

B240

Trimming and Brushing Machine

B240

Trimming and Brushing Machine



Hinterkopf – All from one Source

For years Hinterkopf has been pursuing one goal with their development programme – to offer their customers an all-Hinterkopf high speed production line for aerosol cans.

The latest Hinterkopf development is the B240 trimming and brushing machine. With the B240 Hinterkopf is closing the gap between the press and the internal lacquering unit.

The B240 Concept

The development of the B240 was guided by Hinterkopf's clear intention to follow the modular concept of the well established H240 machine. The use of existing modules reduces time and effort needed for spare parts stocking, and simplifies the maintenance and service of the machines.

The B240 trimming and brushing machine is based on the H240 basic machine. The 16-station mandrel plate offers plenty of space for the work and monitoring stations, and the well-known triple transfer from the mandrels onto the continuously running pin chain ensures a smooth running. As in the H240, the transfer unit is driven by a servomotor, its motion can be adjusted to the can length. Short can, short stroke – long can, long stroke.

The switch cabinet is integrated on the machine's back side, and as with the printing and coating machines, no additional space is required. The whole production line has a neatly arranged appearance. The electric connections are clearly assigned as every individual machine has its own switch cabinet.

Besides, the B240 has the following outstanding features: A separate drive and control system and the known design of the H240 basic machine. Big acrylic-glass doors create transparency, the pivotable operating panel ensures its easy operation and allows access to the integrated operating and service manuals.

The Trimming Unit

Hinterkopf has decided for the integration of the Martinenghi trimming unit with 4 cutting heads. The can transfer from the press to the trimming unit is continuous, as is the cutting process itself. Movements are not interrupted by loading onto stations, cutting and unloading. Four rotating cutting heads allow a continuous material flow and a significant extension of processing times. Each cutting head is equipped with two knives. The external knife rotates around the can to trim it to the adjusted length, without leaving burrs.

The processes of loading, cutting, unloading and cuttings removal all take place in a 360° movement of the entire trimming unit. So there is sufficient processing time even at speeds of up to 240 cans per minute.

The Brushing Unit

The brushing unit is a new Hinterkopf development. Here, the Hinterkopf engineers have focused first of all on functionality, easy operation and easy maintenance.

The complete brushing unit can be swung out of its work position thus giving access to the brushes and to the transfer unit.

Depending on the requirements, the B240 can be equipped with one or two individual brushing units. The cans are driven over their complete wall length by a drive pulley. The brush not only

rotates but also makes an oscillating movement. As there are separate servomotors the rotational speed of the can and that of the brush can be set independently of each other. If the machine is equipped with two individual brushing units, each of these units can be controlled separately, a feature that opens up new prospects in the can forming process.

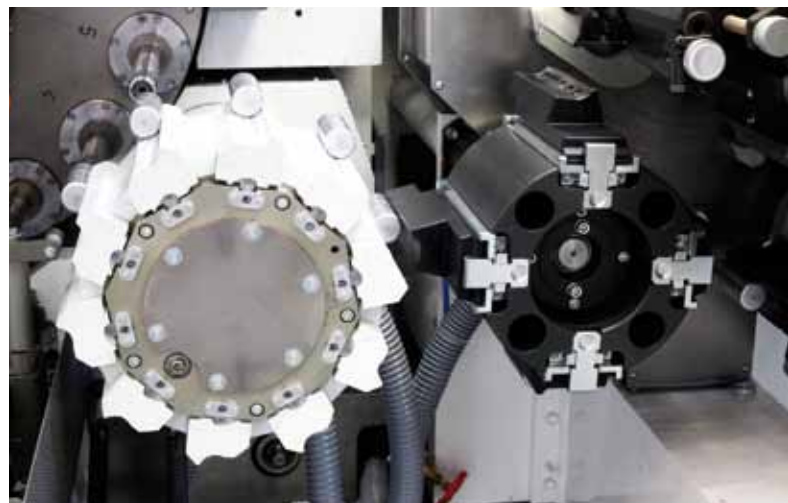
It goes without saying that the mandrel is sensed during the process. If no can is detected, the brushing unit will retract from the work station. No can – no brushing.

The aluminium dust is perfectly removed by a flow-optimized suction unit and a wet dust collector.

Summary

With its new B240 trimming and brushing machine Hinterkopf has reached another milestone on the way to be an overall supplier of high-speed lines for the production of aerosol cans.

The extended product range, the reliable service and the high flexibility make Hinterkopf a top-class partner for manufacturers of aerosol cans worldwide.



- 1 Trimming unit with fourfold cutting head
- 2 Trimming unit
- 3 Individual brushing unit
- 4 Brushing unit

Technical Data
Characteristics
Operative Range

Can diameter:

35–59 mm

Trimmed can length:

70–270 mm

Untrimmed

can length:

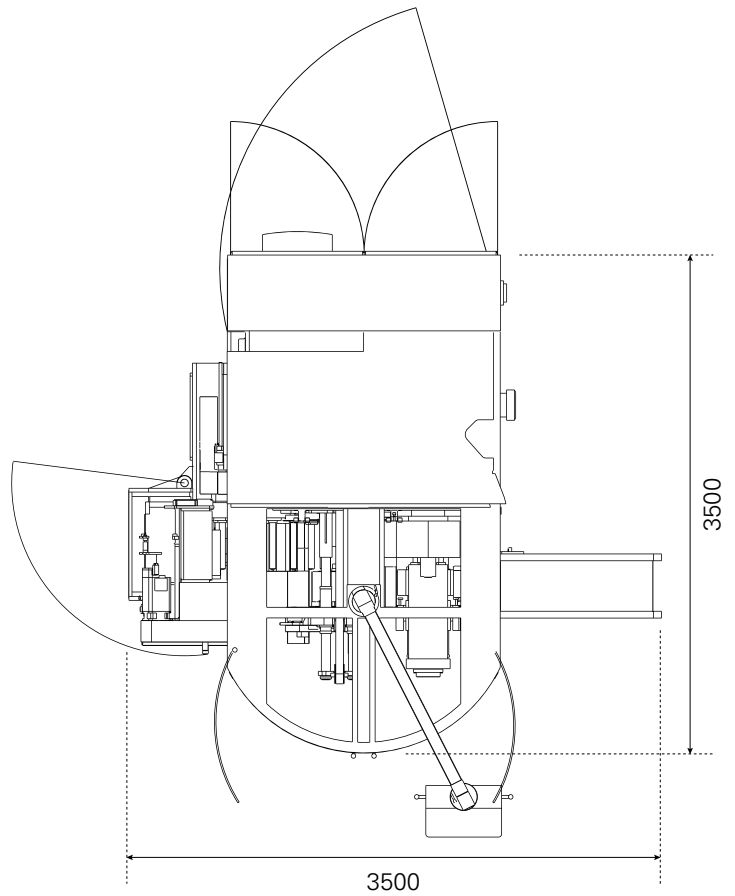
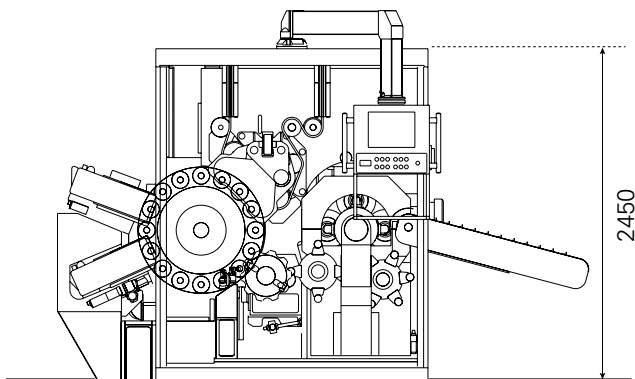
80–300 mm

Weight:

14 000 kg

Machine capacity:

can length max.	production speed
(mm)	(cans/min)
120	240
160	240
200	220
240	200
270	180



Hinterkopf GmbH

Gutenbergstrasse 5
 D-73054 Eisingen
 Germany

Tel. ++49(0)71618501-0

Fax ++49(0)71618501-10

info@hinterkopf.de

www.hinterkopf.de