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Mercerising

GOLLER - MERCERISING

The Key to Success

Mercerising is the treatment of cotton with concentrated caustic soda under fabric tension.

Mercerising is influenced by:

- Time
- Temperature
- Concentration of caustic soda
- Fabric tension

Influence of time

The penetration is defined by reaching the so-called glass point. This is visible when the fabric turns completely transparent. The time for mercerising is dependent on the method:

Time for mercerising:

- 20–30 sec. at 60 °C (hot mercerising)
- 40–50 sec. at 18–22 °C (cold mercerising)

Influence of temperature

The ideal temperature range for cotton swelling is from 18–22 °C. Under these conditions the penetration is very slow. At 60 °C the penetration is much faster, but the cotton swelling is less.

Influence of caustic soda concentration

The best swelling of cotton is reached at 260–300 g/l NaOH solid, which equals to 28–30 °Bé. At that concentration, the fibre structure changes from a corkscrew twist to a round one.

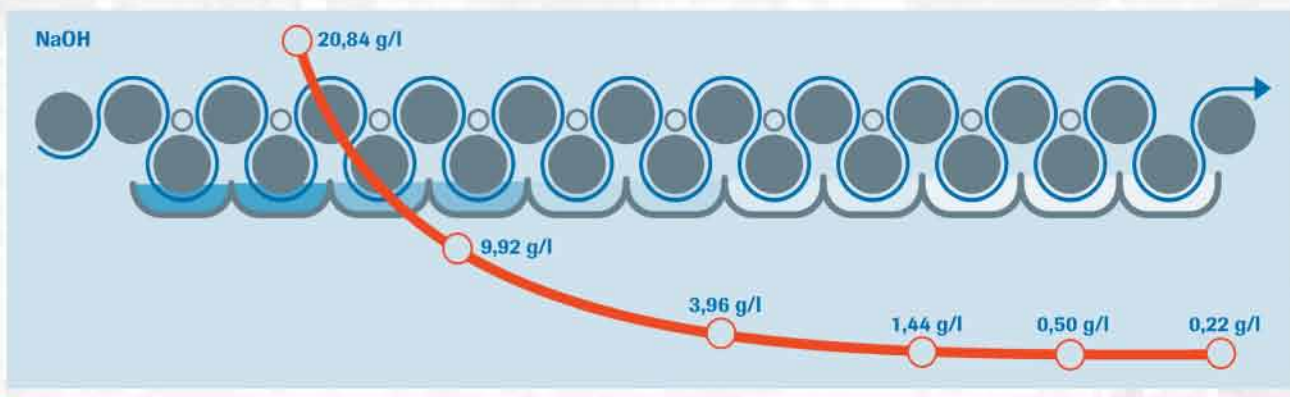
Fabric tension

The tension provides the clear surface structure i.e. the lustre of the fabric.

The tension always defines the requested dimension of the fabric.

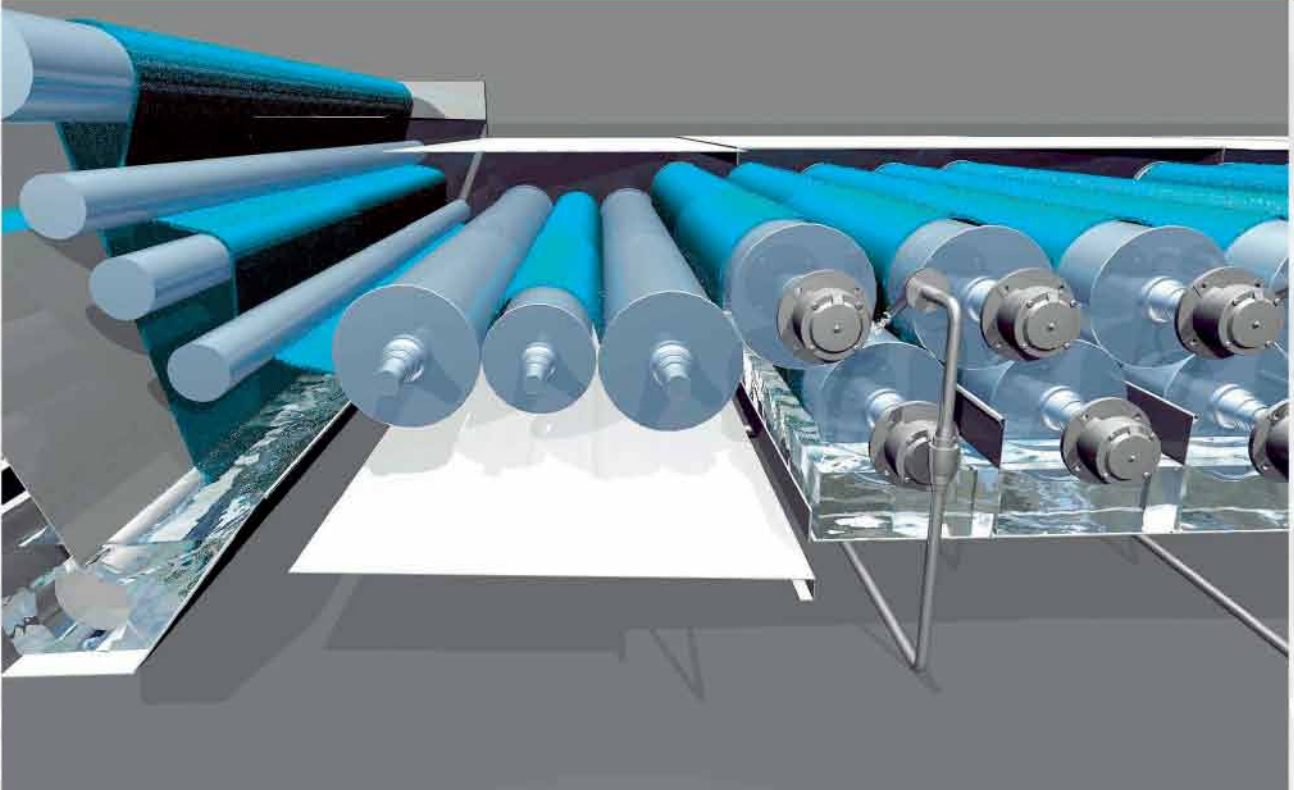
Stabilising

This dimensional stability is achieved in the stabilising process, where the concentration of the caustic soda is reduced continuously.



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The Economical Solution: Chainless Mercerising



Features:

- Modular system
- PC-control and recipe administration
- Fabric tension control by load cells
- Fabric guiding elements controlled & synchronised
- Intelligent caustic soda management during set-up and production
- Automatic caustic soda concentration regulation
- Equal results due to optimised impregnation
- High efficiency squeezing devices with special rubber coating to minimize caustic soda consumption in mercerising compartment
- Consequent counter flow and liquor circulation for fast reduction of caustic soda concentration in the stabilizing compartment
- Easy connection to caustic soda recovery unit

Working width	up to 3400 mm
Roller width	up to 3600 mm
Mercerising technology	hot mercerising cold mercerising wet-in-wet dry-in-wet
Fabrics	knitted and woven
Operation mode	single or double layer
Fabric speed	up to 100 m/min

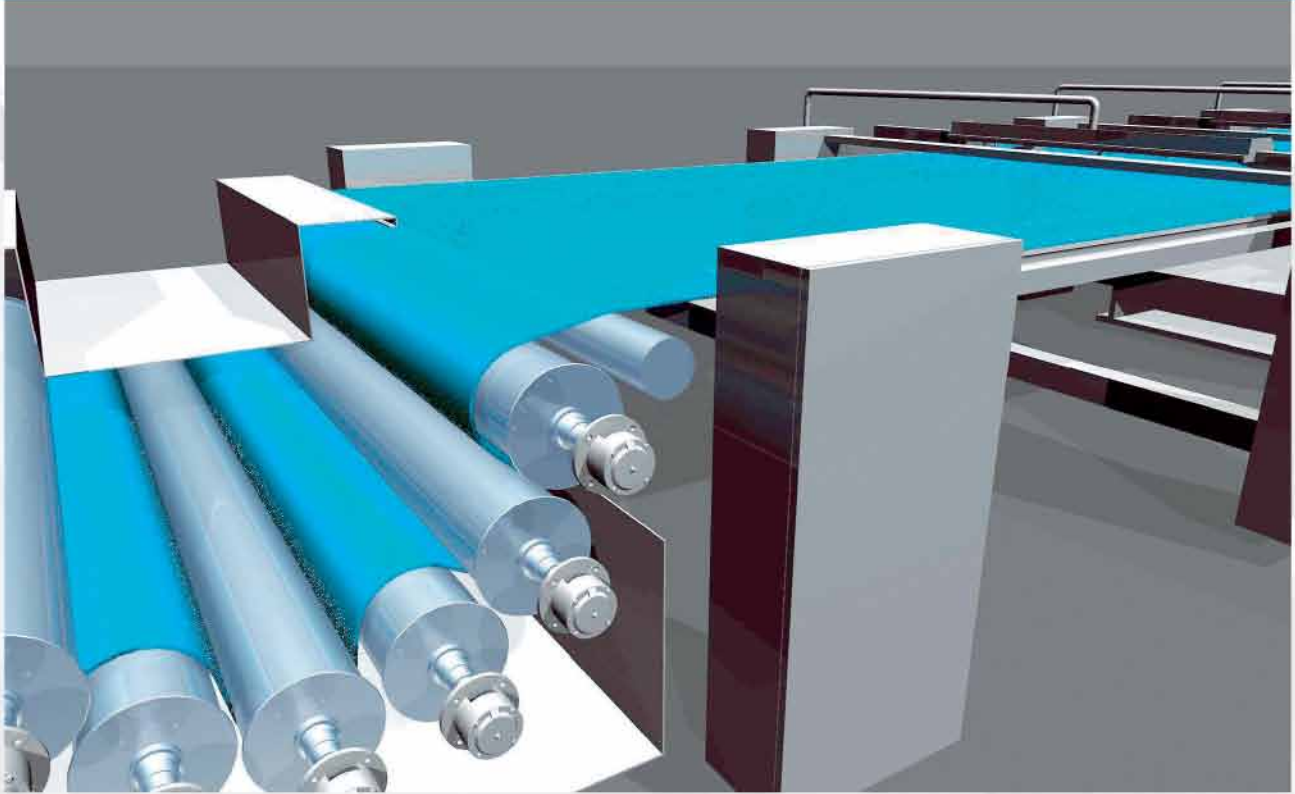


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Width under Control

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The fabric passage to the chain field

- Absolutely tight strand fabric guidance from mercerising compartment to the chain
- Operation platform for the chain

The chain for woven fabrics

- Horizontal clip chain
- High stretching power for defined width setting
- Infeed with selvage openers and scanning
- Overflow and vacuum devices for stabilisation
- Tight strand guidance to the stabilising section
- Synchronisation by load cell

The chain for knitted fabrics

- Horizontal pin chain
- Fabric inlet with overfeed
- Selvage uncurlers and edge sensors
- Supporting belts for the fabric

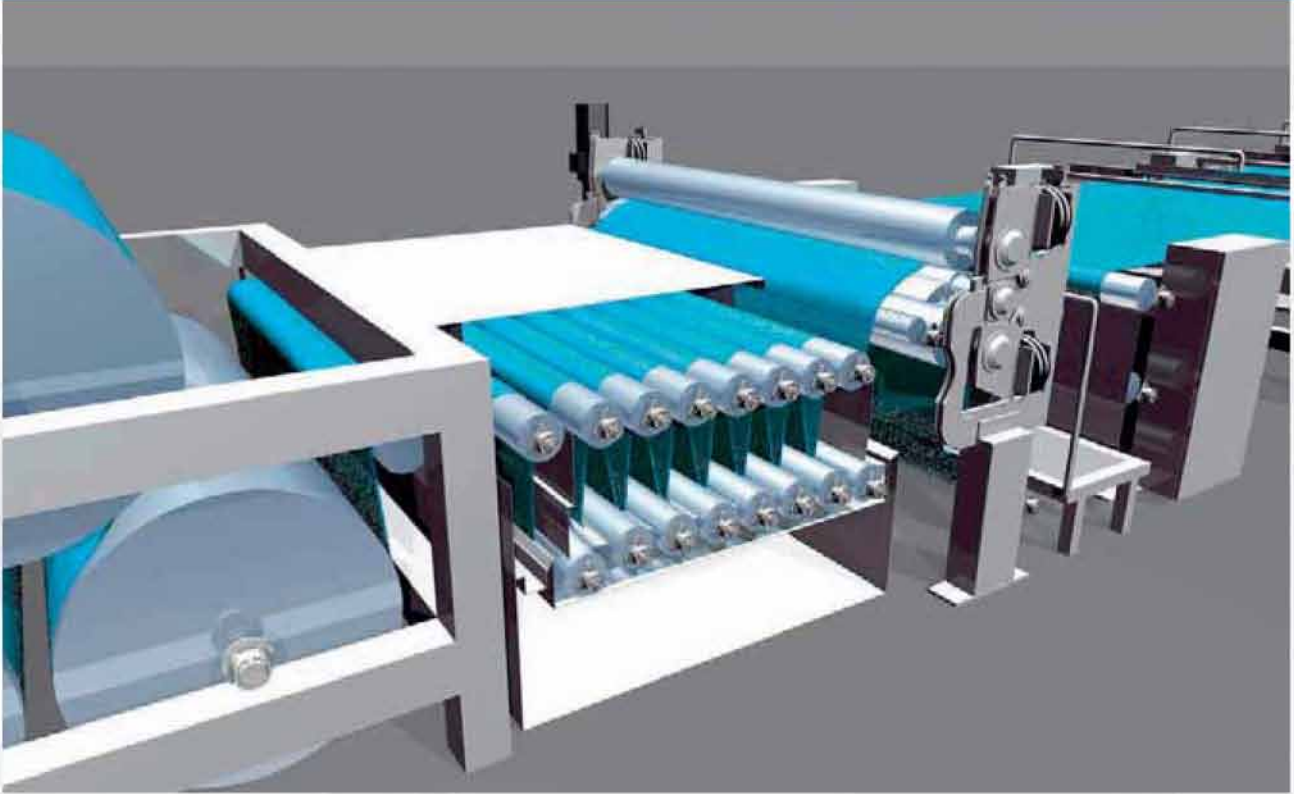
Working width	up to 3400 mm
Roller width	up to 3600 mm
Mercerising technology	hot mercerising cold mercerising wet-in-wet dry-in-wet
Fabrics	knitted and/or woven
Operation mode	single layer
Fabric speed	up to 60 m/min



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The Chain for High Requirements



Impregnation section

- Even impregnation to the core of the fibre
- Even and free shrinkage over the width
- Even distribution of warp yarns over the width
- Big-dimensioned guide rollers with short distance for crease-free fabric run to avoid selvedge curling

Stretching and timing section

- Complete swelling of the cotton fibre
- Load cell controlled length tension
- Dimension control in warp direction
- Save fabric transport

Stabilising section

- Horizontal clip chain
- Defined width setting
- Infeed with selvedge openers and scanning
- Overflow and vacuum devices for stabilisation

Working width	up to 3400 mm
Roller width	up to 3600 mm
Mercerising technology	hot mercerising cold mercerising wet-in-wet dry-in-wet
Fabrics	woven
Operation mode	single layer
Fabric speed	up to 100 m/min

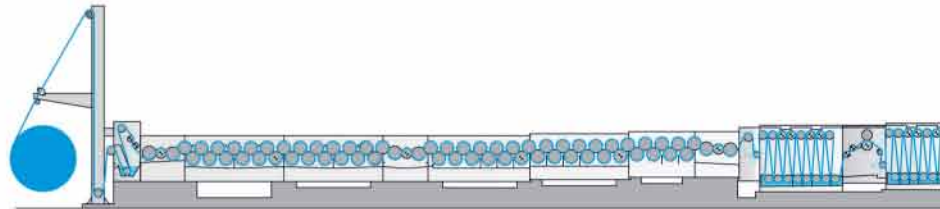


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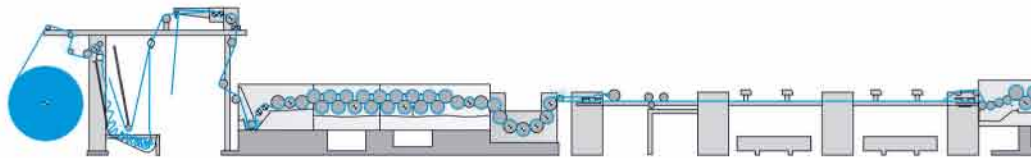
Possible Set-Ups

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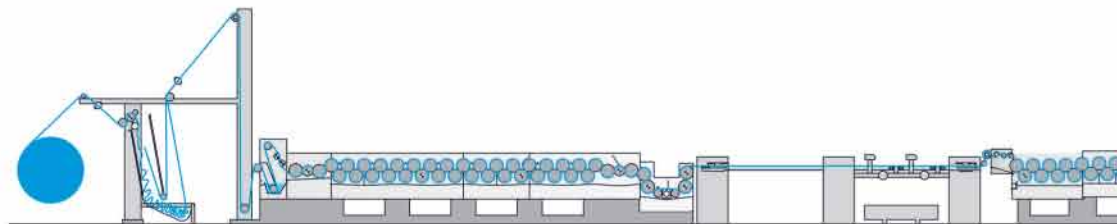
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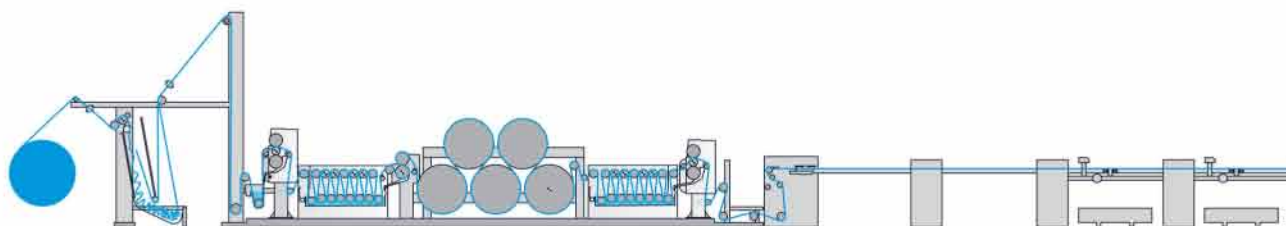
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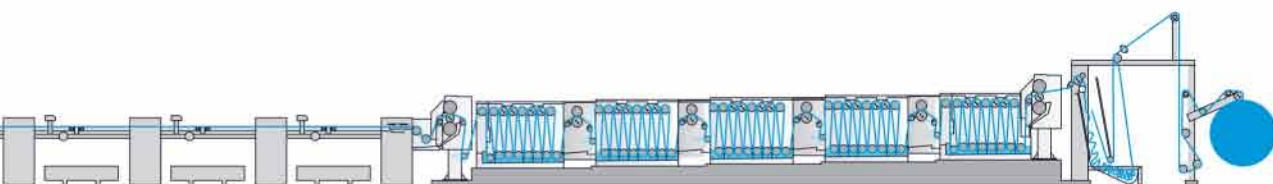
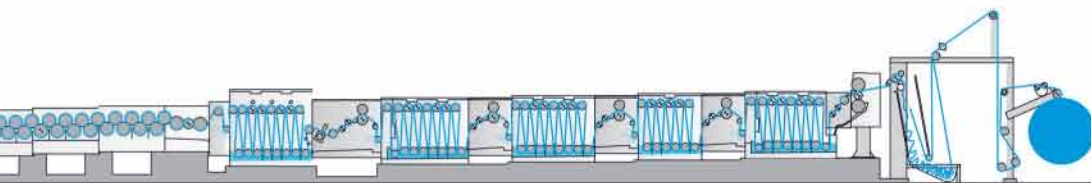
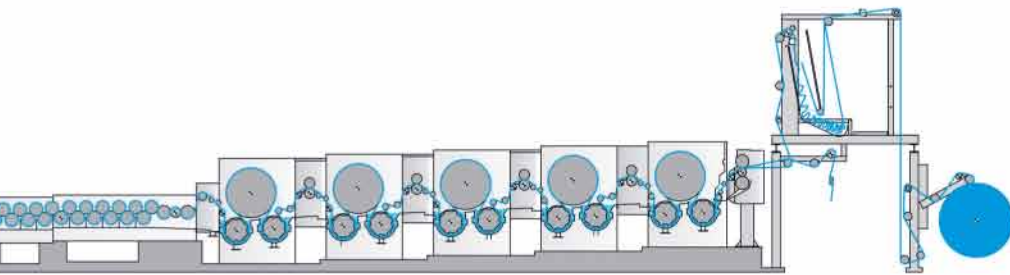
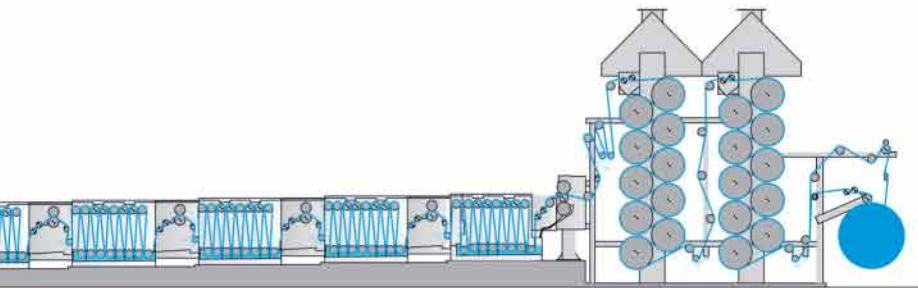


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For the sake of textile

we develop, manufacture and deliver wet finishing ranges for more than a hundred years to the worldwide market and are one of the most important producers in this market segment.

Focusing on the whole and detail

GOLLER can provide individually designed systems for continuous and efficient production processes. From desizing to end washing we offer a large scope of sophisticated and high-performance ranges.

Focusing on YOU

Due to the ongoing research and development as well as the constant contact with the textile industry, chemical suppliers and institutes you can rely on a wide knowledge.

Environmental consciousness is one of our top priorities

We care for a clean environment due to the economic use of dyestuffs, auxiliary agents, water and energy. Each drop of liquor, which is running through our machines will be returned environmentally friendly.

Let's talk together

There are 65 agents all over the world available for your individual requirements. Or contact us directly!

FONG'S NATIONAL ENGINEERING CO., LTD.

8/F., 22-28 Cheung Tat Road, Tsing Yi, Hong Kong
Phone (852) 2497 3300
Fax (852) 2432 2552
E-mail enquiry@fongs.com
www.fongs.com

FONG'S NATIONAL ENGINEERING (SHENZHEN) CO., LTD.

17-19 Lixin Road, Danzhotou Industrial Zone, Nanwan Sub-District,
Longgang District, Shenzhen, Guangdong, PRC Postal Code : 518114
Phone (86) 755 8473 6288
Fax (86) 755 8473 6154
www.fongs.com

FONG'S EUROPE GMBH

Milchgrundstrasse 32, 74523 Schwäbisch Hall, Germany
Phone (49) 791 403 0
Fax (49) 791 403 166
E-mail info@fongs.eu
www.fongs.eu

GOLLER (HK) Limited

8/F., 22-28 Cheung Tat Road, Tsing Yi, Hong Kong
Phone (852) 2449 9280
Fax (852) 2449 9638
E-mail info@goller-hk.com
www.goller.de

