

# SWASTIK

ESTABLISHED 1937

## MAXI JIG ELECTRONIC

Model MJE 300 / 800 / 1000 / 1400 / 1400



### SWASTIK TEXTILE ENGINEERS PVT. LTD.

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**MAXI-JIG Electronic MJE** is the most innovated machine for preparation, pretreatment and dyeing of fabric in open width. The machine is manufactured from Stainless Steel and is suitable for all processes where constant speed and tension of fabric are essential. Maxi-Jig Electronic MJE is suitable for processing Cotton - Viscose - Silk - Wool and their blends.

The Maxi-Jig Electronic is equipped with individual motors for the two batch rollers, each controlled by a special frequency controller. Tension is adjustable between 6-40 Kg. Maxi-Jig Electronic is equipped with a PLC / Micro Processor controller with a large display to set and monitor process parameters, Re-circulation device and filter and is fully automatic. The machine can be equipped with a fully automatic auto dosing system for better process control.



MJE-800



## MECHANICAL FEATURES

### MAIN BODY

Strong and sturdy side-walls are connected together with tie supports.

### TROUGH AND HOOD

A specially designed low liquor trough in a special design is provided which permits low liquor operation. The hood has large view glass and an anti-splash device.

### BALANCER

Spring loaded balancer, one preceding each batch roller is provided to maintain uniform tension.

### DRIVE

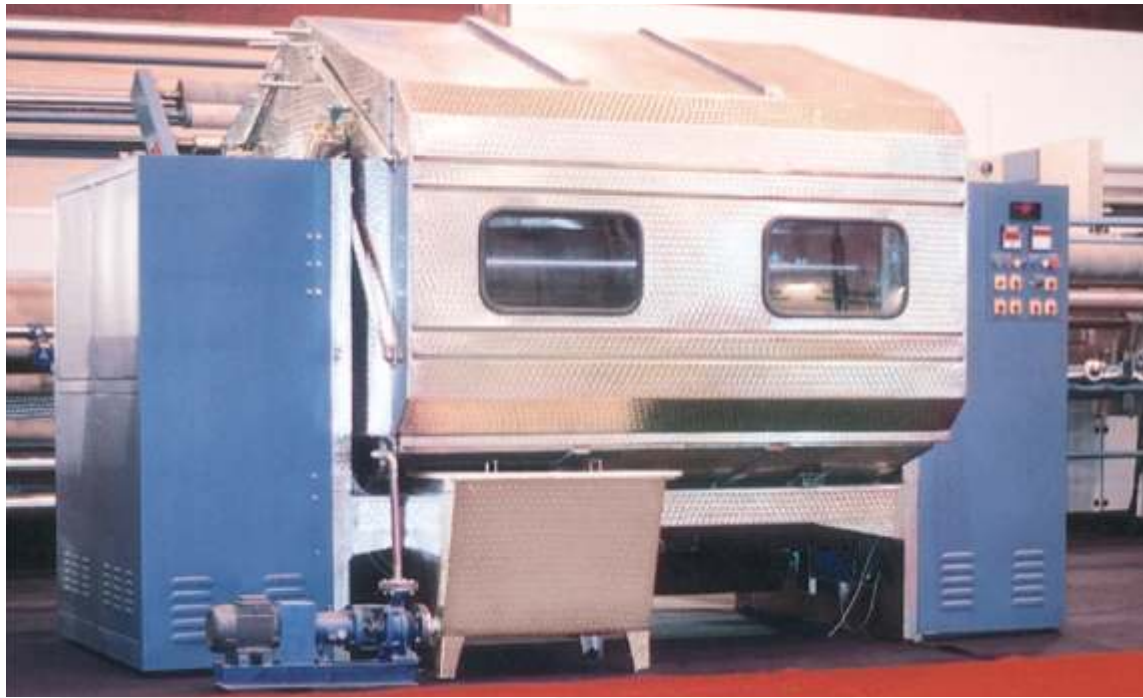
Each batch roller is driven by an individual Motor directly coupled to the shaft. A clutch can be provided for interlinking the two drives to reduce power.

### SELVEDGE SHIFTING

This arrangement moves one of the main batch rollers laterally and automatically to shift the selvedge.

### LOADING AND UNLOADING

The machine is equipped with a loading and unloading arrangement for easy handling of fabric.



MJE-1400

## TECHNICAL FEATURES

### TENSION

The winding tension is pre-set and programmable and remains absolutely constant throughout the process.

### SPEED

The machine can be operated at steplessly variable speed with closed loop control.

### OSCILLATION

To eliminate the possibility of un-balanced load when the machine is to be stopped or at the end of the final run, the machines switches to an oscillating movement when stopped.

### RE-CIRCULATION

Bath re-circulation arrangement is provided with a stainless steel pump and filter to obtain uniform dyeing results.

### DOSING

Dosing system is controlled by a PLC / Micro-processor.

### AUTOMATION

The machine is equipped with a Micro-processor or a PLC controller. The controller is equipped with a large easily readable MMI arrangement for operator convenience. The complete operation cycle can be pre-programmed and executed. The same can also be stored for retrieval and use at a later time. Multiple machines can be interlinked so that the program of one machine can also be used for another machine. Arrangement can be provided for linking the machines to a central monitoring and control system through a network. Arrangement can also be provided to diagnose and correct software problems through a modem connection which can be incorporated in the supply for machines installed in remote areas.

ports and support the batch rollers, trough etc.

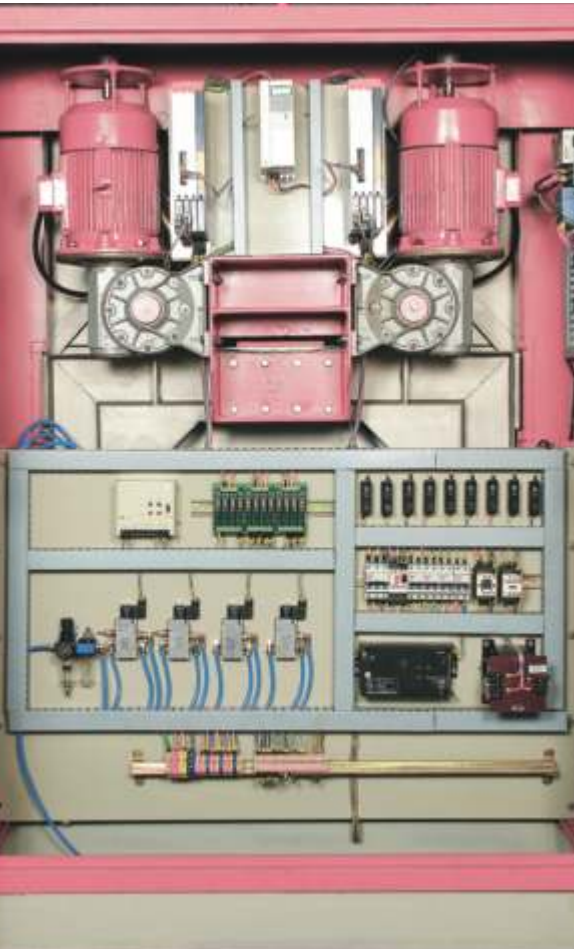
provided along with stainless steel Hood. A special trough design indirect heating coil.

ed with an expander bar for fabric centering.

o a speed reduction gear-box with feedback control. Arrangement

ensures perfect batching even for fabrics with thick selvages.

nt for batches or loose fabrics.



MAXI JIG ELECTRONIC

**STANDARD FEATURES**

- ▶ Constant Tension adjustable between 6-40 Kg.
- ▶ PLC control for drive and machine operation
- ▶ Automatic reversal upto 30 times
- ▶ Hood with Indirect Heating
- ▶ Oscillating Arrangement
- ▶ Steam Heating
- ▶ Re-circulation Arrangement
- ▶ Auto Temperature Control

**OPTIONAL FEATURES**

- ▶ Pre-set sampling point
- ▶ Auto Dosing Arrangements
- ▶ Selvedge Shifting
- ▶ PLC Control for operation of Mechanical Component
- ▶ LAN Connection for Networking different machines
- ▶ Modem Connection
- ▶ SCADA for Complete Centralised Control of the machine
- ▶ Temperature profile control.

**TECHNICAL DATA**

Speed	MJE 300	MJE 800	MJE 1000	MJE 1400
Roller Diameter	175 mm	275 mm	275 mm	275/325 mm
Roller Face	1500-3400 mm	1500-3400 mm	1500-3400 mm	1500-3400 mm
Connected Power kW	6 / 9.5 / 14	12 / 14 / 17.5	14 / 17.5 / 26	18 / 27
Tension	6 - 40 Kg.			

manufactured by

marketing & servicing agents

**SWASTIK TEXTILE ENGINEERS PVT. LTD.**  
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