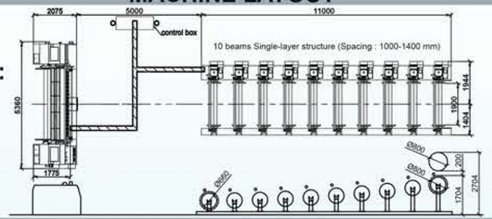
TECHNICAL SPECS OF ML- 416
SERVO BEAMING MACHINE/ ASSEMBLY WINDER

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

Width from : 2200 mm To 4000 mm



Available upto 16 stands

Available in DOUBLE DECK

ML- 416 PARTS

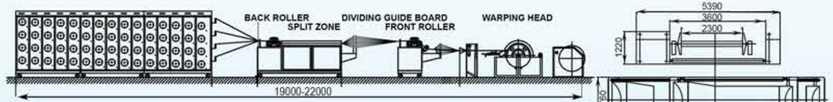
SCREEN
showing Uniform Tension from start to end of Beam

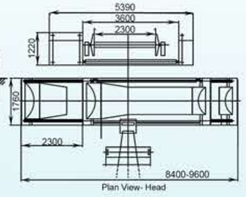
ML- 416

SECTIONAL SPLIT WARPING FOR WEAVING

ML-1000W

Production : 15T +/- 5 Tons
Space Reqd : 160 sq ft /Ton Production





Creel Position	: 128-136-144-160-168-208 bobbins (Optional)
Working Width	: 2300, 2800, 3200, 3800, 4000 mm (Optional)
Beam Diameter	: 800 mm / 1000 mm / 1200 mm (Optional)
Speed	: upto 500 mpm
Drum Diameter	:1026 mm
Cone length	: 1010 mm
Drum Motor	: 7.5 -11 kW
Beam Motor	: 11-15 kW

Machine produces about 15 +/-5 tons of 20 / 30 / 40 Mono yarn beams directly by splitting Polyester / Nylon Mother Yarn of 200-500D, saving on energy, wastage and labour cost compared to split yarn cops- sectional warping. Simultaneously, producing high quality beams with equal yarn tension over whole yarn sheet.The machine is ideally suited for operations with low monthly production volumes.

MILAN
TEXTILES
MACHINERY DIVISION

Add : "Global Point",P.No.:224/5C, Khatodara, Ring Rd, Surat-395002, Gujarat, INDIA
Ph : +91 9374720485
Web : www.milantextile.com
E-mail : machines.milan@gmail.com

MILAN
TEXTILES
MACHINERY DIVISION

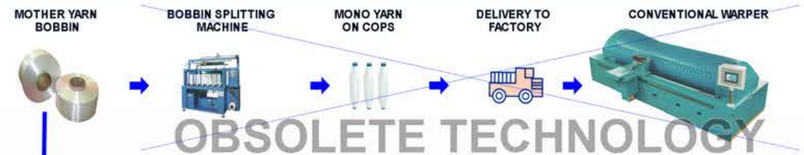
DIRECT SPLIT WARPING MACHINE
For WEAVING & KNITTING BEAMS

ML-758
For Weaving
Production :33 +/- 7 Tons
Space Reqd : 100 sq ft /Ton Production

ML-358
For Knitting
Production : 15 +/- 5 Tons

Make in INDIA

TRADITIONAL METHOD OF MANUFACTURING MONO YARN BEAMS



* Higher production cost & labor cost
* Excessive knots leading to poor beam & fabric quality
* Uneven yarn tension
*3-5% process waste

Avg 150 knots / Beam

Efficiency on Weaving 70-80 %

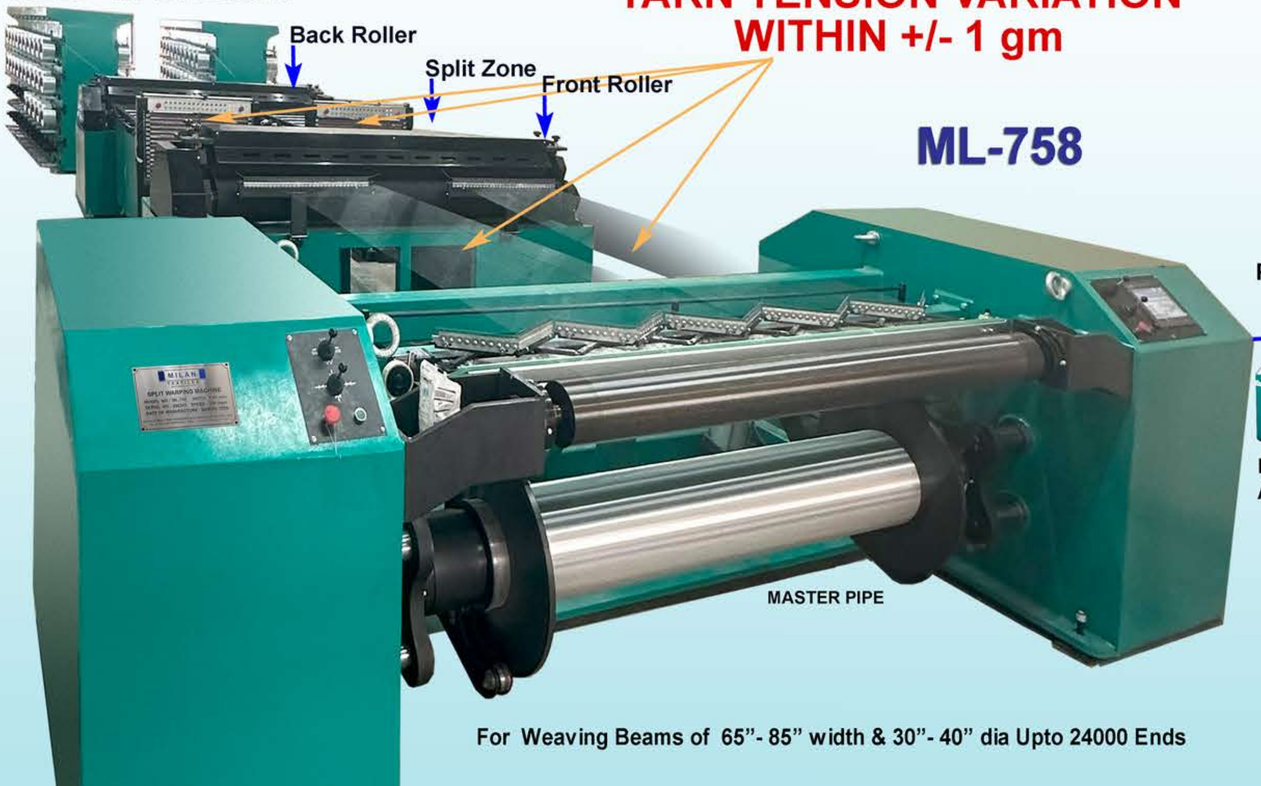
HIGH SPEED AIRJET -WATERJET WEAVING LOOMS

Avg 15 knots / Beam
Efficiency on High speed looms upto 90-96 %

NEW TECHNOLOGY

CREEL - 128-208 Bobbins

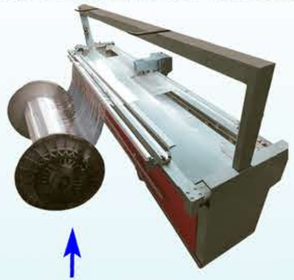
GUARANTEED YARN TENSION VARIATION WITHIN +/- 1 gm



ML-758

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

LEASING DEVICE- AUTO DRAWING MC



Process wastage <1%

BEAMING M/C / ASSEMBLY WINDER

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

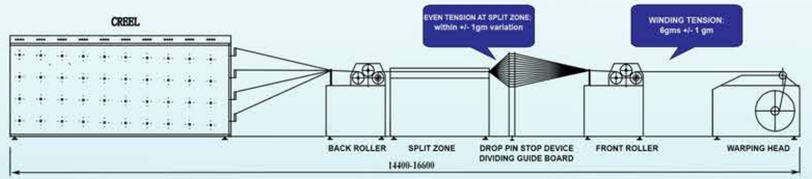
ML-358	ML-758
Speed ::Upto 700 mpm	Speed ::Upto 600 mpm
Creel Position :: 56 - 80	Creel Position :: 128-208
Braking Distance :: < 3 metres at speed of 500 mpm	Braking Distance :: < 4 metres at speed of 500 mpm
Rated Power :: <= 35 kw, Running Power load of 12-16 Amp	Rated Power:: <= 60 kw, Running Power load of 22-30 Amp
Beam Size :: 21"x 21"/ 21"x 30"	Beam Size :: 21"x 21"/ 21"x 30" TWIN, 21"x 42" 75"x 30"(for Master pipes)
Working Width :: 21"	Working Width :: 1800 / 2000 / 2200 / 2400 mm
Head Motor :: SIEMENS 7.5 - 11 kW	Head Motor :: SIEMENS 18.5 - 22 kW
Back Roller :: 3.5 - 4.5 kW	Back Roller :: 7.5 - 11 kW
Front Roller :: 3.5 - 4.5 kW	Front Roller :: 7.5 - 11 kW

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

OPTIONAL SUPPLIES

1. Warping head customised to beam size
2. Drop pin stop motion aided by infrared device
3. Laser stop device and Camera stop device
4. Auto Tension Control device
5. Beam Diameter : 660~800 mm
6. Leasing Device

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



COMPARISON :: TRADITIONAL vs IMPROVISED METHOD

TRADITIONAL	IMPROVISED 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

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