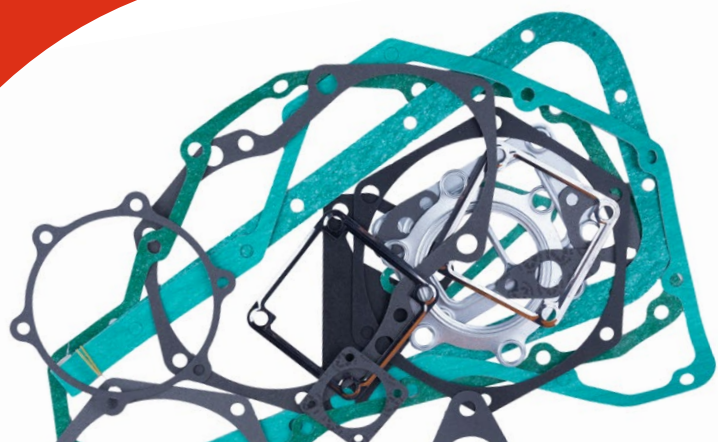


TROESTER

GASKET SHEET CALENDERS

KD 30/15-30° | KD 45/15-30°



THE SOLUTION FOR HIGH-PRESSURE FIBRE GASKETS

Gasket sheet calenders from TROESTER are used worldwide. This process for manufacturing high-pressure fibre gaskets, which has been tested and proven over decades, enables reliable production and quality to meet the most exacting requirements. High-performance machine components, in combination with innovative safety technology, modern control equipment and streamlined recipe management, are the technical basis of the system. This allows a wide range of high-pressure fibre gaskets over a variety of applications and customised special gaskets.



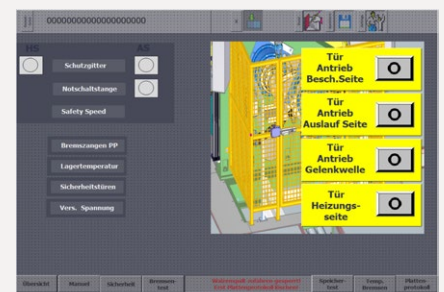
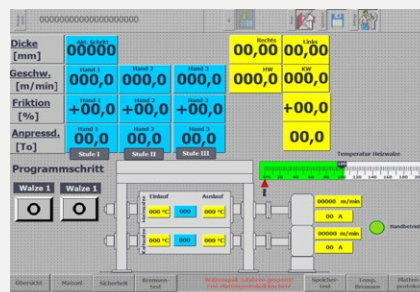
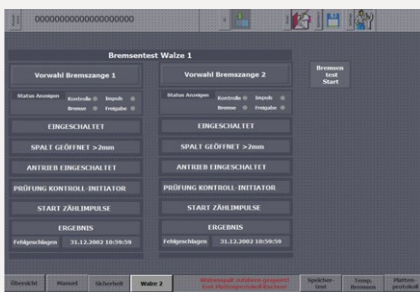
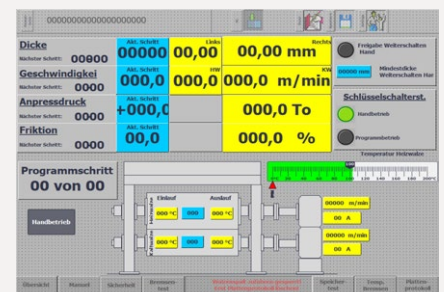
ADVANTAGES AND TECHNICAL DATA

- Gasket sheet calenders with two-roll system for additive and discontinuous production of high-pressure fibre gaskets
- KD 30/15-30°: Sheet size 3,000 x 1,500 mm
- KD 45/15-30°: Sheet size 4,500 x 1,500 mm
- Sheet thickness 0.3 - 6 mm, highest accuracy over the entire sheet width
- Maximum operating speed 100 m/min
- Working temperature (hot roller) up to 180°C
- Friction adjustable +/- 5 %
- Recipe-controlled contact pressure and roll-bending
- Automatic gap calibration
- Pneumatically operated material guides and scraper
- ATEX: Zone 1



TROESTER gasket sheet calender KD 30/15-30°

Examples of monitor displays: Overview and interaction of calender control and a high-developed stop sensor system provide operators with the highest level of safety.



For easy and professional maintenance, the lubricating oil unit, among other things, is easily accessible on the machine.



SAFETY

The operator feeds compound into the calender nip. Compound is distributed across the roll as the system monitors the build-up of the sheet. The user-friendly machine concept facilitates the work process and the intuitive control panels ensure a high level of productivity. Safety always comes first.

A gasket sheet calender from TROESTER meets all current safety standards, especially for the hazardous zone at the roll nip. The ergonomically positioned protective cage offers maximum safety and is adjustable to each operator's individual needs and interacts with a highly developed shut-off sensor system.

Should the protective safety cage be an obstacle to the production, a pivotable safety bar with proximity reaction in accordance with DIN EN 12301 can be activated. For this mode of operation, redundant brakes and safe speed monitoring guarantee compliance with strict, statutory safety requirements. Therefore, the calender will be stopped in the shortest possible time.

MACHINE COMPONENTS

The use of cylindrical roller bearings enables the highest concentric running accuracies of the two-roll calender system. It is designed with one hot roll having a completely flat surface while at operating temperature to avoid sheet tolerances. The cold roll is typically provided with a crowning, which is designed for minimum gap load.

The roll preload guarantees that the rolls are always at a defined operating position regardless of the load applied at the roll gap, meaning the roll position will not vary should the load at the roll gap change. The load at the roll gap can be pre-selected and is applied hydraulically via the cold roll. The gap width is recorded using high-resolution displacement transducers, which are installed directly in the hydraulic cylinders. With increasing thickness of the sheets, the cold roll recedes due to the specified load, whereby the roll-bending device of the cold roll ensures an exact parallel roll gap, independent of the selected contact pressure.

HYDRAULIC ROLL-BENDING UNIT FOR HIGHEST ACCURACY IN SHEET THICKNESS

Due to the patented design, the bending forces act in a closed force system on the cold roll and have no adverse effect on the adjustment. The roll-bending force is automatically adapted to the respective gap loads and readjusted.

The working speed is up to 100 metres per minute, whereby the desired friction can be freely selected at any time by means of frequency-controlled motors. The hot roll is heated up to 180°C with hot water or alternatively with thermal oil. In the area of the cold roll, the temperatures can be controlled independently via separate temperature zones for a uniform cooling effect.

The width of the sheet is trimmed by two adjustable circular knives on the hot roll. A depth stop on the rotating circular knives reliably prevents undesired wear marks on the calender roll. For manual cross-cutting of the sheet, a cutting bar is installed on the take-off side of the calender.

The material guide jaws can be lifted pneumatically for cleaning work during the production process. The same applies to the pneumatically adjustable scraper.

The machine components allow the calender to be operated in zone 1 according to ATEX.

Gasket sheet calenders from TROESTER are characterised by excellent service life and are the efficient solution for the production of high-pressure fibre gaskets that make the difference in practice.



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