

Paper Honeycomb System

Production of solid paper honeycomb mats for cushioning, blocking and void filling



Description

Knüppel paper honeycomb system creates solid and flexible paper honeycomb mats directly at the packing station. The compressed source material expands by using the converter to form a solid paper mat with a three-dimensional honeycomb structure and hexagonal cells. This structure creates high pressure resistance and makes the paper mat especially resistant to impacts and permanent pressure stress.

Knüppel paper honeycomb mats are easy-to-handle and provide the necessary protection for packaged goods against transportation impacts as mechanical shock loads. Caused by its honeycomb structure and its flexibility, the material adapts perfectly to the shape of the packaged goods and protects particularly sensitive corners and edges. As an easy recyclable packaging alternative made from renewable raw material, the paper honeycomb mat gives a significant contribution to sustainability by replacing solutions made from other materials that were previously difficult to replace.

The cushioning mats produced by the converter do not only protect all kinds of products, but also offer an ideal solution for blocking and void filling. Depending on the paper quality selected, these cushioning mats are suitable for both light and heavy goods that require secure cushioning protection during transport or storage depending on their sensitivity. The cushioning mats also fulfill their protective function as a solid stacking or separation aid to securely separate packaged goods from each other.

Advantages

- // Versatile in all industries
- // Quick and easy to use
- // Excellent load capacity
- // Investment-free
- // Usage agreement including service and maintenance
- // Intuitive operation of the converters via touch panel
- // Cushioning mats on demand by automatic mode and winding device
- // Cushion length and volume can be adjusted as needed
- // Generates savings in storage space and packaging process
- // Easy recycling or disposal after use

Converter systems

The paper honeycomb converter is available in two standard versions and offers a high level of operating comfort. The PN400 can be used as a tabletop device or together with a floor stand as a mobile packaging system. A winding device can be integrated as an option. The PN550 is the all-rounder and can process different paper qualities (grammage, honeycomb size). To start up the converter, the compressed paper is inserted into the paper feed chute and the desired operating mode is selected on the control panel for demand-oriented provision.



PN 400 as tabletop device



Floor stand and winding device



Production of coils



PN550

Technical data

Converter	Dimensions	Weight	Paper web quality	Honeycomb height	Output width	Honeycomb diameter	Weight per packaging unit Paper web
PN400-10	745x360x275	41,5 kg	50 g/m ² and 100 g/m ²	10mm	550mm	12mm oder 15mm	20kg
PN400-20	745x360x275	41,5 kg	100 g/m ²	20mm	550mm	15mm	20kg
PN400-30	745x360x275	41,5 kg	100 g/m ²	30mm	550mm	15mm	20kg
PN550	1025x729x1235	155 kg	100 g/m ²	20mm, 30mm und 40mm	550mm	15mm	20kg

Application



Cushioning protection for heavy goods.



Caused by its 3D-honeycomb structure, the cushion also adapts to corners and edges.