

Guide-Rolls

Since the 1980s KRAFFT has been re-organizing their manufacturing facilities to focus on the manufacture of rolls and to develop themselves as experts for rotationally symmetric products. The basis has been the know-how gathered in the former times of machinery and plant construction, which the enterprise is doing already for more than 140 years. Today KRAFFT is a leading roller manufacturer in Europe.

The product range contains rolls, cylinders, drums and similar heavy turning components within a wide range of dimensions which allows the manufacture of such items for paper machines of any width:

Maximum length 15.000 mm
Maximum diameter 5.500 mm
Maximum weight 130 t



KRAFFT operates as an independent supplier of entire roller systems, i.e. they can be provided including any requested surface plating (e.g. rubber, PU, chrome, etc.) and bearings or similar accessories.

Thus **Reel-Spools** are a core product of KRAFFT.

Designing rolls in the own design office, KRAFFT makes use of their long-term experience, self-created software for technical calculations and FEM-analysis. On the one hand to determine load peaks, on the other hand to avoid weak spots in a design.

Either a **Wire-Stabilisation-Roll“ (WSR)** has been introduced by KRAFFT recently. This roll compensates the deflection of the standard wire-guide-rolls. This way the wire achieves a longer lifetime. It consists of a tube-in-tube design where the outer shell is dimensioned to the load, which stiffens the middle of the roll and allows the ends to bend elastically. Due to this bending of the roller body no speed difference appears, opposite to a crowned shape. The tension of the fabric is more equal across the width of the paper which saves the fabrics and covers of the rolls. To achieve the required tension minimum of the fabric only a smaller total tension has to be applied.



For all rollers that are installed in high-speed applications have to undergo a **qualified balancing process**. State of the art is a dynamic balancing procedure, carried out in three plains. KRAFFT has introduced this technique already some 20 years ago and was one of the first roll manufacturers to install and use the related equipment. For all elastic rollers the know-how about critical and semi-critical rotation speed is a pre-condition to guarantee an operation free from vibrations and insufficient run-out.

Roll-Service

It is self-evident that KRAFFT does not only supply new rolls, but either provides a repair service. Each roll arriving to the KRAFFT facilities undergoes an inspection to record the condition. The cost of repair will be calculated and an offer given to the customer. Separate service staff takes care about these jobs entirely to make sure they are handled efficiently and within a short period of time.



Fitting-Service

Based on the interaction between manufacturing, repair-services and paper-machine engineering the KRAFFT service consists of an on-site crew of fitters as well. Qualified staff with long term experience in paper-machine assembly, re-location and service can be provided to the customers. Either pre-

determined work-scopes within prepared projects can be taken over or the fitters are available for short term service for scheduled or unscheduled standstill repairs. An additional part of the know-how is the adjustment of (cardan) shaft drives or axles, including the related equipment.



Transport-Service

Responsibility for the products does not end at the workshop-gate. KRAFFT provides a transport service, either to pick up rolls from the customer site for a service-job or to ship the products to the destination. Within a reasonable range KRAFFT deals with own trucks to achieve the best possible service-quality in this field, but even beyond Germany and the close-by neighbor countries KRAFFT is prepared to arrange any shipping requests in favor of their customers.

PM-Engineering, -modernization and -conversion

From the 140-year experience of an engineering-company working in paper-industry, KRAFFT has saved their know-how in the design office – besides the specialization on rollers as a core product – and is capable to provide consulting and design competence in certain fields of paper-machine engineering.

The engineers can give suggestions for the conversion or extension of a machine, resulting to the opportunity to receive the full project scope form one hand: KRAFFT provides the concept and design, the required components, like rollers, cylinders, drives, gears, bearings, etc., the shipping to the customer site and finally the assembly with the own crew. Even complete relocations have already been done by the KRAFFT team.

