

MERCERIZING - CHAIN MERCERIZER

INDIAN:

SWASTIK, SS-316, Bearing - outside, Fixed (Rs.60 - 62 lakh) Buyoncy Rolls
Rs.45 - 50 lakh

Dhall, SM, Yamuna - Buyoncy Rolls only - Rs.30 - 45 lakh

FOREIGN :

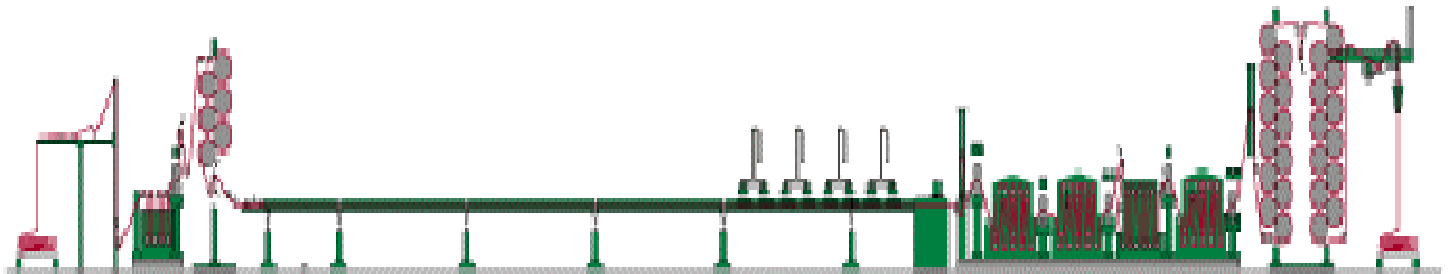
MORRISON USA - Rs.1.8 crore

Calico Kuster - Fixed Rolls only -Rs.1.6 crore

Gollar Germany - Rs.2.8 crore

(Chain Mercerising - Not popular nowadays)

CHAIN MERCERIZING RANGE OF MORRISON (USA)



- ❖ Application of highly concentrated (50° Tw; 23%; 29° Bé) caustic soda to the fabric
- ❖ Dwell time of approximately 45 seconds to allow yarn swelling and deconvolution of fibres with warp tension applied or controlled
- ❖ Restretching weft on stenter frame to as near grey width as possible with on-frame water cascades with suction boxes to reduce caustic content and stabilize fabric
- ❖ Final washing and neutralizing, if needed

CHAINLESS MERCERIZER

INDIAN

SWASTIK (Wider width, 40 mts/min. Rs.60 - 65 lakh,

Dhall , SM - Rs.50 - 60 lakh

INDIAN-GERMAN

KÜSTER INDIA - Rs.2 - 2.5 crore

FOREIGN – GERMANY:

Benninger - Rs.10 - 11 cr

MENZEL- Rs.3.5 - 4 crore

CHAINLESS MERCERISER OF SWASTIK



- ❖ Fixed Bottom rolls with fabric in total contact with rolls for even mercerising, less (0.5 - 1%) caustic retention in final fabric as against 10 - 15% in machines with floating rolls.
- ❖ Uniform mercerising.
- ❖ Better caustic recovery.
- ❖ Less severe washing - Improvement in quality

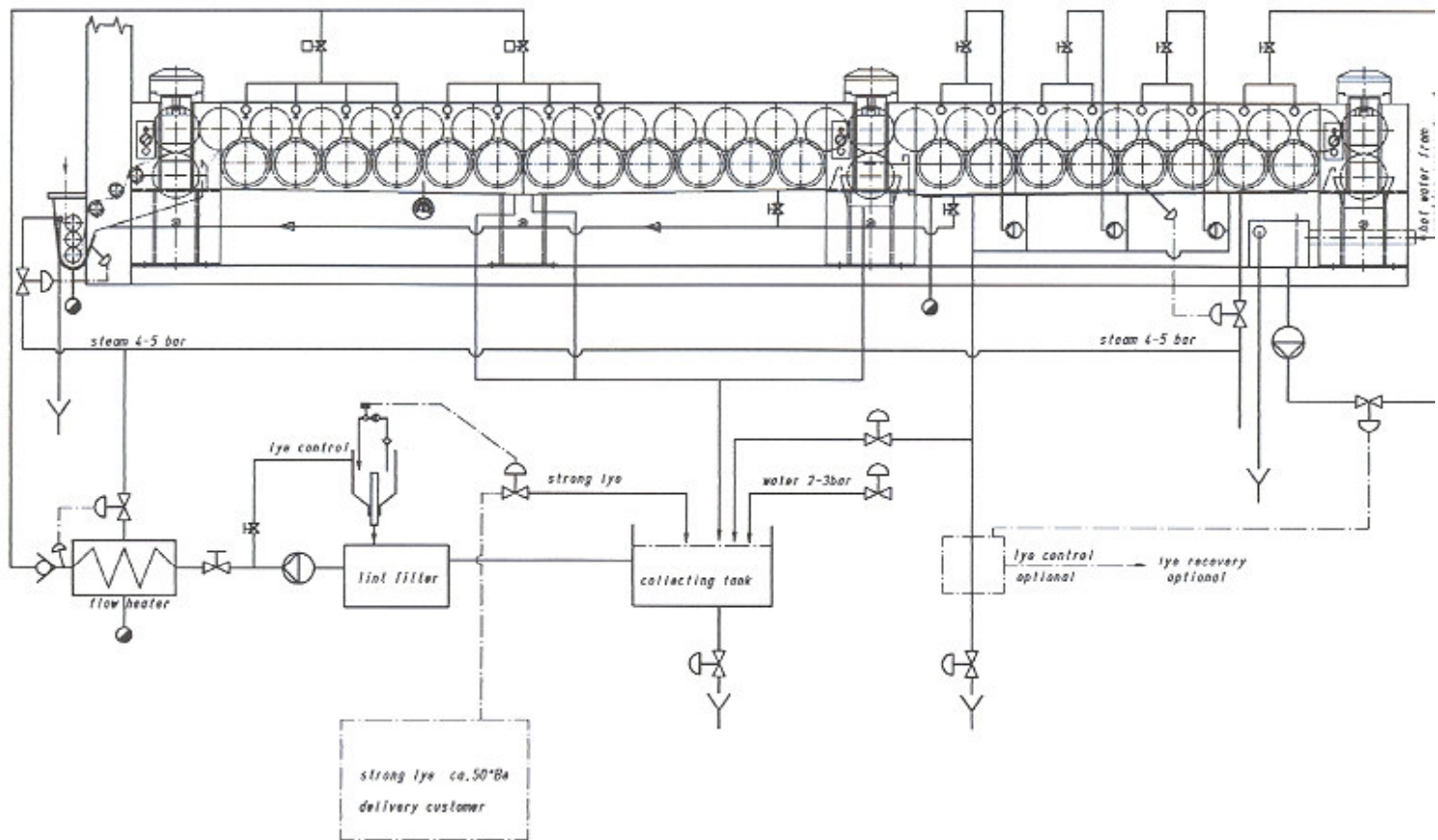
CHAINLESS MERCERIZING RANGE (CALICO-KÜSTERS)



- ❖ Holding the fabric in over-stretched position through a firm grip by specially designed grooved heavy steel bottom rollers in impregnating and stabilizing sections of this machine, results in uniform and very high mercerizing effects.
- ❖ Continuous contact of rubber and steel rollers, firm grip with grooved steel rollers and pre-selected cloth tension in entire mercerizing machine by compensator sets.
- ❖ Highly efficient squeeze rollers with increased and uniform squeezing.
- ❖ Specially designed recuperator with live steam injection on fabric, partitioning in tank giving serpentine and countercurrent flow of water improve caustic removal from fabric
- ❖ Total countercurrent system of washing off caustic in recuperator and stabilizer through overflow of recuperator with the help of pump, gives good caustic recovery.

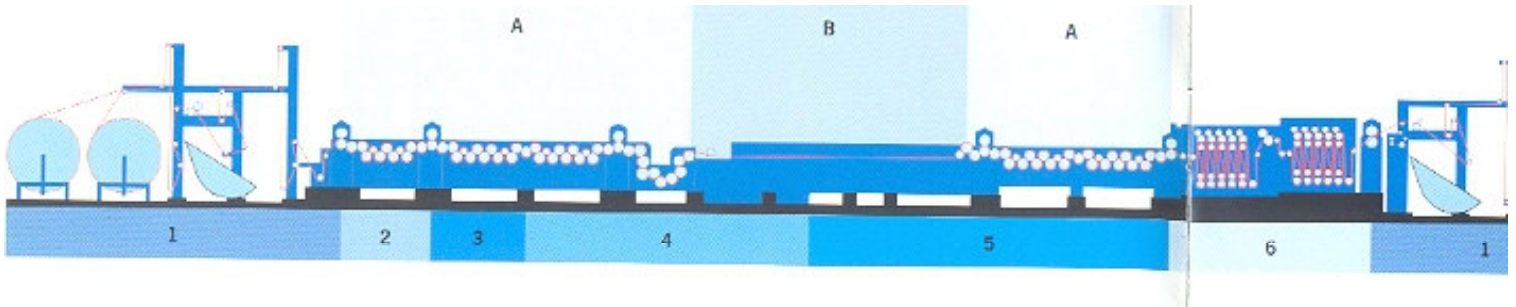
- ❖ Heavy steel bottom rollers running on ball bearing, situated outside of impregnator and stabilizer for easy maintenance of machine.
- ❖ Caustic spraying pipes are positioned in between rubber rollers of impregnating and stabilizing compartments for uniform and effective caustic application

CHAINLESS COLD AND HOT MERCERIZING RANGE (MENZEL)



- ❖ Excellent mercerizing effects through optimum control of cloth width, automatic lye concentration adjustment and automatic tension control in impregnating section
- ❖ Made of feeding device with expander rollers, impregnating compartments for mercerizing and stabilizing having rollers of spirally shaped surface and neutralizing and washing compartments with countercurrent flows
- ❖ Steam recuperation, heat recovery and fully automatic lye control for economy
- ❖ Continuous lye cleaning with fully automatic rotating filters
- ❖ Cooling plant for cold mercerizing and flow heater for hot mercerizing

CHAIN-CHAINLESS MERCERIZER BEN-DIMENSA (BENNINGER-SWISS)



- ❖ Permanent positive fabric guidance
- ❖ Also suitable for hot mercerization
- ❖ Intensive impregnation zone – reaction zone having chainless fabric guidance – pre-stabilizing zone with chain fabric guidance – high efficiency open-width washing and neutralizing zone having Benninger's Extracta compartments.

ECONOMIC MERCERIZER ECO-MERCERIZER (SWASTIK)



- Standard machine economically designed and equipped with two squeezers, one after impregnator, and the other after stabilizer

- Washing section has light squeezers for the first two compartments and heavy squeezer for the final compartment
- All washing compartments are of open construction

BATCH MERCERIZER MINIMERC(MENZEL)



- ❖ Compact mercerizing range – openwidth but batchwise
- ❖ For both cold and hot processes under tight strand control
- ❖ Less space requirement with production speeds of up to 20 mtr/min
- ❖ Mercerizing effect is same as that of standard chainless range