



Hot Embossing Calender

SAUERESSIG's Hot Embossing Calender 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.

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
- Hydraulic power pack for opening and closing the embossing roller nip
- Rubber-coated back-up roll, heat- and pressure-resistant 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

Technical Data

- Web width: 500 – 3,500 mm
- Line 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

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

