



**MACHINERY FOR THE PRODUCTION OF FANCY YARNS,  
TECHNICAL YARNS, SPECIAL YARNS AND CHENILLE**

**GENERAL CATALOGUE**

**GUALCHIERI**  **GUALCHIERI**

==== MADE IN ITALY SINCE 1973 =====



**GUALCHIERI E GUALCHIERI**  
**SINCE 1973 MANY SOLUTIONS TO INCREASE**  
**YOUR BUSINESS EFFICIENCY**

Gualchieri e Gualchieri & C Srl is a world leader manufacturer of textile machinery.

The company was born in a little garage in the province of Prato at the beginning of the 70's and has managed to grow in a short time, penetrating the market and being recognized as a quality and efficiency brand by the major yarn producers worldwide.

We have been manufacturing machinery for Fancy Yarns, Technical Yarns, Special Yarns and Chenille Yarn since 1973, providing the customers with our multi-decade know-how plus the added value of the 100% Made in Italy production.

Our technical department, in synergy with the production and assembly team, is constantly working to study the best solutions to the requests of each customer, designing machinery aimed at maximizing the production, minimizing the energy consumptions and always ensuring the highest level of security and comfort of the operators that materially use our machines.

Focal point of the design of our machines is to ensure the quality, the versatility and the flexibility always considering the environmental and energy sustainability and offering machines of different sizes to meet any production need optimizing the energy efficiency.

Reason of pride is our efficient spare parts service and after sale assistance that respond quickly to any request and ensure our customers the best working and production conditions.

The optimization of the mechanical design is supported by an easy and intuitive machine operation experience that is ensured by the management and control operating system implemented in our machines, entirely developed by us and based on INDUSTRY 4.0 principles, that, together with our other software tools, offers our customers a capillary management of all Gualchieri e Gualchieri machines.

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**EXPERIENCE, CREATIVITY AND PASSION**  
**TODAY AS YESTERDAY A STORY OF SUCCESS**

Our technical office provides its know-how and its experience to meet customers' requests manufacturing custom made machinery and always being updated on technological improvements available on the market, so as to ensure strong but progressive solutions to guarantee the customer the best production performance even as time goes by.

The production of most of the mechanical components used in our machines is carried out in our manufacturing department, inside our company that is equipped with state-of-the art numerical controlled machines. What cannot be manufactured internally is entrusted to local or national producers with whom we have solid and historical professional relationships. This enables us to ensure a control and a high quality level of these components that are delivered in short times, that is an added value of Made in Italy, without the typical long waits in case of foreign suppliers.

The assembly team pre-assembles the machines in our department and controls every machine before delivery, making sure that they meet our high quality and performance standards and determining the performance of every component both mechanical and electronic as well as sensors used as in working conditions, as an additional layer of quality control. The machines will then be disassembled and re-assembled by our installation technicians at customers' premises to be put in production.

Our software engineers constantly update our softwares to keep them up with the increasingly changing market demands, ensuring the maximum safety and optimization of the machinery performance keeping the user experience almost intact. Added value of our software is provided by the remote support and the possibility of controlling the machinery also through our App on smartphone, tablet or PC.



**MADE IN ITALY**  
**MACHINERY FOR THE PRODUCTION OF FANCY YARNS,**  
**TECHNICAL YARNS, SPECIAL YARNS AND CHENILLE**

**FANCY AND TECHNICAL YARNS**

Fanta **ONE**

Fanta **ROC-FIL**

Fanta **ROC**

Fanta **FILO-ROC**

Fanta **FILO**

Fanta **SPIN**

Fanta **EXTRA-FC1**

Fanta **EXTRA-FC2**

Fanta **BFL**

**SPECIAL YARNS**

Spike **FILO-AIR**

**CHENILLE YARN**

EPT **CHENILLE**

	Fanta <b>ONE</b>	Fanta <b>ROC-FIL</b>	Fanta <b>ROC</b>	Fanta <b>FIL0-ROC</b>	Fanta <b>FIL0</b>	Fanta <b>EXTRA-FC1</b>	Fanta <b>EXTRA-FC2</b>	Fanta <b>SPIN</b>
<b>WORKING MODALITIES</b>								
FantaROC-FC1/FantaEXTRA-FC1	.	.	.	.	.	.	.	.
FantaROC/FantaEXTRA-FC2	.	.	.	.	.	.	.	.
FantaFIL0	.	.	.	.	.	.	.	.
FantaSPIN	.	.	.	.	.	.	.	.
FantaBFL	.	.	.	.	.	.	.	.
<b>FEEDING</b>								
FL: from yarn	.	.	.	.	.	.	.	.
From roving / from sliver	.	.	.	.	.	.	.	.
- ST1 (1 draft)	.	.	.	.	.	.	.	.
- ST2 (2 drafts)	.	.	.	.	.	.	.	.
- ST3 (3 drafts)	.	.	.	.	.	.	.	.
<b>PRODUCTION</b>								
1 <sup>ST</sup> Hollow spindle	.	.	.	.	.	.	.	.
2 <sup>ND</sup> Hollow spindle	.	.	.	.	.	.	.	.
<b>TAKE-UP</b>								
<b>BOBBIN</b>								
Standard bobbin 450 mm	.	.	.	.	.	.	.	.
Special bobbin 600 mm	.	.	.	.	.	.	.	.
<b>CONE</b>								
Incorporated winding unit	.	.	.	.	.	.	.	.
External winding unit	.	.	.	.	.	.	.	.
<b>OPTIONAL ACCESSORIES</b>								
Needle heads	optional	optional	optional	optional	optional	optional	optional	optional
Air-jet application	optional	optional	optional	optional	optional	optional	optional	optional
Insertion bars	optional	optional	optional	optional	optional	optional	optional	optional
Independently controlled false twist	optional	optional	optional	optional	optional	optional	optional	optional
Final yarn detectors	optional	optional	optional	optional	optional	optional	optional	optional
Stop motions for core yarn	optional	optional	optional	optional	optional	optional	optional	optional
Creel from cans	optional	optional	optional	optional	optional	optional	.	.
Creel from roving bobbins	.	.	.	.	.	.	optional	optional
Creel from yarn	optional	.	.	.	optional	optional	.	.
Core roller	.	.	.	.	.	.	.	optional
<b>TYPE OF YARNS</b>								
Yarns for hand knitting	.	.	.	.	.	.	.	.
Yarns for machine knitting	.	.	.	.	.	.	.	.
Yarns for weaving apparel/upholstery fabrics	.	.	.	.	.	.	.	.
Yarns for apparel fabrics	.	.	.	.	.	.	.	.
Yarns for upholstery fabrics	.	.	.	.	.	.	.	.
Technical yarns	.	.	.	.	.	.	.	.
Protech	.	.	.	.	.	.	.	.
Mobiltech	.	.	.	.	.	.	.	.
<b>VERSION</b>								
Modular: from 1 to 6 independent sections	.	.	.	.	.	.	.	.
EP: 18/24 positions	.	.	.	.	.	.	.	.
HP: from 8 to 168 positions	.	.	.	.	.	.	.	.

# Fanta ONE

**THE LABORATORY FRAME FOR THE PRODUCTION OF HIGH QUALITY YARNS**  
**ONE MACHINE: FIVE WORKING MODALITIES**

## WORKING MODALITIES

<b>Fanta ROC-FC1</b>	One hollow spindle (one binding yarn) and take-up on incorporated cone
<b>Fanta ROC</b>	Two hollow spindles (two binding yarns) and take-up on incorporated cone
<b>Fanta FILO</b>	One hollow spindle and take-up on bobbin
<b>Fanta SPIN</b>	Direct spinning bypassing the hollow spindle and take-up on bobbin
<b>Fanta BFL</b>	Preparation of the flanged bobbins with binding yarn

## PRODUCTION FACILITIES

- Management software with simple and intuitive interface
- Yarn programmes and working modalities software-selectable
- Industry 4.0 ready
- Remote assistance that can be enabled directly from the machine PC
- Energy G MONITORING for the real time measurement of the electrical power consumption upon request

## DESCRIPTION

Our FANTAONE is a laboratory machine for the production of high quality samples of all the yarns that can be produced on any of our machine models. It has been specially designed for technical institutes as well as for the yarn manufacturers that want to develop new yarn samples without stopping their production. The machine produces FANCY TWISTED YARNS and TECHNICAL YARNS from roving (roving frame or finisher) with one or two hollow spindles, ring rail and winding group.

The drafting group may feature one, two or three drafts and can process both short staple cotton fibers and long staple woollen fibers. It is possible to feed the machine also from yarn (YARN TO YARN) and from sliver in cans with suitable external creels that can be supplied upon request. The bottom hollow spindle can be used as a take-up spindle by means of special adaptors developed by us.

The yarn programmes created on the machine are used directly on the production machines which makes the FANTAONE essential for the spinning mills. The machine can also be used as a BOBBIN WINDER to prepare the flanged bobbins with the binding yarn. Upon request it is possible to supply different types of needle heads to install in place of the hollow spindles to produce SPECIAL YARNS like TUBE YARNS, TUBE FILLED YARNS and AIRJET SOFTKNIT YARNS. The conversion is a simple and quick operation.

## TYPE OF YARNS

- Yarns for hand knitting
- Yarns for knitting
- Yarns for weaving
- Yarns for apparel fabrics
- Yarns for upholstery fabrics
- Technical yarns
- Protech
- Mobiltech

## OPTIONAL ACCESSORIES

- Needle heads
- Air-jet application
- Injection bars
- Independently controlled false twist
- Final yarn detectors
- Stop-motions for the core yarn
- Creel from cans
- Creel from yarn

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## BOBBIN WINDER FUNCTION

Preparation of the flanged bobbins with binding yarn:

- Cylindric shape
- Bottle shape



## REAR WINDING UNIT

- Take-up on cone



## FEEDING

- FL:** yarn to yarn (adding an external creel upon request)
- ST:** drafts from roving or sliver (creel from cans optional upon request)
- ST1 (1 draft)
- ST2 (2 drafts) Suitable also for short fibers (cotton type)
- ST3 (3 drafts)



## 1<sup>ST</sup> HOLLOW SPINDLE

- Flanged bobbin for binding yarn



## 2<sup>ND</sup> HOLLOW SPINDLE

- Flanged bobbin for binding yarn



## 2<sup>ND</sup> HOLLOW SPINDLE

- Take-up bobbin

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# Fanta ROC-FIL

**MANY SOLUTIONS IN ONE SINGLE MACHINE**  
**ONE MACHINE: FOUR WORKING MODALITIES**

## WORKING MODALITIES

- Fanta ROC-FC1** One hollow spindle (one binding yarn) and take-up on external cone
- Fanta ROC** Two hollow spindles (two binding yarns) and take-up on external cone
- Fanta FILO** One hollow spindle and take-up on bobbin
- Fanta SPIN** Direct spinning bypassing the hollow spindle and take-up on bobbin

## DESCRIPTION

Our FANTAROC-FIL frame produces FANCY TWISTED YARNS and TECHNICAL YARNS from roving (roving frame or finisher), from sliver in cans and from yarn. The drafting group may feature one, two or three drafts and can process both short staple cotton fibers and long staple woollen fibers. To produce yarns from yarn (YARN TO YARN) there is a feeding creel on top of the external winding unit.

The highlight of this machine is its versatility due to the possibility of using several working modalities by leveraging and combining the two hollow spindles, the ring rail and the external winding unit. In fact by means of special adaptors developed by us it is possible to transform the bottom hollow spindle into a take-up ring spindle which makes the machine suitable for any production requirement. The external winding unit allows to reduce the length of the machine compared to a model with double hollow spindle and incorporated take-up cones. This machine model is produced by us for over 20 YEARS and it has been very successful since the beginning for its flexibility and for the wide range of yarns that can be produced on one single machine. Upon request it is possible to supply different types of needle heads to install in place of the hollow spindles to produce SPECIAL YARNS like TUBE YARNS, TUBE FILLED YARNS and AIRJET SOFTKNIT YARNS. The conversion is a simple and quick operation.



## PRODUCTION FACILITIES

- Management software with simple and intuitive interface
- Yarn programmes and working modalities software-selectable
- Industry 4.0 ready
- Remote assistance that can be enabled directly from the machine PC
- Energy Recovery System for the optimization of the electrical consumption
- Energy G MONITORING for the real time measurement of the electrical power consumption upon request

## TYPE OF YARNS

- Yarns for hand knitting
- Yarns for knitting
- Yarns for weaving
- Yarns for apparel fabrics
- Yarns for upholstery fabrics
- Technical yarns
- Protech
- Mobiltech

## OPTIONAL ACCESSORIES

- Needle heads
- Air-jet application
- Injection bars
- Independently controlled false twist
- Final yarn detectors
- Stop-motions for the core yarn
- Creel from cans

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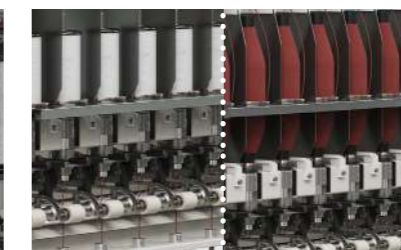
## FEEDING

- FL:** from yarn
- ST:** from roving or sliver (creel from cans optional upon request)
- ST1 (1 draft)
- ST2 (2 drafts) suitable also for short fibers (cotton type)
- ST3 (3 drafts)



## 1<sup>ST</sup> HOLLOW SPINDLE

- Flanged bobbin for binding yarn



## 2<sup>ND</sup> HOLLOW SPINDLE

- Flanged bobbin for binding yarn
- Take-up bobbin



## EXTERNAL WINDING UNIT

- Take-up on cones placed on a double row

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# Fanta ROC

THE VERSATILITY OF THE DOUBLE HOLLOW SPINDLE  
ONE MACHINE: TWO WORKING MODALITIES

## WORKING MODALITIES

Fanta ROC-FC1

One hollow spindle (one binding yarn) and take-up on external cone

Fanta ROC

Two hollow spindles (two binding yarns) and take-up on external cone

## DESCRIPTION

Our FANTAROC frame produces FANCY TWISTED YARNS and TECHNICAL YARNS from roving (roving frame or finisher), from sliver in cans and from yarn with one or two hollow spindles and take-up on external cone.

The drafting group may feature one, two or three drafts and can process both short staple cotton fibers and long staple woollen fibers. To produce yarns from yarn (YARN TO YARN) there is a feeding creel on top of the external winding unit. The two hollow spindle stages are controlled independently and it is possible to use both of them to produce yarns with double binding or just one to produce yarns with single binding.

The external winding unit allows to reduce the length of the machine compared to a model with double hollow spindle and incorporated take-up cones. This machine model is produced by us for over 20 YEARS and it has been very successful since the beginning for its flexibility and for the wide range of yarns that can be produced on one single machine. Upon request it is possible to supply different types of needle heads to install in place of the hollow spindles to produce SPECIAL YARNS like TUBE YARNS.

The conversion is a simple and quick operation.

## PRODUCTION FACILITIES

- Management software with simple and intuitive interface
- Yarn programmes and working modalities software-selectable
- Industry 4.0 ready
- Remote assistance that can be enabled directly from the machine PC
- Energy Recovery System for the optimization of the electrical consumption
- Energy G MONITORING for the real time measurement of the electrical power consumption upon request

## TYPE OF YARNS

- Yarns for knitting
- Yarns for weaving
- Yarns for apparel fabrics
- Yarns for upholstery fabrics
- Technical yarns
- Protech
- Mobiltech

## OPTIONAL ACCESSORIES

- Needle heads
- Independently controlled false twist
- Final yarn detectors
- Stop-motions for the core yarn
- Creel from cans



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## FEEDING

- FL: from yarn
- ST: from roving or sliver (creel from cans optional upon request)
- ST1 (1 draft)
- ST2 (2 drafts) suitable also for short fibers (cotton type)
- ST3 (3 drafts)



## 1<sup>ST</sup> HOLLOW SPINDLE

- Flanged bobbin for binding yarn



## 2<sup>ND</sup> HOLLOW SPINDLE

- Flanged bobbin for binding yarn



## EXTERNAL WINDING UNIT

- Take-up on cones placed on a double row

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# Fanta FILO-ROC

THE FLEXIBILITY OF YARNS FOR KNITTING  
AND WEAVING  
ONE MACHINE: THREE WORKING MODALITIES

## WORKING MODALITIES

### Fanta ROC-FC1

One hollow spindle (one binding yarn) and take-up on external cone

### Fanta FILO

One hollow spindle and take-up on bobbin

### Fanta SPIN

Direct spinning bypassing the hollow spindle and take-up on bobbin

## DESCRIPTION

Our FANTAFILO-ROC frame produces FANCY TWISTED YARNS and TECHNICAL YARNS from roving (roving frame or finisher), from sliver in cans and from yarn with one hollow spindle and take-up both on external cone and on bobbin by means of ring rail.

This makes the machine suitable to any requirement. To produce yarns from yarn (YARN TO YARN) there is a feeding creel on top of the external winding unit. The drafting group may feature one, two or three drafts and can process both short staple cotton fibers and long staple woollen fibers.

This machine model represents the evolution of the FANTAROC-FIL to meet the requirements of those companies that do not need to produce yarns with a double binding but do not want to miss the possibility to take-up the yarn both on cone and on bobbin. Upon request it is possible to supply different types of needle heads to install in place of the hollow spindles to produce SPECIAL YARNS like TUBE FILLED YARNS and AIRJET SOFTKNIT YARNS. The conversion is a simple and quick operation.

## PRODUCTION FACILITIES

- Management software with simple and intuitive interface
- Yarn programmes and working modalities software-selectable
- Industry 4.0 ready
- Remote assistance that can be enabled directly from the machine PC
- Energy Recovery System for the optimization of the electrical consumption
- Energy G MONITORING for the real time measurement of the electrical power consumption upon request

## TYPE OF YARNS

- Yarns for hand knitting
- Yarns for knitting
- Yarns for weaving
- Yarns for apparel fabrics
- Yarns for upholstery fabrics

## OPTIONAL ACCESSORIES

- Needle heads
- Air-jet application
- Injection bars
- Independently controlled false twist
- Final yarn detectors
- Stop-motions for the core yarn
- Creel from cans



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## FEEDING

**FL:** yarn to yarn

**ST:** from roving or sliver (creel from cans optional upon request)

- ST1 (1 draft)
- ST2 (2 drafts) suitable also for short fibers (cotton type)
- ST3 (3 drafts)



## HOLLOW SPINDLE

- Flanged bobbin for binding yarn



## TAKE-UP RING SPINDLE

- Take-up bobbin



## EXTERNAL WINDING UNIT

- Take-up on cones placed on a double row

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# Fanta **FIL0**

THE SOFT YARN FOR KNITTING  
ONE MACHINE: TWO WORKING MODALITIES

## WORKING MODALITIES

Fanta **FIL0**

One hollow spindle and take-up on bobbin

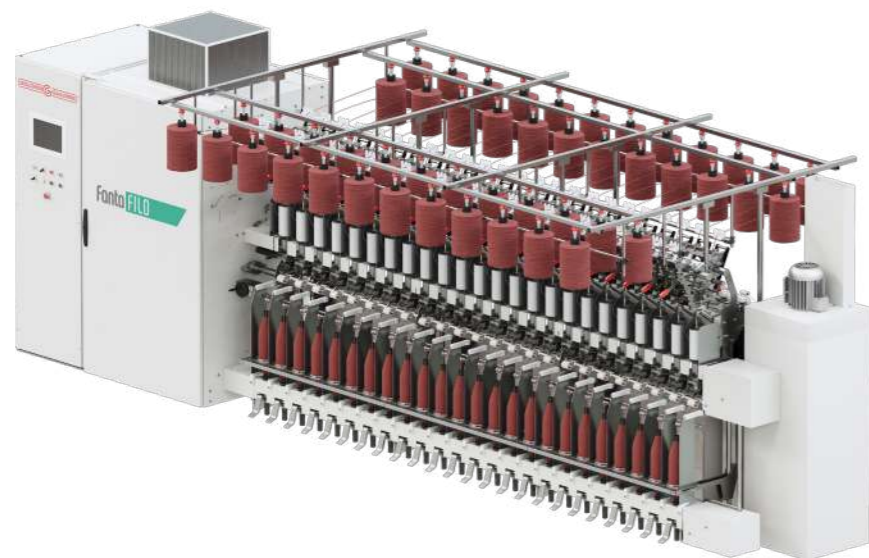
Fanta **SPIN**

Direct spinning bypassing the hollow spindle and take-up on bobbin

## DESCRIPTION

Our FANTAFILO frame produces particularly soft and bulky FANCY TWISTED YARNS from roving (roving frame or finisher) and from sliver in cans with one hollow spindle and take-up on bobbin. It is possible to feed the machine also from yarn (YARN TO YARN) with an external creel that can be supplied as an optional.

The drafting group may feature one, two or three drafts and can process both short staple cotton fibers and long staple woollen fibers. Upon request it is possible to supply different types of needle heads to install in place of the hollow spindles to produce SPECIAL YARNS like TUBE FILLED YARNS and AIRJET SOFTKNIT YARNS. The conversion is a simple and quick operation.



## PRODUCTION FACILITIES

- Management software with simple and intuitive interface
- Yarn programmes and working modalities software-selectable
- Industry 4.0 ready
- Remote assistance that can be enabled directly from the machine PC
- Energy Recovery System for the optimization of the electrical consumption
- Energy G MONITORING for the real time measurement of the electrical power consumption upon request

## TYPE OF YARNS

- Yarns for hand knitting
- Yarns for knitting

## OPTIONAL ACCESSORIES

- Needle heads
- Air-jet application
- Injection bars
- Final yarn detectors
- Stop-motions for the core yarn
- Creel from cans
- Creel from yarn

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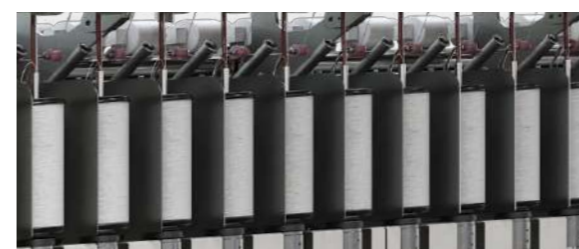


## FEEDING

**FL:** yarn to yarn (adding an external creel upon request)

**ST:** from roving or sliver (creel from cans optional upon request)

- ST1 (1 draft)
- ST2 (2 drafts) suitable also for short fibres (cotton type)
- ST3 (3 drafts)



## HOLLOW SPINDLE

- Flanged bobbin for binding yarn



## RING SPINDLE

- Take-up bobbin



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# fonta SPIN

THE TRADITIONAL CLASSICAL YARN  
MACHINE FOR THE PRODUCTION OF CLASSICAL  
PLAIN OR SLUB YARNS

## WORKING MODALITIES

fonta SPIN Direct spinning and take-up on bobbin

## DESCRIPTION

Our FANTASPIN frame produces CLASSICAL PLAIN OR SLUB YARNS from sliver in cans with direct spinning and take-up on bobbin by means of ring rail. The creel from cans is supplied according to the customer's requirements. A creel to work from roving bobbins (roving frame or finisher) can be supplied upon request. It is also possible to equip the machine with an additional roller for the core yarn and the necessary creel to produce more structured yarns.

The drafting group may feature one, two or three drafts and is optimized to process also high heavy slivers. Take-up is on maxi 600 mm bobbin to reduce the number of knots in the subsequent operations (if requested take-up can be on 450 mm bobbin).

## PRODUCTION FACILITIES

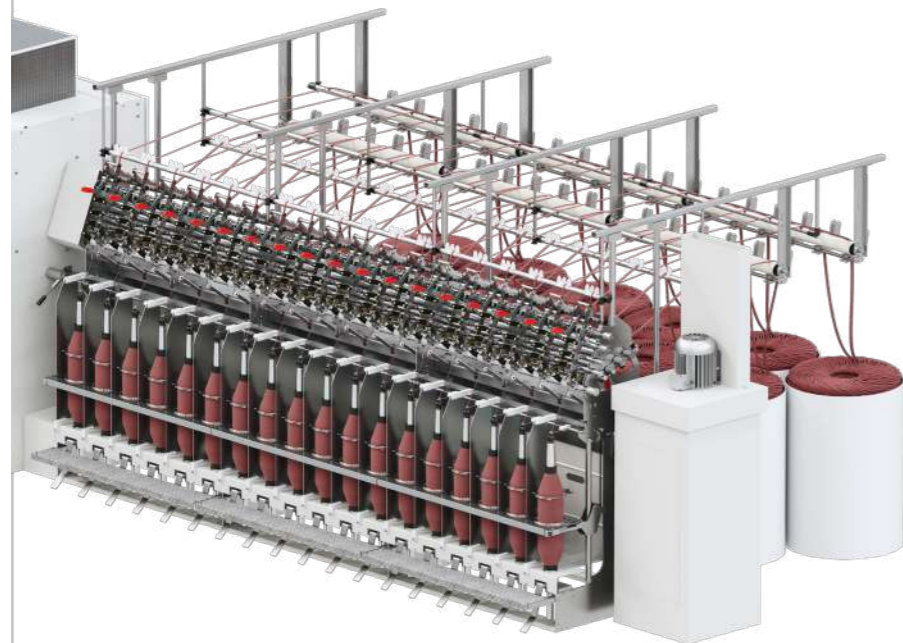
- Management software with simple and intuitive interface
- Yarn programmes and working modalities software-selectable
- Industry 4.0 ready
- Remote assistance that can be enabled directly from the machine PC
- Energy Recovery System for the optimization of the electrical consumption
- Energy G MONITORING for the real time measurement of the electrical power consumption upon request

## TYPE OF YARNS

- Yarns for hand knitting
- Yarns for knitting

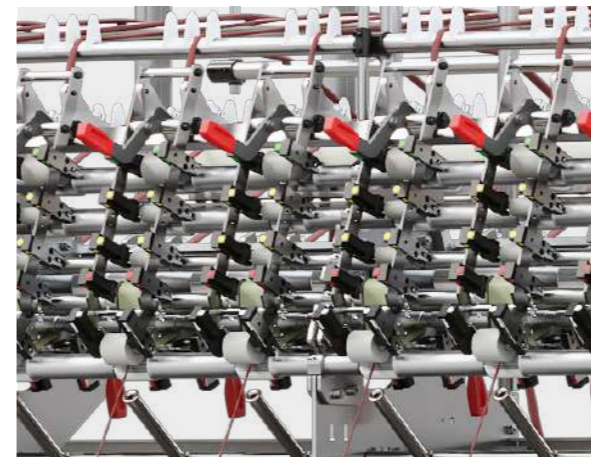
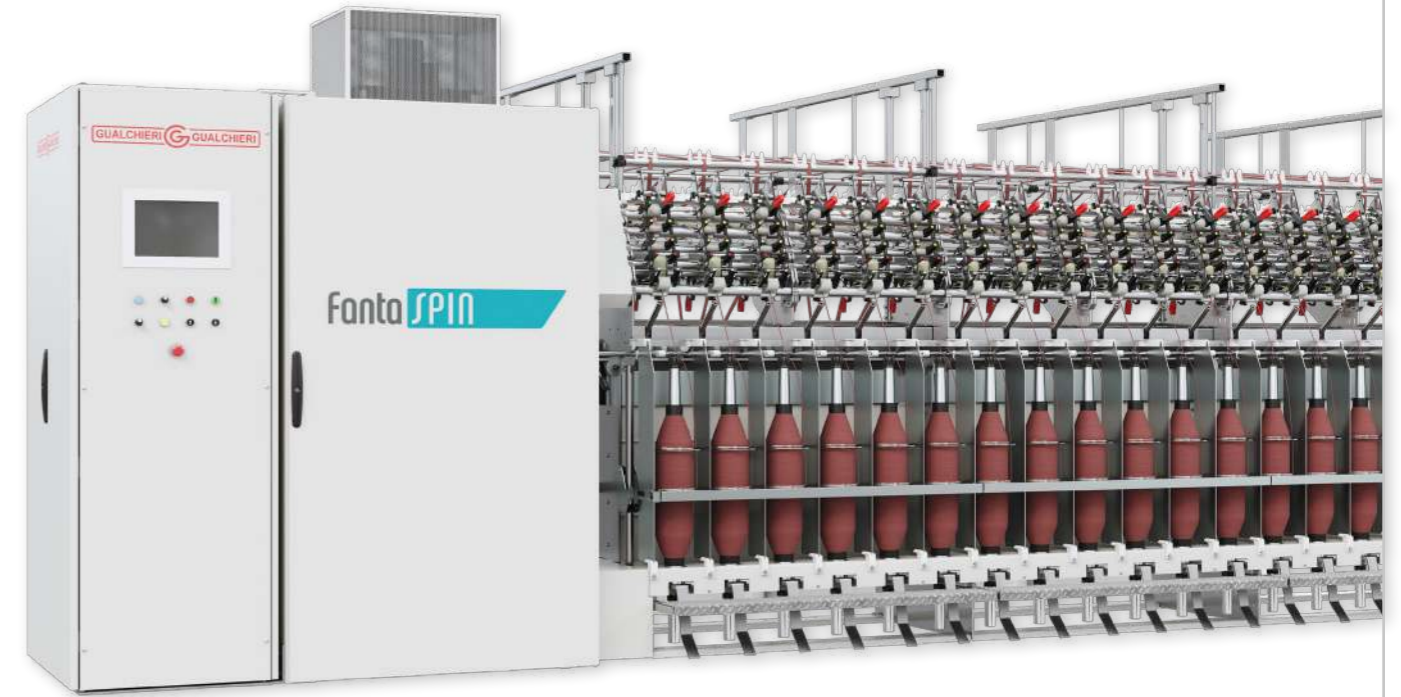
## OPTIONAL ACCESSORIES

- Final yarn detectors
- Roller and creel for core yarn
- Stop-motions for the core yarn
- Creel from roving bobbins



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## FEEDING

- ST: from sliver
- ST1 (1 draft)
- ST2 (2 drafts)
- ST3 (3 drafts)

## RING SPINDLE

- Take-up bobbin H 600 mm

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# Fanta EXTRA-FC1

THE MOST COMPACT MACHINE FOR UPHOLSTERY YARNS AND KNITTING YARNS

## WORKING MODALITIES

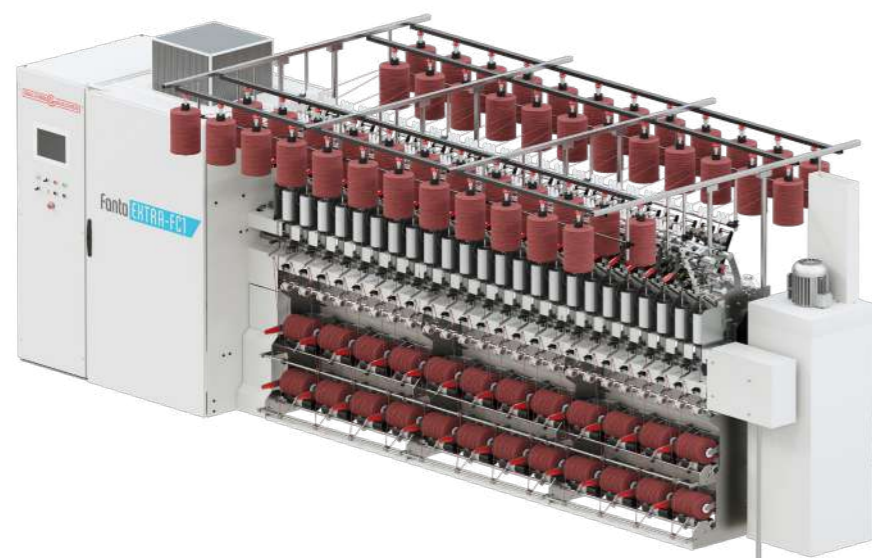
### Fanta ROC-FC1

One hollow spindle (one binding yarn) and take-up on incorporated cone

## DESCRIPTION

Our FANTAEXTRA-FC1 frame produces FANCY TWISTED YARNS and SPECIAL YARNS from roving (roving frame or finisher) and from sliver in cans with one hollow spindle and take-up on incorporated cone.

It is possible to feed the machine also from yarn (YARN TO YARN) with an external creel that can be supplied as an optional. The drafting group may feature one, two or three drafts and can process both short staple cotton fibers and long staple woollen fibers. Upon request different types of needle heads can be supplied to be installed in place of the hollow spindles to produce SPECIAL YARNS like TUBE YARNS. The conversion is a simple and quick operation.



## PRODUCTION FACILITIES

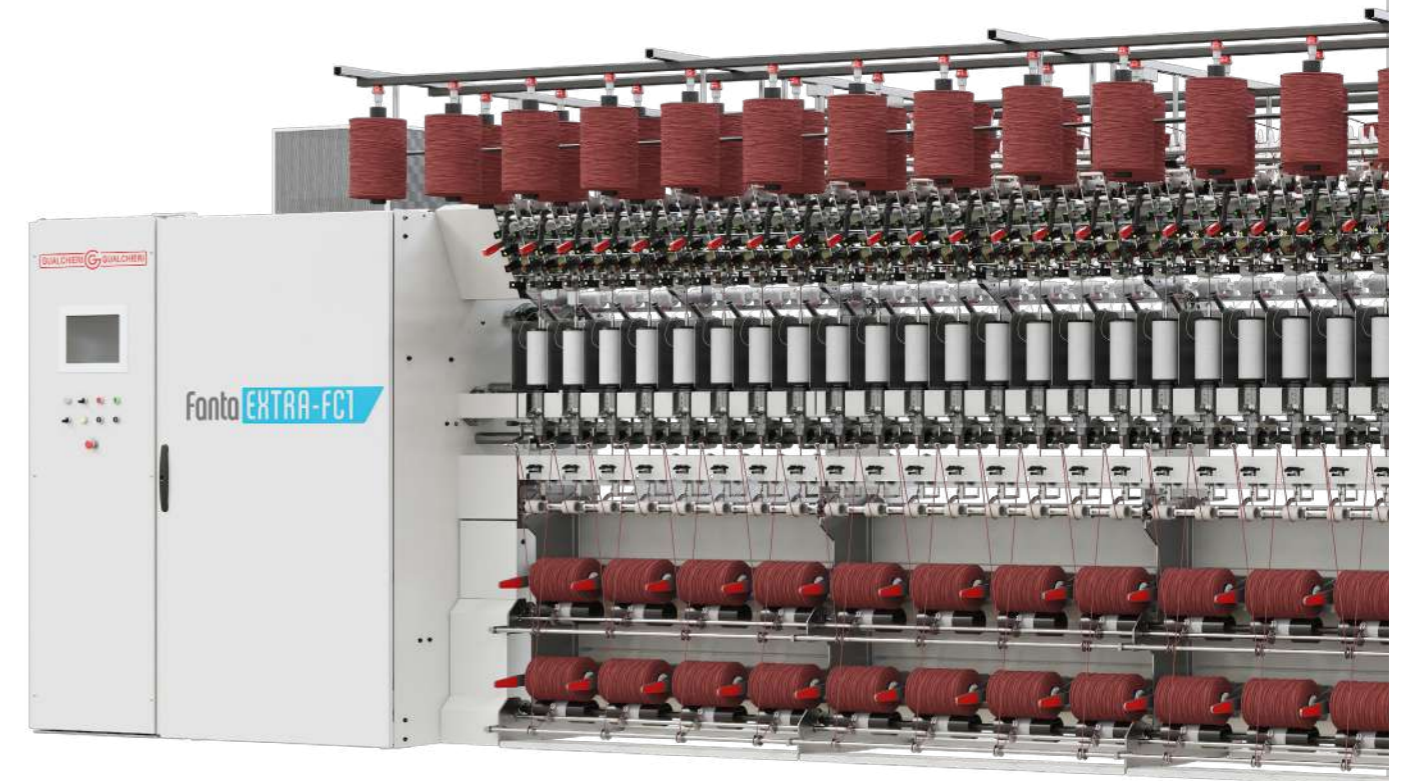
- Management software with simple and intuitive interface
- Yarn programmes and working modalities software-selectable
- Industry 4.0 ready
- Remote assistance that can be enabled directly from the machine PC
- Energy Recovery System for the optimization of the electrical consumption
- Energy G MONITORING for the real-time measurement of the electrical power consumption upon request

## TYPE OF YARNS

- Yarns for knitting
- Yarns for weaving
- Yarns for apparel fabrics
- Yarns for upholstery fabrics

## OPTIONAL ACCESSORIES

- Needle heads
- Independently controlled false twist
- Final yarn detectors
- Stop-motions for the core yarn
- Creel from cans
- Creel from yarn



## FEEDING

**FL:** yarn to yarn (adding an external creel upon request)

**ST:** from roving or sliver (creel from cans optional upon request)

- ST1 (1 draft)
- ST2 (2 drafts) suitable also for short fibres (cotton type)
- ST3 (3 drafts)



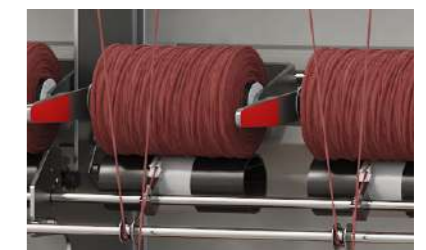
## HOLLOW SPINDLE

- Flanged bobbin for binding yarn



## FALSE TWIST

- Independent false twist control upon request



## INCORPORATED WINDING

- Take-up on cones placed on a double row



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# Fanta EXTRA-FC2

THE IDEAL SOLUTION FOR THE PRODUCTION OF TECHNICAL AND UPHOLSTERY YARNS  
ONE MACHINE: TWO WORKING MODALITIES

## WORKING MODALITIES

### Fanta ROC-FC1

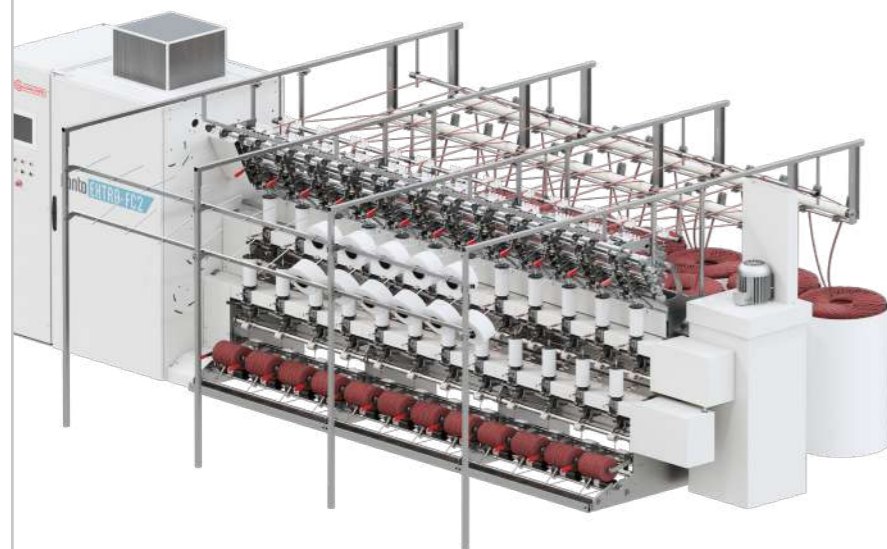
One hollow spindle (one binding yarn) and take-up on incorporated cone

### Fanta ROC

Two hollow spindles (two binding yarns) and take-up on incorporated cone

## DESCRIPTION

Our FANTAEXTRA-FC2 frame is the ideal solution for the production of FANCY TWISTED YARNS and SPECIAL YARNS for technical applications and upholstery fabrics. The machine works from sliver in cans with one and two hollow spindles and take-up on incorporated cone. The drafting group may feature one, two or three drafts. The two hollow spindle stages are controlled independently and it is possible to use both of them to produce yarns with double binding or just one to produce yarns with single binding. The structure of the machine has been especially studied to reduce its height keeping the standard flanged bobbins size (220 mm). This makes the operators' work easier without compromising the performance of the machine.



## PRODUCTION FACILITIES

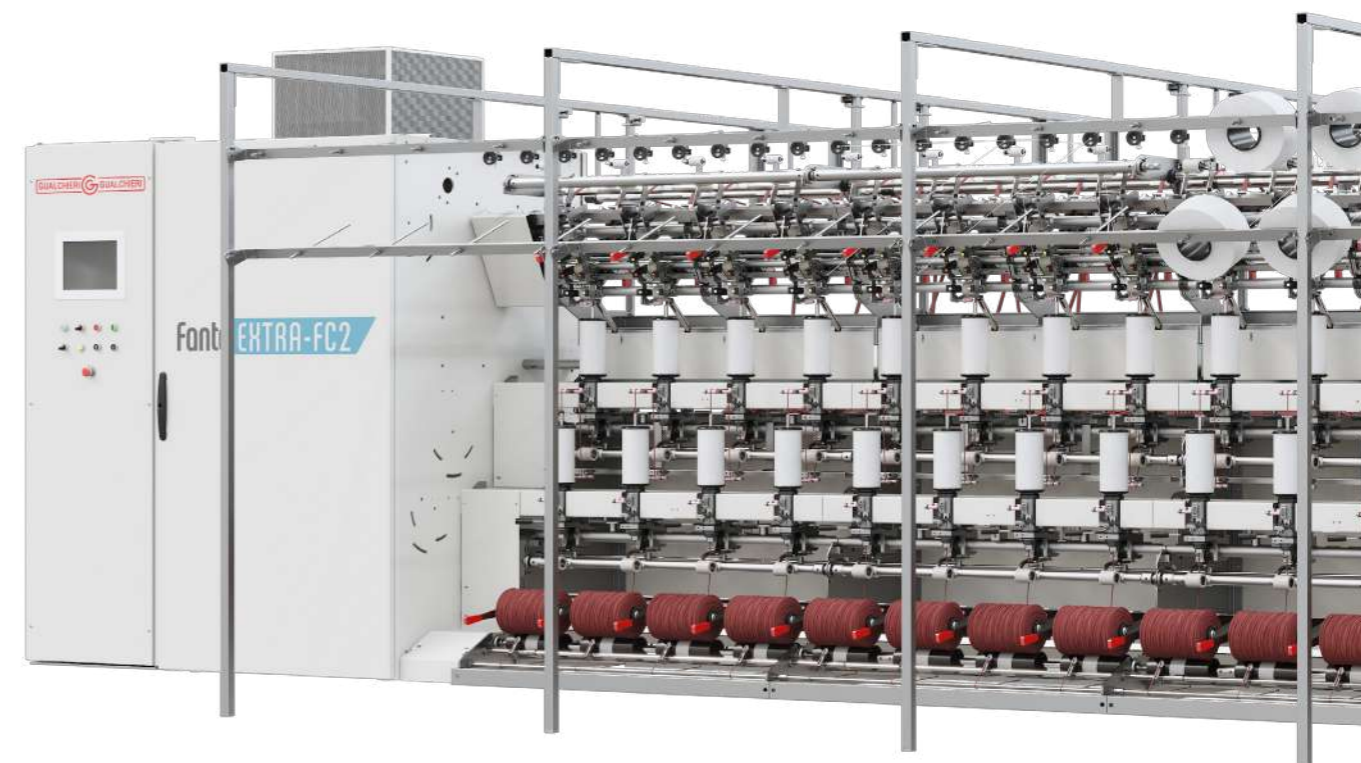
- Management software with simple and intuitive interface
- Yarn programmes and working modalities software-selectable
- Industry 4.0 ready
- Remote assistance that can be enabled directly from the machine PC
- Energy Recovery System for the optimization of the electrical consumption
- Energy G MONITORING for the real time measurement of the electrical power consumption upon request

## TYPE OF YARNS

- Yarns for knitting
- Yarns for weaving
- Yarns for apparel fabrics
- Yarns for upholstery fabrics
- Technical yarns
- Protech
- Mobiltech

## OPTIONAL ACCESSORIES

- Final yarn detectors
- Stop-motions for the core yarn
- Creel from roving bobbins



## FEEDING

- ST: from sliver
- ST1 (1 draft)
  - ST2 (2 drafts)
  - ST3 (3 drafts)



## 1<sup>ST</sup> HOLLOW SPINDLE

- Flanged bobbin for binding yarn



## 2<sup>ND</sup> HOLLOW SPINDLE

- Flanged bobbin for binding yarn



## INCORPORATED WINDING UNIT

- Take-up on cones placed on one single row



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### DESCRIPTION

Our FANTABFL is an auxiliary machine for the preparation of flanged bobbins with binding yarn to be used on spin-twisting machines with hollow spindle. The electronic yarn guide allows the positive control of the movement also during its descent. It is possible to create different package shapes: cylindrical, bottle, cop and combined shape.

Our FANTABFL has the ACIMIT Green Label Certification and it complies with INDUSTRY 4.0 ready.

### PRODUCTION FACILITIES

- Management software with simple and intuitive interface
- Yarn programmes and type of package shape software-selectable
- Industry 4.0 ready
- Remote assistance that can be enabled directly from the machine PC

### TYPE OF PACKAGE SHAPE

• Cylindrical shape



• Bottle shape



• Cop shape



• Cylindrical shape + Cop



• Bottle shape + Cop



### TECHNICAL CHARACTERISTICS AND PERFORMANCE

Version	8	12	24
Number of positions	4x2	6x2	12x2
Gauge	200 mm	200 mm	200 mm
Flanged bobbin height	220 mm	220 mm	220 mm
Max. Spindle speed	9300 rpm	9300 rpm	9300 rpm
Length	1430 mm	1900 mm	3100 mm
Width	850 mm	1220 mm	1220 mm
Height	1800 mm	1800 mm	1800 mm

### GROUP WITH 3 DRAFTING LINES

The group with 3 drafting lines can apply on all our machine models.

3 independent drafting lines each featuring 4 rollers.

Robust and sturdy control box with gears that ensures precision in the fiber processing and that is maintenance free.

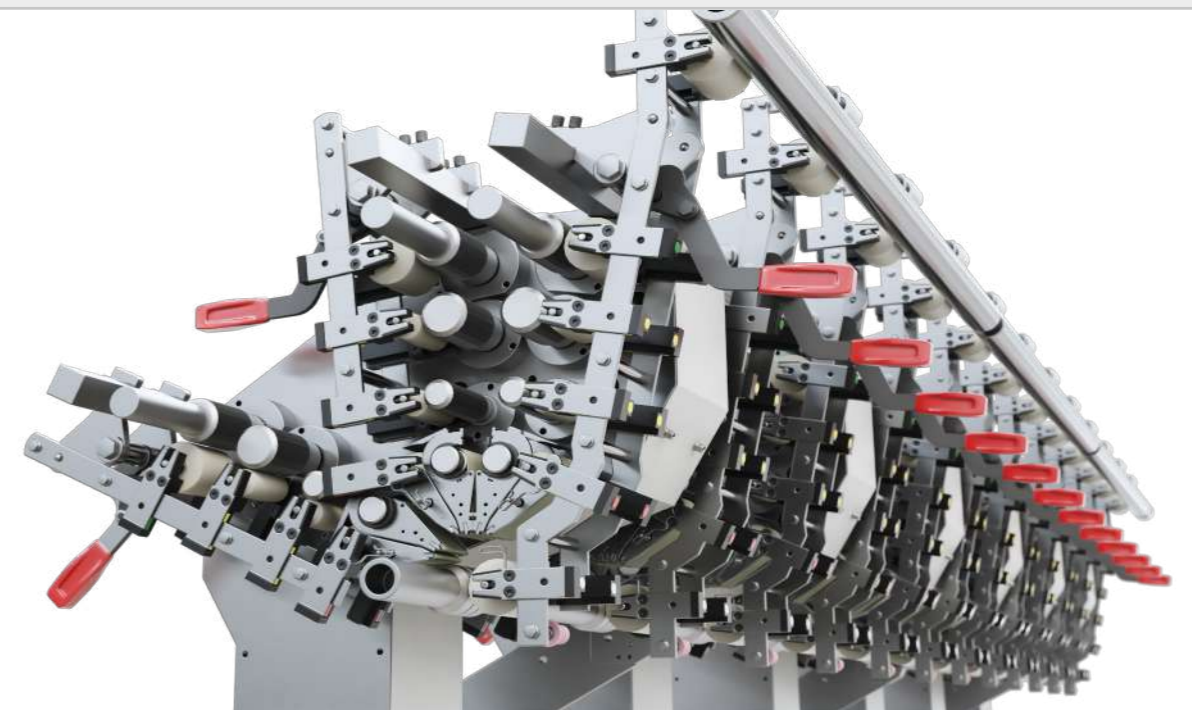


### DESCRIPTION

Improved 3-drafts group for a smooth processing of rovings or heavy slivers.

The particular geometry of the group offers significant advantages:

- It allows the third drafting line to operate in a sufficiently inclined working position so as to ensure a continuous draft of the fibers which permits creating yarns with net colour changes reducing the possibility of defects and slubs.
- Increased drafting zone: the increased distance between the rollers helps distributing the fibers evenly which makes this system particularly suitable also to produce coarse yarns.
- Roving path without detours: drastic reduction of defects and much lower chance of fiber accumulation.



# Spike FILO-AIR

THE LIGHTNESS OF AIRJET SOFTKNIT YARN

## WORKING MODALITIES

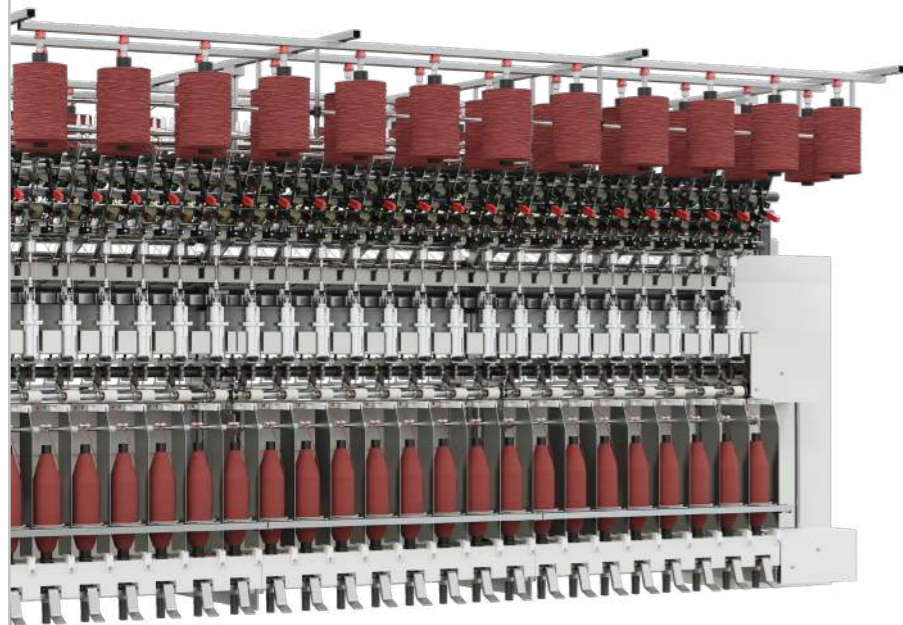
### Spike FILO-AIR

Needle head with air jet and take-up on bobbin

## DESCRIPTION

Our SPIKEFILO-AIR frame produces particularly soft and bulky AIRJET SOFTKNIT YARNS from roving (roving frame or finisher) by means of needle head with air jet and take-up on bobbin. The drafting group may feature one, two or three drafts and can process both short staple cotton fibers and long staple woollen fibers. Various types of needle heads are available to produce different kinds of yarns.

The mechanical ratios guarantee high feeding speeds. For this reason the machine is equipped with final yarn detectors that allow to protect the mechanical components in case of yarn breakages besides serving as a quality indicator of the yarn produced. The air jet device is produced with high wear resistance materials, is easy to clean and has been optimized for a reduced compressed air consumption. Our software manages the speeds of all the axes separately to guarantee the best setting of the needle heads.



## PRODUCTION FACILITIES

- Management software with simple and intuitive interface
- Yarn programmes and working modalities software-selectable
- Industry 4.0 ready
- Remote assistance that can be enabled directly from the machine PC
- Energy Recovery System for the optimization of the electrical consumption
- Energy G MONITORING for the real-time measurement of the electrical power consumption upon request

## TYPE OF YARNS

- Yarns for hand knitting
- Yarns for knitting

## OPTIONAL ACCESSORIES

- Injection bars
- Stop-motions for the core yarn

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## FEEDING

**ST:** from roving

- ST1 (1 draft)
- ST2 (2 drafts) suitable also for short fibres (cotton type)
- ST3 (3 drafts)



## NEEDLE HEAD

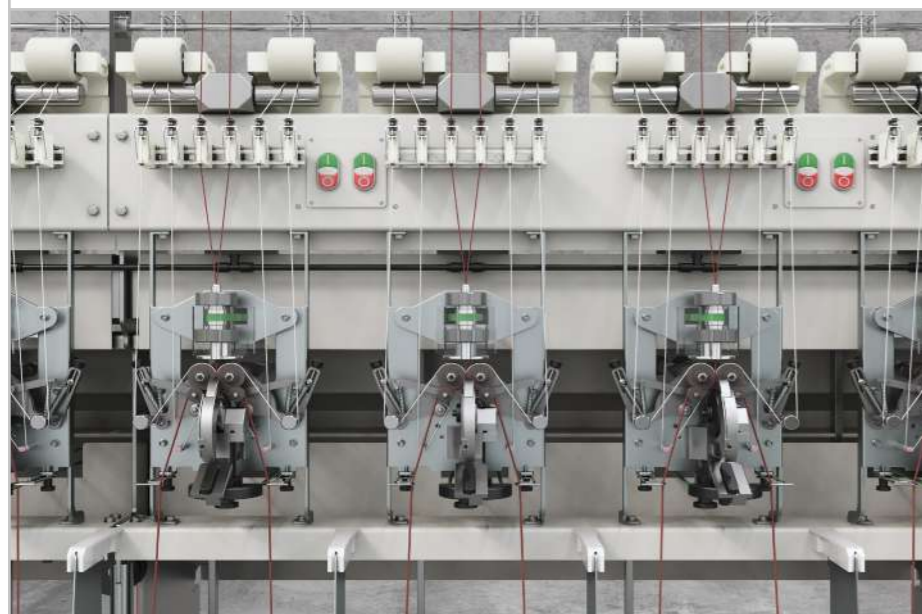
- 1 working position
- 2 working positions



## RING SPINDLE

- Take-up bobbin

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## PRODUCTION FACILITIES

- Management software with simple and intuitive interface
- Yarn programmes software selectable
- Industry 4.0 ready
- Remote assistance upon request
- Energy Recovery System for the optimization of the electrical consumption
- Energy G MONITORING for the real time measurement of the electrical power consumption upon request

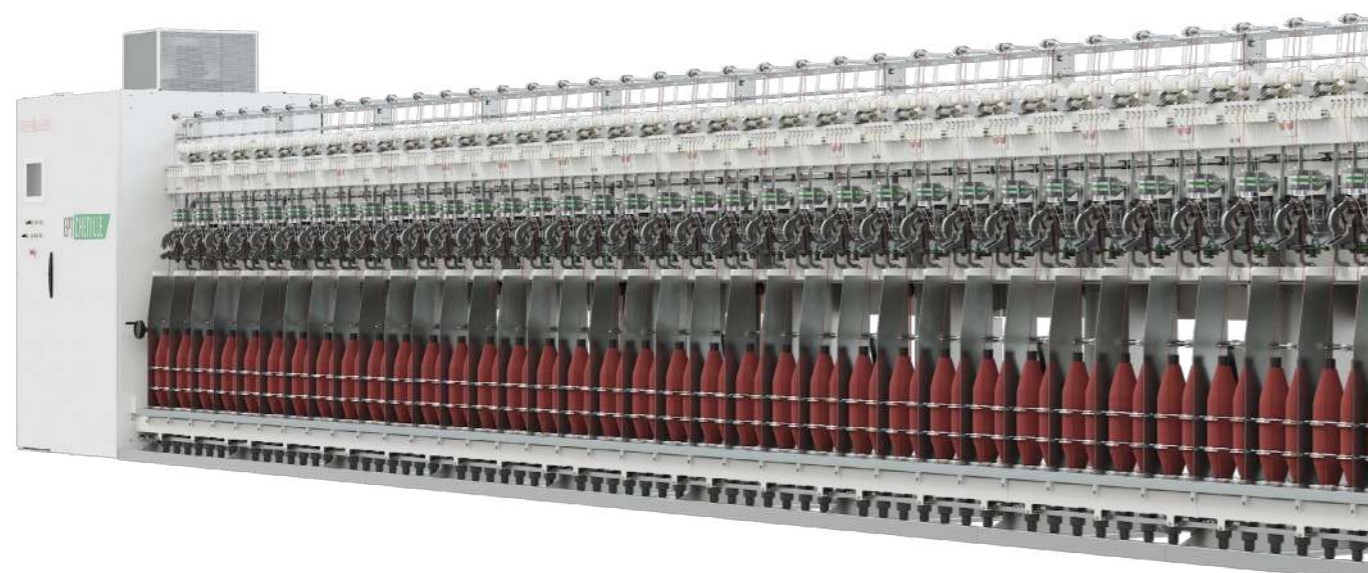
## DESCRIPTION

Our EPT chenille machine produces high quality classical and slub CHENILLE YARNS. The centralized drives and the spindles, blades and effect heads transmission by means of tangential belts assure a homogeneous yarn production along the whole machine, reduced maintenance costs and especially a very low power consumption.

It is possible to produce SLUB CHENILLE with gradual, fast and random steps without additional accessories and the independent control of the blade group allows the best cutting speed even at low production speeds.

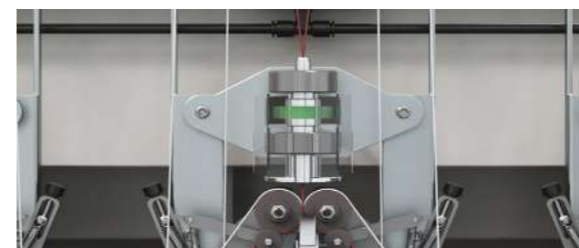
## TYPE OF YARNS

- Yarns for hand knitting
- Yarns for knitting
- Yarns for weaving
- Yarns for apparel fabrics
- Yarns for upholstery fabrics



## SPINDLE RAIL

Optimized transmission to guarantee the correct and uniform rotation speed from the first to the last spindle assuring a homogeneous yarn production along all the machine.



## EFFECT HEADS

The tangential belt control placed at the back of the machine makes the threading operations easier.



## BLADE GROUP

Independent control that assures the best cutting speed with any production speed.

Lined area for writing notes or messages.







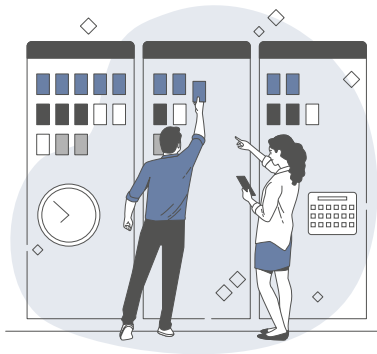
## ENERGY MONITORING

### Full control of production costs

Energy G MONITORING is a measuring system of the electricity. It allows to monitor in real time the actual machine energy cost for each yarn produced.

This system can be installed on any of our machine models upon request.

- ✓ Real time measuring of the energy used for each yarn
- ✓ Production history archive for data analysis
- ✓ It can be applied also on the existing machines



## YARN QUALITY

### Maximizing the production, minimizing the operating costs

Yarn G QUALITY is an integrated software developed by us to program the detectors and manage the yarn breakages directly from the machine PC, without using external control units. The software helps to reduce the maintenance costs as well as the cost of the personnel in charge of the supervision on the machine.

- ✓ Saving of all the settings of the detectors in every yarn recipe
- ✓ Quality indicator of every yarn package according to the number of interventions registered
- ✓ It can be applied also on the existing machines



## YARN LAB

### Your technician at your fingertips



Download now!



Yarn G LAB is an app created for all the technicians that are involved in the manufacture of fancy yarns.

The App, that is free of charge and can be downloaded from any platform, features tools open to everybody as well as a reserved area for our customers with several additional functions.

- ✓ Useful conversion tool of the yarn counts and definition of its characteristics
- ✓ It helps the technician to develop new yarns
- ✓ Remote control on our machines from any device and from any location in the world through personal user name and password

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**WWW.GUALCHIERIEGUALCHIERI.IT**

Via Nea Ionia, 43 - 59100 PRATO - ITALY

Phone +39 0574 590587

info@gualchieriegualchieri.it

