

MEERA

SPUN TWISTER

Two For One Twister For
Staple / Spun Yarn



INNOVATIVE AUTHENTIC FUTURISTIC

SPUN TWISTER

Two For One
Twister For Staple
Spun Yarn

INNOVATIVE SPINDLE DESIGN

The main objective of the innovative spindle design is to optimize yarn quality, productivity and energy consumptions. Below are the main Spindle feature.

- Lowest Spindle Height is adopted to greatly reduce the balloon size and right selection of bearing, good engineering design help low energy consumption.
- Low (Twist per inch) CV%
- Life lubricated top bearings, with special dustproof protection.
- Bigger whorl diameter to reduce belt load on the spindle bearings and twist evenness.
- Yarn tensioning with interchangeable spring pistons for different counts and materials.
- Tension can be adjusted with 8 different positions.

ENERGY SAVING SPINDLES

Spindles are the most important part of a any twisting Machine. Quality and Energy consumptions are determined in this area. Below Features are the part of our energy saving family of spindles.

- Spindle and Reserve Disk with High Grade wear Resistance surface finish for smooth yarn path.
- Spindle Vibration optimized with the help of advance pot mounting system.
- Variety of Spindle options to choose for various count and package size.
- Air Threading (Optional) Air threading makes a significant contribution in reducing operating time.

SPUN / STAPLE YARN TWISTER

Meera has been the leading manufacturer of Spun / Staple Twister machines for many years. We are the pioneers of double deck spun twisting machines designed specially for productivity and operating enhancement. Our twister has been used by manufacturers of woven and knitted fabrics in India and abroad for premium quality Products. There are several advantages that makes Meera Spun / Staple Yarn Twister at par with International Standards.

ADVANTAGES

- Suitable for Cotton, Wool, Viscose, Acrylic, Blended Yarns like PV, PC etc.
- Spindle Speed upto 14000 rpm.
- Tangential Belt System.
- Fully Inverter Controlled Drive.
- Oil-free, low maintenance construction.
- Tested Sections with Modular packing reduce setup times.
- High Quality and high economy yarns for Woven, Knitted and Sewing Thread.
- Lowest Energy Consumption.



Single Deck

Model - S-120, S-140, S-165, S-260

Count Range - 2/100 - 2/2

Construction - 2/60, 2/50, 2/40, 2/30, 2/20, 3/60, 3/50 etc.

Double Deck

Model - S-120 D, S-110 D

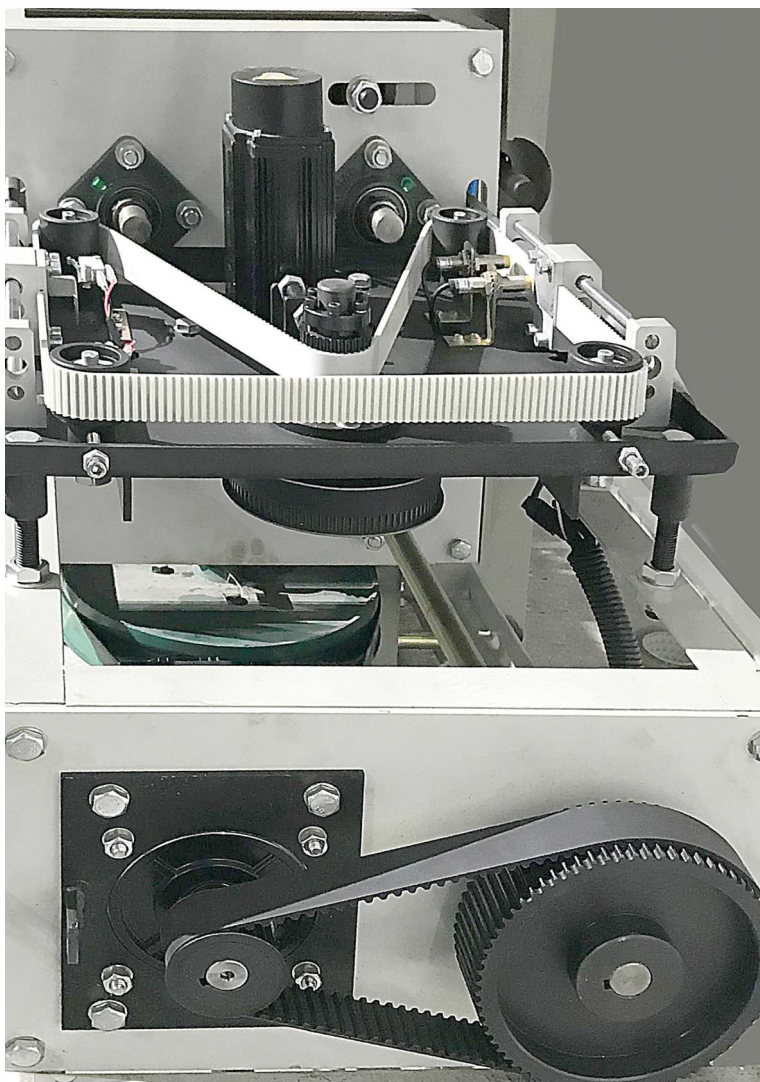
Count Range - 2/100 - 2/20

Construction - 2/60, 2/50, 2/40, 2/30, 2/20 etc.



What is Two For One Twisting ?

One spindle rotation gives the yarn two twistings. Two-for-one twisting combines two or more single yarns into one twisted yarn.. The yarns receive their first twist between the yarn brake and the exit of the spindle rotor. The second twist is received in the yarn balloon between the spindle rotor and the yarn balloon guide



SERVO DRIVE CONCEPT WITH ADVANCE FEATURE

- Each machine have up to 208 spindles driven by just one common tangential belt.
- Advanced friction reduction concepts during machine start up and Stop for perfect levels of twist in the yarn.
- Spindle speed, Twist per Meter, Take-Up package shapes can all be adjusted through Servo Driven Control Panel. It is useful to customers who may need to change their machine setting frequently.
 1. Spindle Speed
 2. Twist Per Meter (TPM)
 3. Take-up Package build
 4. Traverse Length
 5. Traverse Crossing angles
- Electronically controlled anti-patterning device



Why Meera Staple Fiber Twister ?

ENERGY

- Servo Driven Technology.
- Energy saving family of spindles.
- Balloon Limiter.

QUALITY

- Servo traversing mechanism with Traverse variation.
- New take-up geometry.
- Flexible package building.
- Package lift off feature.
- Cradle load relief system.

HANDLING

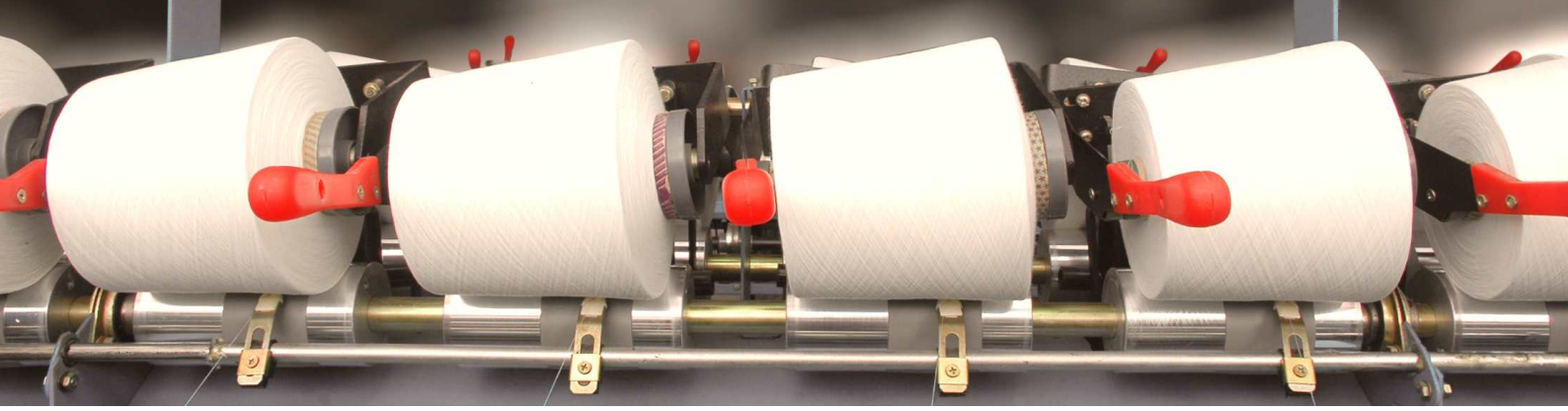
- Control Panel with TPM, RPM etc.
- Over head Package creels.
- Automatic yarn stop feeler lock ?
- Air Threading (Optional).

TAKE-UP PACKAGES

6", 7, 8" Cylindrical and conical cross wound Package can be produced in formats of 3°30', 4°20' and 5°57' up to a diameter of 300 mm.

WAXING DEVICE

Thanks to magnetic compensation waxing device grants a constant wax distribution over the yarn.



CRADLE

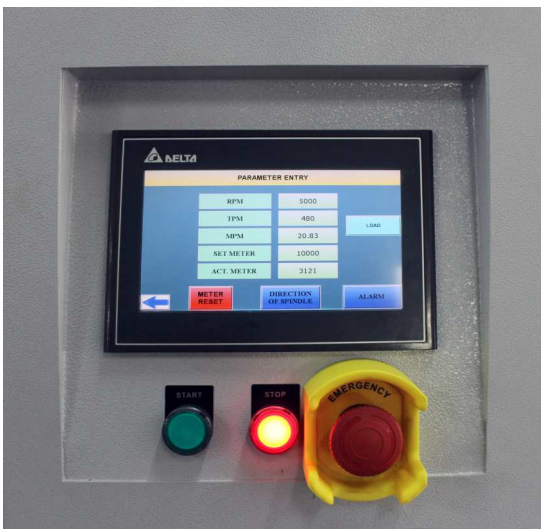
Heavy Design Cradle produces take-up packages up to a maximum diameter of 300 mm. Packages produced are well built with nice shape and feel.

PACKAGE LIFT-O

When the take-up package is finished or there is a yarn breakage the take-up package is lifted off the drum roller to avoid unnecessary rubbing of the yarn

CRADLE LOAD RELIEF SYSTEM (Optional)

This feature is mainly used to produce soft-edge packages suitable for dyeing



TOUCH PANEL

Touch Panel for Easy to adjust parameters like

1. Spindle Speed
2. Twist levels, twist direction and crossing angles
3. Machine automatic stop when yarn length and/or running times have been reached (Optional)
4. Parameters for take-up package shape and package density
5. Yarn material details

The production parameters entered can be stored in an Article library and called up whenever required. Advance Reporting available like, delivery speed, operating hours, Spindle wise breakage report, production, operator efficiency etc. The computer is equipped with a USB Connection.



BUNCHING FOR TRANSFER TAIL (OPTIONAL)

Bunching device facilitates the winding of transfer tail. The grooves on the bunching device act as an automatic length counting for transfer tail. This adds to uniform length of transfer tail. This short length of yarn may be used later to join packages together.



CREELS AND CONVEYOR BELT

In order to improve the ergonomics, the package conveyor belt has been designed so that Final Twisted packages can be removed laterally at exit point. This measure allows for a further reduction in operating time when handling large volumes of yarn.

Creels for packages and empty tubes. Creel and storage facilities for Finished packages and empty tubes to reduce handling time.

SPUN TFO , Spindle Gauge 225, S-120 (Single Deck Both Side)

No Of Position		1	2	3	4	5	6	7	8	9	10
No Position		16	32	48	64	80	96	112	128	144	160
Machine Length (L)	MM	3650	5480	7310	9140	10970	12800	14630	16460	18290	20120
	Ft	11.98	17.98	23.98	29.99	35.99	41.99	48.00	54.00	60.01	66.01

SPUN TFO , Spindle Gauge 260, S-140, S-165 (Single Deck Both Side)

No Of Position		1	2	3	4	5	6	7	8	9	10
No Position		14	28	42	56	70	84	98	112	126	140
Machine Length (L)	MM	3650	5480	7310	9140	10970	12800	14630	16460	18290	20120
	Ft	11.98	17.98	23.98	29.99	35.99	41.99	48.00	54.00	60.01	66.01

SPUN TFO Double Deck , Spindle Gauge 225, S-110D, S-120D (Double Deck Both Side)

No Of Position		1	2	3	4	5	6	7	8	9	10
No Position		32	64	96	128	160	192	224	256	288	320
Machine Length (L)	MM	3710	5540	7370	9200	11030	12860	14690	16520	18350	20180
	Ft	12.17	18.18	24.18	30.18	36.19	42.19	48.20	54.20	60.20	66.21



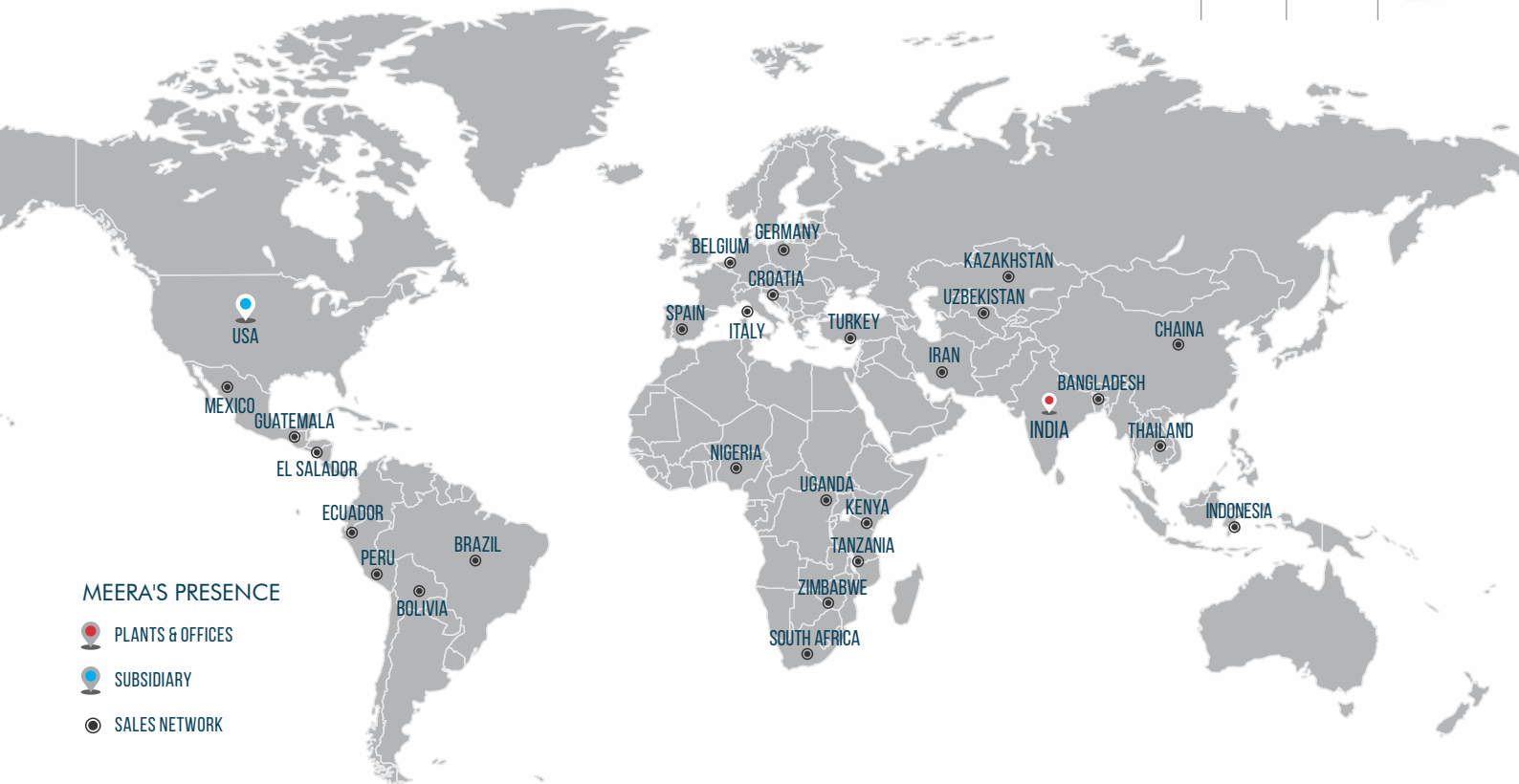


about US.

Meera Industries Limited an ISO 9001 company is a renowned name in the field of twisting, cabling and continuous heat setting machines. Having Presence in more than 26 countries, we are known for innovating new technologies and providing complete customized solutions to our customers.

We have a in house R&D center recognized by the Department of Scientific and Industrial Research (DSIR) We are also a recipient of two R&D awards continuously for 2 years in a row from Textile manufacturers Association (TMM) for pioneering Single Step S/Z twisting technology (TPRS) and continuous Bulking and Heat Setting Machines (Meerabah) in India.

Energy conservation, Better Productivity and Ease of Use are the goals in mind when we design machines. We assure you to serve in the best possible way we can.



MEERA

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