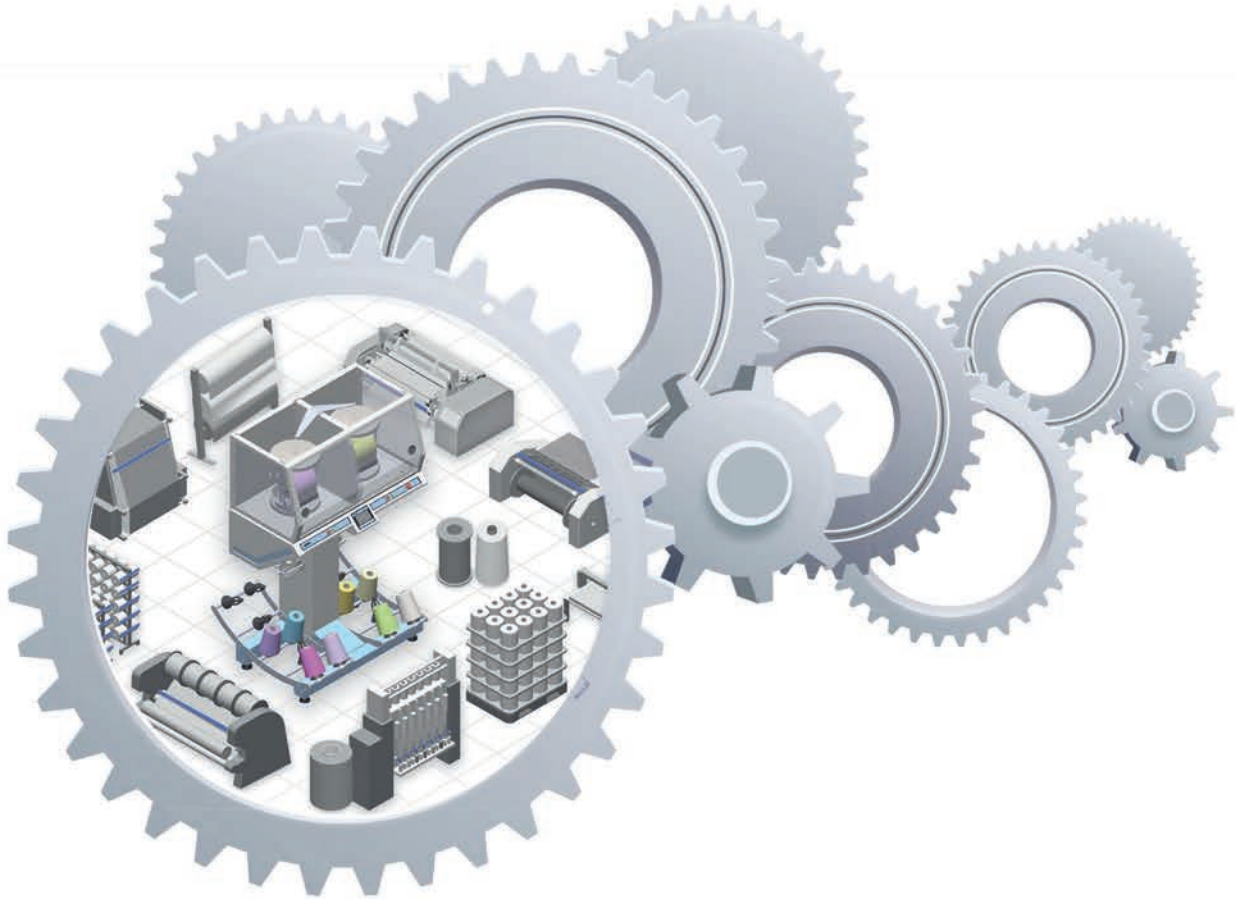


**AGTEKS**  
*DiracTwist® Series*

## Twisting Redefined

Cone to Cone Multifunction

Twisting Machines



## SUCSESFUL PIONEER

AGTEKS was founded in 1992 as a textile machinery manufacturer in Istanbul. As manufacturers have required higher quality yarn for higher quality garments, AGTEKS has risen to the challenge of researching and developing solutions for economical and functional products for the yarn industry. In keeping with the research and development objective of highly qualified and experienced engineering staff, AGTEKS is one of the fastest developing companies in the world. Our team continually implements many new twisting and sensing solutions to service the textile industry while working with direct contacts in the market, universities, renowned experts and research institutes worldwide. Through the release and installation of these technologies, AGTEKS continues to produce the most innovative and versatile twisting and covering machines in the market. AGTEKS' new line of industrial sensing solutions keeps with their solid reputation in introducing previously unavailable solutions and meeting market demands and requirements.

"Total quality" and "customer satisfaction in any case" are our strict mottos at AGTEKS. Our customer feedback proves that AGTEKS produces the highest quality products and provides elite after-sales service. AGTEKS provides quality service with many international patents, thousands of happy customers in more than 80 countries, and numerous reputable agents worldwide. Today, AGTEKS focuses on producing highly technical textile machines and online quality control systems from yarn to garment. AGTEKS is proud to serve the textile industry globally with their integral developments and top quality products.

## All Processes in One Machine!

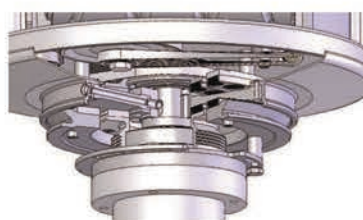
# DiracTwist®



Covering Process



Twisting Process



		Two-for-one twisting M/C	Hollow spindle twisting M/C	Ring twisting M/C	DiracTwist®
Single yarn covering			2 Operations		1 Operation
Multi yarn covering			2 Operations		1 Operation
Hamel twisting					1 Operation
Double yarn twisting		2 Operations		2 Operations	1 Operation
Multi-Color mulin twisting		4 Operations (Limited)		2 Operations	1 Operation
Multi yarn twisting				2 Operations	1 Operation
Multi yarn parallel twisting				2 Operations	1 Operation
Cross yarn covering			3 Operations		2 Operations
Siro twisting					2 Operations
Lyra covering/ twisting		2 Operations (Limited)	2 Operations		1 Operation

Innovative patented drive mechanism to perform twisting and covering in single operation.

# DirecTwist® 2B6''

Up to 18.000 Tw/min, 2.000 Tw/mt

**For Twisting  
Staple Fiber Yarns**

### Twisting and Covering are easier than ever!

- Different threading method allows creating great variety of twisting structures easily. Both TWISTING and COVERING processes are possible on the same machine.



### Long life precise ceramic coated winding drum

- Possibility of winding on cylindrical bobbins. As well as staple fibers, great performance on continuous fibers.



### Ultra sensitive optical yarn sensors

- When yarn breaks it stops the machine automatically. Therefore it protects the machine and yarn quality. Ensures the desired quality and size of the yarns.



### Precise yarn feeding systems

- Precise yarn feeding system enables better winding and reliable twisting. Powered paraffin devices makes your yarn ready to run.



### Easy to use touch screen operator

- Easy to use touch screen operator terminal allows independent control of each spindle. Stylish buttons for programming and indicators for error messages.



### Optional Programmable Elastane Feeder

- Optional programmable precise elastane feeding device allows 10% to 90% feeding rate in most twist range. Possibility of twisting elastane with any kind of fibers.



## Capabilities

✓	✓	✓	Cotton/Wool/Acrylic
✓	✓	✓	Polyester/Elastane
	✓	✓	Nylon/Polypropylene
	✓	✓	Aramid
	✗	✗	Glass/Carbon
	✗	✗	Fine Metal Wire

## Save Your Time

The fastest machine of DirecTwist series and it has incomparable twisting capacity for staple fiber yarns. It can twist or cover any kind of staple fiber yarns mostly in one operation.

## Optional Devices

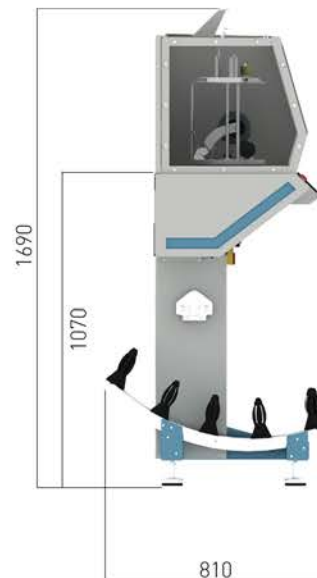
**Servo Bobbin Feeder**

Servo Feeder can control the velocity according to the tension. It can reach up to 200 meters/minute in case of constant tension. There is no friction on the yarn since the yarn is always passed over on the ceramic rollers.

**PreTwist Unit**

The pre-twisting machine is designed to make the S+Z operation in single step. Up to 7 Pretwist machine can be connected to any spindle.

## Layout



**DirecTwist® 2B6”**

## Technical Data

Take-up speed	Up to 200 meters/minute, independent each spindle
Mains voltage	200-240V 1-Phase-3 Phase or 380V 3 Phase (with neutral)
Max power	1 kW/Spindle
Total twisted yarn thickness	100 Nm to 1.8 Nm [90 Denier to 5.000 Denier]
Take-up cone size	170 mm length conical cone
Maximum take-up cone diameter	220 mm
Supply bobbin size	Any size
Yarn break sensors	8 sets optical sensors and optional capacitive sensor for elastane
Max. yarn plies to be twisted	Unlimited
Fancy yarn twisting	Individual operation for each spindle
Length control	Individual operation for each spindle, feedback from winding drum
Automatic stop	Yarn break, bobbin full, cover open, emergency, overload, etc.

# DirecTwist® 2C6''

Up to 14.000 Tw/min, 2.000 Tw/mt

**For Twisting  
Staple Fiber and  
Continuous Filament Yarns**

### Twisting and Covering are easier than ever!

- Different threading method allows creating great variety of twisting structures easily. Both TWISTING and COVERING processes are possible on the same machine.



### Long life precise ceramic coated winding drum

- Possibility of winding on cylindrical bobbins. As well as staple fibers, great performance on continuous fibers.



### Ultra sensitive optical yarn sensors

- When yarn breaks it stops the machine automatically. Therefore it protects the machine and yarn quality. Ensures the desired quality and size of the yarns.



### Precise yarn feeding systems

- Ultra-light yarn feeder system with internal clutch force avoids dynamic friction on the yarn.



### Easy to use touch screen operator

- Easy to use touch screen operator terminal allows independent control of each spindle. Stylish buttons for programming and indicators for error messages.



### Optional Programmable Elastane Feeder

- Optional programmable precise elastane feeding device allows 10% to 90% feeding rate in most twist range. Possibility of twisting elastane with any kind of fibers.



## Capabilities

✓	✓	✓	Cotton/Wool/Acrylic
✓	✓	✓	Polyester/Elastane
✓	✓	✓	Nylon/Polypropylene
	✓	✓	Aramid
		✓	Glass/Carbon
		✗	Fine Metal Wire

## Your New Yarn Designer

The most convenient machine for any textile yarns so it offers you ultimate flexibility. It can twist or cover any textile yarns mostly in one operation.

## Optional Devices

**Waxing Device**

Thanks to the convenience of the powered waxing device, the knitting process is facilitated.

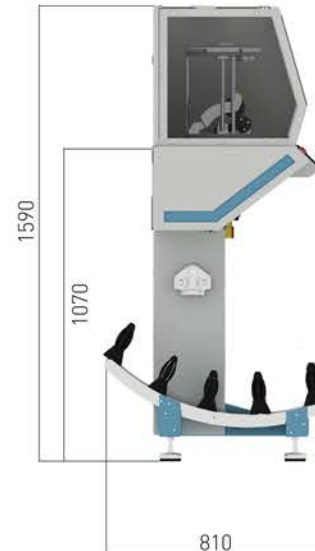
**Servo Bobbin Feeder**

Servo Feeder can control the velocity according to the tension. It can reach up to 200 meters/minute in case of constant tension. There is no friction on the yarn since the yarn is always passed over on the ceramic rollers.

**Inner Yarn Break Sensor**

Makes the machine stop faster when the yarn breaks inside the twisting unit.

## Layout



**DirecTwist® 2C6”**

## Technical Data

Take-up speed	Up to 200 meters/minute, independent each spindle
Mains voltage	200-240V 1-Phase-3 Phase or 380V 3 Phase (with neutral)
Max power	1 kW/Spindle
Total twisted yarn thickness	100 Nm to 1.8 Nm [90 Denier to 5.000 Denier]
Take-up cone size	170 mm lenght conical cone or cylindrical cone
Maximum take-up cone diameter	220 mm
Supply bobbin size	Any size
Yarn break sensors	8 sets optical sensors and optional capacitive sensor for elastane
Max. yarn plies to be twisted	Unlimited
Fancy yarn twisting	Individual operation for each spindle
Lenght control	Individual operation for each spindle, feedback from winding drum
Automatic stop	Yarn break, bobbin full, cover open, emergency, overload, etc.

# DirecTwist® 2C10''

Up to 10.000 Tw/min, 1.000 Tw/mt

For Twisting  
Industrial Yarns



### Twisting and Covering are easier than ever!

- Different threading method allows creating great variety of twisting structures easily. Both TWISTING and COVERING processes are possible on the same machine.

### Precise yarn feeding system

- Precise yarn feeding system enables better winding and reliable twisting.



### Long life precise ceramic coated winding drum

- Possibility of winding on cylindrical bobbins. As well as staple fibers, great performance on continuous fibers.

### Easy to use touch screen operator

- Easy to use touch screen operator terminal allows independent control of each spindle. Stylish buttons for programming and indicators for error messages.



### Optional Programmable Elastane Feeder

- Optional programmable precise elastane feeding device allows 10% to 90% feeding rate in most twist range. Possibility of twisting elastane with any kind of fibers.

## Capabilities

✓	✓	✓	Cotton/Wool/Acrylic
✓	✓	✓	Polyester/Elastane
✓	✓	✓	Nylon/Polypropylene
	✓	✓	Aramid
		✓	Glass/Carbon
		✗	Fine Metal Wire

## Your New Yarn Designer

Inspired from C6'' series and developed for thick yarns. It allows you twist or cover numerous yarns together mostly in one operation.



## Optional Devices

**Inner Yarn Break Sensor**

Makes the machine stop faster when the yarn breaks inside the twisting unit.

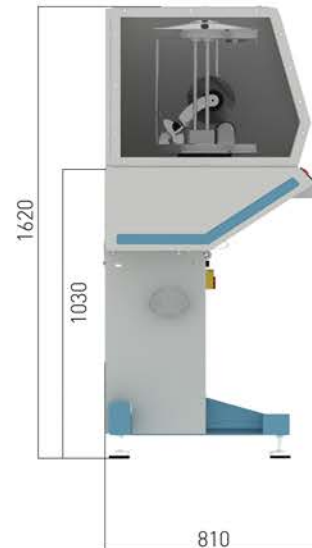
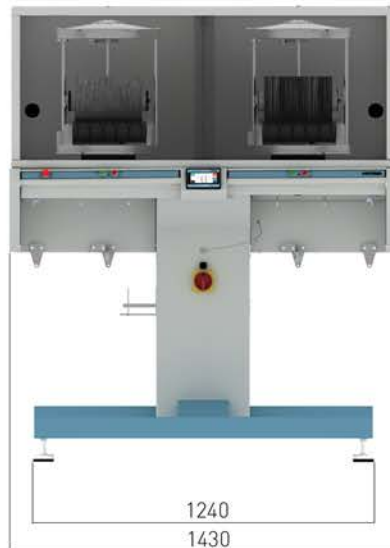
**PreTwist Unit**

The pre-twisting machine is designed to make the S+Z operation in single step. Up to 7 Pretwist machine can be connected to any spindle.

**Creel Unit**

Creel Unit allows to control many yarns during the operation. In case of yarn break it stops the machine. The tension on the yarn is adjustable with weight-disc tensioners.

## Layout



**DirectTwist® 2C10"**

## Technical Data

Take-up speed	Up to 200 meters/minute, independent each spindle
Mains voltage	200-240V 1-Phase-3 Phase or 380V 3 Phase (with neutral)
Max power	1.5 kW/Spindle
Total twisted yarn thickness	100 Nm to 0.5 Nm (90 Denier to 20.000 Denier)
Take-up cone size	290 mm lenght conical cone or cylindrical cone
Maximum take-up cone diameter	260 mm
Supply bobbin size	Any size
Yarn break sensors	On optional external creel. Wiring is provided for custom creels
Max. yarn plies to be twisted	Unlimited
Fancy yarn twisting	Individual operation for each spindle.
Lenght control	Individual operation for each spindle, feedback from winding drum
Automatic stop	Yarn break, bobbin full, cover open, emergency, overload, etc.

# DirecTwist® 2D6''

Up to 8.000 Tw/min, 1.700 Tw/mt

For Twisting Any Material in Yarn Form

### Twisting and Covering are easier than ever!

- Different threading method allows creating great variety of twisting structures easily. Both TWISTING and COVERING processes are possible on the same machine.



### Parallel Winding with Direct Traverse

- Take up winding method is parallel winding with direct traverse.



### Ultra sensitive optical yarn sensors

- When yarn breaks it stops the machine automatically. Therefore it protects the machine and yarn quality. Ensures the desired quality and size of the yarns.



### Twisting and winding with zero friction

- Due to the ceramic rollers, yarns move without lateral and axial frictions up to the take up unit.



### Easy to use touch screen operator

- Easy to use touch screen operator terminal allows independent control of each spindle. Stylish buttons for programming and indicators for error messages.

## Capabilities

- ✓ ✓ ✓ Cotton/Wool/Acrylic
- ✓ ✓ ✓ Polyester/Elastane
- ✓ ✓ ✓ Nylon/Polypropylene
- ✓ ✓ ✓ Aramid
- ✓ ✓ ✓ Glass/Carbon
- ✓ ✓ ✓ Fine Metal Wire

## AGTEKS Signature in Tech-Textile

The most advanced multifunctional twisting machine in the world. It is compatible with any material in yarn form and serves technical textile industry for achieving the new and best solutions.

## Optional Devices

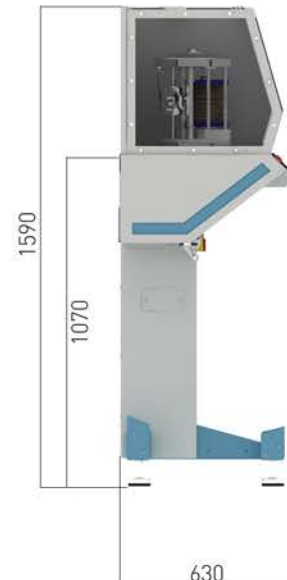
**Servo Bobbin Feeder**

Servo Feeder can control the velocity according to the tension. It can reach up to 200 meters/minute in case of constant tension. There is no friction on the yarn since the yarn is always passed over on the ceramic rollers.

**Magnetic Creel**

Magnetic break solution especially for fine metallic yarns. Tension is given to the bobbin instead of yarn.

## Layout



## Technical Data

Take-up speed	Up to 200 meters/minute, independent each spindle
Mains voltage	200-240V 1-Phase-3 Phase or 380V 3 Phase (with neutral)
Max power	1 kW/Spindle
Total twisted yarn thickness	100 Nm to 0.9 Nm (90 Denier to 10.000 Denier)
Take-up cone size	160 mm length double flanged tube
Maximum take-up cone diameter	160 mm
Supply bobbin size	Any size
Yarn break sensors	On optional external creel. Wiring is provided for custom creels
Max. yarn plies to be twisted	Unlimited
Take up winding method	Parallel winding with precision direct traverse
Length control	Individual operation for each spindle, feedback from winding drum
Automatic stop	Yarn break, bobbin full, cover open, emergency, overload, etc.

**DirecTwist® 2D6”**

# DirecTwist® 2D10”L

Up to 6.000 Tw/min, 1.200 Tw/mt

For Twisting Any Material in Yarn Form

### Twisting and Covering are easier than ever!

■ Different threading method allows creating great variety of twisting structures easily. Both TWISTING and COVERING processes are possible on the same machine.



### Twisting and winding with zero friction

■ Due to the ceramic rollers, yarns move without lateral and axial frictions up to the take up unit.



### Parallel Winding with Direct Traverse

■ Take up winding method is parallel winding with direct traverse.



### Easy to use touch screen operator

■ Easy to use touch screen operator terminal allows independent control of each spindle. Stylish buttons for programming and indicators for error messages.

### Ultra sensitive optical yarn sensors

■ When yarn breaks it stops the machine automatically. Therefore it protects the machine and yarn quality. Ensures the desired quality and size of the yarns.



### Capabilities

- ✓ ✓ ✓ Cotton/Wool/Acrylic
- ✓ ✓ ✓ Polyester/Elastane
- ✓ ✓ ✓ Nylon/Polypropylene
- ✓ ✓ ✓ Aramid
- ✓ ✓ ✓ Glass/Carbon
- ✓ ✓ ✓ Fine Metal Wire

### AGTEKS Signature in Tech-Textile

Inspired from D6” series and developed for thick yarns and big packages. It allows you twist or cover numerous yarns together mostly in one operation.

## Optional Devices

**Creel Unit**

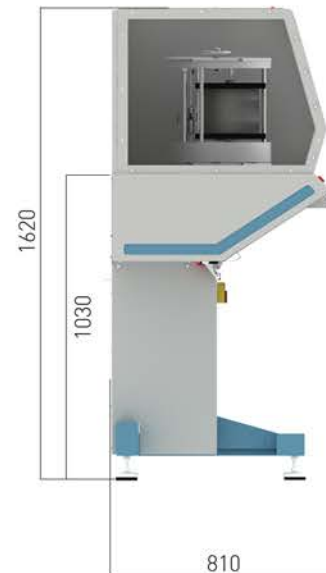
Creel Unit allows to control many yarns during the operation. In case of yarn break it stops the machine. The tension on the yarn is adjustable with weight-disc tensioners.

**Servo Bobbin Feeder**

Servo Feeder can control the velocity according to the tension. It can reach up to 200 meters/minute in case of constant tension.

There is no friction on the yarn since the yarn is always passed over on the ceramic rollers.

## Layout



**DirectTwist® 2D10" L**

## Technical Data

Take-up speed	Up to 200 meters/minute, independent each spindle
Mains voltage	200-240V 1-Phase-3 Phase or 380V 3 Phase (with neutral)
Max power	1.5 kW/Spindle
Total twisted yarn thickness	100 Nm to 0.5 Nm (90 Denier to 20.000 Denier)
Take-up cone size	250 mm length double flanged tube
Maximum take-up cone diameter	250 mm
Supply bobbin size	Any size
Yarn break sensors	On optional external creel. Wiring is provided for custom creels
Max. yarn plies to be twisted	Unlimited
Take up winding method	Parallel winding with precision direct traverse
Length control	Individual operation for each spindle, feedback from winding drum
Automatic stop	Yarn break, bobbin full, cover open, emergency, overload, etc.

# DirecTwist® 2D10”

Up to 10.000 Tw/min, 1.000 Tw/mt

For Twisting  
Technical Yarns

### Twisting and Covering are easier than ever!

- Different threading method allows creating great variety of twisting structures easily. Both TWISTING and COVERING processes are possible on the same machine.



### Parallel Winding with Direct Traverse

- Take up winding method is parallel winding with pitch adjustable direct traverse.



### Flexibility

- Possibility to wind both cylindrical and pine apple shape bobbin especially for glass and basalt yarns.



### Easy to use touch screen operator

- Easy to use touch screen operator terminal allows independent control of each spindle. Stylish buttons for programming and indicators for error messages.



### Ultra sensitive optical yarn sensors

- When yarn breaks it stops the machine automatically. Therefore it protects the machine and yarn quality. Ensures the desired quality and size of the yarns.



### Capabilities

✓	✓	✓	Cotton/Wool/Acrylic
✓	✓	✓	Polyester/Elastane
✓	✓	✓	Nylon/Polypropylene
✓	✓	✓	Aramid
✓	✓	✓	Glass/Carbon
✗			Fine Metal Wire

### AGTEKS Signature in Tech-Textile

The milestone machine of technical textile industry. It has proven itself with its innovative designs and achievements. It has been designed for produce the best quality twisted or covered technical yarns.

## Optional Devices

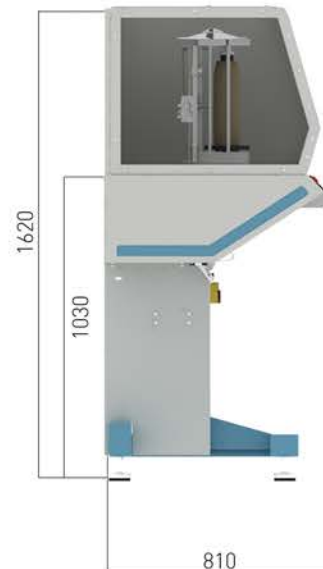
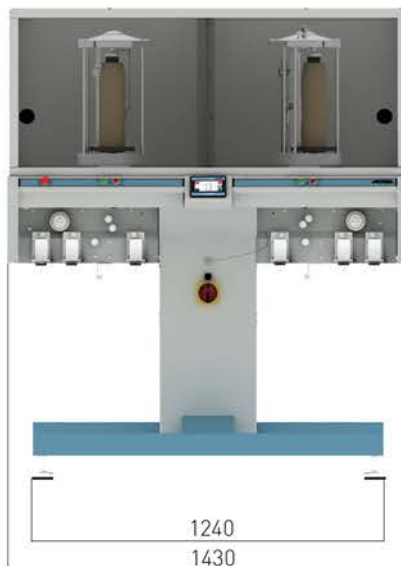
**Creel Unit**

Creel Unit allows to control many yarns during the operation. In case of yarn break it stops the machine. The tension on the yarn is adjustable with weight-disc tensioners.

**Servo Bobbin Feeder**

Servo Feeder can control the velocity according to the tension. It can reach up to 200 meters/minute in case of constant tension. There is no friction on the yarn since the yarn is always passed over on the ceramic rollers.

## Layout



**DirectTwist® 2D10™**

## Technical Data

Take-up speed	Up to 200 meters/minute, independent each spindle
Mains voltage	200-240V 1-Phase-3 Phase or 380V 3 Phase (with neutral)
Max power	1 kW/Spindle
Total twisted yarn thickness	100 Nm to 0.9 Nm (90 Denier to 10.000 Denier)
Take-up cone size	345 mm length single flanged tube
Maximum take-up cone diameter	160 mm
Supply bobbin size	Any size
Yarn break sensors	On optional external creel. Wiring is provided for custom creels
Max. yarn plies to be twisted	Unlimited
Take up winding method	Parallel winding with precision direct traverse
Length control	Individual operation for each spindle, feedback from winding drum
Automatic stop	Yarn break, bobbin full, cover open, emergency, overload, etc.

# DirecTwist® 2EX™

Up to 10.000 Tw/min, 1.000 Tw/mt

**For Twisting Industrial Yarns With Electronic Layout System**

### Precise yarn feeding systems

- Ultra-light yarn feeder system with internal clutch force avoids dynamic friction on the yarn.



### Electronic Layout System

- Possibility of winding on cylindrical bobbins as well as precision winding to single or double sided layout.



### Twisting and Covering are easier than ever!

- Different threading method allows creating great variety of twisting structures easily. Both TWISTING and COVERING processes are possible on the same machine.



### Easy to use touch screen operator

- Easy to use touch screen operator terminal allows independent control of each spindle. Stylish buttons for programming and indicators for error messages.



### Optional Programmable Elastane Feeder

- Optional programmable precise elastane feeding device allows 10% to 90% feeding rate in most twist range. Possibility of twisting elastane with any kind of fibers.

### Capabilities

- ✓ ✓ ✓ Cotton/Wool/Acrylic
- ✓ ✓ ✓ Polyester/Elastane
- ✓ ✓ ✓ Nylon/Polypropylene
- ✓ ✓ ✓ Aramid
- ✓ ✓ ✓ Glass/Carbon
- ✓ Fine Metal Wire

### Precision Twisting and Winding

World's first multifunction cone to cone twisting machine with electronic layout system.



## Optional Devices

**Servo Bobbin Feeder**

Servo Feeder can control the velocity according to the tension. It can reach up to 200 meters/minute in case of constant tension. There is no friction on the yarn since the yarn is always passed over on the ceramic rollers.

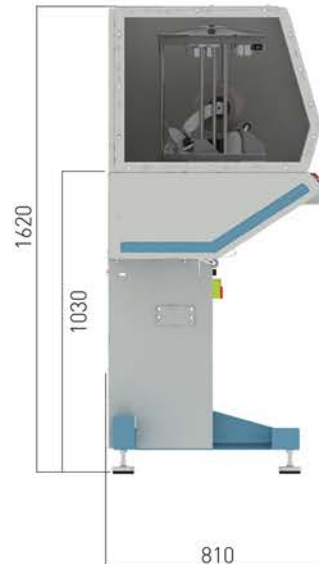
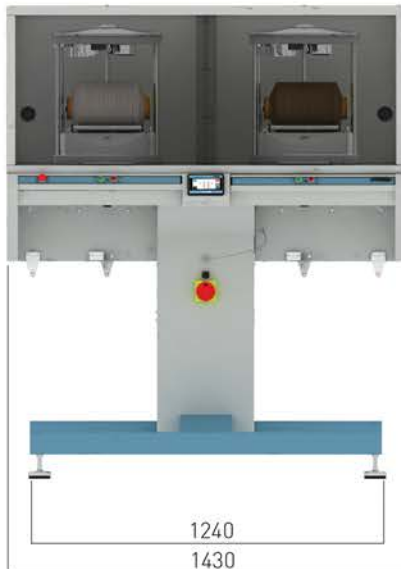
**PreTwist Unit**

The pre-twisting machine is designed to make the S+Z operation in single step. Up to 7 Pretwist machine can be connected to any spindle.

**Creel Unit**

Creel Unit allows to control many yarns during the operation. In case of yarn break it stops the machine. The tension on the yarn is adjustable with weight-disc tensioners.

## Layout



**DirecTwist® 2EX™**

## Technical Data

Take-up speed	Up to 200 meters/minute, independent each spindle
Mains voltage	200-240V 1-Phase-3 Phase or 380V 3 Phase (with neutral)
Max power	1.5 kW/Spindle
Total twisted yarn thickness	100 Nm to 0.5 Nm (90 Denier to 20.000 Denier)
Take-up cone size	120 to 290 mm electronically adjustable and freely programmable
Maximum take-up cone diameter	260 mm
Supply bobbin size	Any size
Yarn quality sensor	Quality Eye sensor by AGTEKS after twisting process
Max. yarn plies to be twisted	Unlimited
Length control	Individual operation for each spindle, feedback from winding drum
Automatic stop	Yarn break, bobbin full, cover open, emergency, overload, etc.

# DirectCover 2S

Up to 6.000 Rpm, 6.500 Tw/mt



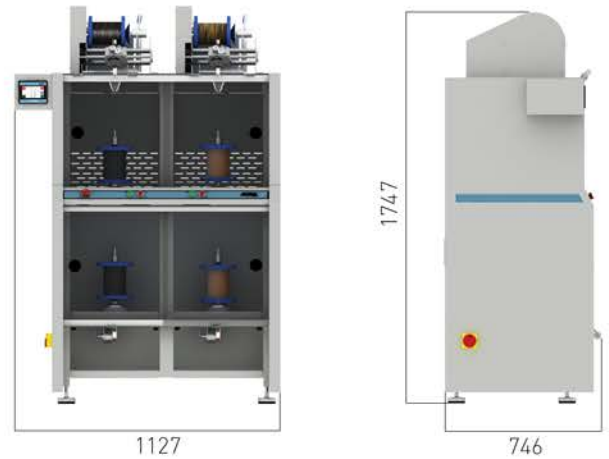
## Capabilities

- ✓ ✓ ✓ Cotton/Wool/Acrylic
- ✓ ✓ ✓ Polyester/Elastane
- ✓ ✓ ✓ Nylon/Polypropylene
- ✓ ✓ ✓ Aramid
- ✓ ✓ ✓ Glass/Carbon
- ✓ ✓ ✓ Fine Metal Wire

## Fine Covering for Technical Yarns

To cover any yarn type material tightly for protection and durability.

## Layout



## Technical Data

Take-up speed	Up to 20 meters/minute
Mains Voltage	200-240V 1 Phase-3 Phase or 380 V 3-Phase (with neutral)
Max. power/spindle	0.75 kW
Take-up cone size	160 mm - 250 mm lenght double flanged cone
Max. yarn plies for core yarn	Unlimited
Bobbin Size	Up to 95 mm inner, 310 mm outer diameter, 290 mm lenght
Lenght Control	Individual operation for each spindle feedback from encoder
Automatic stop	Yarn break, emergency, overload.

# TechnoWinder

Up to 1.000 mt/min



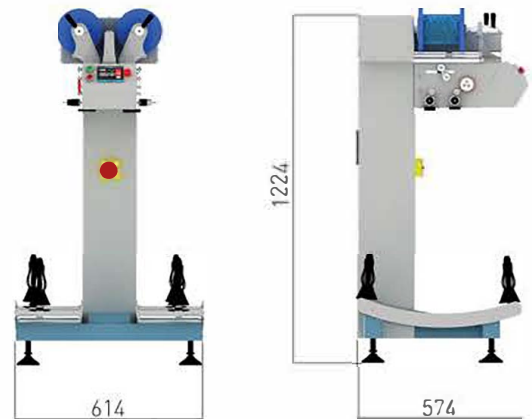
## Capabilities

- ✓ ✓ ✓ Cotton/Wool/Acrylic
- ✓ ✓ ✓ Polyester/Elastane
- ✓ ✓ ✓ Nylon/Polypropylene
- ✓ ✓ ✓ Aramid
- ✓ ✓ ✓ Glass/Carbon
- ✓ ✓ ✓ Fine Metal Wire

## Winding to Double Flanged Cone

Precision parallel winding to any kind of double flanged cone.

## Layout



## Technical Data

Mains Voltage	200-240V 1-Phase, 50-60Hz, 0.15 kW
Weight	70 kg (154 lbs)
Feeding Bobbin Weight	Up to 5 kg (11 lbs)
Bobbin Holders	Adjustable
Supply bobbin size	Any size
Bobbin Size	Up to 160 mm diameter, 240 mm length
Yarn break sensors	Optical Sensors
Automatic stop	Yarn break, emergency

# PreTwist C

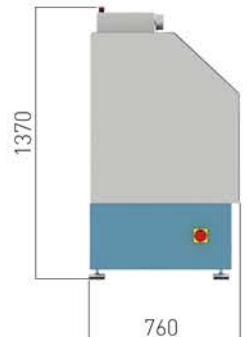
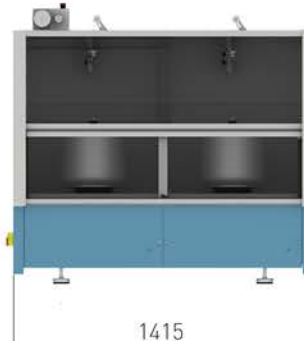
Up to 18.000 Tw/min



## Capabilities

- ✓ ✓ ✓ Cotton/Wool/Acrylic
- ✓ ✓ ✓ Polyester/Elastane
- ✓ ✓ ✓ Nylon/Polypropylene
- ✓ ✓ ✓ Aramid
- ✗ ✗ Glass/Carbon
- ✗ ✗ Fine Metal Wire

## Layout



## Twisting S+Z in One Operation

For make S+Z twisting by two for one principle in single step. Up to 7 Pretwist machine can be connected to any spindle.

## Technical Data

Twisting range	3 to 2.000 twist/meter, independent each spindle
Total twisted yarn thickness	100 Nm to 0.9 Nm (90 denier to 10.000 denier)
Take-up winding method	Through a DirecTwist
Yarn break sensors	Optical sensors for each position
Supply bobbin size	Any size
Automatic stop	Yarn break, emergency

# Servo Bobbin Feeder

Up to 200 mt/min



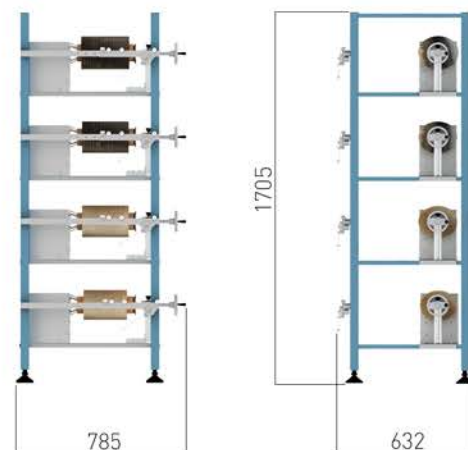
## Capabilities

- ✓ ✓ ✓ Cotton/Wool/Acrylic
- ✓ ✓ ✓ Polyester/Elastane
- ✓ ✓ ✓ Nylon/Polypropylene
- ✓ ✓ ✓ Aramid
- ✓ ✓ ✓ Glass/Carbon
- ✓ ✓ ✓ Fine Metal Wire

## For Feeding Delicate Yarns

Constant yarn tension system for feeding delicate yarns.

## Layout



## Technical Data

Mains Voltage	200-240V 1-Phase, 50-60Hz, 0.15 kW
Weight	15 kg [33 lbs]
Feeding Bobbin Weight	Up to 6 kg [13 lbs]
Bobbin Holders	Adjustable by threaded shaft holder
Tensioning	Adjustable
Bobbin Size	Up to 95 mm inner diameter, 310 mm outer dia., 290 mm length
Yarn break sensors	Magnetic electronic
Automatic stop	Yarn break, emergency

# Creel Unit

Up to 200 mt/min



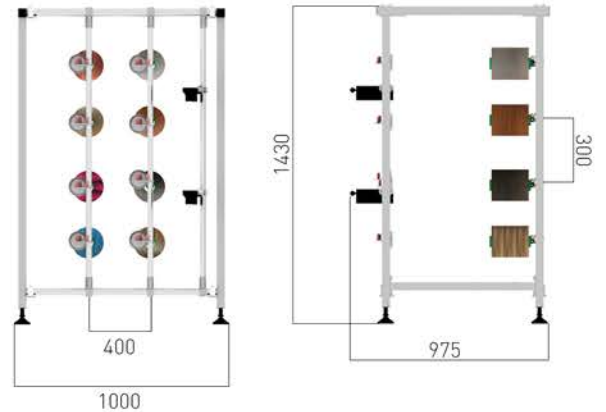
## Capabilities

- ✓ ✓ ✓ Cotton/Wool/Acrylic
- ✓ ✓ ✓ Polyester/Elastane
- ✓ ✓ ✓ Nylon/Polypropylene
- ✓ ✓ Aramid
- ✓ Glass/Carbon
- ✓ Fine Metal Wire

## For Feeding Industrial Yarns

Creel Unit allows to control many yarns during the operation. In case of yarn break it stops the machine. The tension on the yarn is adjustable with weight-disc tensioners.

## Layout



## Technical Data

Number of supply bobbin positions	4 to 100
Supply bobbin size	Any size
Yarn break sensors	Mechanical yarn break sensors
Yarn brakes	Weight-disc tensioners for every bobbin
Yarn feeding positions	Left or right. Direction should be stated during order

# Magnetic Creel

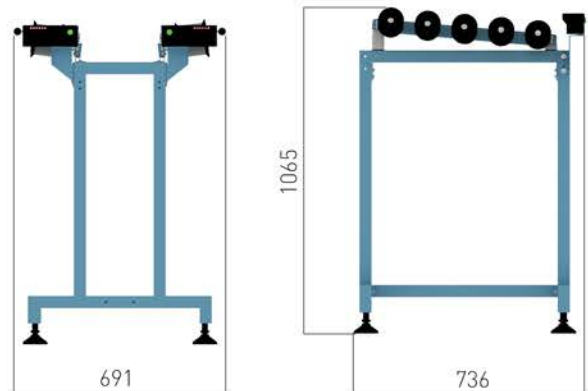
Up to 1.000 mt/min



## Magnetic Break Solution

Magnetic break solution especially for fine metallic yarns. Tension is given to the bobbin instead of yarn.

## Layout



## Technical Data

Weight	20 kg (44 lbs)
Feeding Bobbin Weight	Up to 3 kg (11 lbs)
Bobbin Holders	Adjustable
Bobbin Size	Up to 100 mm diameter, 170 mm length
Yarn break sensors	Mechanical yarn break sensors
Automatic stop	Yarn break

# IntelliWinder®

## Intelligent Unraveling Machine

### For Flat Knitted Fabrics



#### Easy in operation via touching a button

- By intelligent software, the buttons for individual systems act accordingly within the same group of unraveling system. By pressing down any of the buttons commencing or ceasing all the group is possible. They work harmoniously owing to being members of the same team.



#### Precisely engineered

- Hard coated, light alloy winding drum with low inertia for energy saving. Specially designed yarn guide ways on the drum evades hazards to the yarn and prevents yarn jumps on the bobbin during process of braking. Toothed surface improves short



#### Intelligent Control Software

- What the operator needs is only to guide the yarns and directing some yarn & fabric parameters via user friendly touch-screen panel. All the rest to do is IntelliWinder's job.



#### Ergonomic indicators for each system

- Helps operator to be much more aware of the work done even while unraveling more complex fabric. Offers eligible application techniques and of course is human friendly.



#### Ultra sensitive tension / reservoir system

- As a novelty, reversibility, low inertia & hardened surfaced double yarn feeders decrease the undesired friction effects during tensioning and loosening of the yarn. Undoubtedly, eligible for weak yarns such as your valuable cashmere which is really delicate and vulnerable at the process of unraveling.

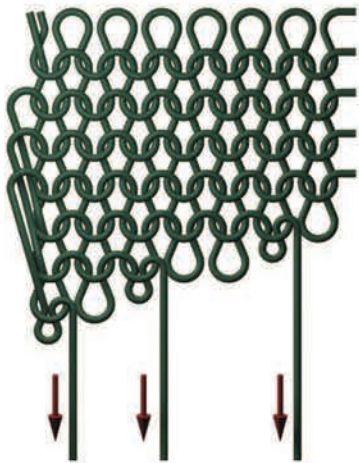


#### A revolutionary invention

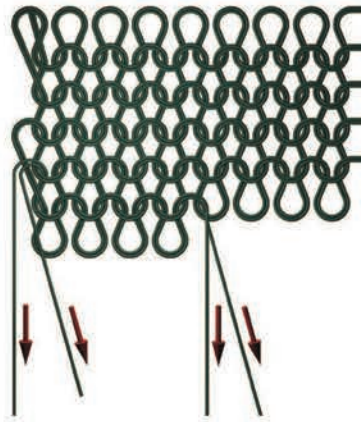
- The newly developed multi-count yarn tension compensation device, which operates fluently under varying tension and length conditions of the unraveling yarn. This feature is ideal for plating patterns.



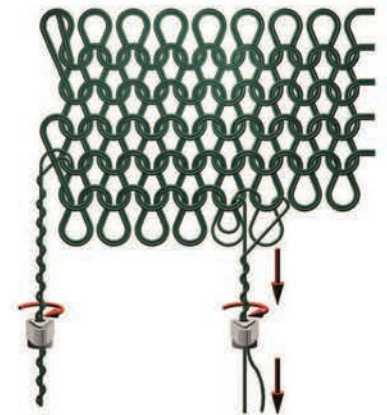
### Operation Modes



Unraveling single end yarns

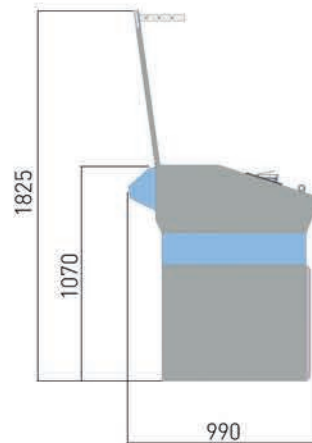
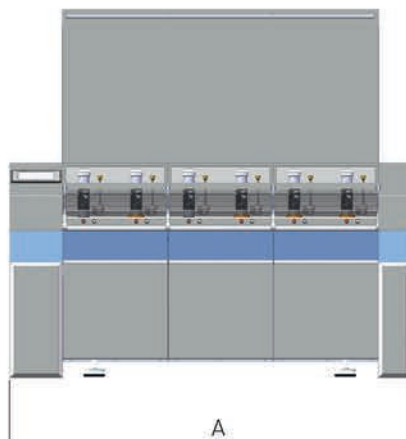


Unraveling multi end yarns with separation



Unraveling multi end yarns without separation

### Layout



IntelliWinder®

### Technical Data

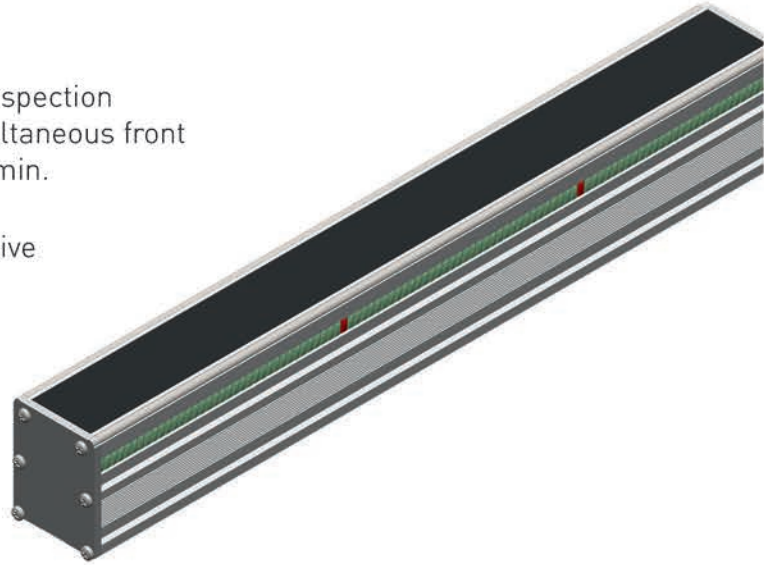
No of unraveling units	6	8	10	12
Dimensions (A)	1910 mm	2410 mm	2910 mm	3410 mm
Power	1.3 KVA	1.7 KVA	2.1 KVA	2.5 KVA
Winding Speed	0-300 m/min (all the systems can be adjusted individually)			
Programmable grouping modes	Different grouping methods for different number of ends			
Yarn tension adjustment	Via operation panel, by ultra sensitive, precise servo-regulator			
Individual indicators on each system	System Cancel, Tension, Sense, Overload, Yarn Flow Rate			
Fabric fixing	By special ball-point needles, which allow easy fixing of knit fabrics			
Automatic stop	Yarn breakage, entanglement, bobbin limit, misguided yarns, etc.			

## Fabric Scanners

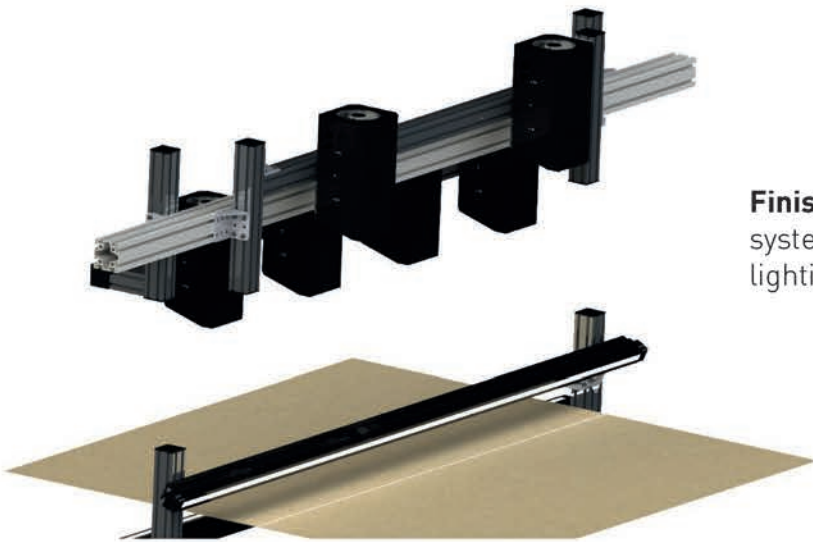
**Quality Bar** is a genuine high-resolution online fabric inspection system with multi-modes scanning processes and simultaneous front & back lighting with RGB+IR light sources up to 100 m/min.

**Shade Bar** is an online shading system with high-sensitive spectrophotometer with up to 6 modules on the fabric.

**DigiDrop** is an online digital dropwire system with high resolution optical sensors to sense yarn breaks and defects for wrapping and rebeaming process up to 600 m/min.



**Finishing Bar** is a high-resolution online fabric inspection system for fabric finishing process with back & front lighting as mono and colored up to 450 m/min.

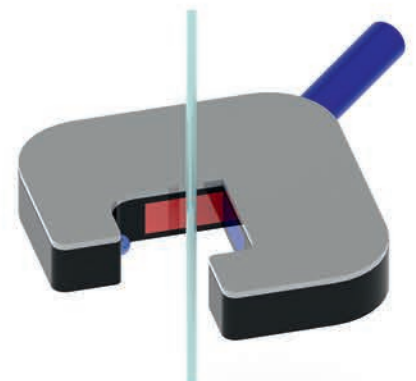


## Yarn Scanners

**Quality Eye** is a solid state online yarn quality sensor with scanning technology for twisting processes up to 60 m/min.

**High Speed Quality Eye 1D** is a solid state one dimensional online yarn quality sensor using scanning technology is designed to sense high sensitive dtex/denier value for the spinning lines up to 6000 m/min.

**High Speed Quality Eye 2D** is a solid state two dimensional online yarn quality sensor using scanning technology is designed to sense ultra high sensitive dtex/denier value for the spinning lines up to 3000 m/min.



- The graphical images in this brochure are only for representation of the machines jobs. Actual products of machines may differ from the graphical images due to yarn materials and counts.
- The maximum and minimum values given above are machines limits on proper conditions. The actual values may be different due to yarn materials, counts and environmental conditions.
  - All the contents of this brochure are subject to change without prior notice.
  - International patents pending.
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