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First in paper honeycomb technology

EXPANDER/DRYER TYPE DEX III



Capacity

Max. product width:	1200mm
Min. product width:	n/a
Max. product thickness:	90mm
Min. product thickness:	5mm
Min. product length:	± 150mm
Product throughput speed:	Adjustable between 0.6 and 4 m/min.
Drying capacity:	Depending on the product throughput speed

Electricity

Voltage:	3×400 Volt 50 Hz + N + Pe
Power consumption:	± 15 kw
Nominal current:	± 23 A

Compressed air

Min. air pressure:	6 Bar
Max. air pressure:	12 Bar
Air consumption:	± 0.65 ltr/turn at 6 Bar

Sound

Sound level:	± 77 dBa
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Dimensions

Length:	3950 mm
Width:	1950 mm
Height:	1300 mm
Weight:	580 kg

Options

Dividing knife

PIM-05.E_4

The DEX III expander/dryer

The DEX III is especially developed for the expanding of Honicel honeycomb. By expanding and drying the honeycomb one will obtain a honeycomb core with the required adjusted dimensions.

The honeycomb, will be fed into the DEX III directly from the pallet and run via the inlet table. The width of the honeycomb core can be adjusted by means of the guides at the inlet table. The honeycomb will be transported through the machine by drive rolls. The calibrating unit calibrates the tolerances in thickness of the honeycomb core. In the dryer the honeycomb will be dried. The honeycomb core will be cut at the required length by means of a automatic cutting knife.

By drying the honeycomb the paper will become harder (the pressure resistance will be increased), through which the expanded honeycomb will keep its adjusted dimensions. The drying temperature and the throughput speed together determine an optimal drying of the honeycomb.

Base parts of the DEX III

The inlet table: the lifting roll and the feed-through strip at the inlet table take care of homogeneous supply and expanding of the honeycomb. The width of the honeycomb core will be adjusted by means of the guides. The drive rolls take care of the honeycomb transport through the machine. The throughput speed can be adjusted.

The calibrating unit will calibrate the tolerances in thickness of the honeycomb.

In the dryer the expanded honeycomb will be dried. The temperature can be adjusted with the touch screen interface.

The knife is controlled with a PLC counter connected to the drive rollers which will activate the cutting system at the pre-adjusted length of the honeycomb core. The length parameter can be adjusted with the touch screen interface.

The main switch with electrical connection and the switch box with the control panel and the electronics.