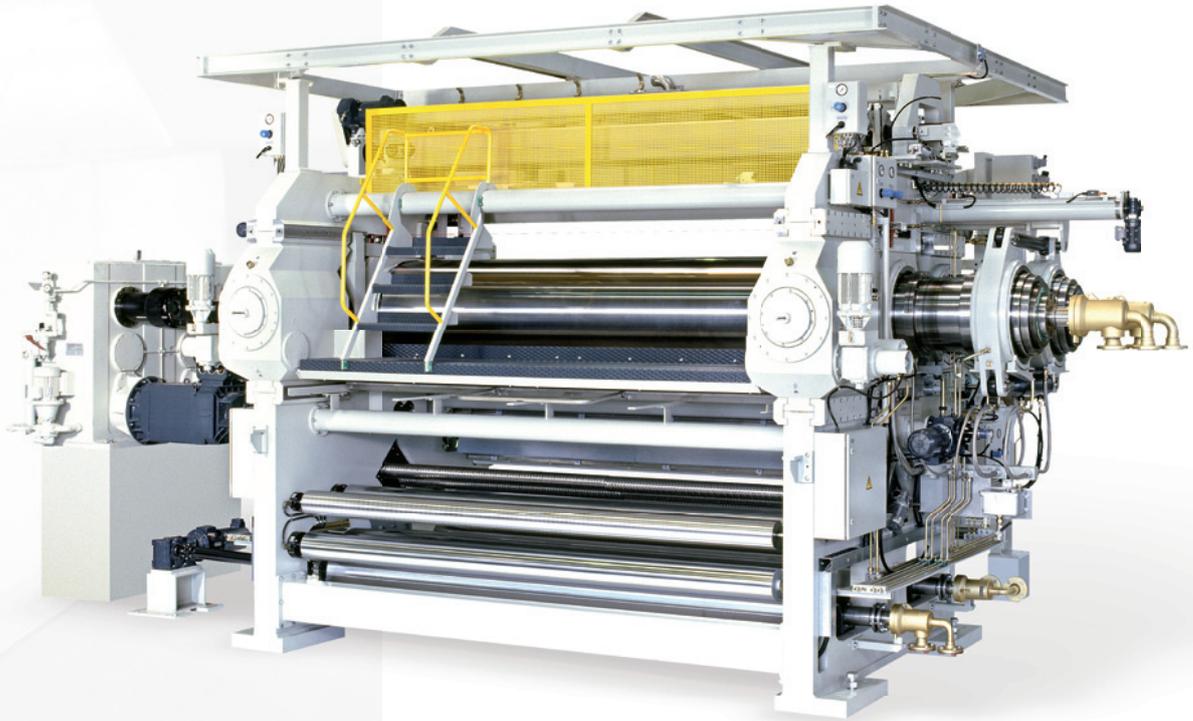


## Magmatec



**KKA melt roller calender:  
highest productivity and maximum output**

## KKA - Know-how right from the...



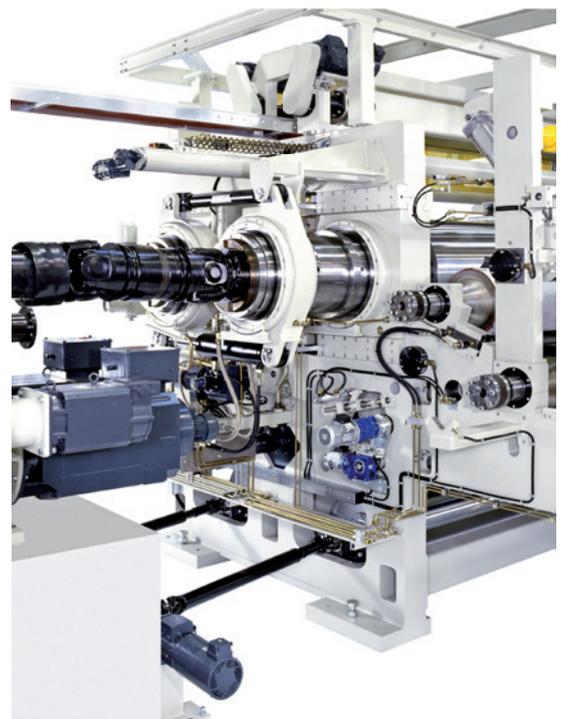
**Calendering designates a process where rotating rollers are used to shape, calibrate and compress web type materials.**

Polymer melts are processed in KKA calenders to produce mono-film without carrier and to directly laminate this film onto various web type substrates. Exactly tempered rollers with deflection compensation ensure high-precision nip geometries and guarantee first-class products based on polymer PVC, TPO, TPU.

By combining KKA calender technology with extrusion tools, the field of application is extended to processing highly viscous melts and to producing materials with unique properties.

In order to manufacture first-class products, high standards in plant technology are demanded and this also applies to surface finishing.

KKA melt roller calender technology reflects an extensive experience and know-how in this field. Plant systems are consequently developed in accordance with the market requirements and technical progress.



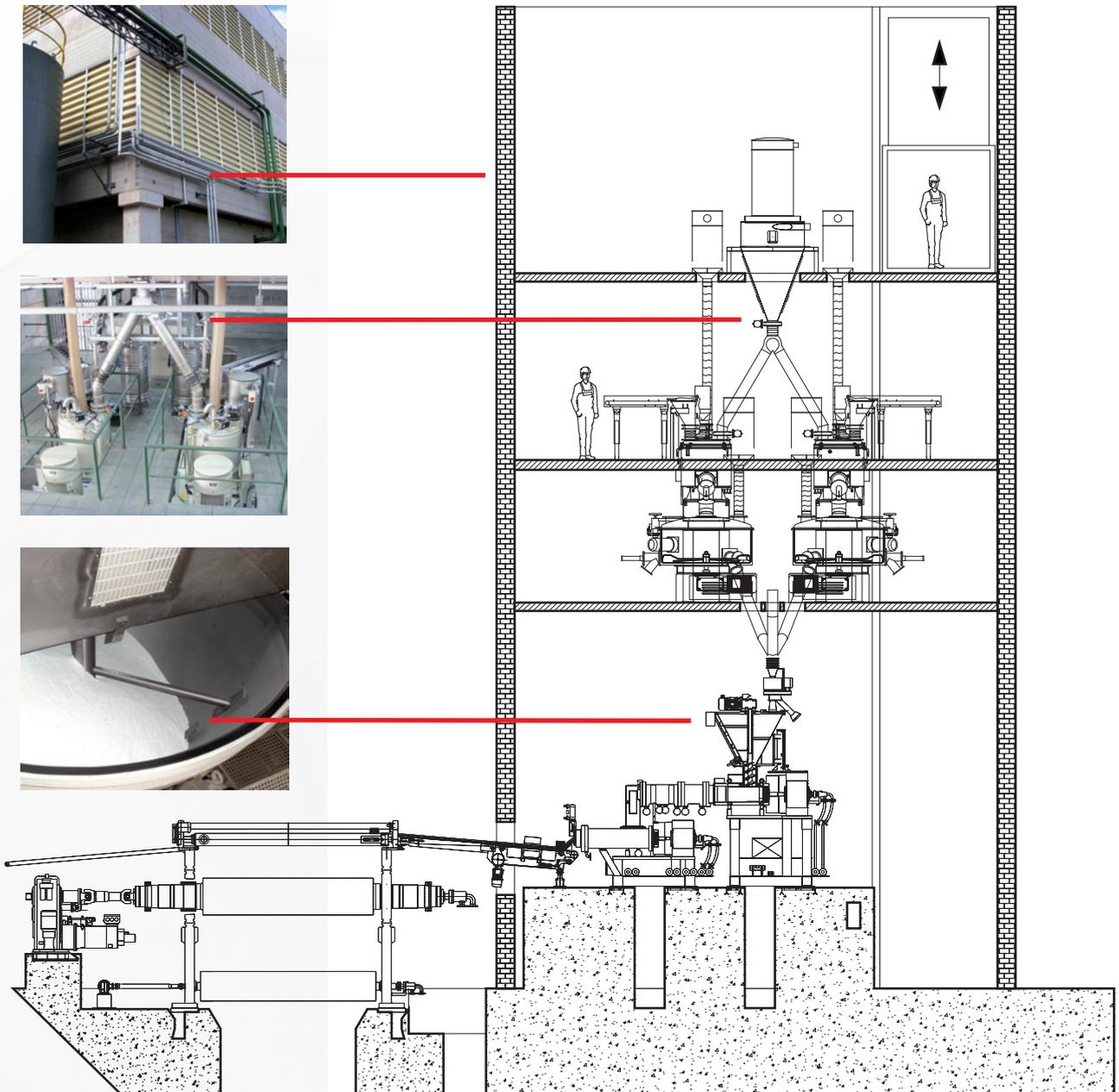
## ... planning stage until production.

**KKA Magmatec melt roller calenders reflect our concentrated competence and worldwide market leadership. The idea behind this melt roller concept was to achieve film production and coating in one single process.**

The technology used for the KKA Magmatec melt roller calenders emerged more than 55 years ago and has been continuously advanced and

refined since then. In terms of mechanical and process engineering, the status quo of the MRC has been developed by KKA also on the basis of know-how from companies like "Zimmerplastic" and "Saueressig".

Numerous turn-key plants delivered worldwide testify to this fact and the technology is perfectly complemented by KKA's well-proven rotogravure printing, embossing, laminating and coating plants.

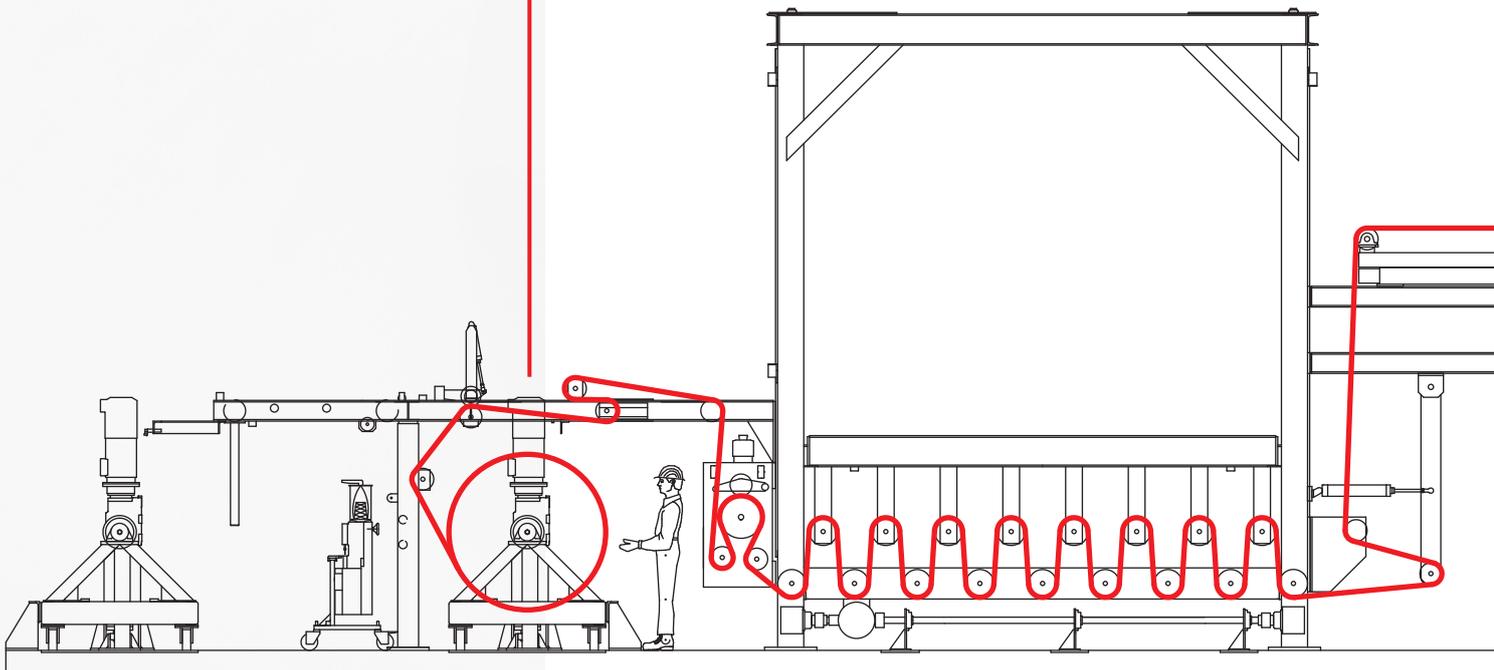


# KKK Magmatec in the process of production

Coating plants operating with melt rollers can be used to produce a variety of products and widths from 1,300 up to 5,500 mm. The plants can be optionally equipped with 2- or 3-roller calenders.

Application fields include coatings ranging from 80 to 2,000 g/m<sup>2</sup> of open and closed mesh or woven fabric, stitched fabric, knitted fabric, felts, nonwoven and paper with PVC, TPU, TPO (PP, PE), CPE, elastomers etc.

Moreover, 3-roller calenders can also be used for film production, e.g. based on PVC, PVC/ABS or scrap with regrind material.

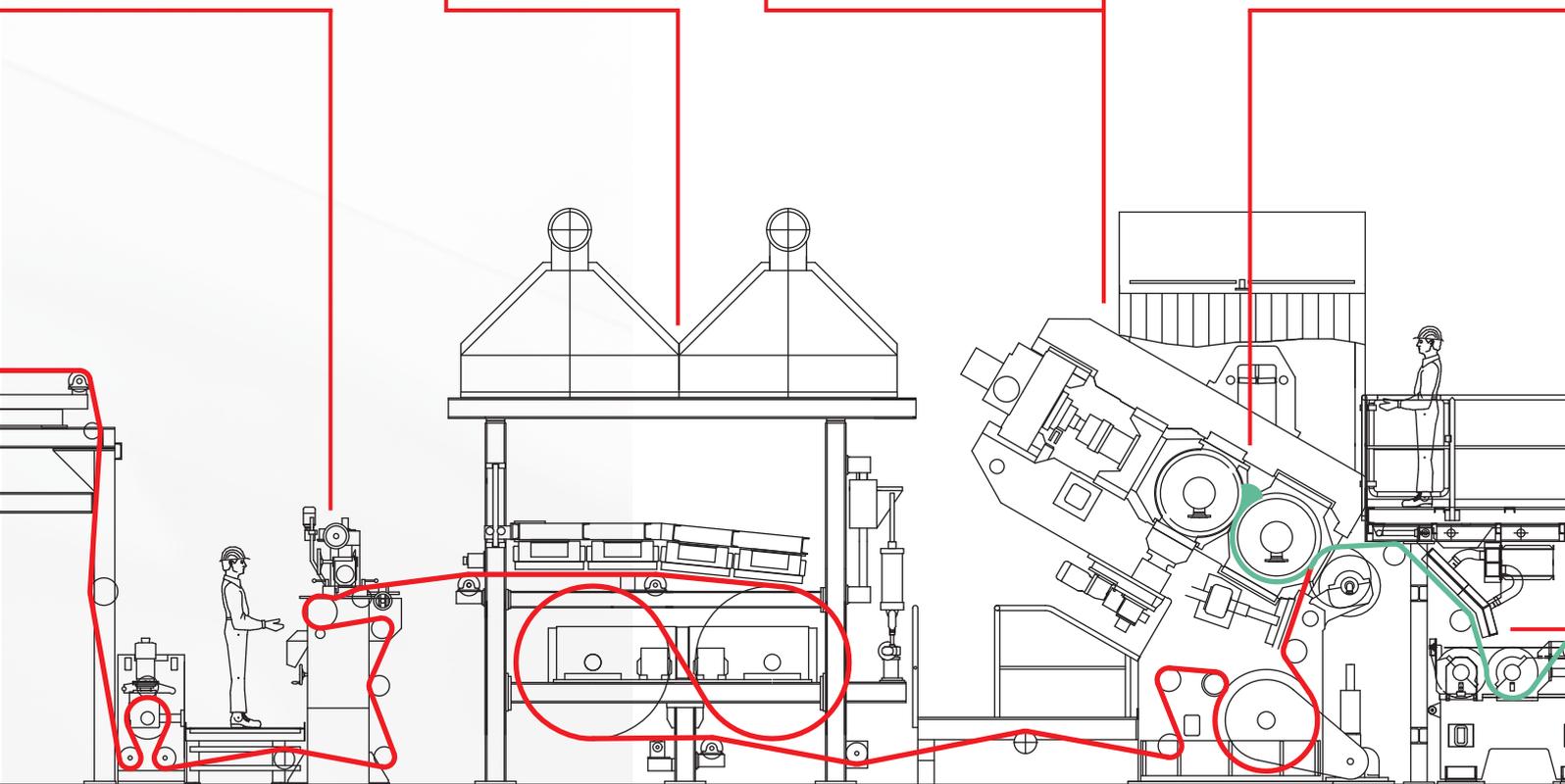
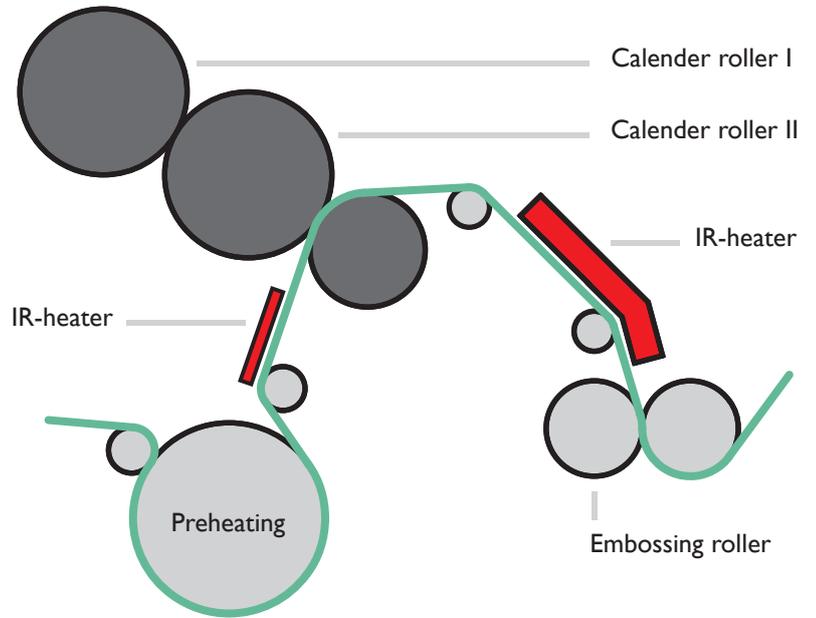


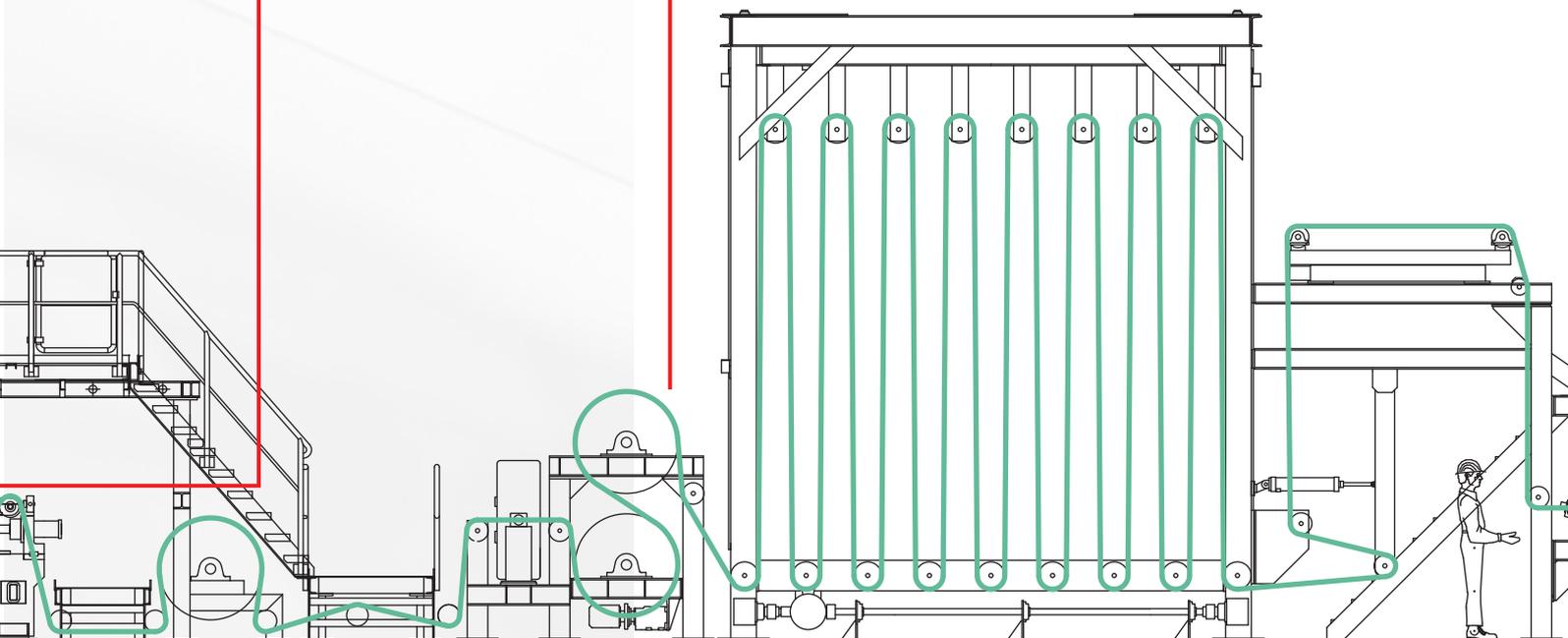
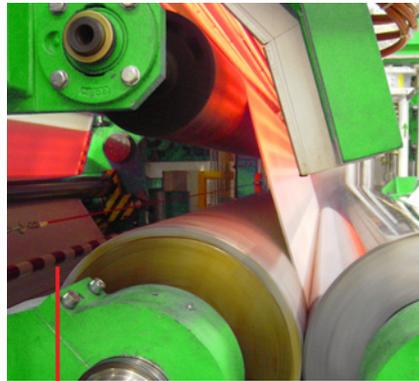
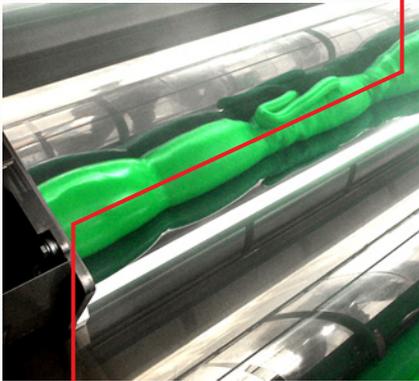
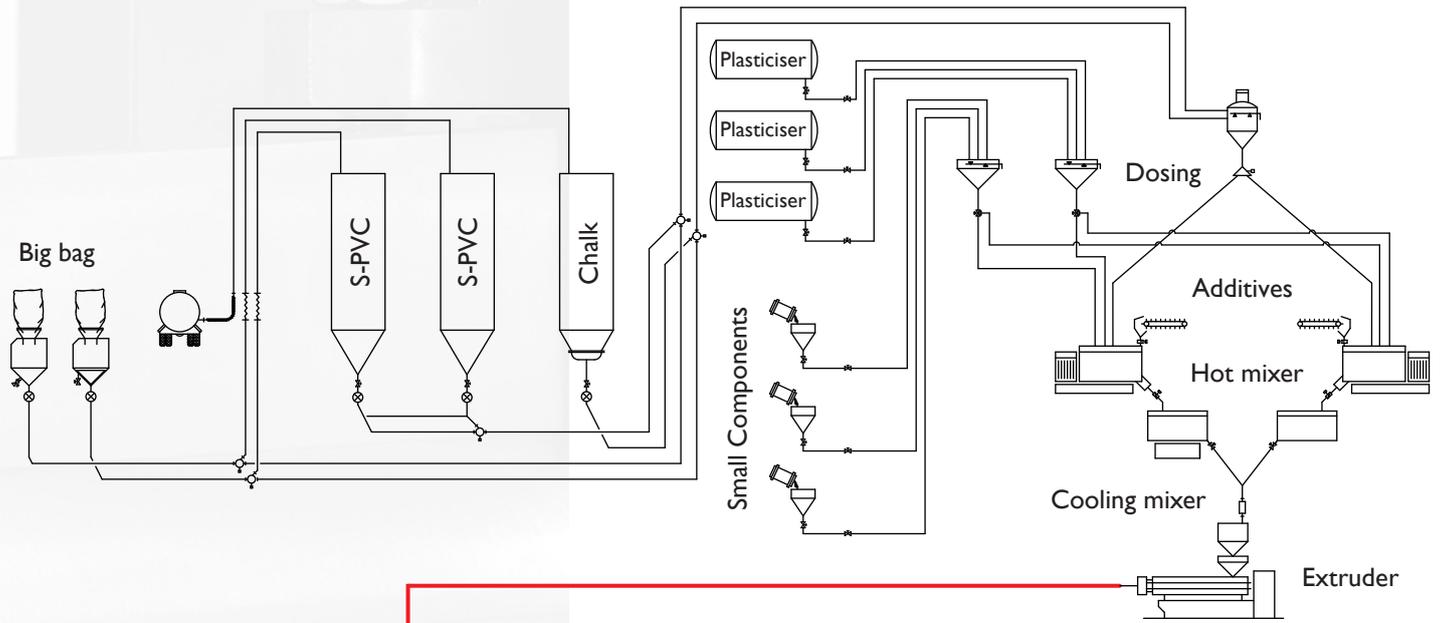
**Technical data for 2-roller calender**

- Coating weights 120 – 2,000 g/m<sup>2</sup>
- Web width up to 5,500 mm
- Roller nip pressure up to 600 N/mm
- Production speed up to 100 m/min
- Roller temperature up to 230 °C

**Technical data for 3-roller calender**

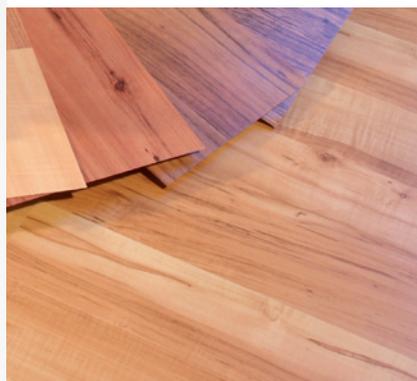
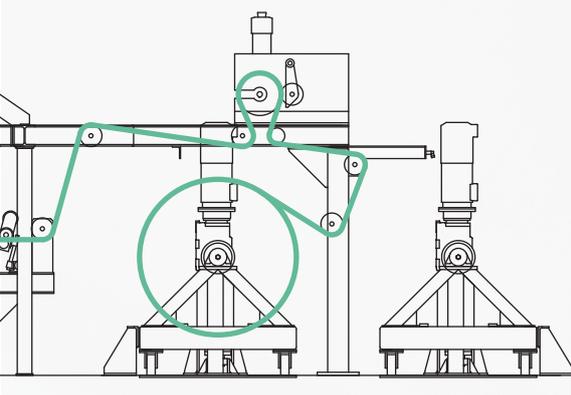
- Coating weights 80 – 2,000 g/m<sup>2</sup>
- Web width up to 5,500 mm
- Film thickness 0,1 - 1,0 mm
- Roller nip pressure up to 600 N/mm
- Production speed up to 100 m/min
- Roller temperature up to 230 °C





# Areas of application

- Floor coverings
- Protective tarpaulins
- Advertising materials
- Textile tarpaulins
- Roof liners
- Protective covers for building industry
- Protective clothing
- Artificial leather
- Sport products
- Materials for inflatable boats
- Flexible containers and tanks
- Non-slip mats
- Dashboard film
- Textile architecture



**KKA Klenewefers Kunststoffanlagen**  
**The whole world of finishing technology - all from one source!**

Klenewefers Kunststoffanlagen has been demonstrating high class performance in finishing web type materials for more than 140 years by providing innovative and reliable technical solutions as well as an excellent service.

Today's core competences of this long-established German company include turn-key plants, single components, peripheral manufacturing equipment and a comprehensive service offer. KKA GmbH's complete business activities range from plants for the automotive industry and for furniture decoration to a broad field of applications for technical textiles, as well as to the production of adhesive tapes and floor coverings. In addition to that, the company's profile is completed by special applications in the field of mobile energy sources and services related to process engineering, including machine upgrade services and equipment modifications.

Due to high vertical integration, a direct influence on all development and manufacturing steps is always guaranteed.

Using the latest engineering tools (3D-CAD, FEM analyses, static and dynamic simulation) and on the basis of our fully integrated, sizable production capability with in-house control engineering division we are able to offer efficient services from the first sketch to delivering first-class plants.

We care for your equipment - from planning the design study to commissioning, integrating and servicing all components. As our customer, you can tap into the wealth of experience offered by our experts which, together with a qualified team of professionally trained service technicians, forms an integral part of our services.

Among our customers are renowned, worldwide operating corporate groups, companies and research institutes who produce first class products on Klenewefers Kunststoffanlagen equipment. Many of these powerful and enriching business relationships have been cultivated for decades.

**Our strength lies in providing comprehensive solutions for the producing industry.**



*KKA GmbH - Klenewefers Kunststoffanlagen  
Headquater Goelzau  
An der Schwelerei 5  
D-06369 Goelzau*

*Tel.: +49 34978 / 31 98 0  
Fax: +49 34978 / 31 98 20  
E-Mail: [info@kka-plants.com](mailto:info@kka-plants.com)  
Internet: [www.kka-plants.com](http://www.kka-plants.com)*

