

## FABRICS DESIZING-SCOURING-BLEACHING

### **INDIAN - BATCHWISE :**

PACIFIC- J JIGGER OF HARISH (INDIA)

(N-Range - 130, J-Range - 150 mt/min)

300 kgs - Rs.13 - 14 lakh,

600 kgs - Rs.15 - 18 lakh

SHAKTI - Rs.15 - 20 lakh

MATHER & PLATT PUNE - Rs.25 - 30 lakh

(Normal jiggers spd. - 50 - 60 mtrs/min)

SUPER JUMBO JIGGER OF SWASTIK -FULLY AUTOMATIC WITH  
INVERTER CONTROL - 1200 MM DIA - Rs.12 lakh, 1500 MM DIA - Rs.16 lakh  
(CAPACITY - 300 - 600 KGS)

### **SEMI-CONTINUOUS RANGE:**

SWASTIK, SM, HARISH - Rs.80 lakh - 1.6 crore

PRETREATMENT RANGE OF KÜSTERS (GERMANY) - Rs.3 - 3.5 crore

## CONTINUOUS RANGES

### **INDIAN**

PRETREATMENT RANGE OF SWASTIK, SM - Rs.2.5 - 3 crore

### **FOREIGN :**

PRETREATMENT RANGE OF KÜSTERS (Indian) - Rs.10 - 12 crore

GERMAN - Rs.14 - 15 crore

BRUCKNER, MONFORT, BENNINGER - Rs.10 - 14 crore

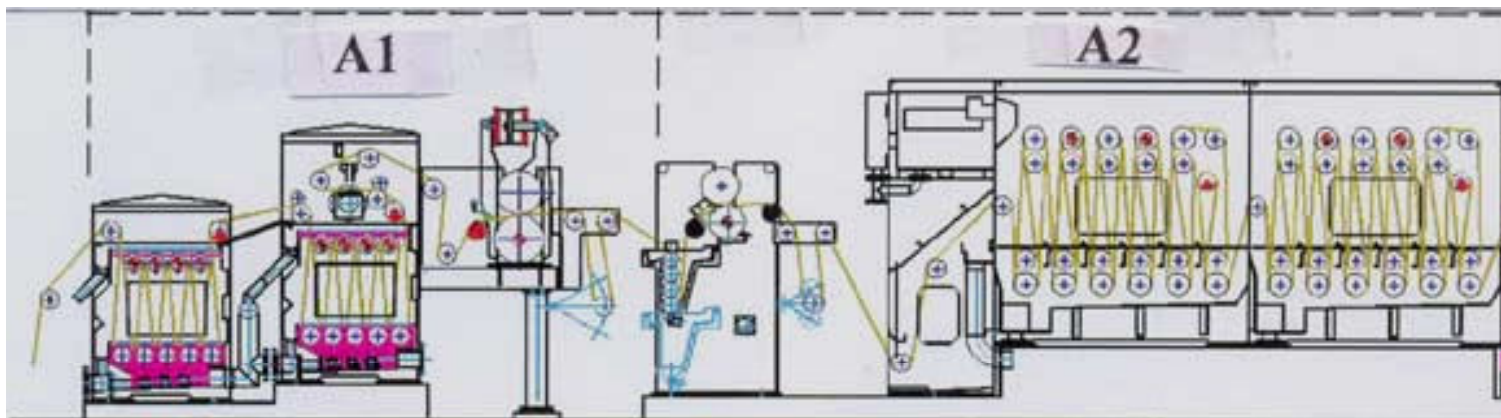
MAZZERA - Rs.16 crore

## BACHWISE PRETREATMENT PACIFIC-J JIGGER (HARISH)



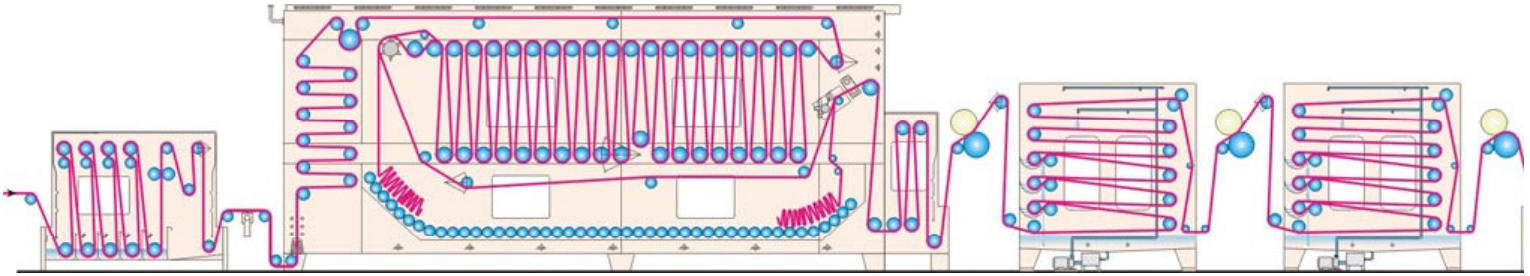
- ❖ Model-J has batch dia of 1400 mm (960 kg) & speeds up to 1500 mtr/min
- ❖ Hydraulic drive with a cushioned start / slow stop.
- ❖ Tension adjustment at finger tips.
- ❖ Trough heating is indirect via an external heat exchanger for Pacific-J & N while Pacific-E & B are with indirect heating coils in the tank. All are for dyeing too.
- ❖ Steam coils are provided in the hood to prevent condensate formation.
- ❖ Efficient washing is achieved by spray washing above water level.
- ❖ Automatic rocking device avoids unbalanced batches while the machine is stopped.
- ❖ Accurate dosing made possible with continuous level sensor.
- ❖ In fully automatic models, microprocessor controls: temperature, speed, auto-pendulation, dosing, water filling, auto-draining, sampling point, auto-batch-reversing, number of turns and display of process steps.

### SEMI-CONTINUOUS PRETREATMENT RANGE (KÜSTERS)



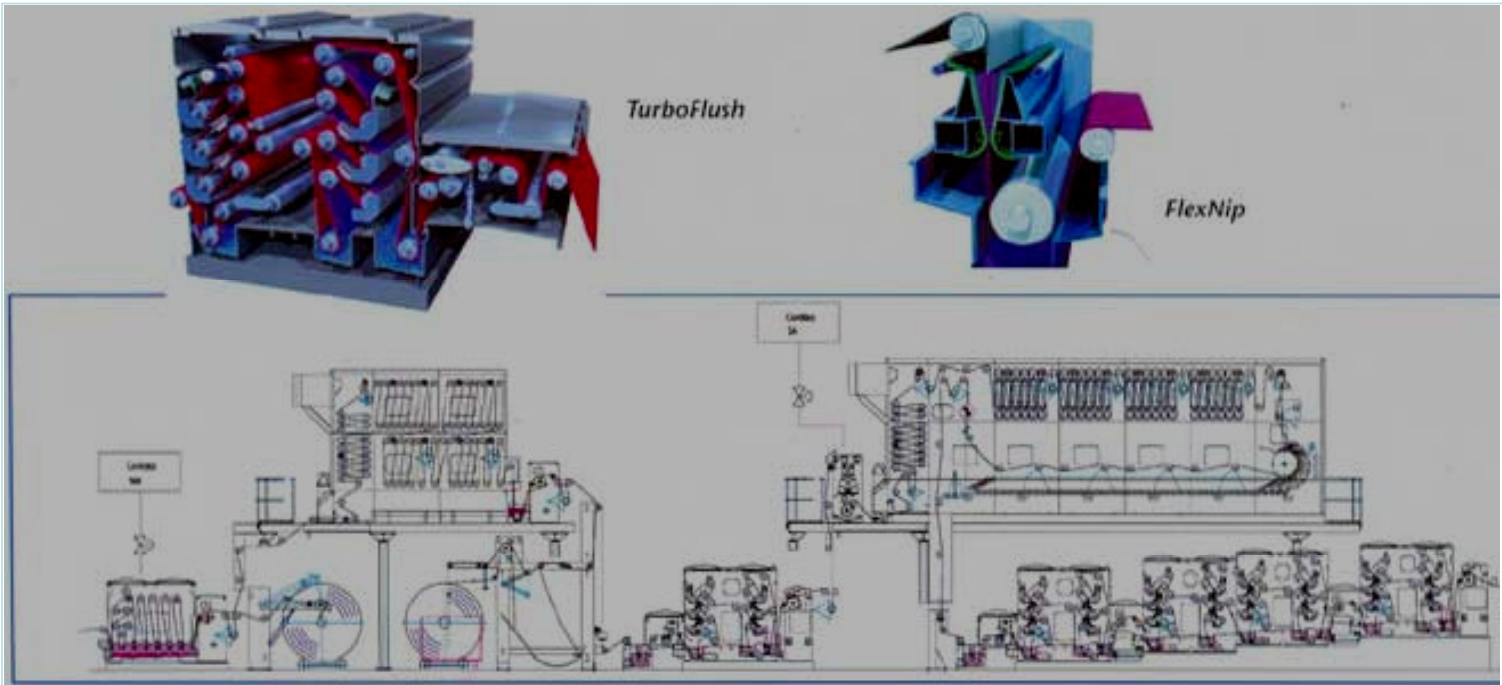
- ❖ 2-stage desizing-scouring-bleaching range for fabric in full width
- ❖ 1st stage: desizing – singed fabric impregnated with enzyme to 100% wet pick-up, dwelled at ambient temperature for 6-12 hr and washed at boil
- ❖ 2nd stage: combined scouring and bleaching – fabric impregnated with scouring and bleaching agents by padding followed by steaming at 100° C for 90 sec, washed as boil-hot and cold, rinsed and neutralized.

## CONTINUOUS PRETREATMENT RANGE (SWASTIK)



- ❖ Impregnator equipped with Wiper Rollers of suitable rubber to obtain 100% or more pick-up (up to 130% )
- ❖ A vacuum slot located at the entry of fabric in impregnator entering after Hi-squeeze Nip useful for certain qualities of fabrics
- ❖ A set of wiper rollers provided to enable uniform add-on.
- ❖ Universal Combi-Steamer CS-4: steam lock at entry and water seal at delivery; fabric fed from bottom through steam seal using steam dome principle to prevent air entry leading to lower steam consumption  
Fabric passage in single/double loop threading and can have multiple sections as per capacity needs; dwell times from 1-10 min on tight strands with tension control devices in each section.
- ❖ Roller bed conveyor with driven ss rollers transports fabric in small loops for 10-40 min dwell; cap. up to 1800 mtr
- ❖ Precise and crease-free fabric delivery through infrared full width sensors at delivery end of steamer
- ❖ Automatic synchronization with precise and minimum tension on fabric
- ❖ Feeding of dry/saturated steam for faster heating; heated roof prevents condensate dropping.
- ❖ Ss washing system for steamed fabric after water seal without air contact and losing much heat for efficient washing; prevents coagulation of saponified waxes or emulsified impurities
- ❖ PLC/microprocessor controlled full automation for dosing chemicals; storage tanks mixing tank and re-circulating system

## CONTINUOUS PRETREATMENT RANGE (KÜSTERS)



- ❖ 1st stage: desizing – pad-steam-enzymatic cracking-short time steaming and hot wash
- ❖ 2nd stage: megableach or combined scouring and bleaching – flex nip high add-on application followed by 20 min steaming and hot wash off; megableach combines alkaline scouring and peroxide bleaching
- ❖ Fabric is neutralized and optimally washed