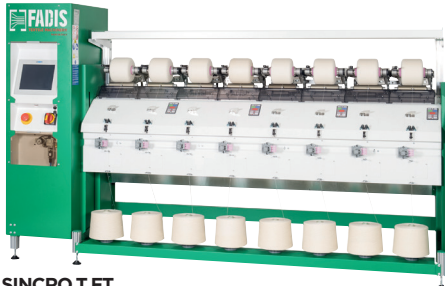




PRODUCT RANGE

PACKAGE WINDING RANGE: SOFT WINDING - REWINDING MACHINE



SINCRO T FT



SINCRO FC RC

The soft winding machines and rewinding machines of Fadis's **SINCRO/SINCRO T FC - RC - FT - RT** range are meant to process all types of yarns, staple fibre and continuous filament yarn. They undoubtedly are the technologically most evolved and efficient machines available on the market today.

"SINCRO: MARKET'S BENCHMARK"

Thanks to a company experience of more than 55 years, to the most advanced technologies and to innovative technical solutions, the SINCRO - SINCRO T machines offer the topmost quality, productivity, operating costs and versatility available on the market today:

- **Quality:** because they absolutely ensure the best possible yarn laying control, thanks to the technical solutions that have been adopted;
- **Productivity:** because thanks to their constructional sturdiness, they

can reach high winding speeds up to 2.250 m/min, thus requiring a lower investment in order to obtain the same production compared with less performing machines;

- **Operating costs:** because, thanks to the technologies used and in comparison with all the other machines available on the market, they are the ones that absolutely consume less energy and maintenance materials, in addition to that, they do not need neither additional fans nor cooling system
- **Versatility:** because, thanks to the possibility of processing all types of yarns, of programming all process parameters through the computerized digital terminal, and to their "open platform" constructional design, the "SINCRO" machines can meet all present and future market requirements.

HANK WINDING RANGE: REELING MACHINES - HANK TO CONE MACHINES



SINCRO MRL



SINCRO D SW

The **SINCRO MRL - MRLF** electronic yarn guided precision reeling machines represent the best possible state-of-the-art technology, quality and great flexibility available on the market today. The SINCRO MRL - MRLF machines offer the topmost versatility aimed at future market developments. In fact, the compact and rational design allows to reach performances that are definitely higher than traditional reeling machines - reaching high winding speeds up to 1.500 m/min (mechanical speed up to 1.800 m/min) - and are ideal for reeling staple fibre yarns, fancy yarns, chenille yarns, modified continuous filament yarns as well as silk and any other extra-fine yarns.

Fadis has developed the only electronic

yarn guided hank to cone winding machine with precision crossing available today on the world market. The long experience matured in the production of hank to cone winding machines makes Fadis the world's most renowned company in this field. The **SINCRO D** hank-to-cone winding machines with electronic yarn guide with precision crossing angle and positively driven bobbin are equipped with a sturdy hank holding swift which can support hanks up to 2,5 kg and with an unwinding speed of up to 1.000 m/min (mechanical speed up to 1.300 m/min). The swift opens automatically and its circumference may be adjusted according to the type of hank, from 40" (1.020 mm) to 90" (2.300 mm).

ELASTIC YARNS WINDING RANGE : FAPP™ TECHNOLOGY



SINCRO M



SINCRO RFM SW

Fadis is the only company in the world able to offer the most appropriate machine range to process elastic yarns, in the form of BOBBINS, FAPP™, MUFF and HANKS. In 2003 Fadis presented an important technological innovation, the Fapp™ (Fadis Precision Package), a low density package that is a perfect preparatory solution to then dye elastic yarns. The FAPP™ allows for wide retraction margins of the yarn during the dyeing phase, thus keeping a high residual elasticity percentage of the elasticized yarn.

The starting point has been the introduction of **SINCRO FFM** followed in 2007 by an even more innovative concept the **SINCRO M**.

Therefore, with this now widely tested preparatory system, and the possibility of unwinding the FAPP™ with the **SINCRO RFM SW** rewinding machine (since 2001) with its "on-line" tension control, it is possible to obtain qualitative results quite similar to hank dyeing but with the same simplicity and economy typical of yarn package dyeing.

ELASTOMERIC YARNS RANGE:

SPOOLING - REWINDER - INTERMINGLING MACHINES

Conventional covering range:

The **SINCRO SPRINT** machine is a completely new concept of compact and efficient double-sided spooling machine, equipped with independent winding spindles with electronic yarn guide, precision crossing and motorised bobbin equipped with the "Tens Control™" technology, a unique and completely electronic system with on-line tension control.

The electronic yarn-guide technology with precision crossing installed on the SINCRO SPRINT machine guarantees a perfect (with micrometric tolerance) and uniform yarn laying, an essential feature for reaching an optimal unwinding during the following covering process.

The rewriter **SINCRO RC** has main objectives to prepare bobbins with uniform tension to guarantee a perfect unwinding on the circular knitting machines, a necessity, nowadays, even more important because of the high working speed of the latest hosiery machines. This process is essential for the fine hosiery yarns and for medical yarns. Such results are obtained thanks to the use of electronic yarn guided technology with precision winding crossing that guarantee a perfect yarn laying without any patterning and to our world recognized "Tens Control™" on-line yarn tension device that guarantee a uniform tension inside and outside from one bobbin to the next.

Air intermingling range:

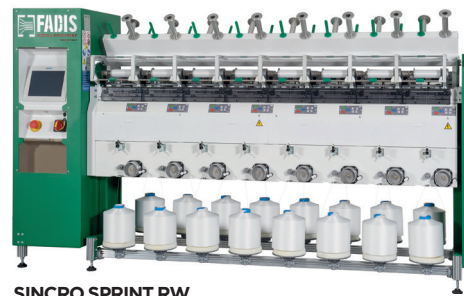
Fadis was the first company in the world to introduce the air covering technology in 1987, together with Heberlein, of which HFP, the name of the first model and jet type, derives.

The **SINCRO MULTIPLA** represents the fourth generation of this lucky concept. The innovative constructional philosophy of the SINCRO range, called "open platform", finds its greatest expression in the SINCRO MULTIPLA machine and in its various possible functions. It is a "multi-function" machine, which can respond to 7 different production processes and guarantees high performances.

The "Queen" version of the SINCRO MULTIPLA range foresees the application of an electronic motorised unwinding device necessary to unwind an elastomeric yarn and intermingle it through air with a textured yarn.

The computerised digital terminal allows to electronically control and vary the draw ratio, as well as all the other standard "SINCRO" parameters.

The "Tens Control™" technology, a unique and completely electronic system with on-line tension control, constantly checks the tension of all the yarns during the intermingling process, both in input and output.



SINCRO SPRINT RW



SINCRO RC



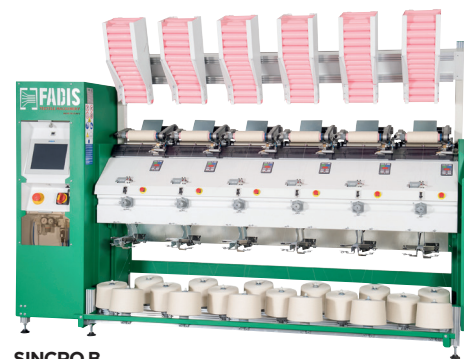
SINCRO MULTIPLA AIR JET PLUS

SILK RANGE

Silk has always been considered as the "Queen" of fibres, once used to dress queens and emperors. Thanks to an historical experience of more than 55 years matured in the winding field (especially for fine yarns), Fadis is world renowned for having among its product range an entire production line dedicated to this noble fibre. In fact, it is the only company in the world to offer a complete line of machines specifically studied for processing this very delicate yarn.

ASSEMBLY WINDER RANGE

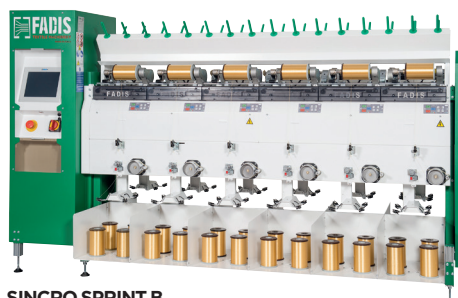
The **SINCRO B - BL - B FT** electronic yarn guided precision crossing machines have been designed for winding speeds as high as 2.250 m/min. The precision crossing technology with positively driven bobbin allows to attain the main object of this production process, that is to obtain bobbins with the highest possible density and the smallest number of breaks, as well as to increase the efficiency during the subsequent twisting phase.



SINCRO B



SINCRO B FT



SINCRO SPRINT B



SINCRO BL

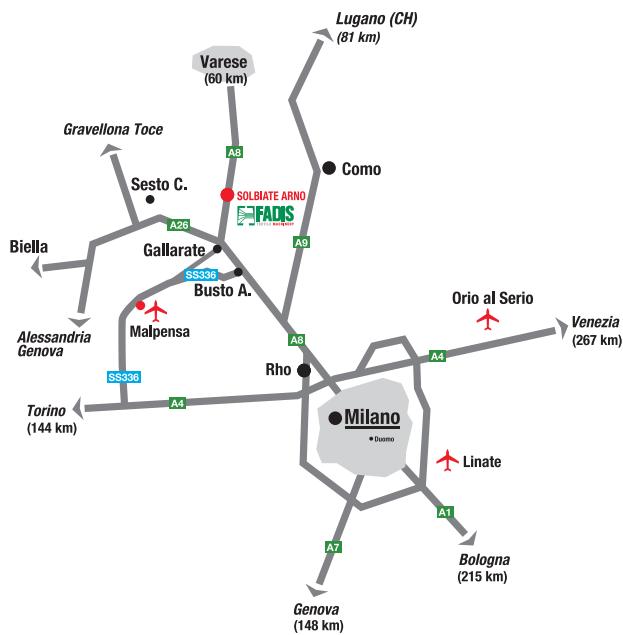


SINCRO BL



FADIS

TEXTILE MACHINERY



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