of the noise-reduction cabinet. It is a freestanding cabinet that contains all of the control elements of the machine, including the PLC controller and operator interface.

Working cycles can be sequenced manually in a single step mode or started in automatic mode.

Electrical

Voltage 400 V AC
3P / N / PE / 50 Hz

Controls

Standard Siemens S7-300*

* Other controls are available as option

Visualization Siemens OP270 6***

** Optional process visualisation display and interface to master computer are available

Connection Requirements

Water

Port G 1/2"
Pressure min. 3 bar

Pneumatics

Port G 1/2"
Pressure min. 5 bar

Security

Exhaust fan with vacuum sensor
Gas detection system

All machines in this series comply with the applicable EU Directives governing machine safety and bear the CE mark. They also comply with accident prevention regulations and the VDE and VDI regulations, as well as the requirements concerning electromagnetic compatibility.

Subject to technical changes serving to improve the system and in line with technological progress.



Machine Specifications

The machine frame is a three-port construction capable of working with clamping forces up to 800 kN. Workpieces are loaded into the deburring chamber by means of an indexing table, which is equipped with five closure plates.

Dimensions base unit (W x D x H) approx. 1,950 mm x 2,850 mm x 2,850 mm
Dimensions with control cabinet

Available chambers (Ø x H) Ø 120 mm x 150 mm
Ø 150 mm x 150 mm
More sizes available upon request

Chamber pressure (max.) Ø 120 mm = 25 bar*
Ø 150 mm = 16 bar*
**With methane*

Noise level < 70 dB

Weight approx. 3,800 kg**
***Filled hydraulic unit*

Accessories / Options

Multiple chamber option
Automatic gas pressure regulation
Extended chamber heights

Approximate Values for Gas Mixture Pressures

Material	Natural Gas
Steel	8 – 20 bar
Cast iron	5 – 20 bar
Zinc	5 – 10 bar
Aluminum	5 – 10 bar
Brass	8 – 20 bar

Fuel gas can be natural gas, methane or hydrogen.



For more information about finishing equipment, contact:

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