

merlin

Your spinning laboratory



Pintercaipo

Find your way,
better together



merlin

Growing Possibilities

When yarn trials or sample lots are required, spinners have 2 possibilities: to stop a ring frame and spend long time in settings, tests and small production or to prepare easily the yarn program in the PC with all machine adjustments, go to Merlin, pass the program to it and start production. Saving time and human resources. Without intermediate steps. Getting fast results to keep the pulse of the market.

But Merlin is not only this: Merlin incorporates all PinterCaipo's possibilities to develop and spin any special spun yarn: Hard, Soft and Duo Core, Slub, Multicount, Multitwist, Short Slub, Injected and TwinSlub, Duo Yarn and any combination of them. So the possibilities of yarn innovation have no limitations.

State of the art technology

Designed and manufactured with highest quality standards, Merlin has all features of modern ring frames.

Able to run **up to 24.000 rpm** and equipped with spinning elements required by customer to match its production standards (drafting system, spindles, rings and travellers), it is the perfect support to **test new adjustments or materials** before bulk production.

With a wide range of available models and spindleage (cotton or worsted type; double sided with 24 spindles (12 + 12), 48 (24 + 24) or 96 spindles (48 + 48), each spinner will find the perfect companion for yarn development.

To be used in the laboratory, in a textile institute or in the production floor with the other ring frames, Merlin grants a quality production and **easy operation**. Perfect for R&D centres, specially in the biggest companies, so that all research can be done under one roof.

With a good production capacity thanks to have **up to 96 spindles per machine**, to provide samples to spinner's customers have never been so easy, helping marketing department in sales promotion.

Yarn Specialities

Merlin is equipped with complete PinterCaipo's product range to be ready to attend all your customer's needs:

- Elastic Core Yarn:** CTL Core Traverse Linked (CSC under request).
- Hard Core Yarn:** for hard and semi hard filaments; DuoCore upon request.
- DuoCore and 3DCore:** 2 core filaments in a single yarn.
- Slub:** including MC/MT and short slub; TwinSlub upon request.
- Syrosun.**

And to spin with full security Merlin can be equipped with filament and yarn **breakage detectors with roving stop** devices: your team will not have to control sampling process.

Machine settings and programming

Merlin is fully driven by servomotors, so no mechanical adjustments are required.

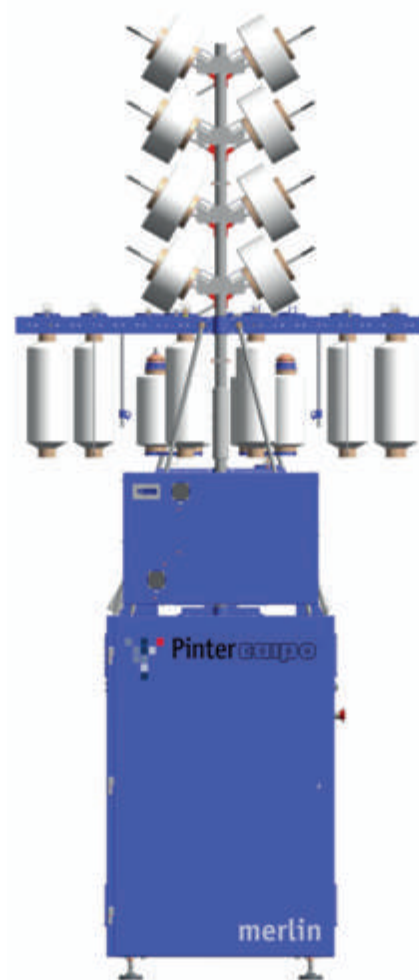
Preparation and changing **time is drastically reduced** from conventional ring frames. For each sample you will have only to enter main yarn settings (spindle speed, draft, twist value and direction) and special yarn parameters (slub program, filament draft) either in PC or in machine control panel.

You will have perfectly documented all tests and settings done to an article, for an easy reproduction later on. Moreover, fine tuning a required yarn becomes extremely fast. Your R&D expenses will be reduced as to match a sample becomes a kids game.

And to close the circle...

PinterCaipo offers a full range of auxiliary tools to complete your R&D:

- Slub Software Simulator:** once you have created Merlin Slub yarn program, export it to get yarn and fabric appearance.
- OYR:** slub yarn reader for analysing your samples to insure they match your required features.
- SlubTranslator:** convert slub programs to / from PinterCaipo slub program from / to other types of program just with a click.
- And with full compatibility of programs between Merlin and the rest of PinterCaipo products.



Innovation possibilities grow with new Merlin:

More features.
More spindles.
Now up to 96.





*Configure your Merlin according to your exact needs
You can design your own Merlin. Adjust it to your production components and special yarn requirements to get the best of it.*

Models and Features

	Short Staple Models			Worsted Models		
	SPA 2411	SPA 4811	SPA 9611	SPL 2411	SPL 4811	SPL 9611
Nr. of spindles	24	48	96	24	48	96
Spindle Gauge	75 mm					
Max Ring Ø	55 mm					
Max Tube length	260 mm					
Staple length	Up to 60 mm (cotton, synthetic, blends)			Up to 200 mm (wool, synthetic, blends)		
Drafting system	Texparts PK 2630SE			Texparts PK 1601 or PK 6000		
Max Spindle rpm	23.400 rpm			16.000 rpm		
Twist	From 150 to 3.500 TPM, S and Z			From 150 to 2.000 TPM, S and Z		
Main Draft	From 12 to 80					
Pneumafil	With central suction channel and individual / 8 spindles suction flutes					
Main driving	Brushless servomotor of constant pair and low inertia					
Drafting driving	Brushless servomotor of constant pair and low inertia					
Core Yarn Options						
Elastic Core	•	•	•	•	•	•
Hard Core	•	•	•	•	•	•
Semi Hard Core	•	•	•	•	•	•
DuoCore-3D Core	X	0	0	X	0	0
Fancy Yarn Options						
Slub	•	•	•	•	•	•
MC/MT	•	•	•	•	•	•
Short Slub	•	•	•	•	•	•
Injected & Twin	0	0	0	0	0	0
Other Special Yarn Options						
Syrosun	•	•	•	•	•	•



Complete your R&D Centre with PinterCaipo Lab Equipment
PinterCaipo offers the widest range of laboratory and designing instruments to help your creation process. Complete your Merlin with them: designing and sampling development will be fast and easy. Use OYR to analyse, extract fancy programs and send them to Merlin for immediate result. And prepare realistic yarn and fabric simulations with Yarn and Fabric simulation software.





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