

**The Synthetic & Art Silk Mills' Research Association, Mumbai**  
**Facility Available for Product Development/ Incubation**

1. Name: Airjet Weaving Machine  
Make: Dornier, Germany  
Model: Aws 4/Jc

**Technical Specifications:**

- Nominal Width: 190 cm
- Maximum usable reed space: 188cm
- Minimum usable reed space: 110cm
- Speed: 900 RPM (Max.)
- Weft Feeding with accumulator: 4 colors
- Filling Insertion: with main & relay nozzles and profiled reed with Permanent Insertion Control and servo control
- Electronic let-off motion, electronic take-up motion
- Electronic Warp Stop Motion, Auto-pick finding, Auto Shed leveling
- Selvage - leno
- Shedding: Bonus Electronic Jacquard (ZJS2) with 2688 Hooks & Harness Frame for 10800 ends
- Reed working: 84/4

**Features:** The extremely wide range covers spun and filament yarns made of natural and man-made fibers as well as mixture of both. The fineness for spun yarns ranges from Nm 4 to 160 and from 10 to 2200 dtex for filament yarns. Suitable for curtains, automotive & furnishing fabrics



2. Name: Rigid Rapier weaving Machine  
Make: Dornier, Germany  
Germany Model: PTS 2/16

**Technical Specification:**

- Nominal width of machine – 190 cm
- Weft feeding with accumulator: 2 colors
- Yarn count range- 7 denier to 4500 tex
- Speed: 400 rpm
- Electronic let-off system
- Electronic take-up system
- Auto Pick finding & Auto shed leveling
- Shedding: Electronic STAUBLI dobby type 2670
- No. of shafts: 16
- Facility for leno weaving

**Suitable for weaving Technical/Standard textiles**



3. Name: Single Jersey Circular Knitting Machine  
Make: Wellmade Enterprises Co. Ltd., Taiwan  
Model: Ed Type Anti Clockwise (W/S-3.0f) E-(Ed)

**Technical Specifications:**

- Diameter: 26”
- Gauge: 24
- No. of Tracks (Knitting): 4
- No. of feeders : 78
- Creel: Tube Creel
- Type of feeder: positive IRO type with 4 tracks
- 3 tracks of knit cams, 2 tracks of Tuck cams & 2 tracks of miss cams.
- Individual Chrome coated (Anti Corrosive) cam box
- Automatic Lubricator System
- Yarn Feed storage Systems
- GROZ-Beckert Needles
- Kern- Lieber Sinkers

**Material: pure cotton, chemical fiber, real silk, blended yarn**



4. Name: Interlock Circular Knitting  
Make: Wellmade Enterprises Co. Ltd., Taiwan  
Model: Sk Type Interlock

**Technical Specifications:**

- Diameter: 26"
- Gauge: 16
- No. of Tracks (Knitting): Cylinder-4, Dial-2
- No. of feeders: 52
- Creel: Tube Creel
- Type of feeder: positive IRO type with 4 tracks
- 3 tracks of knit cams, 2 tracks of Tuck cams & 2 tracks of miss cams.
- Individual Chrome coated (Anti Corrosive) cam box
- Automatic Lubricator System
- Yarn Feed storage Systems
- GROZ-Beckert Needles
- Kern- Lieber Sinkers

**Material: pure cotton, chemical fiber, real silk, blended yarns**



**5. Name: Spinning Line (Mixing Bale opener to Ring Frame)**  
**Make: Laxmi Machine Works (LMW), Coimbatore**

Sr. No.	Description of the m/c	Specifications
1.	Mixing Bale OpenerLB3/2	1600mm working width, Upright Lattice with staggered steel spikes, with transport apron 4.5 m, with inverter drive for speed roller, with beater Production: 250 Kgs/Hour
2.	Carding Machine LC361	With single licker-in arrangement, 1000mm working width, built in Multi-level sensing, with rotary Auto Can changer for 40"x 48" Production: 20 Kgs/Hour
3.	Draw frame LD2	With 40"x48" delivery can, two Deliveries with sliver compression Unit, Delivery Speed: 250 mts/min
4.	Draw frame LRSB851	With single delivery system, power creel, automatic can changer, digital short-term auto-leveling system, with sliver Cutting device, Delivery speed: 450 mts/min
5.	Speed Frame LF1400A	36 spindles each with medium cradle, PK1500 3RDS cotton exhaust air into the department Spindle Speed: 650 RPM
6.	Ring Frame LR60/A	144 spindles per machine,6 rows creel,43mm cage, Emperor plus rings, with HS spindles inserts. Spindle Speed: 10000 RPM
** Average Production with 30 cc from the spinning line: 25-30 Kgs/Hour		



**6. Warp Knitting Set Up**

**6.1. Name:** RASCHEL Warp Knitting Machine  
**Make:** Karl Mayer, Germany  
**Model:** RS 4N F

**Technical Specifications:**

- Gauge: E6 (Original was E12 gauge, converted to E6 gauge for shade nets)
- Width: 170 inches (4318 mm)
- Speed: 750 R.P.M (Max.)
- Patterning capacity: 4 bar Max. (Only 2 available for operation)
- Presently 2 guide bars in operation  
 GB1: 1-0/0-1//  
 GB2: 1-0/3-4//
- Design: Pattern disc
- Available Pattern disc:

E 6		E12	
1.	0-0/4-4//	1.0-1/1-0//	
2.	1-0/2-3//	2.1-0/4-5//	
3.	1-0/0-1//	3.0-0/1-1/0-0/3-3/2-2/3-3//	
4.	1-0/2-3//	4.0-0/5-5//	
		5.2-2/1-1/2-2/0-0/1-1/0-0//	

- KAMCOS® (Karl Mayer Command System)
- Nominal voltage: 400 volts (+/- 10%), 3 phases / neutral conductor / grounding.

**Suitable for: Raschel warp knitting for the production of Shade nets made of HDPE tapes and/or monofilaments.**



**6.2. Name: Direct Warping Machine for Warp Knitting**

Make: Karl Mayer, Germany

Model: DS 21/30 DNC

**Technical Specifications:**

- Working width: 21 inches
- Flange Diameter: 30 inches
- Computer controlled functions
- Warping Speed: Steplessly from 100 up to 1000 m/min
- Back Winding Speed: 20 m/min approx.
- Maximum total yarn tension: 200 N
- Electro-pneumatically Beam Clamping as well as Beam loading & Doffing, Electrical Equipment: Asynchronous motor-8.2 Kw with frequency converter 3 phase, ground connected load 22 Kva, frequency – 50Hz
- Creel Type: GN-1-F
- Standard Creel for filament yarns
- Creel Capacity: 264, Steel frame construction with clamps, two manually movable frames for taking up the yarn guiding elements, the yarn tensioners and the yarn monitoring units.
- Maximum package diameter: 360mm

**Suitable for processing filament/mono yarns for (Raschel) RS4N, E6/E12 Warp knitting machine.**



### 6.3. Name: Tape Yarn Manufacturing Set Up

- Basic Features: Slitting of blown film into tape yarn to feed Raschel Warp Knitting Machine (integrated with warp knitting machine)
- Slitting Width: 1200mm per zone Feed rolls:2
- Spacer: 3mm
- Tape width: 2.3 mm
- No. of slitting units: 3(x2 sides with slitter, heater & stretching zone)

\* (the slitters are locally fabricated by M/s Rishi techtex Ltd., Mumbai )



**6.4. Name: Blown Film Manufacturing**  
Make: KABRA Extrusion Technik Ltd., Daman  
Model: KET 33040 /01

**Technical Specifications:**

- Basic features: Blown film manufacturing for HDPE/LDPE/PP.
- Film thickness: 10 to 100  $\mu$ .
- Output: Up to 60 Kgs/hr.
- Film width: Max 650mm.
- Extrusion Details: Screw diameter – 40mm  
L/D: 26:1  
Heating zones: 2  
Cooling zones: 1
- Film Die head details Type: bottom feed spiral  
Die size: 90mm max.  
Heating zones: 3
- Cooling system: Aerodynamic cooling.
- Type: Single lip low pressure and high air velocity.
- Vertical takeoff: Chrome plated Nip roller: 140mm dia x 710mm length  
Tower unit Rubber roller: 155mm dia x 700mm length
- Speed: up to 100m/min
- Bubble guides: 2
- Winder: Surface winder with wrinkle removing arrangement consisting Of one winding shaft driven by one drum
- Speed: up to 100 mts/min
- Width of the roll: 650 mm
- Roll diameter: 1000mm per 100 Kg



**7. Name: Circular Weaving Machine**

Make: Lohia Corp Limited

Model: Nova 8 HF

**Technical Specifications:**

- Working width (double flat): 100-160 cm.
- No. of shuttles: 08.
- Weft Insertion Rate: 600-700 picks/minute.
- Weft density: 30-52 tapes per 10 cm.
- No. of creel pegs: 1920.
- Warp Bobbin:
  - Internal diameter –35mm, Length of core – 218 mm.
  - Length of Traverse – 200mm, Max. Bobbin diameter – 130mm.
- Weft Bobbin:
  - Internal diameter – 35mm, Length of core – 218 mm.
  - Length of Traverse – 200mm, Max. Bobbin diameter – 115mm.
- Warp in-feed system: Positive/Electronically Controlled.
- Warp break detecting system: Electronically Controlled.
- Weft break detecting system: Electronically Controlled.
- Weft pre-exhaust stop system: Electronically Controlled.
- Fabric Haul-off: Electronically Controlled.
- Grams/Square Meter of fabric required:100-250
- Circular reed, eight shuttle assembly.
- Three manual control systems (stop, inching, start).
- Fabric Winder: Surface winder with facility to adjust fabric tension.
- Reinforcement fabric: Facility to reinforce the fabric across the circumference in warp way.



8. Name: Circular Weaving Machine  
Make: Lohia Starlinger  
Model: LENO- 4

**Technical Specifications:**

- Working width (double flat): 48 – 75 cm
- No. of shuttles: 4
- Weft Insertion Rate: 360 picks/minute
- Weft density: 10 – 37.5 per 10 cm
- No. of creel pegs: 576
- Warp Bobbin-  
Internal diameter – 35mm, Length of core – 218 mm,  
Length of Traverse – 200mm, Max. Bobbin diameter – 130mm
- Weft Bobbin:  
Internal diameter – 35mm, Length of core – 218 mm  
Length of Traverse – 200mm, Max. Bobbin diameter – 115mm
- Warp in feed system, Central drive system
- Circular reed, Four shuttle assembly
- Warp break detecting system, Weft break detecting system
- Weft pre-exhaust stop system, Three manual control systems (stop, inching, start)
- One standard width surface fabric winder, Variable speed drive for main drive
- Micro Processor based control

**Use: Packaging for vegetables (leno sacks)**



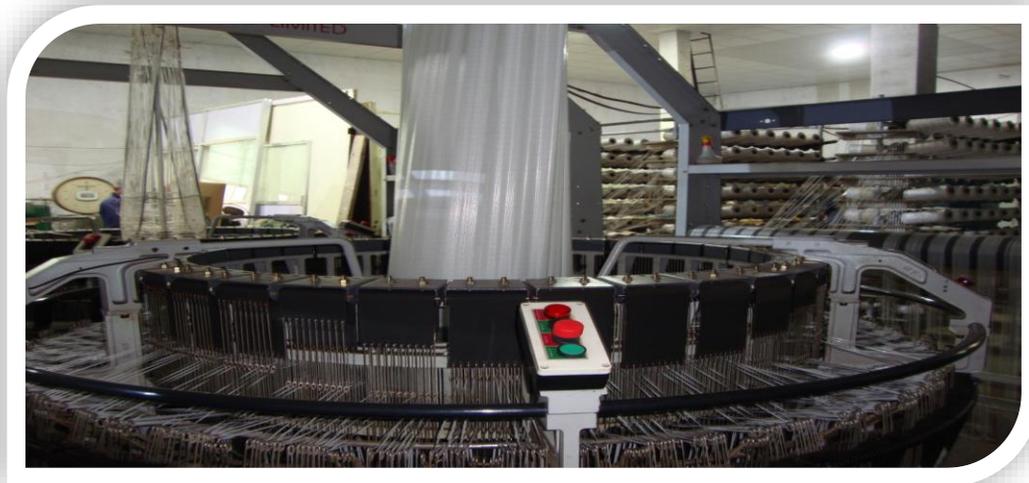
**9. Name: Circular Weaving Machine**

Make: Lohia Starlinger

Model: LSL-6

**Technical Specifications:**

- Working width (double flat) : 48 – 75 cms
- No. of shuttles : 6
- Weft Insertion Rate : 900 picks/minute
- Weft density : 20 – 75 per 10 cms
- No. of creel pegs : 720
- Warp Bobbin-
  - Internal diameter – 35mm, Length of core – 218 mm
  - Length of Traverse – 200mm, Max. Bobbin diameter – 130mm
- Weft Bobbin:
  - Internal diameter – 35mm, Length of core – 218 mm
  - Length of Traverse – 200mm, Max. Bobbin diameter – 115mm
- Warp in-feed system , Central drive system
- Circular reed , Six shuttle assembly
- Warp break detecting system , Weft break detecting system
- Weft pre-exhaust stop system ,Three manual control systems (stop , inching , start).One standard width surface fabric winder , Variable speed drive for main drive. Micro Processor based control

**Uses: Packaging – Grains/cereals/sugar etc.**

**10.Name:** Two for one Twister [TFO] for High Tenacity Technical / Industrial Yarns.  
**Make-** M/s Weavetech Engineers Ltd., Surat, Gujarat.  
**Model:** UT-2i.

**Technical Specifications:**

- No. of Heads: 4
- Spindle Gauge: 830mm
- Spindle Size: 300mm
- Yarn Range: 300-12000 Denier
- Twist Range: 50-300 TPM
- No. of ply: Up to 6
- Spindle Speed: 5000-9000 R.P.M
- Feed Package type: Cheese
- Spindle Covers: For separating inner and outer yarn balloons
- Take up Speed: 300-400 mts/min



**11.Name:** Assembly winder for High Tenacity multiplies Technical / Industrial Yarns.  
**Make-** M/s Weavetech Engineers Ltd., Surat, Gujarat.  
**Model:** Unwind, UW-1

**Technical Specifications:**

- No. of Heads: 1.
- No. of ply: Up to 6.
- Yarn Range: 300 - 12000 Denier Filament Yarn.
- Type of winding: Precision Winding.
- Positive yarn feed: Yes, uniform tension all plies.
- Yarn Break Stop System: Yes, For each ply.
- Doff length: Predetermined Auto Stop.
- Package Dimension: Max. OD- 320mm & Min. OD-94mm.
- Top Beam: 800/1000/1200mm.
- Anti-patterning: Yes.
- Traverse stroke: 250/200mm.
- Crossing angle: Programmable.
- Take up delivery: Up to 600 mts/min.
- Head Control: Separately Individual.



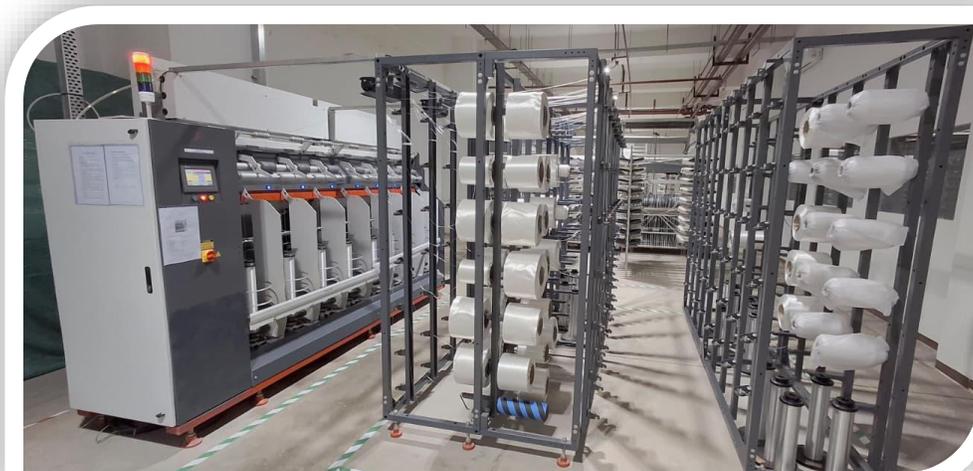
**12.Name: Ring Twister for High Tenacity Synthetic Multifilament Yarns.**

Make- Meera Industries, Surat, Gujarat.

Model: Customized.

**Technical Specifications:**

- Yarn Type: Twisting of High Tenacity Synthetic Multifilament Flat (zero twist) Yarns like Polyester, Polypropylene Nylon etc.
- No. of ply: 1to20.
- Total No. of Heads: 8.
- Ring Size Height: 9.5mm (4 heads)
- Ring Size Height: 38.1/38 4mm (heads)
- Ring Diameter: 250mm
- Denier Range: 500-50000
- Creel: 20 ply/head
- Spindle Pitch: 375mm
- Twist Range (TPM): 10-1000
- Twist Type: S&Z
- Single Yarn twisting: Yes
- Central Lubrication System: Yes
- Individual motor/head control: Yes
- Pneumatic Yarn Feeding: Yes
- Ply Sensor: Yes
- Automatic Spindle Stop Motion (Yarn break & bobbin complete): Yes
- Take up package type: Cop/bobbin/ Bottle-Flexibility
- Take up package winding type: Compound, Combination, Wrap, Wandering Bobbin, Bottle Winding-Flexibility



**13.Name:** Single Step S/Z Twisting Machines (TPRS Twister - Twisting Plying and Reverse Twisting System for High Tenacity Synthetic Multifilament Yarns.)  
**Make-** Meera Industries, Surat, Gujarat.  
**Model:** Customized.

**Technical Specifications:**

- Denier/Count range: 500-50000
- TPM Range: 10-1000
- Frame: Single Deck Single Side
- No of Pos / Section / Pitch: 2 Pos/ 1 Sec
- Voltage: 440 V 3 Phase |50 Hz
- Supply Tube Type:
- Supply Tube Size (id x od x Length + Full Bobbin OD): 94 x110 x300 x 280 mm
- Take-up Tube Type Cylindrical/ Taper/ Both/ Flanged: Cylindrical
- Take-up Tube Size: Metallic Parallel Tube (ID- 35mm x L- 218mm) Check Sample
- TPRS Ply 3/4 Ply Only For TPRS-50: 3 Ply & 4 Ply
- Take-up Drum Driving Individual Motor Driving(Y/N): Yes | Individual Spindle Motor
- Spindle Drive Tangential Tape Drive / Individual Motor: Individual Spindle Motor Drive
- Winding Type Random or Precision Winding: Precision
- Traverse Length: 8" (200 MM)
- Oil Device: Yes
- Flyer Assembly: Yes
- Air Threading: Yes



**14.Name:** Precision Winder for High Tenacity Synthetic Multifilament Yarns  
Make- Meera Industries, Surat, Gujarat.  
Model: Customized

**Technical Specifications:**

- Rewinding of Multiply High Tenacity Synthetic Multifilament Yarns like Polyester, Polypropylene, Nylon etc. prepared/twisted on the Ring Twister
- Denier/ Count Range: 500-50000
- Frame: Single Deck Single Side
- No of Pos / Section /Pitch: 9 Pos (6 Pos Metallic Tube + 3 Pos Double Flange Bobbin)
- Supply Tube Type Supply: From Ring Twister Flange Bobbin
- Supply Tube Size ID x OD x Length + Full Bobbin OD: Flange 227 x 450 L 34.6 ID
- Take up package -1: Metallic Parallel Tube (ID-35mm x L-218mm)
- Take up package-2: Flange-115mm, ID-30mm, L-218mm.
- Flexible Traversing (6"8"10"): Yes
- Traverse Length: 200mm/8 inches (facility of changing)
- Individual motor/head control: Yes
- Yarn Break Detection: Yes
- Yarn Oiling System: Yes



**15.Name: Single End Sample Warping Machine**  
Make- Rabatex, Ahmadabad, Gujarat  
Model: RI M 601

**Technical Specifications:**

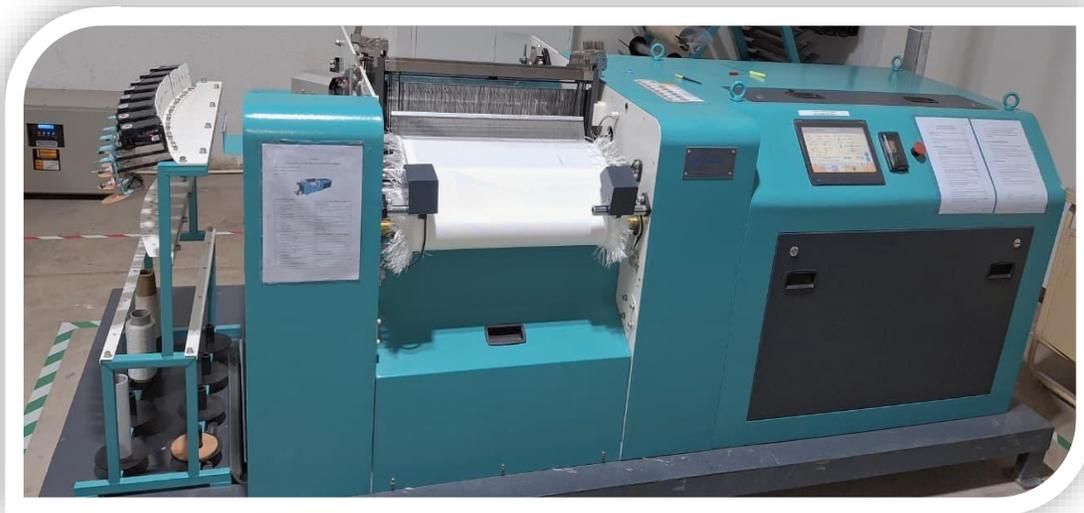
- Suitable for Spun and filament yarns (Natural, blends and Synthetic yarns).
- Drum Circumference: 2200-2500 mm.
- Warping width: 500 mm (20 inches).
- Yarn Range: 40-1000 Deniers.
- Warping length: 5 to 7.5 meters.
- Warping Speed: 200-300 meters per minute.
- Beaming Speed: 8-10 meters per minute.
- Number of feeders: 8
- Maximum Beam Pipe Flange Diameter: 120 mm.
- Maximum Beam Barrel Diameter: 60 mm.
- Pattern Selection: Automatic.
- Beam Tensioning: Pneumatic Type.
- Creel Type: Stationary with stop motion.
- Belt Traverse: Servo Type
- Yarn Selector: Pneumatic Controlled
- Leasing Facility: Pneumatic controlled
- Easy operation with HM (Human Machine Interface): Yes
- Beaming Device: Integrated with main machine



**16.Name:** Sample Weaving Machine  
Make- Rabatex, Ahmadabad, Gujarat.  
Model: RI 9001

**Technical Specifications:**

- Yam Type: Weaving of warp yams prepared on single end warping machine
- Working width: 500 mm (20 inches)
- Machine Speed: 40-45 PPM
- Beat Up: Servo Motor controlled
- Number of shafts: 20
- Shedding System: Electronically Controlled pneumatic system
- Let off: Electronically controlled
- Take up: Electronically Controlled
- Weft Selector: 8 number with electronic control (Motor Driven)
- Weft Insertion: Rapier Type
- Weft Break Sensor: Yes
- Weft Creel: Stationary type integrated with the main machine
- Weft Tension Assembly: Yes
- Catch Cord Assembly: Yes
- Yarn Cutter: Yes
- Auxiliary selvage cutter: Yes
- Facility of full width Temples: Yes
- Warp tension control: Electronically controlled
- Weft Density: Electronically controlled
- Variable Density Minimum 4 No's: Yes
- Pick Density: 10- 300 PPI
- Electronic Fault Diagnosis Display: Yes
- Grams per Square meter: 300-350



17. Name: Single End Coating/Sizing Machine  
Model: RI 8001  
Make- Rabatex, Ahmadabad, Gujarat.

**Technical Specifications:**

- Yarn Type: Suitable for Spun and filament yarns (Natural, blends and Synthetic yarns).
- No. of Drums: Total 2.
- Machine Speed: 200-250 Meters per minute.
- Temperature: Up to 70C.
- Drying Type: Electric.
- Size Squeezing System: Sponge Type.
- Winding Type: Suitable for both spun and filament yarns.
- Size Tank with circulating pump (For Common sizes): Yes.
- Separate Size Tray for each winding position: Yes.
- Size Tank Temperature control: Up to 65° C.



**18.Name:** Needle Punch Non-woven machine with lap drafter & pre- needling  
**Model:** Laboratory Model  
**Make-** Dilo, Germany

**Technical Specifications:**

- Maximum working Width: 600 mm
- Width of the needle board: 200mm
- Number of needles: 2 x 45/1 cm of working width (pre-needler)  
: 4 x 45/ 1 cm of working width (Finisher Needler)
- Needle bar stroke: 60mm
- Maximum stroke frequency: 1200 rpm.
- GSM: 150 to 800
- Fiber Length: 60 mm to 80mm
- Fiber Denier: 3 den to 15 den

**Suitable for processing both Synthetic fiber & blends**



**19.Name: Multi Head Computerized Embroidery Machine****Make: Tajima, Japan****Model: TfmX-Ii C 604****Technical Specifications:**

- No. of Heads: 4
- No. of Needles: 9
- Tajima Standard Frame (TFA 2:475x310-16pcs)
- Working Area: 450 X 360 mm
- BFE Border Frame with clips
- Speed: Max. 1200 RPM
- Motor: AC Motor

**Suitable for all types of embroidery work**

**20. Name: Continuous Dryer & coating machine.**

Make: Mathis, Switzerland.

Model: KTF-S-18811

**Technical Specifications:**

- Coating Method: Doctor-knife coating (doctor blade) + subsequent drying.
- Roller width: 500 mm
- Working Width: 450 mm
- Material Speed (Web Speed) 0.1 – 2 m/min.
- Dwell Time (Residence Time)- Roll-to-roll: 20 – 420 s
- Circulation Air Speed: Up to ~6 m/s.
- Circulation Air Capacity: Up to ~1,000 m<sup>3</sup>/h.
- Exhaust Air Capacity : Up to ~400 m<sup>3</sup>/h.
- Temperature Range: Up to ~250 °C.
- Nozzle Field / Drying Length: Nozzle field length (dryer) is ~800 mm.
- Heating Capacity: 9 kW
- Winding / Roll Diameter (Max): Max winding (re-wound roll) diameter ~ 500 mm.
- Applications: Textile industry, pharmaceutical industry, foil and paper, R&D labs, etc.
- Modular Options / Add-ons: Infrared (IR) pre-dryer, Double-field (two-zone) hot-air dryer for different temperature zones, Laminating device: - Hot-melt coating
- Control / Data Monitoring: -Parameters like temperature, web speed, fan speed, etc., can be monitored and documented.



**List of Major Laboratory Equipment's Currently being Used to Provide Services to Industry**

**Analytical Testing Equipment**

SI. NO	Equipment	
1		Gas Chromatography-mass spectrometry (GC-MS)
2		High Performance Liquid Chromatography (HPLC)
3		High Performance Thin Layer Chromatography (HPTLC)
4		UV-VIS Spectrometer
6		Ultrasonicator
7		STA
8		FTIR
9		Particle Size Analyzer
10		CHNS-O Analyser

## Mechanical Testing Equipments

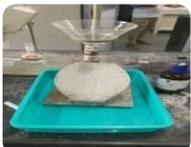
Sr. No	Equipment	
1.		Vibroskop 400
2.		Yarn Evenness Tester
3.		Twist Tester motorized (SASMIRA developed)
4.		Crease Recovery Tester
5.		Thickness Tester (Digital)
6.		Lea Tester
7.		Bursting Strength Tester
8.		Wrap Reel (SASMIRA developed)
9.		Thermal Conductivity Tester (SASMIRA developed)
10.		Pilling tester (SASMIRA developed)

Sr. No	Equipment	
11.		Abrasion Tester (Martindale)
12.		Abrasion Tester (Taber)
13.		Environment Chamber
14.		Universal Tensile Machine
15.		Universal Tensile Machine & Index/CBR Puncture
16.		A.O.S.
17.		Crimp Tester (SASMIRA developed)
18.		Photo Microscope
19.		Drape Meter (SASMIRA developed)
20.		Crimp Rigidity Tester (SASMIRA developed)

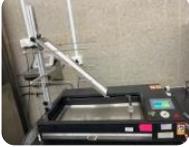
Sr. No	Equipment	
21.		Tear Tester
22.		Water Permeability Tester
23.		Cone Drop Tester
24.		Flexing Tester
25.		Water Vapour Permeability Tester
26.		Abrasion Tester
27.		De-Mattia Flexing Tester
28.		Star Creep Tester

Sr. No	Equipment	
29.		Accelerated Creep Tester (SASMIRA developed)
30.		UPF Tester
31.		Air permeability Tester
32.		Weatherometer
33.		Thermal Conductivity Tester
34.		Shade-o-meter (SASMIRA developed)
35.		Wind Blockage Tester (SASMIRA developed)
36.		Thermoregulatory Tester (SASMIRA developed)
37.		Hazemeter

## Chemical Testing Equipments

Sr. No	Equipment	
1.		Durability Tester
2.		Wascator
3.		Hot Air Oven
4.		Stability Chamber
5.		Muffle Furnace
6.		Spray Tester
7.		Perspirometer (SASMIRA developed)
8.		Perspirometer (SASMIRA developed)
9.		Launder-O-Meter (SASMIRA developed)
10.		Crock meter (SASMIRA developed)

Sr. No	Equipment	
11.		Sublimation Fastness tester
12.		Bundessmann Tester
13.		Inclined Flammability Tester (45 deg)
14.		Hydrostatic Pressure Head Tester (SASMIRA developed)
15.		Spectrophotometer
16.		pH meter
17.		Light Fastness Tester (Q-Sun HBS)
18.		Light Fastness Tester (Q-Sun 3H)
19.		Light Fastness Tester Xeno Test 220
20.		Limiting Oxygen Test Apparatus

Sr. No	Equipment	
21.		Polarised Microscope
22.		Toy Flammability Tester
23.		Vertical Flammability Tester
24.		Autoflammability Tester
25.		Motorised Drum Dryer with Timer
26.		Melting point Apparatus
27.		Static Honestometer
28.		IR Dyeing Machine
29.		Wrist Shaker

30.		Padding Mangle
31.		Soxhlet Apparatus
32.		Drying and Curing Chamber