

**BULKING
& HEAT
SETTING
MACHINE FOR
CARPET
YARN**

Lowest Energy And
Steam Consumption

MEERA BAH

Continuous Bulking & Heat Setting Machine for Carpet Yarn
Polyester | PP | PA | PET | Acrylic | Wool

For Supersoft High Bulk Polyester Yarn
For Carpets & Bathmats



High Bulk Yarn Manufacturing Process



Dope Dyed Textured Yarn

Cabling

Bulking & Heat Setting

Supersoft High Bulk
Polyester Yarn

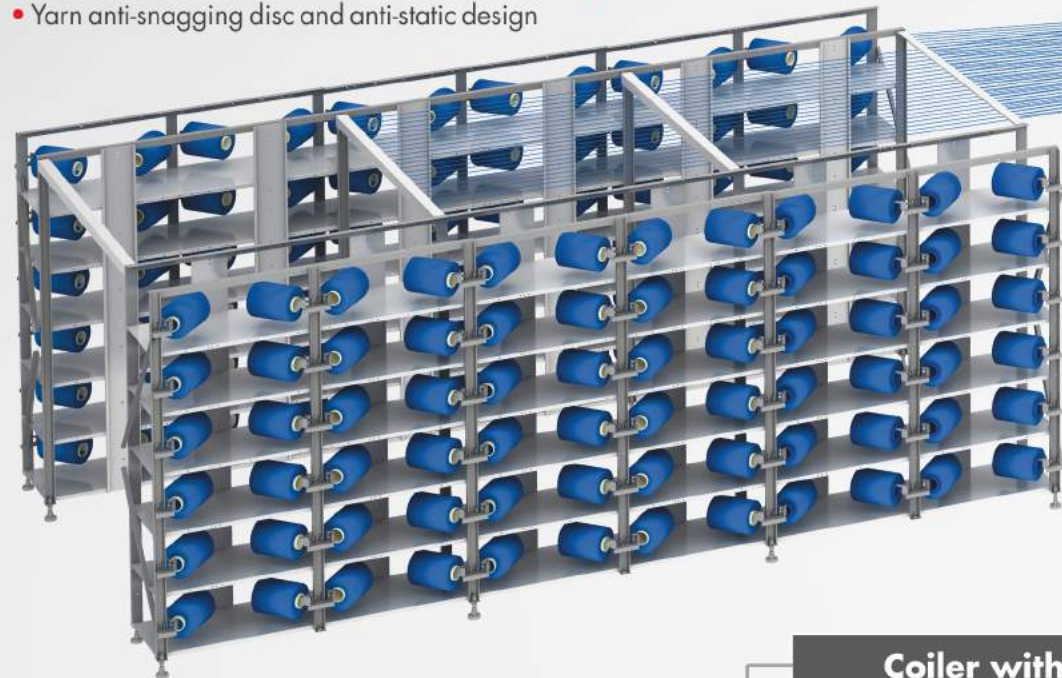


BSE
LISTED COMPANY

MEERATM
INDUSTRIES LIMITED

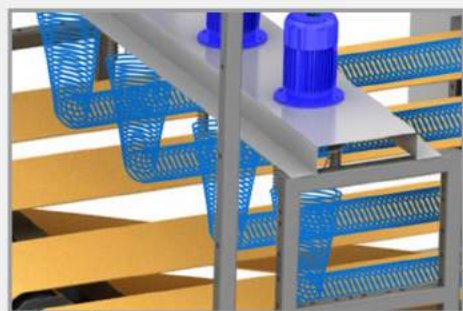
Supply Creel

- Supply creel with two package stand for transfer tail with easy threading
- Tension control and uniform yarn path
- 350 mm distance between yarn package
- Locking system for mandrels ensuring safe bobbin positioning
- Yarn breakage detection with thread sensor for quick stop when the yarn breaks
- Yarn anti-snagging disc and anti-static design



Coiler with Overfeed

- Coiling head to lay yarn on conveyor leading to climate chamber
- 4 coiling heads handling 16 ends each
- Overfeed device to feed all 16 ends with uniform laying on conveyor belt



Conveyor Belt

- Teflon coated yarn transport belts driven by PLC to vary dwell time ranging from 40 sec to 6 min
- Numbers of channels - 4 or 6
- Protection against yarn jam through sensors



Pre Steamer & Climate Chamber

- Pre steamer for extra bulky and soft yarn
- Special perforations in steam channel enable uniform perfusion of yarn
- Heat setting chamber having temperature as well as humidity control to set requisite yarn bulk and heat setting of yarn
- Range of temperature for heat setting between 110-200 °c
- Temperature monitoring on each heat setting channel
- Lowest energy and steam consumption compared to peers

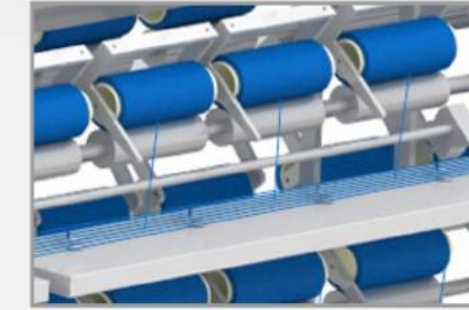
Normalization & Splitting Zone

- Optimal yarn cooling and normalizing prior to splitting of each yarn
- Yarn bundle of 16 ends get separated after cooling for final winding of yarn in individual package ready for use
- Yarn tension is achieved with the help of the tension regulator resulting in improved yarn separation over rollers
- Smooth and continuous contact pressure



Take Up Winder

- Take up winder to build final package of yarn duly bulked and heat setted ready for tufting carpet up to capacity of 4 kg
- Yarn speed up to 400 mpm
- Accurate bobbin build-up
- Guiding rollers on every change of yarn direction for avoiding friction and stress free smooth winding of yarn



LOWEST
PER KG
OPERATIONAL
& CAPITAL
COST

Technical Data

Maximum Ends on Creel	64	Material	PP, PA, PET, Acrylic & Wool
Maximum Yarn Speed	400	Overall length (mm)	35300
Maximum Production (Tons/Day)	6-7	Overall width (mm)	3400
Maximum Channel	6	Height of the machine (mm)	2100
Take up winder maximum yarn speed (m/min)	400	Range of Denier/count	1000 to 10000 Denier
Electricity Consumption (KWh)	40	Connected Load	60 Kw
No of Operator / Shift	3	Controls	Touch Panel for setting Yarn Speed, Temperature and Cycle time with length counter, Production rate etc.
Steam Consumption (kg/h)	30		

Feed Package At Supply Creel

Tube length (mm)	290
Min. inside diameter of tube(mm)	45
Max. Outside diameter of feed package(mm)	250
Net yarn weight (Kgs)	10

Net weight depending on yarn, and package density

Process Yarn At Final Winder

Parallel Cheese Package with Tube length (mm)	290
Min. inside diameter of tube	45
Max. Outside diameter of take up package	250

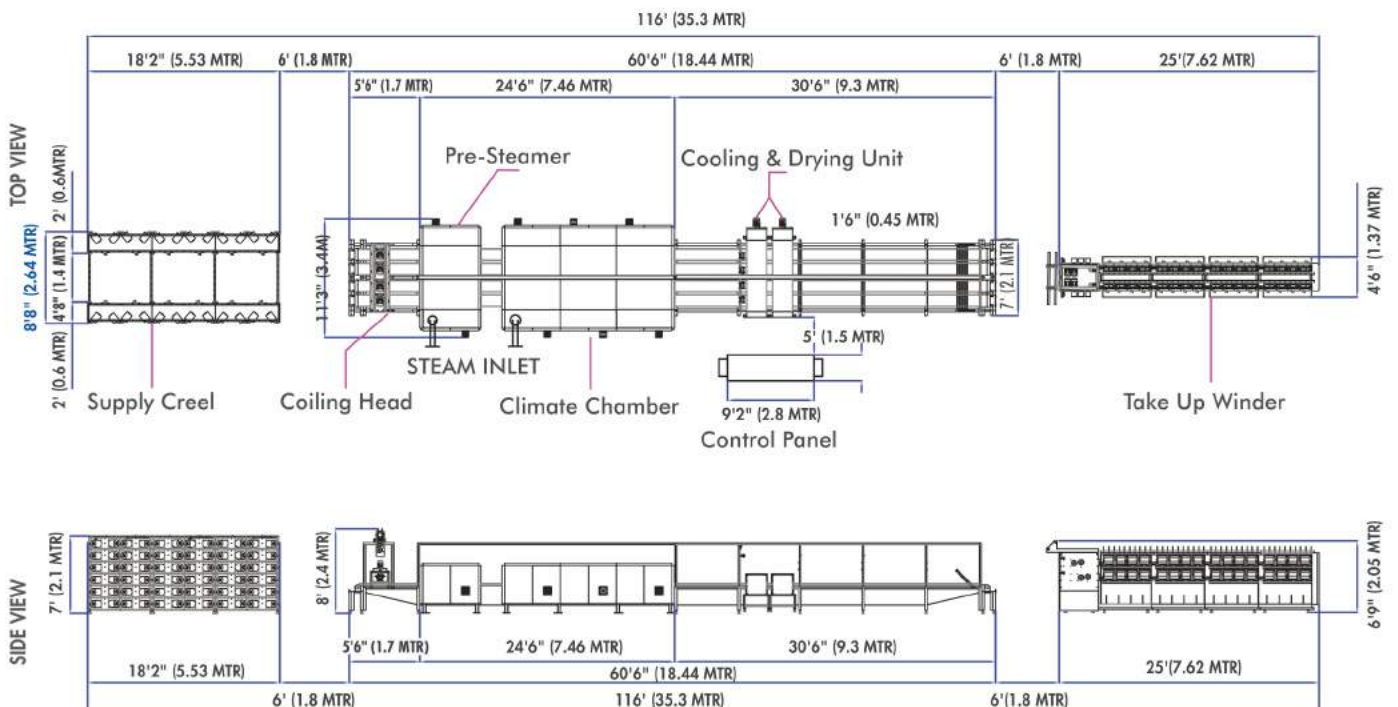
Approx Prod. Per Day for Different Yarn

Product	Denier	Production Per Day
1200/2	2400	4.0 Tons
1400/2	2800	5.0 Tons
300/2/6	3600	5.5 Tons
180/2/11	3960	5.5 Tons
2400/2	4800	5.0 Tons
3600/2	7200	7.0 Tons
4200/2	8400	7.5 Tons

* These are approximate values which can vary depending on conditions. Production data depending on denier, twist, filaments, yarn quality, yarn speed, belt density, etc.

FLOOR PLAN

LENGTH = 116' (35.3 MTR) | WIDTH = 11' 3" (3.4 MTR) | MAXIMUM HEIGHT = 8' (2.4 MTR)



Meera Industries Limited is a renowned name in the world of textile twisting technology & machineries. Through intensive research and continuous innovation, Meera Industries has pioneered in manufacturing world class Yarn Twisting, Cabling and Continuous Heat Setting Machines.

Our Constant quest for innovation through research is not limited. We design, develop & manufacture high-tech textile machinery offering Intelligent Solutions, Operational Reliability, Quality and Economic Efficiency.

Besides, Energy Conservation, Better Productivity and Ease of Use are the goals in mind when we design machines.



AWARDS

- Research & Development Award
- Research & Development (Innovation) Award
- Special Export Award

CERTIFICATES



MEMBERSHIP



● Plants

● Countries Exported

YARN TWISTING
MACHINES FOR HUNDREDS OF APPLICATIONS

YARNS FOR ROPES & NETS AUTOMOTIVE PP FIBRILLATED YARN
BULLETPROOF JACKET ROPES YARNS FOR ARBAGS ROPES PARACHUTE FABRICS
TECHNICAL TEXTILE PARACHUTE FABRICS YARNS FOR ROPES & NETS ROPE
COATS COATS COATS COATS COATS COATS COATS COATS COATS COATS
GLASS YARN ROPE
BULLETPROOF JACKET ROPES YARNS FOR ARBAGS ROPES PARACHUTE FABRICS
COATS COATS COATS COATS COATS COATS COATS COATS COATS COATS
CORDS FISHNET
BULLETPROOF JACKET ROPES YARNS FOR ARBAGS ROPES PARACHUTE FABRICS
COATS COATS COATS COATS COATS COATS COATS COATS COATS COATS
GEOTEXTILE TWISTED CORDS ROPE
COATS FISHNET ROPES BULLETPROOF JACKET ROPES TECHNICAL TEXTILE
ROPE PP YARN ROPES BULLETPROOF JACKET ROPES TECHNICAL TEXTILE
COATS PP YARN COATS TECHNICAL TEXTILE YARNS FOR ROPES & NETS
PP BCF YARN COATS TECHNICAL TEXTILE YARNS FOR ROPES & NETS
PP YARN ROPES COATS BULLETPROOF JACKET EMBROIDERY YARN NYLON BCF
TEA BAGS YARNS COATS COATS COATS COATS COATS COATS COATS COATS
COATS CARBON FIBER
INDUSTRIAL THREADS HIGH TENACITY THREAD YARNS FOR ROPES & NETS
CORD TIRE HIGH TENACITY THREAD CARBON FIBER FISHNET
PP COATS YARN ROPES COATS COATS COATS COATS COATS COATS COATS
YARN ROPES COATS COATS COATS COATS COATS COATS COATS COATS
BATHMATS
EMBROIDERY YARN ROPES COATS ROPE COATS COATS COATS COATS COATS
COATS COATS COATS COATS COATS COATS COATS COATS COATS COATS
MEDICAL SEWING THREAD
COATS COATS COATS COATS COATS COATS COATS COATS COATS COATS
FISHNET ARTIFICIAL GRASS
COATS COATS COATS COATS COATS COATS COATS COATS COATS COATS
AUTOMOTIVE



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