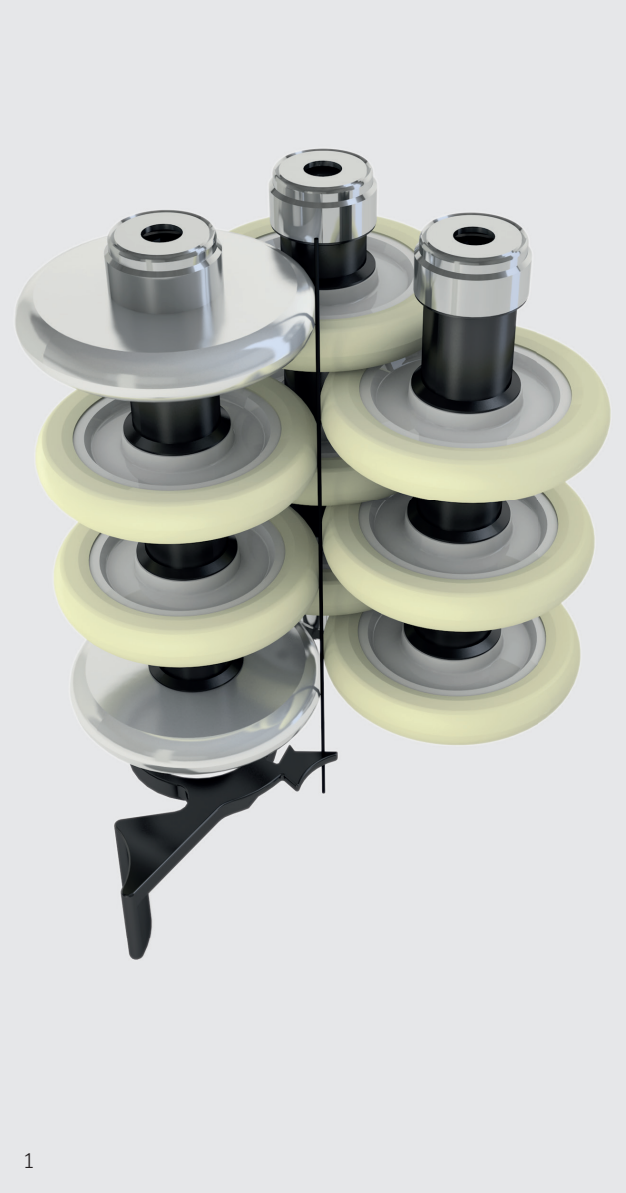
TEMCO

Texturing Unit FTS

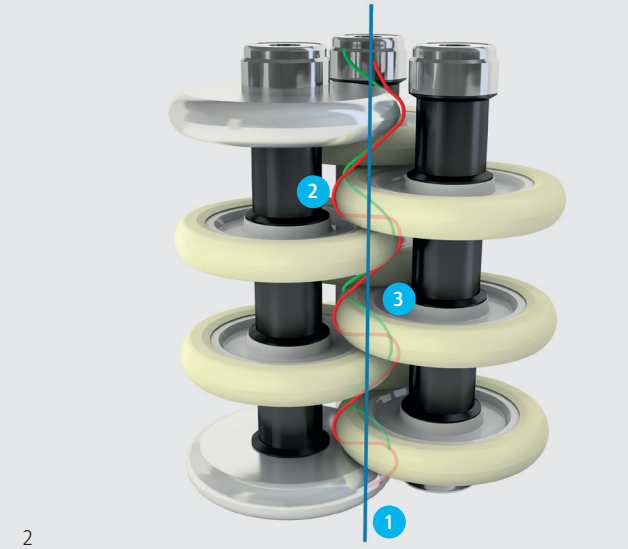
Technical information

Leading in Precision,
Productivity and Quality



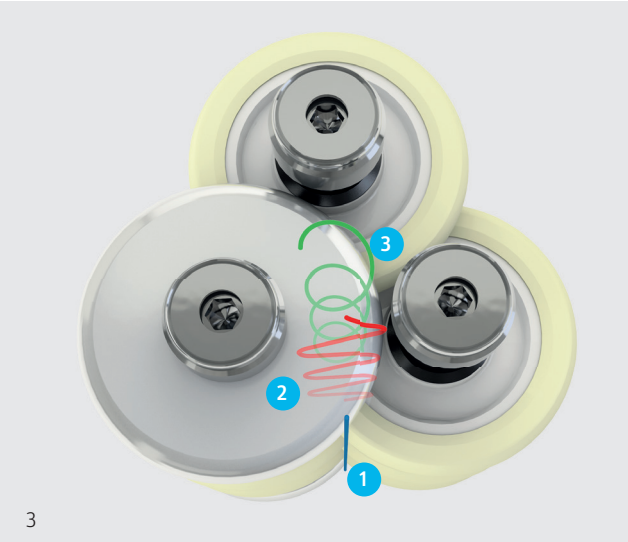
1

Threading process at an open/close unit



2

Threading process at a fix center unit, side view



3

Threading process at a fix center unit, top view

1. The yarn is positioned for the threading process

2. Using threading tines of a gate system, the yarn must be pressed across the area where the disc overlap is highest. Here, the tension peaks are at their highest, leading to a possibility of yarn breaks:

   a) The yarn is in a vertical position to the disc profile and is not influenced by force components from the rotating disc but is transported inwardly.

   b) The yarn is unstable within the threading area between 1 and 2 due to conflict in yarn transport directions between the left hand and right hand disc stacks.

3. The yarn is stable in the texturing unit center.

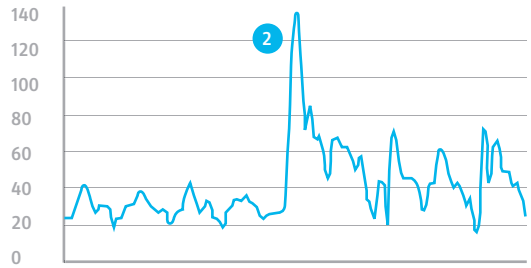
Technical Characteristics

Specifications

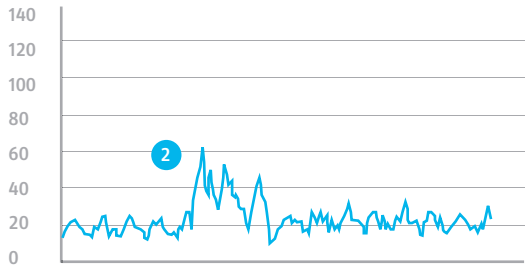
- Disc diameter 52 up to 53,5 mm
- Disc thickness 9 mm
- Max. disc combination 1-8-1
- Shaft diameter 14,45 mm
- Minimum pitch 110 mm
- Yarn entry and exit guides: snap-in
- Axial distance 37 mm
- Diabolo spacers
- Fitting caps with defined pressure force
- Drive (to the motor): coupling

Comparison fix center unit with open/close unit

Yarn tension variation with fix center unit
in cN

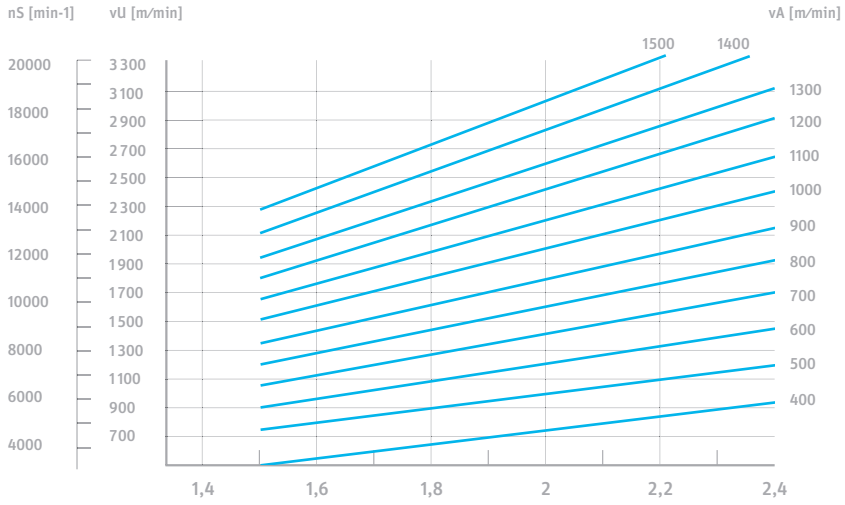


Yarn tension variation with open/close unit
in cN



Yarn running speeds compared to the disc circumferential speeds

Yarn tension variation with fix center unit
in D/Y



Yarn running speeds VA [m/min] and disc speeds ns [min-1] in dependence on D/Y:

Friction discs 52 mm diameter
vU = Disc circumferential speeds [m/min]

vA = Thread delivery speeds [m/min]
nS = Disc speeds [min-1]

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