

Traversing Roller

SERVE-TEX

INDUSTRIES



Improved batching through simple jigging. With the Dornier traversing roller.

When batching up fabrics with reinforced edges or structures, the edges tend to build up faster than remaining cloth.

Such an uneven batching causes several problems:

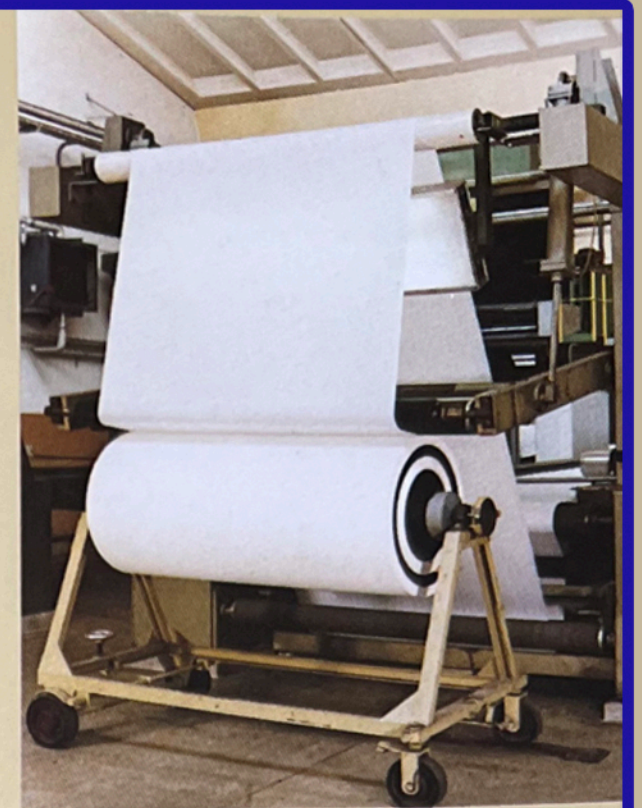
- full utilization of the batch capacity is not possible.
- Distortions which cannot be eliminated by weft straighteners arise in the cloth edges.
- In rayon staple fabrics, tears might occur in the cloth edges.

- During dyeing, differences in colour between edges and centre of the cloth might occur.
- During printing, crosswise folds in the cloth edges might lead to blank spaces and grinning.





Attachment to a continuous mercerizing plant



Attachment to an equalizing frame

A simple solution solves these problems:

The Dornier traversing roller. It prevents the edges from building up faster than the remaining cloth by moving the cloth layer periodically to and fro. A reduction gear installed inside the roller makes it rotate conically about the bearing centre at an adjustable distance, once every 55 roller rotations.

The roller is driven by the cloth. For this reason, the roller must be integrated in such a way into the cloth travel that a minimum angle of deviation of 40° and a minimum distance of about 500 mm from the batch are observed.

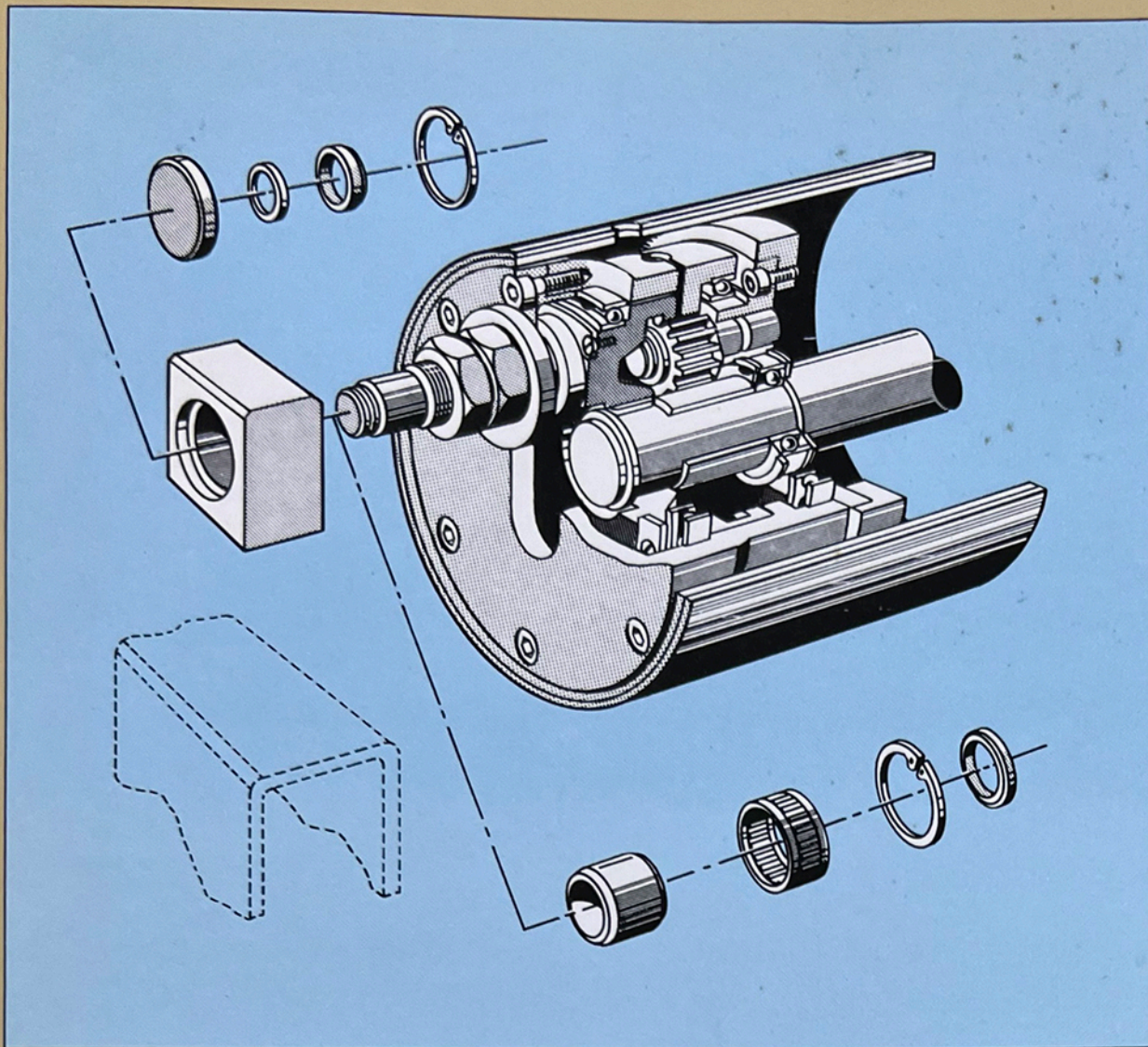
With larger rollers, the traversing effect is decreased, with smaller ones it is increased. In addition, the traversing width can be influenced by the distance of the roller from the batch, as well as by the circular movement of the roller about the bearing centre. With a 2000 mm wide roller for example, a traversing width of 60 mm can be reached.

The Dornier traversing roller possesses allround properties:

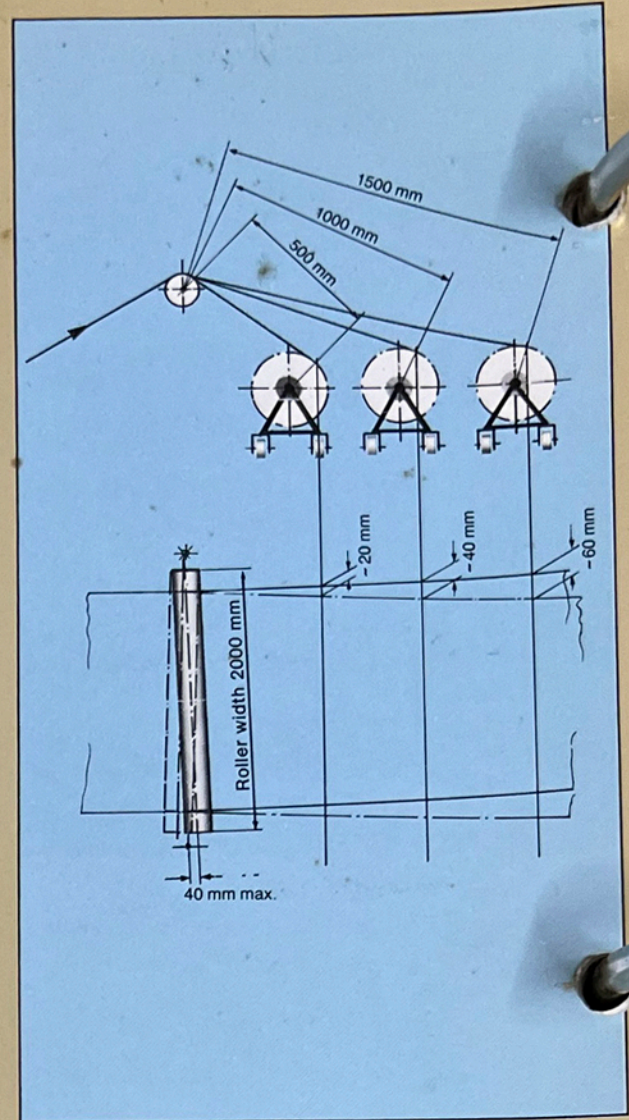
- A special surface protection is part of the standard equipment.
- Widths from 1000 to 4000 mm are available.
- The roller can be installed in front of every batch.
- The roller bearings are applicable as pedestal or flanged bearings.
- Due to long-term lubrication, lubrication intervals of 2000 to 4000 operating hours are possible.

For a more economic cloth batching use the Dornier traversing roller.

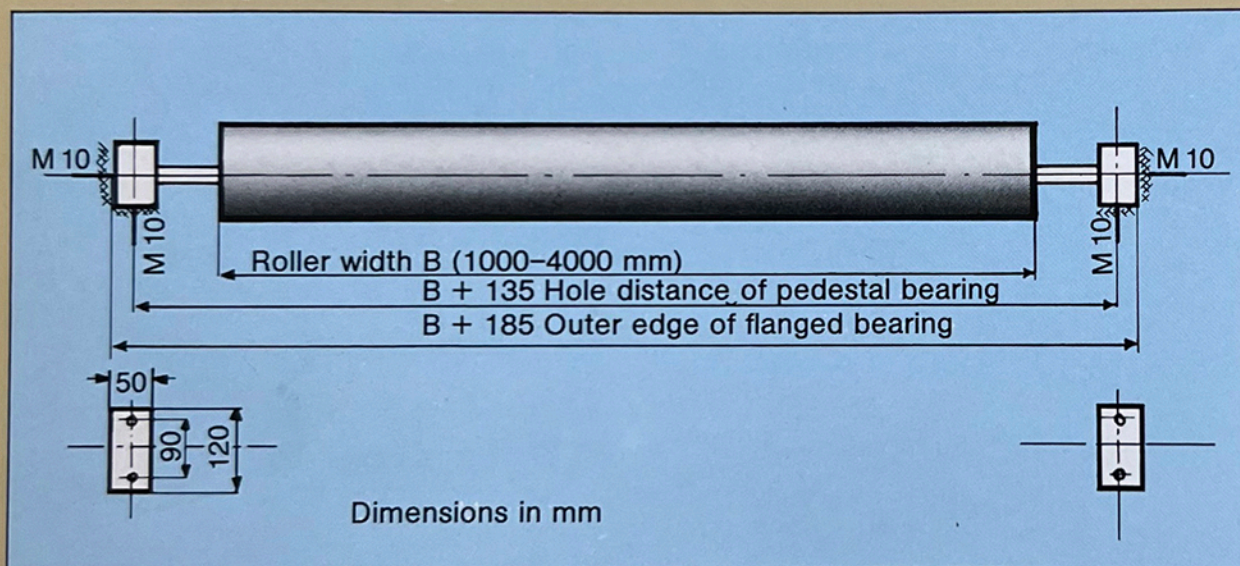




Sectional drawing of reduction gearbox



Installation variants



Dimensions of Dornier traversing roller

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