

HOT EMBOSsing CALENDER HPK

Matthews Engineering Hot Embossing Calender HPK converts and finishes various plastic films to realize diverse optical and haptic surface effects that meet highest requirements. The rolls are driven separately and can individually be controlled in speed and temperature. In the case of changing a design, the embossing roll can be removed and changed quickly and easily.

TECHNICAL DATA

Web width: 500 – 3.500 mm

Production speed: up to 600 m/min. depending on film specification

Temperature range: 20 – 180 °C

Line load in the nip: up to 120 N/mm

DESIGN FEATURES

Pre-heat rolls, double shell construction with spirals inside for excellent heat transfer

Thermal oil heating unit for heating up the pre-heat rolls

Infra-red radiator; heat adjustable

Laser-engraved embossing roll, double shell construction with spiral inside for excellent cooling

Hydraulic power pack for opening and closing the embossing roller nip

Rubber-coated back-up roll, heat- and pressureresistant coating

Contact cooling roll for back-up roll cooling

Cooling rolls, double shell construction with spirals inside for excellent cooling of films

Water cooling unit for cooling down both embossing and cooling rolls

BENEFITS

Modular and compact construction

Perfectly suited for embossing a variety of plastic films, including PE, PP, PVC and TPO

Construction and equipment are adapted to individual customer requirements and applications

Integration into existing production lines or offline operation possible

Recipe management for different parameters

Remote maintenance via Internet

Power measurement for energy monitoring (DIN EN ISO 50001)

APPLICATIONS

Packaging films / Hygiene films

Decorative films / Automotive films

