

*OUR HISTORY SINCE 1960*



 **FADIS**  
TEXTILE MACHINERY



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## OUR HERITAGE

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**Giuseppe Carabelli** should have been a mechanical engineer, but in **1920** he started making socks and pantyhoses and set up **Calzificio F.lli Carabelli**. He bought his first circular knitting machines and put them in the basement at home, keeping them working day and night and always sleeping with one eye open and one closed.

Having come through the hard years of the 2<sup>nd</sup> World War, in **1947** he set up **Mabu Jersey** to produce jersey fabrics. With the arrival of his son Danilo and daughters Franca and Andreina, the business was verticalized by taking on all phases of the process, from yarn to machine, from socks and pantyhose to knitwear, with an in-house dyeing facility too and using cotton, wool, linen, polyester, polyamide and other synthetic fibres.



1960: The founders Armando Canton, Giuseppe Carabelli



2015: Armando Canton, Danilo Carabelli

The increase in production of socks and pantyhoses and growing demand in terms of the quantities, quality and variety of yarns led Giuseppe Carabelli to build his own textile machines. Hence the start of a new adventure in **1960**, when he founded **FADIS** with his friend Armando Canton.

The focus was initially on the **hank to cone winder** and how to modify the machines already on the market involving two processes for passing from hank to the final cone, but they soon abandoned the idea and started to design a **revolutionary machine** that eliminated a step in the production and is still the platform for any new technological development in this sector.

It was the Italian wording for hank to cone winder (dipanatrice) and its location (Solbiate) that gave the business its name (**FADIS - FABBRICA DIPANATRICI SOLBIATE**) and it's still considered avant-garde today.



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# FADIS NOW



## A SUSTAINABLE COMPANY

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Not only quality, innovation and safety but also a company and its machinery that are efficient **in terms of energy and reducing environmental impact**.

In **2010** FADIS replaced all its electrical and heating systems to achieve a high level of energy savings and installed a new **solar power plant** with a peak output of 460 kW. This means an annual energy production of around 650,000 kWh and a **reduction of CO<sub>2</sub>** emissions to the atmosphere of 11.6 tonnes a year.

Since **2011** FADIS has been one of the promoters of “**SUSTAINABLE TECHNOLOGIES**”, a project by Acimit in which companies must employ solutions that gear their production processes to reducing consumption of energy, water and chemical substances and thereby develop a production cycle that’s **more environmentally responsible**. All FADIS’ machines have already **benefitted** under this project, with energy **consumption down** by 12% or more and therefore lower CO<sub>2</sub> emissions and major energy savings for our clients too. FADIS’ machines now consume decidedly less than any others on the market.



In **2013** FADIS started looking at another fundamental aspect of eco-sustainability, that of the dimensions of its machines. Investments in production space and relative lighting and power systems can be reduced by adopting more modern structural designs and new, lighter materials, making for extremely **compact machinery**. All of which helps protect green spaces. The new and highly compact machines have made it possible to increase the loads in the containers by 33%.

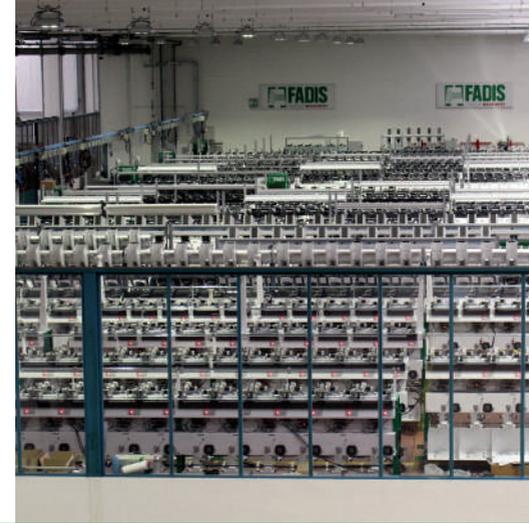


## FADIS 4.0

**Industry 4.0** represents the fourth Industrial Revolution, a process that will lead to increasingly automated and interconnected industrial production.

It is a reality where **machines and robots, interconnected** with “intelligent” computers and algorithms, pursue a common goal: to work independently with increasingly targeted interventions by operators.

Industry 4.0 introduces the concept of “**SMART FACTORY**” in which cyber-physical systems control the company’s physical processes and make shared decisions, thanks to continuous and real-time monitoring of all information.



Digitizing and having advanced technology machines is a path which manufacturing companies can no longer ignore.

This **4.0 revolution** was **started** in **2016** by FADIS by investing in:

- Mechanical processing with new state-of-the-art **tooling and robotic machines**, all **interconnected** with each other and with the other factory systems;
- Production processes;
- **Handling and storage** through **11 automated warehouses**, all interconnected with the company’s IT systems;
- Use of advanced **ICT technologies** for the virtualization of transformation processes.



1800

1<sup>st</sup> INDUSTRIAL REVOLUTION  
**Mechanical Production**



1870

2<sup>nd</sup> INDUSTRIAL REVOLUTION  
**Mass Production**



1970

3<sup>rd</sup> INDUSTRIAL REVOLUTION  
**Automation**



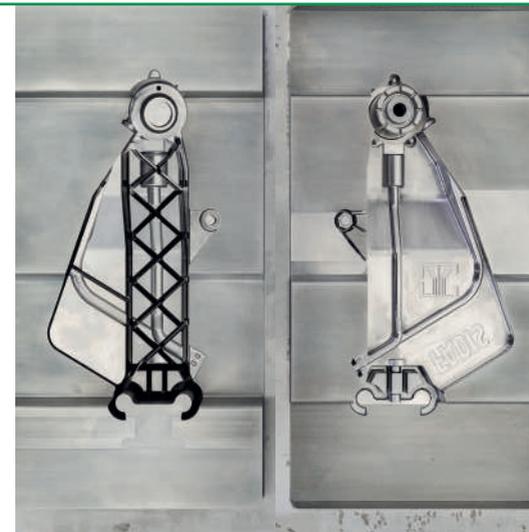
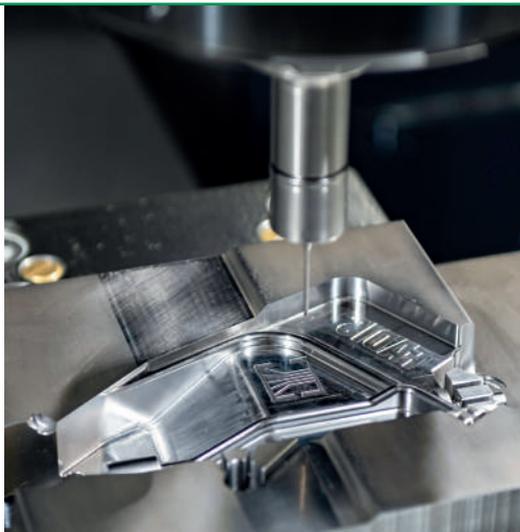
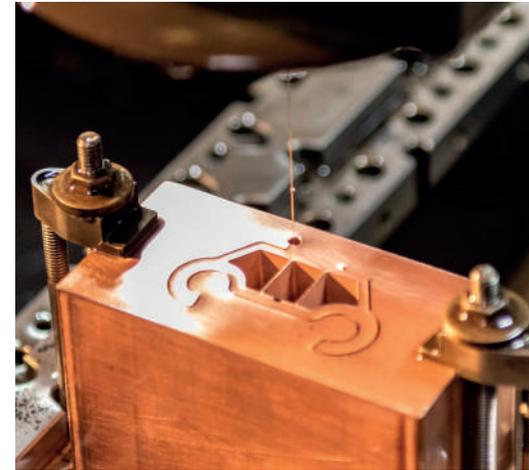
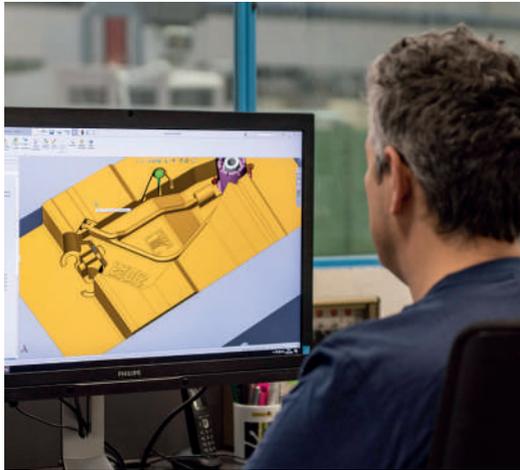
TODAY

**INDUSTRY 4.0**  
**Virtualization/Digitalization**

## A SMART FACTORY

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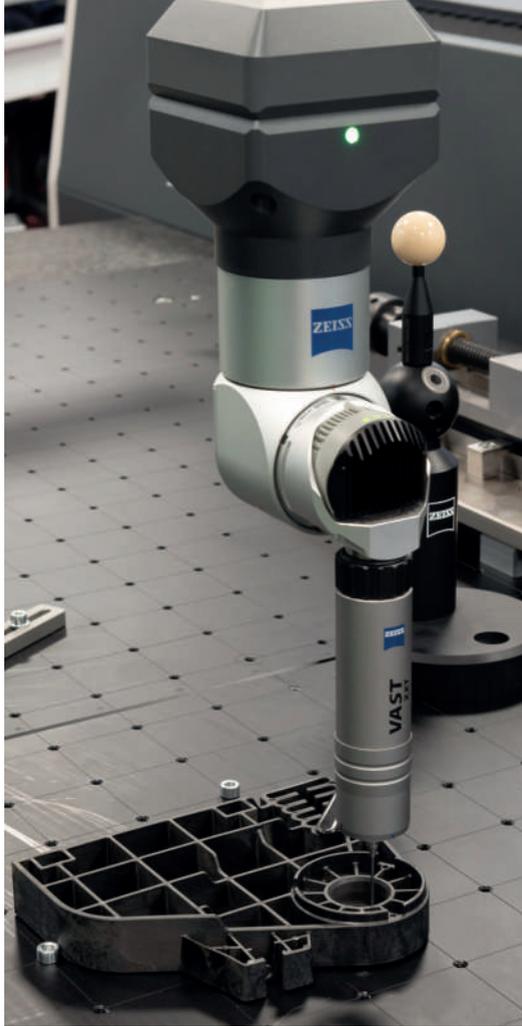
Every single operation, from design to the final assembly of the machines, is carried out within the company, with the most rigorous controls that are synonymous of quality, innovation and safety. **The design and manufacture of the molds** is carried out by specialized **engineers** with the most technologically **advanced software and machines** available today on the market.





The **fully automated mechanical workshop** and the **machines integrated** with each other, are an example of the meaning of Industry 4.0. The work orders are sent by the ERP to the automated warehouse which proposes the materials to be withdrawn, which will subsequently be processed with the aid of state-of-the-art tooling and robotic machines.





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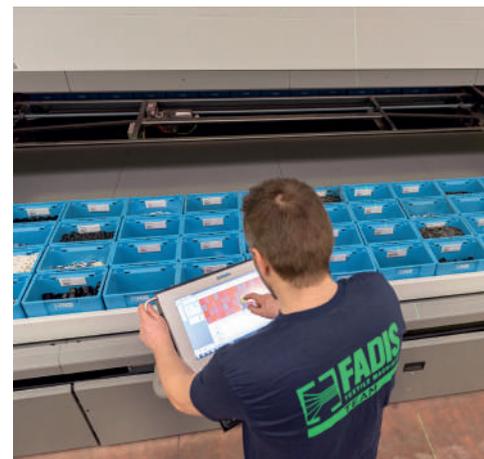
All the parts produced by the mechanical workshop are rigorously checked by the **quality department** using **sophisticated machinery** that verifies the dimensions, consistencies and tolerances calculated by the design office and transmitted directly to the control machines. In this way it is possible to intervene quickly in the event of non-compliance of the components, thus guaranteeing the best quality.

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FADIS has invested in the **reorganization** of the **production processes** by changing all the handling and storage logics through **11 automated warehouses** all **interconnected** with each other and with the **company's IT systems**. All items are packaged in special boxes and coded with special barcodes that guarantee quantity and traceability.

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The last phase, the **assembly of the machines**, is carried out completely inside **the plant** and is organized in such a way that each operator has at his disposal, in a clear and simple way, all the components necessary for its assembly.

All the machines undergo **accurate checks**, the mechanical and electrical components and the software installed are tested before being shipped, this to **guarantee the FADIS quality recognized throughout the world**.

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## 100% MADE IN ITALY

**Quality** has always been the main objective at **FADIS** and the long experience have enabled it to achieve technical results that are hard to rival anywhere in the sector in Italy or the rest of the world. FADIS always insists on offering the best on the market in terms of quality and technology.

**Production is 100% made in Italy**, a synonym for quality, innovation and safety! This quality and **totally Italian** production enabled FADIS to file with the Registro Nazionale Produttori Italiani, a register of manufacturers whose products have to be made:

- entirely in Italy;
- with Italian semi-finished products;
- with natural, prime quality materials;
- with exclusively in-house drawings and designs;
- using typical and traditional Italian artisanal techniques.

Which are all characteristics that have earned FADIS a high international profile.

This is a confirmation of its total commitment to **quality**.

All this is summed up in **FADIS's** logo, a representation of its *raison d'être*.



The certificate is a formal document with a red border and a repeating pattern of the 'MADE IN ITALY' logo. At the top center is the circular logo of the Istituto per la Tutela dei Produttori Italiani (ITPI), featuring a factory icon and the text '100% MADE IN ITALY CERTIFICATE CI ITPI'. Below the logo, the text reads: 'ISTITUTO PER LA TUTELA DEI PRODUTTORI ITALIANI', 'Made in Italy 100% Certificate', and 'REGISTRAZIONE N° IT01.IT/1216.035.V'. The main body of the certificate states: 'SI ATTESTA CHE This is to certify that' followed by 'FADIS TEXTILE MACHINERY' in large, bold letters. Below this, it specifies: 'E' UN MARCHIO CERTIFICATO AVENTE I REQUISITI DEL SISTEMA IT01 - 100% QUALITA' ORIGINALE ITALIANA acts according to system IT01 - 100% Original Italian Quality'. A section titled 'QUESTA CERTIFICAZIONE E' INOLTRE VALIDA PER IL SEGUENTE CAMPO APPLICATIVO:' lists the applicable fields: 'MACCHINE TESSILI E LAVORAZIONI MECCANICHE Textile Machinery and Motorized Production' and 'DITTA PRODUTTRICE E DISTRIBUZIONE Manufacturer and distribution Company'. The certified company is identified as 'FADIS SPA Via Colombera, 70 - 21048 Solbiate Arno (VA)'. The certificate also lists the products covered: 'QUESTI PRODOTTI SONO: These products are:' followed by categories A through E, detailing the manufacturing standards and materials used. At the bottom, the 'Organismo Asseverante: Supporting unit: PROMINDUSTRIA SPA' is mentioned. The certificate is signed by 'WALTER MARTINI President' and 'NAZZARENO VITA Director'. A central stamp area contains a small image of the certificate and the text 'Stamp / Trade Mark Timbro dell'Istituto'. The date 'MILANO, 30/04/2015' is printed below the stamp. At the very bottom, a note states: 'LA VALIDITA' DEL PRESENTE CERTIFICATO MADE IN ITALY E' SUBORDINATA AL RIESAME COMPLETO DEL SISTEMA CON PERIODICITA' ANNUALE The validity of this Made in Italy Certificate is subjected to a periodical complete annual inspection'. The website 'madinitaly.org' is printed at the bottom center.

## FROM ITALY TO THE WORLD

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FADIS enjoys a **worldwide** reputation for the reliability and high quality of its machines. It is based and manufactures in the heart of what was the cradle of Italian industrialization and is still one of the most highly developed parts of the country, Lombardia. FADIS is 40 km north of **Milan** in what has long been a very important textile area, a fact that enabled it to develop a stream of new machines and create a line so complete it could solve any winding problem.

Ever since its set up, FADIS has had a strong vocation for exports and has sold over 550,000 spindles in over **70** countries. Over 90% of its sales, in fact, comes from exports. Experience acquired over the years enables the company to be particularly responsive to market demand and develop, in its own R&D facilities, products that meet the constantly changing needs of its clients.

FADIS exhibits at all the world's major trade fairs in this industry, having gone to its first **ITMA** in Basel in 1967.

FADIS has overseas **offices**, a sales network of over **65 agents** and a local **after-sales** service (worldwide) forming a lean, flexible and efficient organization that's constantly growing and adapting to ongoing changes in the world's markets.



## NOT JUST BUSINESS...

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Giuseppe Carabelli

*«The times when entrepreneurs thought exclusively of production and relegated the human side of labour relations are over. Business organizations today have to be very sensitive to such issues, and especially to the social dimension in which they operate: this is a necessity of life and above all a question of universal rights.»*



Danilo Carabelli

**Giuseppe Carabelli**, founder and chairman of the Carabelli Group, from **1956** to **1968** was also **mayor** of **Solbiate Arno**, having understood that the wellbeing of the town also depended on occupation.

His son **Danilo Carabelli** carried forward this commitment to the community. In **1955** he became president of the local **football club**. He did two terms, **1975/1979** and **1985/1989**, as chairman of **the Union of Industrialists** of the province of Varese, one of Italy's main industrial concentrations.



Raffaella Carabelli

In **1989** he joined the promoters of a new university, Università Carlo Cattaneo – **LIUC**, which was set up in 1991 with a mission to reconcile the needs of the labour market with those of local culture and the academic world.

**Raffaella Carabelli**, the 3<sup>rd</sup> generation, continued with the family tradition of participation in public life as **president of Acimit** from **2013** to **2017**, the Italian Association of Textile Machinery Producers.

## READY FOR THE FUTURE

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As other challenges are emerging, FADIS will continue to work on both products and company organization on new forms of internal organization integrated with increased digitalization to reap the opportunities and benefits given by INDUSTRY 4.0.

It is a continuous journey characterized by traditions and expertise, strength and courage and constant commitment to attaining the best in terms of both technological performance and unfailing responsibility toward our environment and to us.

The story began thanks to the ingeniousness of two men, **Giuseppe Carabelli** and **Armando Canton** grew up with his son Danilo who was able to transform the genius of the two founders into a modern company, while the 3<sup>rd</sup> generation – **Raffaella, Giuseppe, Debora** and **Elena Carabelli** and **Wanda Canton** – are carrying forward the tradition, but with a vision increasingly focussed on the future.

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**The success of a company depends on a lot of people: employees and partners, suppliers and clients, past, present and future.  
To all of you, sincere thanks for having believed and continuing to believe in FADIS.**

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Raffaella, Giuseppe, Debora, Elena Carabelli



YOUR FADIS TEAM



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