Terrot

TECHNICAL INFORMATION

Experience our exhibition machine model I3P 196 open width frame as well as our latest innovations.

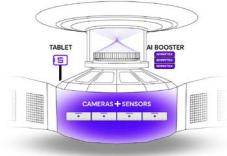## PART 2 - PRESS RELEASE 2023

Chemnitz, May 26, 2023

Event date
Thursday, 08th June -
Wednesday, 14th June 2023

Venue
Fiera Milano Rho Exhibition Centre
Milan | Italy

#FLEXIBLE #PREMIUM BRAND #MADE IN GERMANY #NEVER SATISFIED #HIGHEST QUALITY #UNIQUE #CUSTOMER FOCUSED #INNOVATIVE

EXHIBITION MACHINE MODEL I3P 196 OPEN WIDTH FRAME PREMIERING WITH SMARTEX SYSTEM

At ITMA we will exhibit a highly flexible and productive I3P 196 „8-lock", interlock and fine rib machine with open width frame that has been much demanded globally in the past years and after being tested by reputable clients of ours is much likely to become also a success story in your market.

The I3P 196 is a highly productive knitting machine and creates „8-lock", interlock and modified structures like punto di roma, milano rib, piqué rodier and also racer mesh with maximum efficiency. Equipped with up to 4 needle tracks in cylinder cam and 2 needle tracks in dial cam the I3P 196 promises maximum flexibility and a wide range of pattern options.

ADVANTAGES AT A GLANCE

- Highly productive knitting machine with a maximum speed factor of 1,050
- Terrot's latest answer to market needs: most productive machine for „8-lock" structures (3.2 feeds per inch)
- Large gauge spectrum (up to E50) and timing delay up to 4 mm
- High quality elastane plating in all variations
- Flexible application with spacer (height up to 4.5 mm) and fine gauge conversion kits
- Quick and easy gauge change

TECHNICAL DETAILS

Diameter [inch]	30	32	34	36	38
Feeders	96	102	108	116	122
Speed up to [rpm]	35	32	30	29	27
Speedfactor [max]	1050				
Gauges [1] [E]	18-50				
Knitting technology	Mechanically controlled, elastane plating				
Possible structures	Fine rib, interlock, double face, spacer, racer mesh				
Fabric application	Outerwear, technical and home textiles				

[1] From E40 only interlock

AVAILABLE FRAMES

Tubular	Industrial tubular	Open width
C4 - C6	C4 - C6	D5-BW - D6-BW
Frame for 500 mm rolls	Frame for 800 mm and 1,100 mm fabric rolls	Frame for 400 mm and 600 mm fabric rolls

Terrot

new textile horizons.
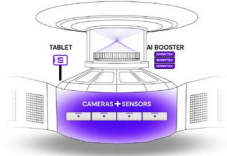

OPEN WIDTH FRAME WITH SMARTEX SYSTEM

KNITTING HEAD

DETAIL KNITTING HEAD

OPEN WIDTH TAKE DOWN

STANDARD CONFIGURATION FOR I3P MACHINES

	Terrot Control	Thread feed
Standard equipment	User-friendly and easy-to use control panel with different functions: • Online connection via web application • Electronically controlled take down	Positive feeding unit type MPF (optional MRA drive possible) • Ceramic yarn carriers • Elastomeric plating equipment with MER

EXHIBITION MACHINE MODEL I3P 196 OPEN WIDTH FRAME PREMIERING WITH SMARTEX SYSTEM

PRODUCTION EXAMPLE I3P 196 FOR 34 INCH AND 30 RPM [UNFINISHED 85%]

Structure	Gauge [E]	Yarn	Weight [g/m²]	Production [m/h]	Production [kg/h]
Fine rib	18	Cotton Nm 50/1 (Ne 30/1)	168	91.80	29.78
Punto di Roma	24	Cotton Nm 60/1 (Ne 36/1)	225	45.90	22.70
Interlock plated	28	Polyester dtex 76f24 (den 68f24) Elastane dtex 22 (den 20)	157	34.40	10.37

FABRIC SAMPLES
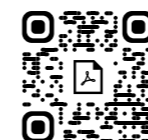
Racer mesh

Spacer

Waffle
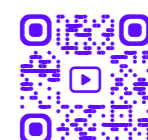
Piqué rodier

Spacer

Double face fabric

Terrot

Machine Model I3P 196

Deviations are possible and all items are subject to technical changes. Illustrations may show accessories that are not included in the standard version.

PRODUCT SHEET

MACHINE VIDEO + SMARTEX SYSTEM

UCC 672-ME

The UCC 672-ME in 3-way technology in dial and cylinder is Terrot's flagship in the production of highest quality mattress covers, upholstery and fashion with unlimited pattern possibilities on both fabric sides. With 88 feeders at 38" (available from 34" to 42"), newly developed dial needle selection and reliable elastane plating, the model's flexibility and extremely high productivity are the newest demonstration of Terrot's reputation as world's leading producer of most sophisticated electronic jacquard machines.
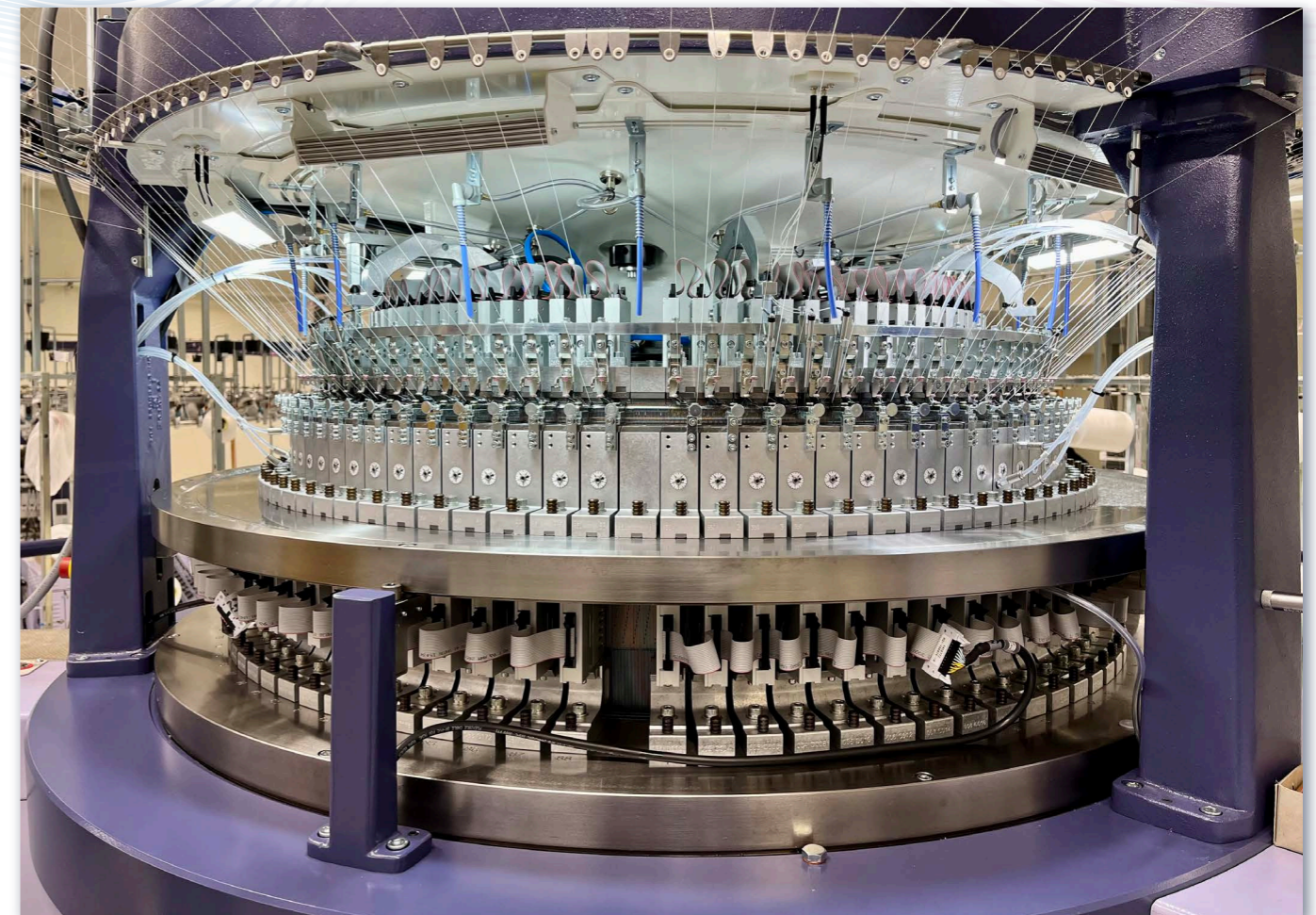
MACHINE HIGHLIGHTS

- Most productive double electronic mattress and upholstery model worldwide
- Sharp definition of fabric structures on both sides with unlimited design options
- Divided dial cam system
- Flexible application with spacer, cast-off and shoe upper conversion kits
- Reliable elastane plating
- New developed 3-way needle selection in dial

ADVANTAGES AT A GLANCE

- 2.4 feeds per inch and a maximum machine speed up to 19 rpm at 38" guarantee high production outputs
- Fabrics in top quality with double electronic technology for a sharp definition of pattern structures on both fabric sides
- Divided dial cam system reduces set up times through quick and easy needle change without a complete removal of the needle selection units
- High quality lay-in yarn carriers with integrated guidance for long floating threads
- Great flexibility and large pattern range with accurate needle selection in cylinder and dial cam for unlimited pattern options on both fabric sides
- Unlimited pattern possibilities due to 3-way technology on both needles - dial and cylinder
- Fast pattern change without changing between knit and tuck cams
- Pattern / design software "Paint Terrot" for quick and easy realization of different fabric styles and pattern designs

TECHNICAL DETAILS

Diameter [inch]	34	38	42
Feeders	78	88	100
Speed up to [rpm]	21	19	17
Speedfactor [max]	720		
Gauges [E]	18 - 22		
Knitting technology	Electronically controlled, 3-way technique in dial and cylinder		
Needle setting	Same needle thickness and hook size on dial and cylinder		
Fabric application	Mattress covers, spacer, upholstery, shoe upper material, outerwear		

KNITTING HEAD

EXPERIENCE OUR LATEST INNOVATIONS.

UCC 672-ME

PRODUCTION EXAMPLE UCC672 ME FOR 38" E20, 88 FEEDERS AT 19 RPM
(UNFINISHED, 85 %)

Structure	Gauge [E]	Yarn	Weight [g/m²]	Width [cm]	Pro-duction [m/d]*	Pro-duction [kg/d]*
Mattress (82083)	20	Polyester dtex 167f34X1 (white) Polyester dtex 167f36X1 (blue) Polyester dtex 334f72x3 (inlay)	340	258	682.08	598.32
Mattress (82084)	20	Tencel Nm 40/1 (white) Polyester dtex 167f36X1 (blue) Polyester dtex 334f72x3 (inlay)	350	262	787.20	721.68
Upholstery (82087)	20	Polyester dtex 167f32X2 (black, white)	350	250	730.80	639.60

*Final efficiency of the machine and in the production is related to the quality of the yarn, adjustment
of the machine and general conditions at customer's knitting plant.

Deviations are possible and all items are subject to technical changes. Illustrations may show
accessories that are not included in the standard version.   * 1 d = 24 hours

CAM PARTS

BATCHING ROLLER TAKE DOWN

FABRIC SAMPLES

UPHOLSTERY FABRIC   MATTRESS   MATTRESS

APPLICATION AREAS

UPHOLSTERY   MATTRESS COVERS

PRODUCT SHEET   MACHINE VIDEO

EXPERIENCE OUR LATEST INNOVATIONS.

I 1120

The Interlock model I 1120 as one of Terrot's newly designed circular knitting machines with 34" and 136 feeders (30" - 42" on request) can be with many innovative and current demand reflecting features an attractive alternative to our blockbuster evergreen the I 2108.
You can reach maximum efficiency and productivity with an industrial frame and fabric rolls up to 1,050 mm. The motorized fabric take-down with three rollers and the automatic winding-up device supports industrial production at its best.
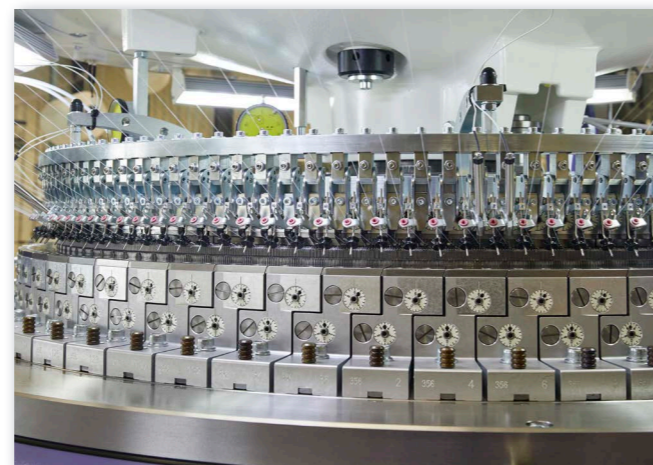
MACHINE HIGHLIGHTS

- 4.0 feeds per inch and delayed timing up to 4 mm
- Gauge range from E18 – E42
- Speed factor 1150 SF (30" = 38 RPM)
- High level elastane plating quality with special dial delayed timing cams
- Modified Interlock structures with tuck and dial synchronized knit cams

TECHNICAL DETAILS

Diameter [inch]	34 (30" - 42" on request)
Feeders	136
Speed up to [rpm]	33
Speedfactor [max]	1.150
Gauges [E]	18 - 42
Knitting technology	Mechanically controlled, elastane plating
Possible structures	Interlock
Fabric application	Swimwear, home textiles, sports- and leisurewear, underwear, technical textiles

MACHINE MODEL

KNITTING HEAD

PRODUCTION EXAMPLE I 1120 FOR 34 INCH, E28, 136 FEEDERS, 33 RPM [UNFINISHED, 85% EFFICIENCY*]:

Structure	Gauge [E]	Yarn	Weight [g/m²]	Width [cm]	Production [m/h]*	Production [kg/h]*
Interlock	28	CO Nm 60/1	216	196	71.5	30.3
Interlock	28	PES dtex 110/36/1	146	190	67.3	18.7
Interlock full plated	28	PES dtex 76/24/1 EL dtex 33	216	190	44.0	18.1

*Final efficiency of the machine and in the production is related to the quality of the yarn, adjustment of the machine and general conditions at customer's knitting plant.

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FABRIC SAMPLES

Interlock

Interlock

Interlock

PRODUCT SHEET

EXPERIENCE OUR LATEST INNOVATIONS.

UCC 572-T

The UCC 572-T is Terrot's flagship in the production of functional sport and leisure textiles, offering great flexibility and a high production output. The machine features a wide variety of applications while producing single and double jersey structure area combinations in addition to hole patterns. This model makes designer's dreams come true.
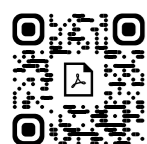
MACHINE HIGHLIGHTS

- High production of fine gauge transfer fabrics up to E24
- Highly productive (2.4 feeds per inch) in cylinder and dial
- Available in different gauge settings in cylinder (E14 or E16) and dial cam (E28 or E32)[1] for more application possibilities
- Combines single and double jersey structure areas to boost features like breathability, stretch and fit
- Creates sportswear with an improved fit called „Body Mapping"
- Reliable 3-way cylinder needle selection technology for knit, tuck and miss
- Reliable and high-quality elastane plating
- Unlimited pattern options with Terrot's pattern design software "Paint Terrot"

[1] Worldwide registered Terrot patent.

TECHNICAL DETAILS

Diameter [inch]	30	34
Feeders	72	84
Speed up to [rpm]	18	16
Speedfactor [max]	540	
Gauges [E]	14 - 24	
Knitting technology	Electronically controlled, elastane plating, individual needle selection	
Possible structures	Transfer Jacquard	
Fabric application	Leisure and sportswear, outerwear	

PRODUCT SHEET

MACHINE VIDEO

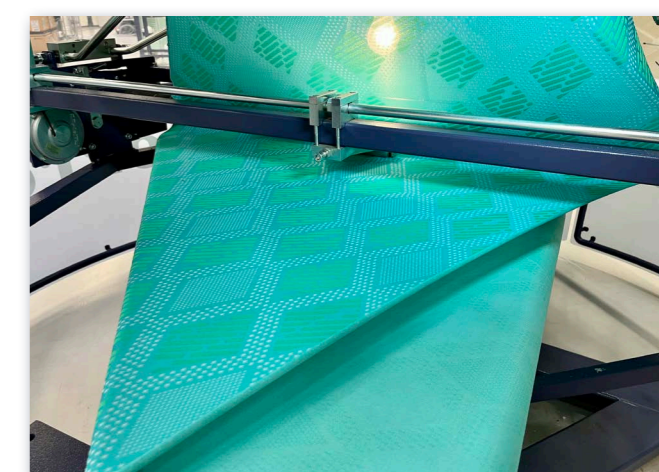### TRANSFER PATTERN PRODUCTION EXAMPLE OF THE UCC 572-T FOR 34 INCH AND 16 RPM [UNFINISHED, 85 %]

Exemplary fabric application	Gauge [E]	Yarn	Weight [g/m²]	Production [m/h]	Production [kg/h]
Leisure wear	16	Tencel Nm 40/1	150	35.19	11.65
Sports and leisure wear	14/28[1]	PES "COOLPLUS" Nm 50 / 1	130	32.64	9.76
Sportswear	24	PES 100 den, Elastan 20 den	130	24.48	6.21

Deviations are possible and all items are subject to technical changes. Illustrations may show accessories that are not included in the standard version.

FABRIC SAMPLES

TRANSFER

TRANSFER

TRANSFER

KNITTING HEAD

OPEN WIDTH TAKE DOWN

EXPERIENCE OUR LATEST INNOVATIONS.
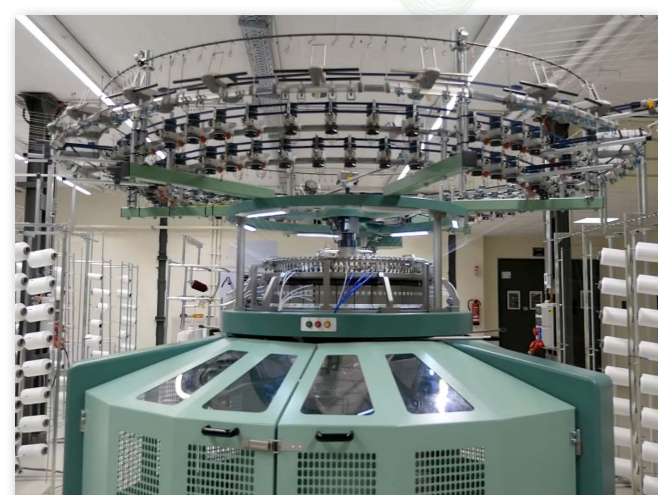
JV-3.0 HIGH SPEED

Terrot extends its product portfolio even further and launches the new JV-3.0, which stands for high production outputs in the field of single jersey fabrics. This very productive knitting machine is easily capable of a speed factor of 1,280. In addition other single structures like piqué can also be knitted with the JV-3.0. Despite its high efficiency the machine displays outstanding flexibility, long maintenance cycles and unseen operational convenience.

MACHINE HIGHLIGHTS

· Highest production of single knit fabrics with 3 feeders per inch
· Maximum output at highest quality
· Less wear and tear caused by newly designed sinker shapes
· Easy handling and reliable elastane plating
· Well known click-clack system (easy knit-on system)

TECHNICAL DETAILS

Diameter [inch]	30	32	34
Feeders	90	96	102
Speed up to [rpm]	42	40	38
Speedfactor [max]	1.280		
Gauges [E]	20 - 30		
Knitting technology	Mechanically controlled, elastane plating		
Possible structures	Plain single jersey, piqué, 2-thread fleece		
Fabric application	Underwear, outerwear		

MACHINE MODEL

CAM PARTS

PRODUCTION EXAMPLE JV-3.0 FOR 32 INCH [UNFINISHED 85%]*

Structure	Gauge [E]	Yarn	Speed** [rpm]	Weight [g/m²]	Production [m/h]*	Production [kg/h]*
Single Jersey Plated	28	Cotton Nm 60/1 (Ne 36/1) Elastane dtex 22 (den 20)	38	164	93.0	29.3
Piqué	28	Cotton Nm 60/1 (Ne 36/1)	34	106	104.1	23.1
Fleece 3:1	28	Cotton Nm 34/1 (Ne 20/1)	34	242	41.6	24.1

*Final efficiency of the machine and in the production is related to the quality of the yarn, adjustment of the machine and general condition and general conditions at customer's knitting plant.
**Speed Reduction due to special Structure.

Deviations are possible and all items are subject to technical changes. Illustrations may show accessories that are not included in the standard version.

FABRIC SAMPLES

2-THREAD FLEECE

SINGLE PIQUÉ

PLAIN SINGLE

PRODUCT SHEET

EXPERIENCE OUR LATEST INNOVATIONS.

JSP5-4

The JSP5-4 produces high-quality plush with uniform loop lengths and provides a variety of different applications for various market requirements like fashion, home and technical textiles. Terrot offers different highly productive single jersey knitting machines for nearly every application and is very successful on the global market with its product portfolio.
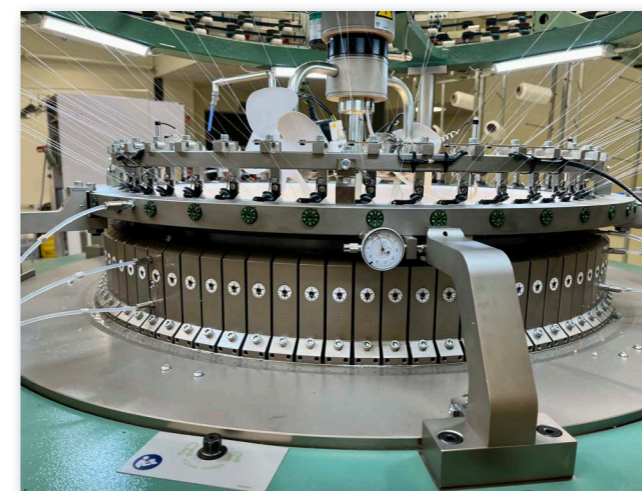
MACHINE HIGHLIGHTS

- Lower shearing losses on fabric finishing
- Different sinker heights to realize different plush heights
- Great flexibility and large pattern range with up to 3 needle tracks in cylinder cam
- Different plating options (regular- and reverse-plating (known as polar fleece)) for a wide application spectrum
- High-tech touch panel for an easy and user-friendly operation
- Depending on production requirements different frame types are available
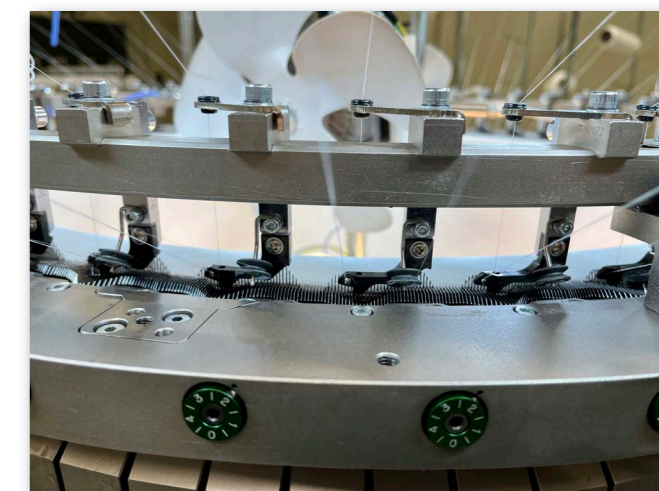
TECHNICAL DETAILS

Diameter [inch]	26	30
Feeders	39	45
Speed up to [rpm]	29 (E16 - E22) 26 (E24 - E28)	25 (E16 - E22) 23 (E24 - E28)
Speedfactor [max]	750	
Gauges [E]	16 - 28	
Knitting technology	Mechanical controlled, elastane plating	
Possible structures	Plush	
Fabric application	Outerwear, furniture, upholstery, toys	

PRODUCTION EXAMPLE JSP5-4 FOR 30 INCH AND 25 RPM [UNFINISHED, 85 %]

Structure	Gauge [E]	Yarn	Weight [g/m²]	Production [m/h]	Weight [kg/h]
Plush	20	PE dtex 76f24x1 Cotton Nm 50/1 (Ne 30/1)	220	57.38	27.01
Plush	20	PES Nm 60/1 (Ne 36/1) Cotton Nm 40/1 (Ne 24/1)	322	44.13	30.12
Plush	20	PES dtex 167f34x1 Cotton Nm 40/1 (Ne 24/1)	373	40.90	31.03

KNITTING HEAD

DETAIL KNITTING HEAD

FABRIC SAMPLES

PLUSH

PLUSH

PLUSH

Deviations are possible and all items are subject to technical changes. Illustrations may show accessories that are not included in the standard version.

PRODUCT SHEET

MACHINE VIDEO

COMPANY PROFILE

Smartex solves fundamental problems impacting the global textile supply chain. They are building the tools for the modern textile factory using artificial intelligence, machine learning and computer vision to improve textile manufacturing, with a strong focus on sustainability and quality.

Smartex eliminates the risk of quality control rejections while at the same time providing automated quality control inspection and software, which clearly outperforms the current product inspection mechanisms which are predominantly done manually.
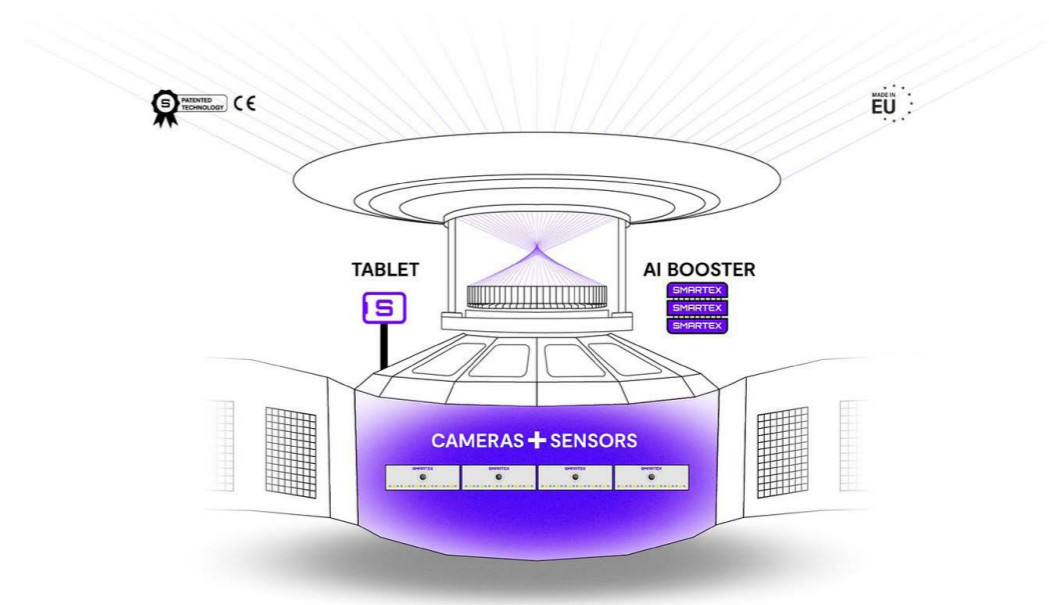
Their AI-based solutions are eliminating waste at the source of the textile manufacturing chain. With Smartex, factories can detect all textile defects, and enhance production performance, worker safety, and transparency, allowing them to save time, lessen sunk costs, CO2 emissions, water wastage, and much more. Smartex has raised over $27M and have spent over $20M in R&D. With over 1000+ systems sold in over 12 countries and counting.

MORE INFORMATION

PRODUCT

The Smartex CORE system gives the customer the power of latest hardware and software technology to control their fabric production, inspecting every inch of fabric using artificial intelligence algorithms, which are constantly being upgraded. Smartex's patented hardware set is comprised of an AI-powered graphic processing server, high resolution cameras with machine learning capabilities, and enhanced lighting for optimal greige fabric inspection controlled by an intuitive industrial-grade touchscreen interface. This system can be retrofitted into a wide range various Circular Knitting Machine brands and models.
Smartex's software provides the customer with 24/7 access to real-time production information including automated roll maps, business intelligence data, and performance analysis from anywhere, using their preferred device (computer, tablet, smartphone).

MORE INFORMATION

TERROT CIRCULAR KNITTING MACHINES **DOUBLE-JERSEY**

Machine type	Knitting technique	Needle tracks cylinder	Needle tracks dial	Machine diameter [inch]	Speed factor [max]	Feeds per inch	Machine gauges [E]
I 2108	Interlock	2	2	26 – 42	1,000	3.6	18 – 46
I3P 154	Interlock / fine rib	2	2	26 – 42	900	1.8	10 – 42
I3P 160	Interlock / fine rib	4	2	30 – 38	900	2.0	10 – 40
I3P 160-R	Interlock / fine rib	2	2	30 – 38	900	2.0	10 – 40
I3P 572	Interlock / fine rib	4	2, 3	30, 34, 38	900	2.4	17 – 32
I3P 572-R	Interlock / fine rib	2	2, 3	30, 34, 36, 38	900	2.4	17 – 32
I3P 284-1	Interlock / fine rib	2	2	30 – 36, 42	830	2.8	18 – 50
I3P 584	Interlock / fine rib	4	2	30 – 38	1,050	2.8	18 – 50
I3P 196	Interlock / fine rib	4	2	30 – 38	1,050	3.2	18 – 50
UCC 548	Electronic jacquard	Electronic needle selection	2	30, 34, 36, 38, 42	720	1.6	6 – 40
UCC 548-T	Electronic jacquard, transfer	Electronic needle selection	2	30, 34	540	1.6	6 – 24 28 – 32**
UCC 548-E	Double electronic jacquard	Electronic needle selection	Electronic needle selection in 2-way tech	30, 34	720	1.6	14 – 28 14 – 22***
UCC 548-MS	Mattress high speed, electronic jacquard	Electronic needle selection	2	34, 38, 42	800	1.6	18 – 20
UCC 548-ME	Mattress, double electronic jacquard	Electronic needle selection	Electronic needle selection in 2-way tech	30, 38	720	1.6	18 – 28
UCC 566-E	Double electronic jacquard	Electronic needle selection	Piezo needle selection in 2-way tech	34, 38	720	2.2	14 – 24
UCC 566-TE	Double electronic jacquard, transfer	Electronic needle selection	Electronic needle selection in 2-way tech	34, 38	540	2.2	14 – 20
UCC 566-ME	Mattress, double electronic jacquard	Electronic needle selection	Piezo needle selection in 2-way tech	38	720	2.2	18 – 22
UCC 566-TME	Mattress, double electronic jacquard, transfer	Electronic needle selection	Piezo needle selection in 2-way tech	38	540	2.2	18 – 20
UCC 572	Electronic jacquard	Electronic needle selection	2	30, 34, 36, 38	720	2.4	14 – 40
UCC 572-I	Electronic jacquard interlock	Electronic needle selection, interlock pre-selection unit	2	30, 34, 36	720	2.4	14 – 40
UCC 572 -T	Electronic jacquard transfer	Electronic needle selection	2	30, 34	540	2.4	16 – 24 28 – 32**
UCC 572-TE	Double electronic jacquard, transfer	Electronic needle selection	Electronic needle selection in 2-way tech	42	540	2.4	14 – 20
UCC 572-TME	Mattress, double electronic jacquard, transfer	Electronic needle selection	Electronic needle selection in 2-way tech	42	540	2.4	18 – 20
UCC 572-TME	Mattress, electronic jacquard	Electronic needle selection	2	30, 34, 36, 38, 42, 48*	720	2.4	18 – 22
UCC 572-ME	Mattress, double electronic jacquard	Electronic needle selection	Electronic needle selection in 2-way tech	42	720	2.4	18 – 22
UCC 594-M	Mattress, electronic jacquard	Electronic needle selection in 2-way tech	2	34, 36, 39	750	3.1	18 – 28
UP 472	Mini jacquard	36 / 72 wales pattern width	2	30, 34, 36, 38, 42	720	2.4	14 – 40

* On request – ** Fine gauge in dial cam – *** Gauges for 30″ diameter

PATTERN PREPARATION SOFTWARE – **PAINT TERROT**

Description	Software for a quick realisation of pattern ideas
Technical requirements	Data transfer via USB stick or Terrot web module

TERROT CIRCULAR KNITTING MACHINES **SINGLE-JERSEY**

Machine type	Knitting technique	Needle tracks cylinder	Sinker tracks sinker cam	Machine diameter [inch]	Speed factor [max]	Feeds per inch	Machine gauges [E]
S 296-1	Single plain / structures	4	1	26 – 42	1,050 1,200*	3.2	12 – 54
S 296-2	Single plain / structures	4	1	26 – 42	1,050	3.2	12 – 54
SBF 296-1	3-thread fleece	4	1	26 – 36	720	3.2	16 – 24
SBF 296-2	3-thread fleece	4	1	26 – 36	720	3.2	16 – 24
SCC 548	Electronic jacquard	Electronic needle selection	1	26, 30, 34	720	1.6	6 – 36
SCC 572	Electronic jacquard	Electronic needle selection	1	26, 30, 34, 36, 38	720	2.4	14 – 40
S3P 172-1	Mini jacquard	36 / 72 wales pattern width	1	26, 30, 34, 38	720	2.4	14 – 40

* High speed version

TERROT FRAMES

	Terrot tubular frame	Terrot industrial frame		Terrot open width frame]		
Description	Compact frame for tubular fabric	Industrial frame for tubular fabric		Frame for single layer open width fabric		
Diameter [inch]	26 – 42	26 – 42	26 – 42	26 – 36		38 – 40
Frame size	C4 – C6	C4 – C6	C4 – C6	D5-BW		D6-BW
Fabric roll [mm]	500	800 – 850	1,050 – 1,100	400	600	400
Winding width [mm]	1,080 – 1,708	1,080 – 1,708	1,080 – 1,708	2,400	2,060 – 2,400	2,550

PILOTELLI CIRCULAR KNITTING MACHINES **SINGLE-JERSEY**

Machine type	Knitting technique	Needle tracks cylinder	Sinker tracks sinker cam	Machine diameter [inch]	Speed factor [max]	Feeds per inch	Machine gauges [E]
JVCE-4	Single plain / structures	4	1	26, 30 – 38	1,080 1,170*	3.0	10 – 44
J-3.0-4	Single plain / structures	4	1	26, 30 – 38	1,080 1,170*	3.0	10 – 44
JV-3.0	Single plain / structures High Speed	4	1	30 – 34	1,280	3.0	20 – 24 26 – 30
FACV-4	3-thread fleece	4	1	26, 30 – 34	690	3.0	18 – 24
JSP5-4	Plush	3	1	26, 30	750	1.5	16 – 28

* High speed version (only available for selected knitting heads

PILOTELLI FRAMES

	Tubular frame		Industrial tubular frame	Open width frame]		
Diameter [inch]	26 – 38	40 – 42	26 – 38	26 – 34	36 – 40	26 – 34
Frame name	T3/1	T6/1*	T3/2	OW3/1	OW6/1*	OW3/2
Fabric roll [mm]	480	400	730	350	350	630
Winding width [mm]	1,340	1,700	1,340	2,300	2,500	2,300

* Frame currently not available

Together with our partner SMARTEX we welcome you in hall 4 booth E104.

CI VEDIAMO A MILANO!

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