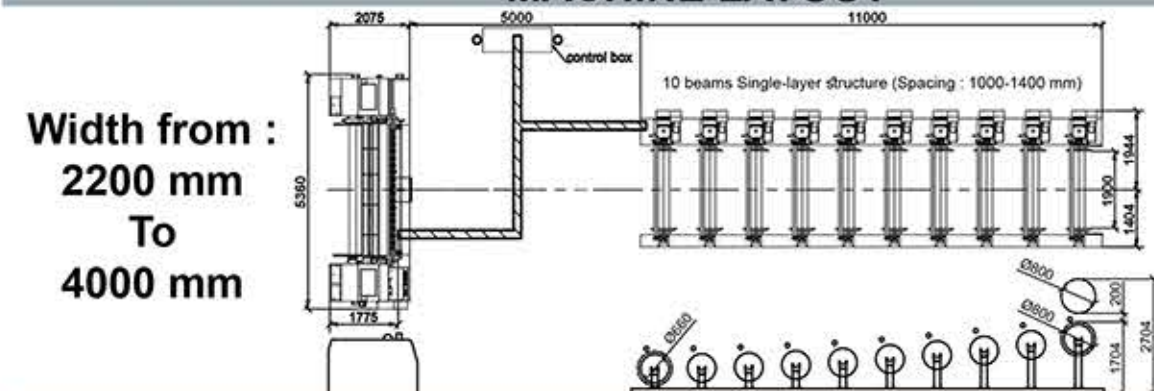


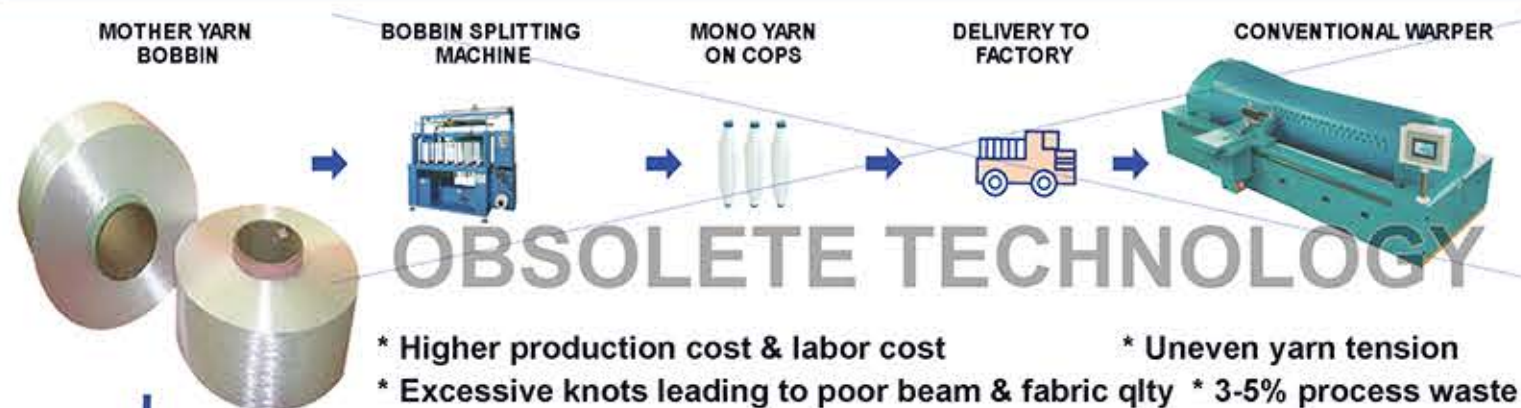
TECHNICAL SPECS OF ML- 416 SERVO BEAMING MACHINE/ ASSEMBLY WINDER

Speed of Warping Beam	Upto 300 mpm depending on Yarn & number of beam in use
No of warping beams	8-16 stands. Also available in double deck
Winding Tension	40 kg-1200 kg
Standard Working width	1200-4000 mm
Weaver beam Dia	800, 920, 1000 mm
Expanding Reed Adjustment type	Electric
Up-Down movement of weaving beam	By Hydraulic Cylinder
Unwinding tension Control	Auto control by Servo motor of 5.5-7.5 kW & Load cell technology
Taper tension control	Auto control by Frequency conversion motor of 15-18.5 kW & Load cell technology
Winding Tension control mode	Tension feedback for AC vector drive
Expanding Godet Roller	Upto 3600 mm width
Display type ,PLC ,Inverter	Touch operated Display - INVT
Power Capacity	120 kVA
Total length of machine	17000-21000 mm

MACHINE LAYOUT



TRADITIONAL METHOD OF MANUFACTURING MONO YARN BEAMS



Avg 150 knots / Beam

Efficiency on Weaving 70-80 %



HIGH SPEED AIRJET -WATERJET WEAVING LOOMS

Avg 15 knots / Beam

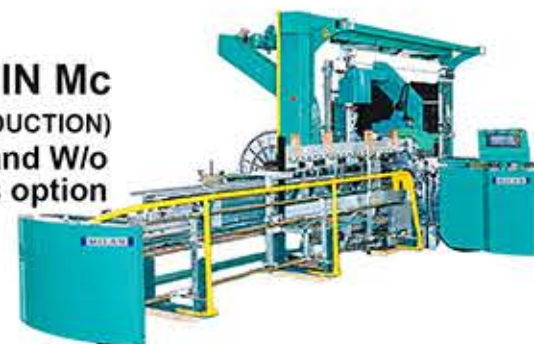
Efficiency on High speed looms upto 90-96 %



LEASING DEVICE-
AUTO DRAWING Mc

DRAWING IN Mc
(NEW INTRODUCTION)
With and W/o
Droppers option

Process wastage <1%



**GUARANTEED
YARN TENSION VARIATION
WITHIN +/- 1 gm**



Servo Motor &
Load cell based
Accurate Tension
control on each stand

BEAMING M/C /
ASSEMBLY WINDER

Front Roller

Split Zone

Back Roller

MASTER PIPE



**MILAN
TEXTILES**
SPLIT WARMING MACHINE
MODEL NO : ML-755 WIDTH : 1000 mm
SERIAL NO : 250301 SPEED : 500 mpm
DATE OF MANUFACTURE : MARCH 2025
PRA. E.C. GLOBAL POINT KARTODARA, WING ROAD SURAT, GUJARAT, INDIA
TEL : 0261220 2812400, EMAIL : machines@ml755.com

For Weaving Beams of 65"- 85" width & 30"- 40" dia Upto 24000 Ends

ML-358

Speed :: Upto 700 mpm
Creel Position :: 56 - 80
Braking Distance :: < 3 metres at speed of 500 mpm
Rated Power :: <= 35 kw, Running Power load of 12-16 Amp
Beam Size :: 21"x 21" / 21"x 30"

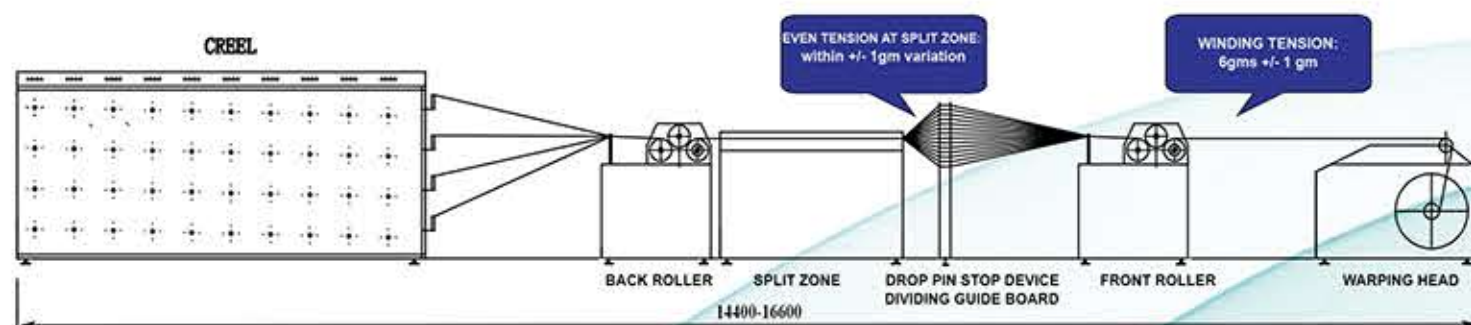
Working Width :: 21"
Head Motor :: SIEMENS 7.5 - 11 kW
Back Roller :: 3.5 - 4.5 kW
Front Roller :: 3.5 - 4.5 kW

- Two sections of tension rollers - Pneumatically controlled, 3 rollers - state of the art technology
- Splitting Zone with Hard Chromed steel tubes for variable tension control
- Splitting Guide with Drop Pin Stop Motion made of specialized alloy for trouble free reliable operation
- Fully synchronized Speed Control based closed loop electronic control system to achieve adjustable tensions divided in 3 separate zones
- Mother yarn Bobbins :: Complete set of adaptors suitable for paper tube ID of 94,110,120 mm
- Inverters :: Schneider - INVT, PLC : Omron, Japan

OPTIONAL SUPPLIES

- Warping head customised to beam size
- Drop pin stop motion aided by infrared device
- Laser stop device and Camera stop device
- Auto Tension Control device
- Beam Diameter : 660~800 mm
- Leasing Device

DIRECT SPLIT WARPING FOR WEAVING BEAMS USING BEAMING MACHINE 120~ 208 SPINDLE POSITION



COMPARISON :: TRADITIONAL vs IMPROVED METHOD

- | TRADITIONAL | IMPROVED METHOD |
|---|---|
| 1) Uneven Tension | 1) Uniform Tension on Weaver's Beam |
| 2) Cost of Production - USD 0.5 / kg | 2) Cost of Production - USD 0.16 / kg |
| 3) Avg Knots / Weaver's Beam : 100-150 knots / beam | 3) Avg Knots / Weaver's Beam : 10-15 knots / beam |
| 4) Efficiency on Weaving 70-80 % | 4) Efficiency on Weaving 90-96 % |

ACTUAL WORKING DATA

- Lowest Prod cost / kg upto approx USD 0.16/kg for Splitting-Beaming
- Lowest knots / Weaver's Beam : Avg 15 knots / beam
- Splitting yarn Production 33 +/- 7 Tons / month, Efficiency upto 80%
- Actual production speed achieved > 500mpm
- Space required approximately 100 sq ft / ton of production
- High production efficiency on High Speed WJ/AJ looms upto 96%
- Lowest price / performance ratio in comparable technology
- Process Waste < 1%