



TEM P-350

Rapid and cost-effective production deburring

The fast and reliable P-350 machine is the best solution for removing all internal and external burrs simultaneously in a single operation. The P-350 is designed to accommodate medium-to-large production volume, as well as handle a variety of difficult to deburr workpieces.

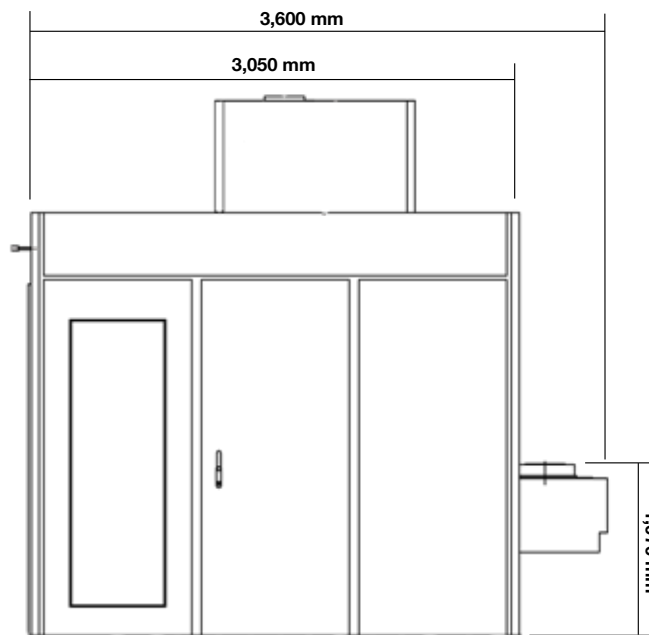
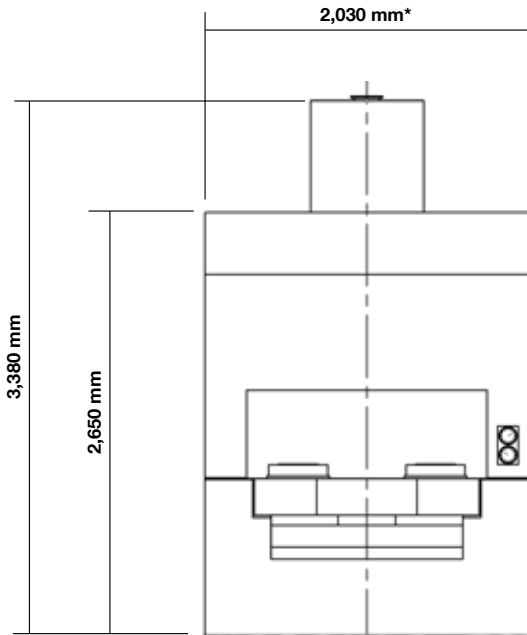
Available in two different chamber sizes with a clamping force of 3.5 MN, the P-350 delivers long service life and consistent part quality even in three shift operational environments.



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**
As the closure plates serve to accommodate the workpiece, loading and unloading operations are made easy and high-volume production rendered 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-350 Series



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

* Dimensions without swing-arm

Electrical Specifications

The main control cabinet is integrated into the Noise Reduction Enclosure. This cabinet contains the main control elements of the machine, including the PLC controller and the PC for visualisation.

The Operator Interface is a 15" LCD touchscreen and is mounted on a swing arm convenient to the operator working position.

Working cycles can be operated manually step-by-step or automatically with a single operator input.

Electrical

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

Controls

Standard Siemens S7-300*

* Other controls are available as option

Visualization Siemens Microbox 420 PC**

** 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 two-post-portal construction capable of working with clamping forces up to 3.5 MN. Workpieces are loaded into the deburring chamber by means of an indexing table, which is equipped with five closure plates.

Dimensions base unit approx. 3,600 mm x 2,100 mm x 3,400 mm
Dimensions with control cabinet

Available chambers Ø x H
Ø 250 mm x 300 mm
Ø 320 mm x 300 mm
More sizes available upon request

Chamber pressure (max.) Ø 250 mm = 23 bar*
Ø 320 mm = 16 bar*

*With methane

Noise level < 70 dB

Weight approx. 13,000 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:

Extrude Hone GmbH
Berghauser Strasse 62
D-42859 Remscheid
Tel. +49 2191-900-250
Fax +49 2191-900-254
remscheid.information@kennametal.com
www.extrudehone.com

Extrude Hone GmbH
Memminger Strasse 37
D-87746 Erkheim
Tel. +49 8336-8005-0
Fax +49 8336-8005-500
erkheim.information@kennametal.com
www.extrudehone.de