



Since 1968

BLUEMOON

TWISTERS ♦ WINDERS



Company Profile

The Reliable Partner.....

Bluemoon engineering was established by Mr. Moiz Akbar Kalavadwala in 1968 with a vision to offer quality steam based textile machines. It eventually diversified in manufacturing a perfect range of machines & equipments for textile industry.

Bluemoon is recognized for its tradition of ensuring long term business relationship with customers by achieving total customer satisfaction in its products. The company is assuring leading position in textile industry by providing high-tech, efficient, safe and reliable products to customers at very competitive price and well on time.

Its manufacturing facilities are situated at Surat, famous for its jari, silk and diamond industries at world level and one of the important hub of Indian textile business. It gives a privilege to the company, Surat is just 300 Kms away from Mumbai, India's financial capital.

At Bluemoon, we are committed to provide our customers cost effective solution for their various process needs by applying intensive R & D and 43 years engineering expertise of our engineers and specialists.

FOUNDER



Mr. MOIZ AKBAR KALAVADWALA
1944 - 1992

" Whose work was his worship "



Mr. Mustan Moiz
Director



Mr. Shabbir Moiz
Director

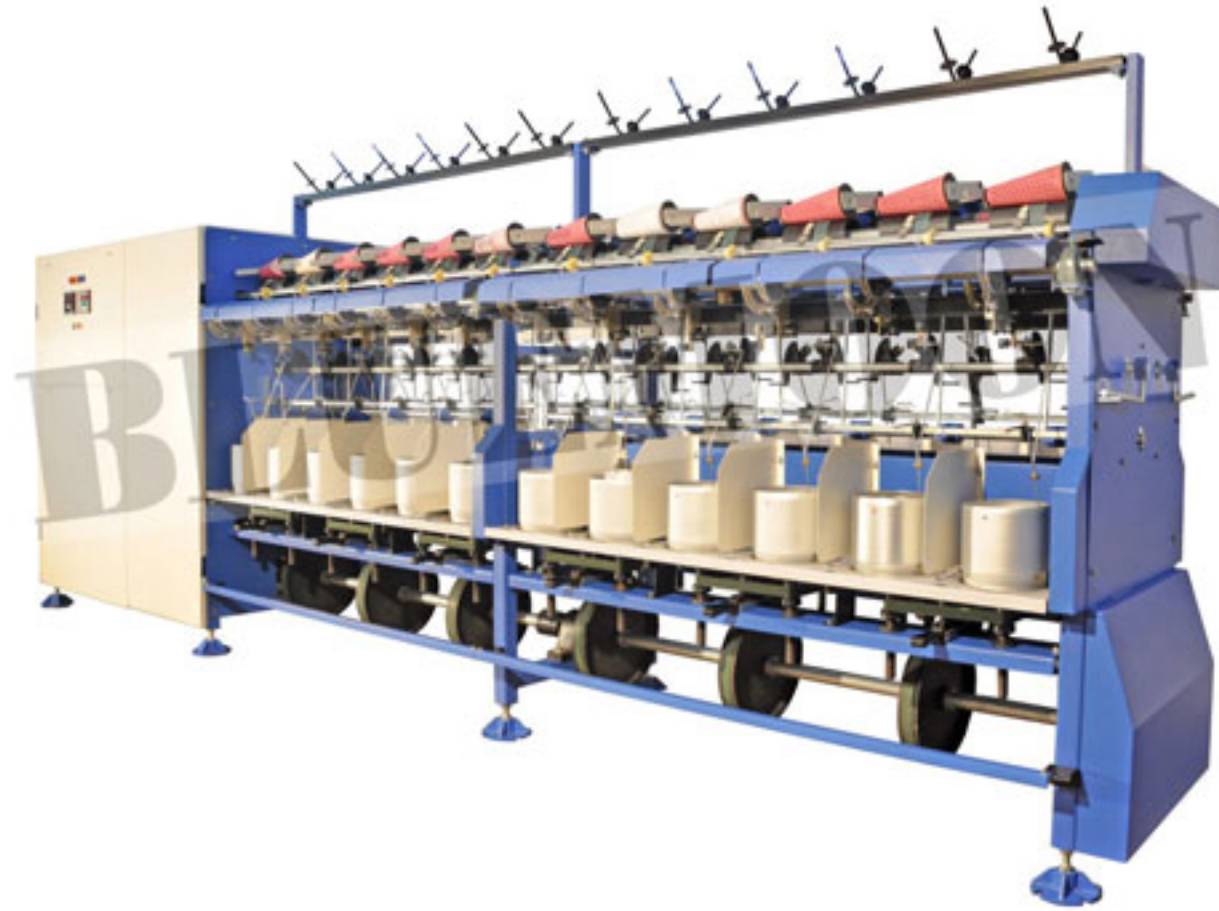
We promise
POSITIVE ATTITUDE

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TWISTING ◆ WINDING

DYEING ◆ AUTOCLAVES ◆ BOILER ◆ CHEMICAL PLANT MACHINERY



Advance TFO Twister in response to current market requirements. Our TFO Twister has been developed based on through market research, taking into consideration customers specific requirements. Therefore our TFO Twister sets new standard in quality and performance.



◆ **SALIENT FEATURES**

- ◆ Low investment cost.
- ◆ Less floor space requirement due to slim design.
- ◆ Easy to operate and adjust for changing twist number and lease angle.
- ◆ Wide versatility. 4 types of spindles for various yarn counts.
- ◆ Reduced power consumption
- ◆ Accurate drive transmission due to toothed belts
- ◆ Long separators to prevent end lashing
- ◆ Cradle tension device to obtain uniform density package
- ◆ High grade wear resistant finish, low height spindle for minimizing balloon dimensions & low yarn tension
- ◆ High production
- ◆ High quality of yarn package
- ◆ Low noise level
- ◆ Low maintenance

◆ **TECHNICAL SPECIFICATIONS**

Data	BS 140	BS 150	BS 160	BS 180
Machine Frame	Single deck both side			
Spindle Pot Dia & Gauge (mm)	149 - 240	159 - 240	166 - 256	189 - 256
No. of Spindles/Section	12	12	12	12
Max. No. of Spindles	204	192	180	120
Max. Spindle speed (rpm)	13000	12000	12000	11000
Spindle Drive	4 Spindle	4 Spindle	4 Spindle	4 Spindle
Stop Motion	Mechanical	Mechanical	Mechanical	Mechanical
Adjust tension	Capsule Type	Capsule Type	Capsule Type	Capsule Type
Twist direction	S or Z	S or Z	S or Z	S or Z
Feed Package (Cheese 6")	~ 140mm	~ 150mm	~ 160mm	~ 180mm
Delivery Package (cone/Cheese 6")	~ 275 mm	~ 275 mm	~ 275 mm	~ 275 mm
Section Pitch	1494	1494	1590	1590
Width & Height Of Machine in mm	850 - 1715	850 - 1715	850 - 1715	850 - 1715
Yarn Type	cotton, wool, polyester, cotton blended yarns			

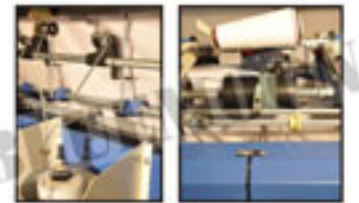
◆ **HIGHLY EFFICIENT FOUR SPINDLE DRIVE**

Saves power substantially compared to tangential belt drive system. Superior quality of twisted yarn due to very low C.V.% of twist variation.



◆ **CRADLE LIFTING MECHANISM**

Automatically disengages the delivery package during yarn breaks or yarn winding completes by lifting the cradle from drum. This also brings notice to operator.



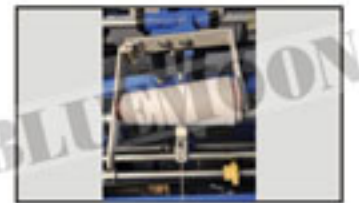
◆ **GEAR BOX**

Precisely engineered gear box is provided with automatic lubrication pump making the maintenance of the main moving parts easy.



◆ **ADJUSTABLE CRADLE DESIGN**

To accommodate delivery package conicity from 00 0' to 5' 57".



◆ **HAND BRAKE SYSTEM**

Easy to operate & more efficient as compared with knee operated braking system.



- Optional
- ◆ Balloon Limiter
 - ◆ Waxing Device
 - ◆ Inverter Drive



Ideal TFO Twister for medium and high twist (10 TPI to 70 TPI) to a wide range of yarns and differential count preferable for Ne 30/2^s to Ne 100/2^s

This machine provides speedy setting of spindle revolution. Twist number and lease angle can be altered simply changing gears. For Easy Operation Spindle Speed, Twist number and yarn speed is displayed. Engineered to precision, this machine is efficient and produce less noise.

New Concept of double deck construction saves greatly floor space area. Conventional single deck version machine with spindle pot Ø 150mm requires a total length of 26925mm for 204 spindles, whereas double deck version machine with spindle pot Ø 120mm requires a total length of 25550 mm for 408 spindles.

Energy saving by means of small spindle pot diameter. Power consumption for Ne 80/2s or Ne 100/2s count at a spindle speed range of 8000 to 13000 rpm is observed up to 40% less with small spindle pot Ø 110/120mm as compared to conventional spindle pot Ø 150 mm

◆ **SALIENT FEATURES**

- ◆ Energy Efficient
- ◆ Space Saving
- ◆ Sturdy Structure
- ◆ Durable
- ◆ Easy Operation Simple & Effective Driving System
- ◆ Oil lubricated cambox
- ◆ Low Maintenance
- ◆ Reliable Performance



◆ **TECHNICAL SPECIFICATIONS**

Data	Parameters			
No. Of Spindles	312	336	360	384
No. Of Sections	13	14	15	16
Length Of Machine (meter)	20.28	21.66	23.04	24.42
Connected Power (Hp) Model BS- 110	2x10	2x12.5	2x12.5	2x12.5
	Model BS- 120	2x12.5	2x12.5	2x12.5
No. Of Spindles / Section	24			
Take Up	Paper Tube ID 45 x OD 57 x 170 mm. L or Cone 5° 57" x 170 mm L			
Take Up Package Weight (gms.)	Up to 2500			
Feed	Tube ID 32 x OD 36 x 170 mm. L			
Feed Package Weight (gms.)	Model BS-110 : 550 Model BS-120 : 650			
Feed Package Diameter (mm.)	Model BS-110 : 105 Model BS-120 : 115			
Spindle Pot Diameter / Gauge (mm.)	Model BS-110 : 110/215 Model BS-120 : 120/215			
Take Up Package Holder	Metal Cradle With Ball & Cap			
Traverse	Common (Cylindrical), 152 mm.			
Take Up Speed (mpm)	50			
Feed Tensioner	Capsule Type			
Count Range (Ne)	2/60 ^s to 2/100 ^s			
Twist Range (tpi)	10 to 75			
Twist Direction	S or Z			
Spindle Speed (rpm)	Up to 12000 (Max)			
Width Of Machine (mm.)	920			
Height Of Machine (mm.)	2250			
Machine Frame	Double Deck Both Side			

OPTIONAL ◆ Air threading ◆ Inverter drive ◆ Individual Spindle brake.



◆ **AUTO CRADLE LIFTING DEVICE**

In case of yarn breakage, the supply of yarn is stopped by the action of dropper and this simultaneously activates the cradle lifting device. Not only it brings notice to operator, it also prevents yarn quality deterioration.



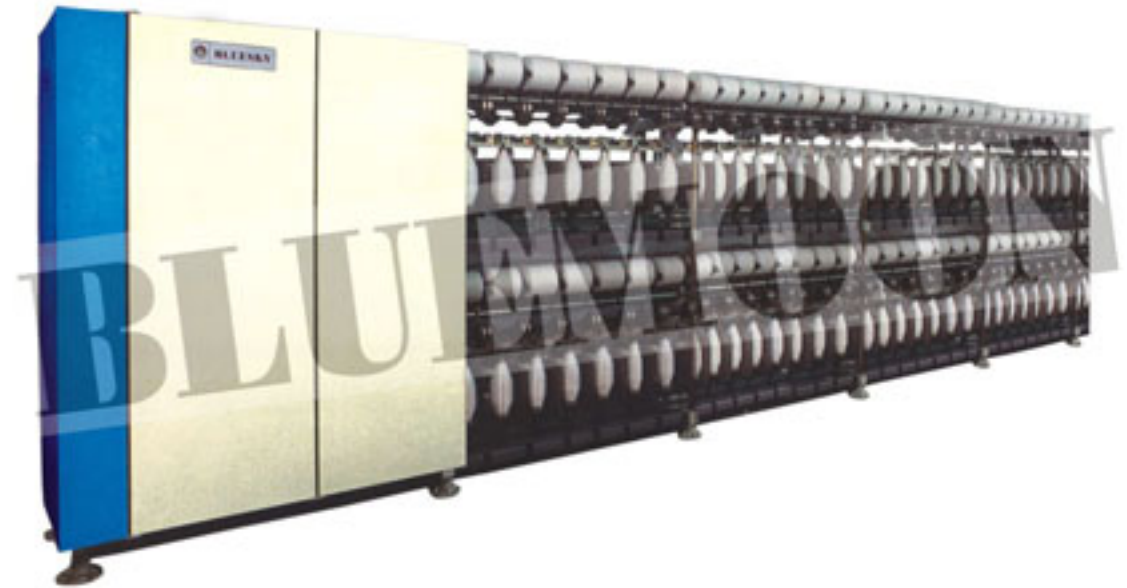
◆ **INDIVIDUAL SPINDLE BRAKING**

This system provides easy stopping of spindle. This braking system disengages the tangential belt from the spindle resulting in longer life of the belt.



◆ **INVERTER DRIVING SYSTEMS**

This systems enables to operate drive motor at stepless speed variation for different spindle RPM without changing manually drive motor pulley of different diameters.



This is an ideal machine with latest technology for producing two / three ply embroidery yarn. The standard final package is a cheese with a net weight of 1.2 kg knot less embroidery thread from flat or textured yarn.

◆ SALIENT FEATURES

- ◆ Rigid machine construction.
- ◆ Live display of spindle RPM, TPM & yarn speed.
- ◆ Long lasting maintenance free performance.
- ◆ High quality of spindle for long time stable run even under high speed operations.
- ◆ Yarn sensors and cutters are provided at primary ply twisting stage to avoid single yarn winding.
- ◆ Overfeed provision for control over take up package density as needed.
- ◆ Better quality of twisted yarn.
- ◆ Covers various requirement of S & Z twisting.
- ◆ Energy efficient Ele. motors

◆ TECHNICAL SPECIFICATIONS

Data	LOWER DECK : PRIMARY TWIST						UPPER DECK : SECONDARY TWIST					
	Parameters											
No. Of Spindles	176	192	208	224	240	256	110	120	130	140	150	160
No. Of Sections	11	12	13	14	15	16	11	12	13	14	15	16
Length Of Machine (meter)	17.24	18.62	20.0	21.38	22.76	24.14	17.24	18.62	20.0	21.38	22.76	24.14
Connected Power (hp)	5	7.5	7.5	7.5	7.5	10	7.5	10	10	12.5	12.5	12.5
No. Of Spindles / Section	16						10					
Take Up	Flange Bobbin 42 x 100 x 210 mm L						Paper Tube ID 45 x OD 57 x 210 mm L					
Take Up Package Weight (gms.)	1200						1200					
Feed	Aluminum Cops ID 32 x OD 36 x 240 mm L						Flange Bobbin 42 x 100 x 210 mm L					
Feed Package Weight (gms.)	600						1200					
Feed Package Diameter (mm.)	85						100					
Spindle Pot Diameter / Gauge (mm.)	70 / 165						110 / 250					
Take Up Package Holder	Metal Cradle With Ball & Cap						Metal Cradle With Ball & Cap					
Traverse	Common (Suitable For Cylindrical)						Common (Suitable For Cylindrical / Biconical)					
Take Up Speed (mpm)	60						50					
Feed Tensioner	Ball Ceramic Type						Ball Ceramic Type With Flyer					
Denier Range	80 to 150						160 to 300					
Twist Range (tpm)												
Twist Direction	S or Z						S or Z					
Spindle Speed (rpm)	Up to 12000 (max)						Up to 10000 (max)					
Width Of Machine (mm.)	800						800					
Height Of Machine (mm.)	1950						1950					
Machine Frame	Double Deck Both side						Double Deck Both side					

Energy Efficient and cost Effective twister ideal for medium and high twist polyester yarn. Sturdy and robust machine construction permits vibration free operation even at high spindle speeds. Ceramic guided yarn path ensures superior yarn quality. Desired package density can be produced. Plasma coated spindles provide hard and smooth surface for high quality yarn twisting, also very good resistance wear and corrosion.

◆ SALIENT FEATURES

- ◆ Option in spindle selection, i.e. Aluminum alloy spindle pot with plasma coating or stainless steel pot.
- ◆ Live display of spindle RPM, TPM, Yarn Speed for both upper and lower deck.
- ◆ Tangential direct spindle belt drive ensures better twist uniformity.
- ◆ Drop wire system at each spindle position helps at the time of break filament.
- ◆ Ideal technology with economical system for medium and high twist of filament yarn.

◆ TECHNICAL SPECIFICATIONS

Data	Model BS 70 - 155					Model BS 70 - 170				
	No. Of Spindles	336	364	392	420	448	288	312	336	360
No. Of Sections	12	13	14	15	16	12	13	14	15	16
Length Of Machine (meter)	18.35	19.73	21.11	22.49	23.87	18.35	19.73	21.11	22.49	23.87
Connected Power (hp)	12	12	15	15	20	15	15	15	20	20
No. Of Spindles / Section	28					24				
Take Up	Paper Tube ID 45 x OD 57 x 155 mm L					Paper Tube ID 45 x OD 57 x 170 mm L				
Take Up Package Weight (gms.)	Up to 1200					Up to 1400				
Feed	Aluminum Cops ID 32 x OD 36 x 240/270 mm L					Aluminum Cops ID 32 x OD 36 x 270 mm L				
Feed Package Weight (gms.)	750 to 1000					750 to 1000				
Feed Package Diameter (mm.)	85					85				
Spindle Pot Diameter / Gauge (mm.)	70 / 185					70 / 215				
Take Up Package Holder	Metal Cradle With Ball & Tube Cap					Metal Cradle With Ball & Tube Cap				
Traverse	Common (Suitable For Cylindrical / Biconical)					Common (Suitable For Cylindrical / Biconical)				
Take Up Speed (mpm)	45					45				
Feed Tensioner	Ball Ceramic Type					Ball Ceramic Type				
Denier Range	30 to 150					30 to 150				
Twist Range (tpm)	400 to 4000					400 to 4000				
Twist Direction	S or Z					S or Z				
Spindle Speed (rpm)	Up to 14000 (max)					Up to 14000 (max)				
Width Of Machine (mm.)	770					770				
Height Of Machine (mm.)	1680					1680				
Machine Frame	Double Deck Both side					Double Deck Both side				



It is a most suitable and cost effective machine for twisting of medium or higher denier filament yarn at low twist (tpm).

◆ **TECHNICAL SPECIFICATIONS**

Data	Parameters					
No. Of Spindles	288	312	336	360	384	408
No. Of Sections	12	13	14	15	16	17
Length Of Machine (meter)	17.07	18.37	19.68	20.99	22.30	23.61
Connected Power (hp)	10x2	12.5x2	12.5x2	12.5x2	15x2	15x2
No. Of Spindles / Section	24					
Take Up	Paper Tube ID 57 x OD 69 x 170 mm. L					
Take Up Package Weight (gms.)	Up to 1500, Maximum Diameter 220 mm					
Feed	Aluminum Cops ID 32 x OD 36 x 270 mm L					
Feed Package Weight (gms.)	Up to 1500					
Feed Package Diameter (mm.)	Up to 100					
Spindle Pot Diameter / Gauge (mm.)	80 / 205					
Take Up Package Holder	Metal Cradle With Ball & Cap					
Traverse	Individual Biconical					
Take Up Speed (mpm)	90					
Feed Tensioner	Ball Ceramic Type					
Denier Range	30 to 300					
Twist Range (tpm)	100 to 1000					
Twist Direction	S or Z					
Spindle Speed (rpm)	Up to 14000					
Width Of Machine (mm.)	850					
Height Of Machine (mm.)	2050					
Machine Frame	Double Deck Both Side					

◆ **SALIENT FEATURES**

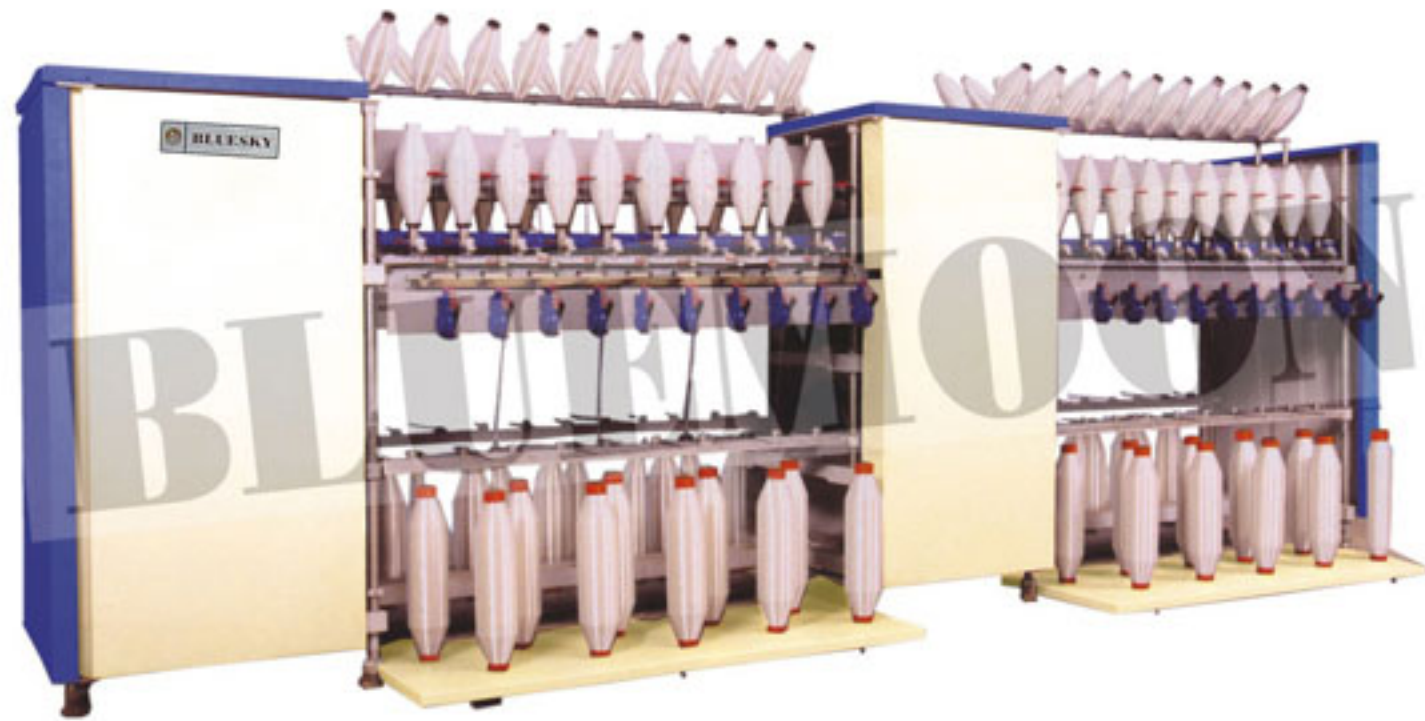
- ◆ Rigid machine construction offers long lasting maintenance free performance with higher yarn Take-up speed capability.
- ◆ Plasma Ceramic Coated Reserve Disc for Gentle Handling of Yarn.
- ◆ Live Display of R.P.M., T.P.M., Yarn Speed.
- ◆ Combination of a Unique overfeed, Adjustable Over-Feed Ratio and contact angle ensure desired constant yarn tension helping uniform hardness control throughout the built up.
- ◆ Mandrel less cradle take-up provider with vibration damping mechanism offers higher take-up speed and best built.
- ◆ Wide Range Available in Spindle Speed, Biconical Angle and Package Hardness.
- ◆ Star-Delta Soft Start system with special motor protecting device.
- ◆ Oil Device for Anti-Static Oil Application (optional)
- ◆ Highly economical for higher denier and low-twist.



It is a high productivity, higher flexibility (wide twist range) machine which can produce large take up package. Reduces adjustment time for modification of parameters like twist/min. and spindle rpm due to PLC.

◆ **TECHNICAL SPECIFICATIONS MODEL BS-300CT**

Data	Parameter
Spindle Type	Motorized Spindle (Single Spindle Module)
Spindle Dia.	300 mm
Balloon Limiting Device	Optional
Max. Spindle Speed	4000 rpm
Speed of Take-up	15-170 mtr./ min.
Twist Range	20-400 TPM (0.5-10 TPI)
Feed Package Size in mm.	Max. OD 285 x Traverse 250 x Min. Tube Bbore 60 mm.
	Weight 8-10 Kg. Max.
Take-up Package	Dia. 400 Max. x 250 Traverse
	Different Formats Available to Suit Application
Processable Count.	400 - 4000 Denier x 2, BCF 840/2 - 2500/2 Dtex.
Processable Yarn	Polyester, P.P., Nylon, Viscose, Wool, Jute.
	(Filament / Spun)
Control Panel	Feather Touch Screen to Set Twist and Spindle RPM
Installed Power	375 W (Spindle), 100 W (Take-up)



Economical solution for producing best wrap wound supply package for TFOs

◆ SALIENT FEATURES

- ◆ Rigid machine structure and Differential winding system for vibration free performance.
- ◆ Differential Winding traverse produces stepless package.
- ◆ Uniform tension for take up package hardness control through V - type dial tensioners.
- ◆ Micro processor controlled inverter driven panel maintains constant yarn speed throughout the doff time and produces package at constant tension.

◆ TECHNICAL SPECIFICATIONS

Data	Parameters		
Frame	Single Deck Both Sides		
No. of Spindles Per Section	20		
Spindle Pitch (mm)	160		
Supply Package	Cheese or Cone Up to Dia. 275 mm		
Take up Package	ID 32 X OD 36 X 240 / 270 mm		
Take up Content	Up to 1000 Grams.		
Tension Device	V - Type Dial Tensioner		
Yarn Speed	300 to 700 Mtr. / Min. Constant		
Control Device	Inverter Controlled Spindle Drive		
Traverse Drive	Gearbox		
Doff Setting	Auto Stop at Preset Time		
	BS - 60	BS - 80	BS - 100
No. of Spindles	60	80	100
Machine Length in Mtrs.	6.540	8.180	9.820
Width Of The Machine in mm	1410	1410	1410
Height Of The Machine in mm	1.380	1.380	1.380
Connected Power	2HP	3HP	3HP



◆ SALIENT FEATURES

- ◆ Sturdy and rigid construction for vibration free operation.
- ◆ New concept of double deck frame both side to accommodate 12 drums per section, so substantial space saving on floor area.
- ◆ Machine is designed to wind cotton, staple and synthetic yarn to produce soft wound package.
- ◆ Universally approved "NIF" grooved drums.
- ◆ The accelerating pressure reduction of the package through dead weights compensates the increasing pressure of the package to the drum with increasing diameter and results in desired uniform density package.
- ◆ Spindle less cradle to hold s.s. dye spring and double arm package holder (mandrel) with bearings & rubber rings to prevent direct contact of metal on drum.
- ◆ Double disc yarn tension device with self threading guide wires and high quality ceramic.
- ◆ Two separate electric motors for independent drive of each side of machine to drive drum shaft and gearing system. The traverse motion is achieved through the drum shaft.
- ◆ Cradle can accommodate dye spring or perforated tube / cone.

◆ TECHNICAL SPECIFICATIONS

Data	Parameters				
Machine Arrangement	Double Sided Double Deck				
No. Of Winding Heads	60 To 144				
No. Of Winding Heads Per Section	12				
Section Pitch (mm)	1020				
Type of Winding	Random				
Yarn Traverse	6" / 152 Mm				
Supply Package Type	Cheese / Cone				
Produce Package Type	Dye Spring / Perforated Tube				
Package Destination	Dyeing				
Produce Package Diameter	200 Mm Max.				
Winding Speed (mtr. / Min.)	350 Max.				
Height Of The Machine in mm	1635				
Width Of The Machine in mm	1400				
Drive Motor End Lg. (mm)	775				
Sogging Motor End Lg. (mm)	850				
No. of section	8	9	10	11	12
No. of Drums	96	108	120	132	144
Length of M/c. in mm	9785	10805	11825	12845	13865
Main Drive Motor (HP)	3.0	3.0	4.0	4.0	6.0
Sogging Motion Motor (HP)	2.0	4.0	4.0	4.0	4.0

◆ SHOGGING DEVICE

Specially designed lateral shogging motion device to produce soft edges of package.



◆ RIBBON BREAKER

Electronically controlled Anti-Ribbon device to prevent ribbon formation in wound package. On-Off pulses per minute and off time is adjustable.



◆ LENGTH MEASURING AND CONTROL SYSTEM

Two separate length counter for each side of machine to show direct reading of yarn speed in mtr./min. & preset yarn length control on full doff with auto stop.



SOFT DYE PACKAGE WINDER - HIGH SPEED

SALIENT FEATURES

- Electronic anti pattering.
- Lateral shogging motion for soft edges.
- Automatic yarn break stop.
- Stepless spindle speed variation by frequency inverter.
- Length measuring system (optional).

TECHNICAL SPECIFICATIONS

Data	Parameter
Machine Arrangement	Double sided
Drive	Individuals motor for each spindle
No. Of Spindles	36 to 96 (in multiple of 12)
Installed Power	0.09 Kw per each spindle
Winding Speed	300 to 1200 mpm
Spindle Gauge	370 mm
Take Up Package	290 mm x 152 mm lg.
Yarn Type	cotton, polyester, PC



It is a double sided high speed drum winder machine suitable for soft dye package winding of desired density on dyespring, cylinder or conical perforated tubes.

FINAL PACKAGE WINDER - HIGH SPEED

SALIENT FEATURES

- Electronic anti pattering.
- Automatic yarn break stop.
- Hard anodized aluminum traverse drum.
- Stepless spindle speed variation by frequency inverter.
- Length measuring system (optional).

TECHNICAL SPECIFICATIONS

Data	Parameter
Machine Arrangement	Double sided
Drive	Individuals motor for each spindle
No. Of Spindles	36 to 96 (in multiple of 12)
Installed Power	0.09 Kw per each spindle
Winding Speed	300 to 1200 mpm
Spindle Gauge	370 mm
Take Up Package	290 mm x 152 mm lg.
Yarn Type	cotton, polyester, PC



It is a double sided high speed drum winder machine suitable for **Hard** rewinding of dyed package of desired density on cylinder or conical perforated tubes.

OTHER PRODUCTS

STEAMING & CONDITIONING MACHINES



1) Yarn Conditioning Plant

- Hydraulic Door Opening.
- Manual Door Opening.

2) Yarn Steaming Autoclave

- Hydraulic Door Opening.
- Manual Door Opening. (advanced model)
- Manual Door Opening. (economy model)

3) Steam Ager

4) Hot Air Ager

YARN DYEING MACHINES.



1) HTHP Vertical Yarn Dyeing Machine

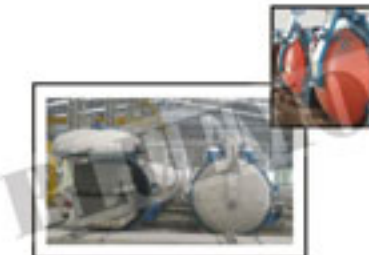
2) HTHP Horizontal Single Vessel Dyeing Machine

3) HTHP Horizontal Tubular Dyeing Machine

4) HTHP Pilot Dyeing Machine

5) Multi Colour Space Dyeing Machine

BOILERS - AUTOCLAVE



1) BOILER

IBR Approved

2) AUTOCLAVE

for AAC Plant

CHEMICAL PLANT MACHINERY

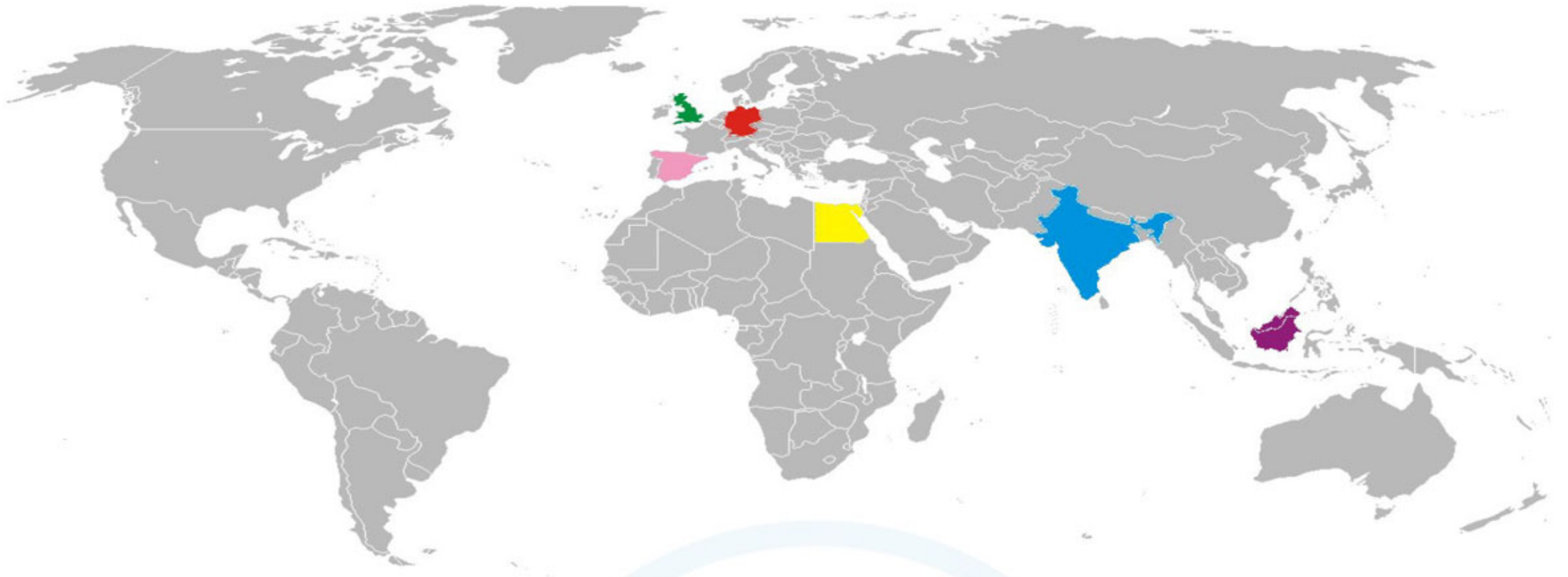
We Design and Manufacture



- Reactor.
- Heat Exchanger.
- Pressure Vessel.
- Distillation Column.
- Storage Tank Etc.

Note : Product upgradation is a continuous process. Hence, data in this data sheet is subject to change without prior notice. For the latest information, please get in touch with our manufacturing division.

World map of our international Participation



- ITMA - 2003 - BIRMINGHAM / U.K.
- ITMA - 2007 - MUNICH / GERMANY.
- ITMA - 2011 - BARCELONA / SPAIN.
- EGYPT - 2008.
- BANDUNG TEX - 2006 - INDONESIA.

- ITME - 1996 - MUMBAI / INDIA.
- ITME - 2000 - MUMBAI / INDIA.
- ITME - 2004 - MUMBAI / INDIA.
- ITME - 2008 - BANGALORE / INDIA.
- ITME - 2012 - MUMBAI / INDIA.
- ITGME - 2006 - COIMBATORE / INDIA.
- TEX SPARE - 2006 - COIMBATORE / INDIA.
- INDIA TEX PRO - 2008 - COIMBATORE / INDIA.
- KNIT TECH - 2009 - TIRUPPUR / INDIA.



MFD. By :

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