

# Company Profile

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english



**RAVITEX®**

powered by

**SINTERLEGHE**  
Your needs. Our quality.

# Company Profile

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english

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Sinterleghe is a Lean Enterprise supported by enabling technologies of 4.0 industry that designs, produces and sells dressers, electrodes changers and dressing tools.

Our products, worldwide patented, are approved and purchased from the most important automotive plants and are used for the automatic change and dressing of electrodes for spot welding guns.

Sinterleghe ambition is to supply to all Partners and Customers advanced technological solutions with high quality products and a fast lead time.

## Who is Sinterleghe

*Leader in design, production and sales of dressers, electrodes changers and hard metal cutters to dress resistance welding electrodes.*

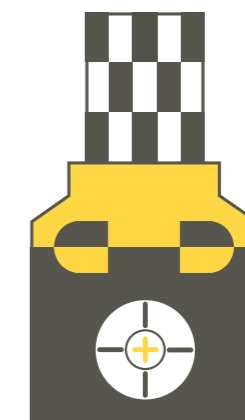
Founded by **Eugenio Tedeschi** in 1989, Sinterleghe has grown thanks to its own development of a Know-How that has allowed to diversify its offer getting to **high quality standards**.

Thanks to its persistence Sinterleghe has conceived new **design solutions** up to become **patents**. This is an added value for the Company that has made innovation and technological evolution its strong point.

Today Sinterleghe is a reference partner for big international groups in the automotive production.

The whole know-how and value stream, design, production, sale, accounting is centralized at the headquarter in Anzola d'Ossola (VB), Italy.

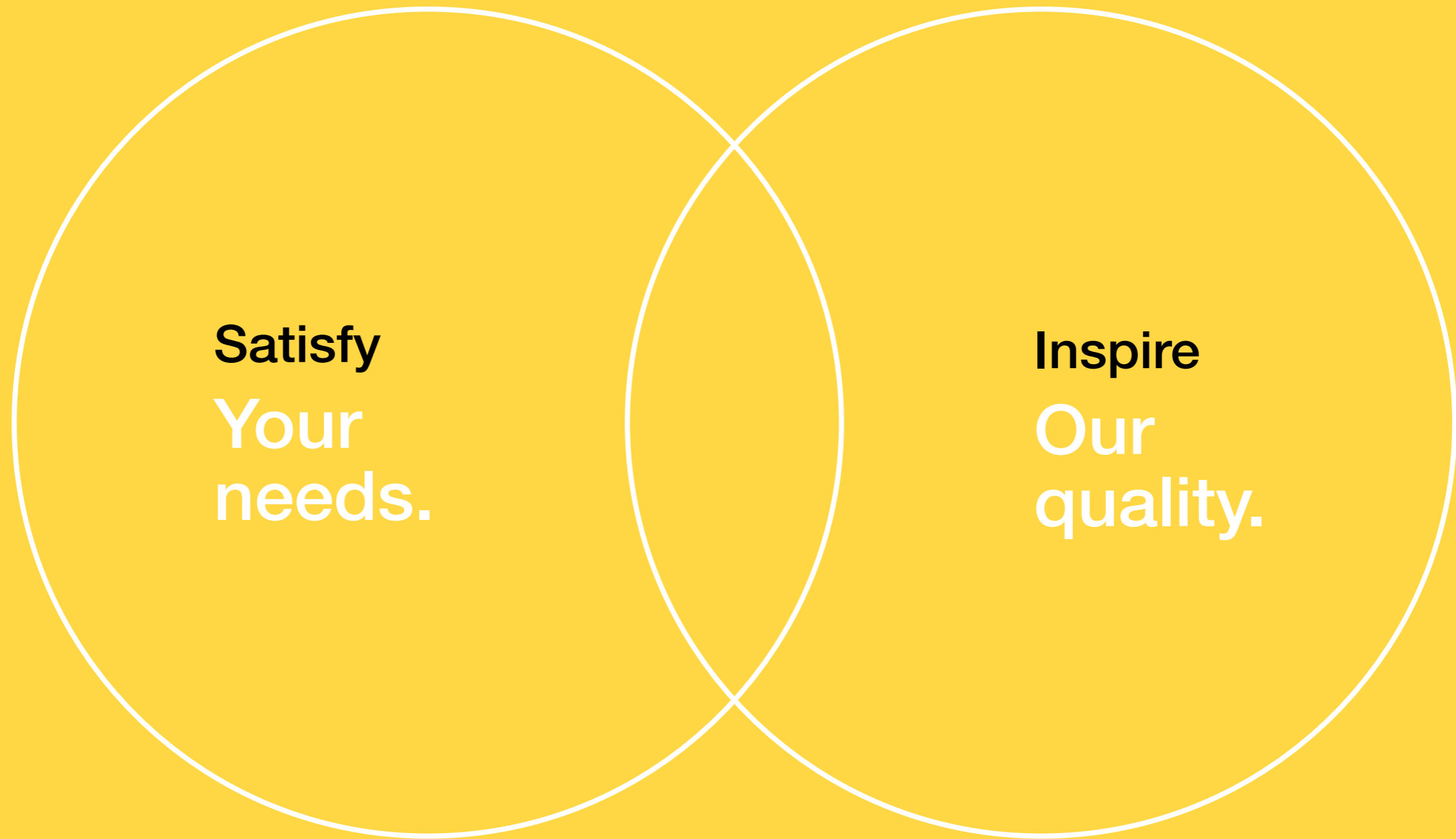
Our products, identified by the registered trademark **Ravitex®**, are sold on 4 continents through our Ravitex® Global Network Partners, which guarantees pre- and post-sales support.



*Our products are known and used everywhere around the world with our trademark Ravitex®*

**RAVITEX®**

# Vision



# Values

## Safety



Health and safety of our employees are the business priority

## Ethics



Transparency, fairness, honesty

## Respect for people



We welcome human resources regardless of their gender, age, race, nationality, religion, psychophysical conditions and socio-economic

## Ongoing training



We encourage the development of multidisciplinary skills with the creation of multifunctional teams, in which high-level performance grow in a culture of honesty, authenticity and healthy conflict with the goal of valuing and develop new skills

## Ongoing improvement



We believe that the main characteristic of an improvement is its constant implementation in the environmental, economic and social fields

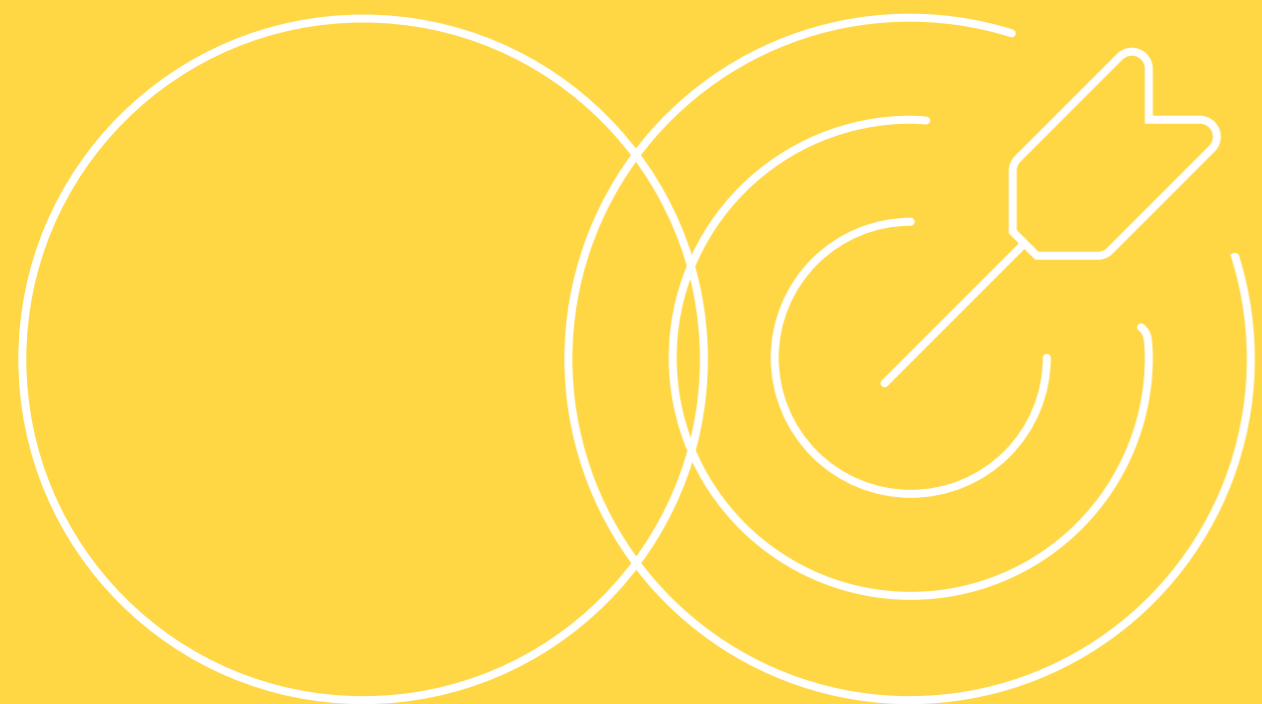
## Communication



The communication, in all its forms, is the main tool to interact with others, transparency represents truthfulness and quality. For this reason, we implement and we share visual systems such as the Matrix business strategy A3X, planning visual board, skill matrix, where you can compare through clear data/facts and track KPIs



Your needs.  
Our mission.



## One mission, more perspective






**We create strategic projects shared in the matrix corporate "A3X" allowing all our stakeholders to achieve their highest goals regarding quality, performance, safety, innovation, profitability and respect for the environment.**

Sinterleghe has strengthened its growth on the global market through the **design and manufacture of technologically advanced products.**

The key point of Sinterleghe is the **development of new products and technological innovation.** The proof are our **patents** and the **markets**, 90% of which is represented by export to the main player in the automotive sector, VW AG group in the first place.

Since 2017, significant investments have been made to transform the business organisation in a **Lean Enterprise.** Especially investments concerned new infrastructures, technologies 4.0 industry production, training and new hires.

### A daily commitment

- |            |   |   |
|------------|---|---|
| <b>01.</b> |  | Maintain an <b>ongoing improvement of our products monitoring all the data</b> that will ensure constant growth in the environmental, economic and social field |
| <b>02.</b> |  | Value our internal process to <b>manage the incoming demand</b>   |
| <b>03.</b> |  | Make products and projects for our Stakeholders being sure to follow our <b>quality and economic sustainability ethic</b>                                       |
| <b>04.</b> |  | Supply to all our Partner and Customers <b>high quality products with competitive prices</b> and a fast lead time   |
| <b>05.</b> |  | <b>Keep a positive attitude to support our Stakeholder</b> and their request of high quality, safety, respect for the environment and economic sustainability   |

Your  
needs.  
Our  
quality.



## Quality: our focus

*Sinterleghe has developed business and organisational skills to improve its quality, competitiveness and performance, working on process innovation and knowledge growth.*

*Quality of a product or a process is represented by:*

- 01.** Be compliant to our Customers' needs
- 02.** Shared supervision of the process
- 03.** Problem solving
- 04.** Repeatability of the process also for large series
- 05.** Preventive maintenance for all our machines and tools
- 06.** Unique performances on the market



# Ravitex® technology: goal orientated

**Thanks to investment on infrastructures, production facilities and staff training, Ravitex® technology has been developed. Our brand is a warranty of quality and singularity of purchased products.**

Sinterleghe internationally is placed at the top for competitiveness, speed and reliability.

Ravitex® technology has enabled innovative product development, able to improve **efficiency** and **quality** of **welding lines**.

Our aim of increasing production capacity, quality, safety and respect for the environment, has been pursued and achieved through the implementation of the most advanced technologies and equipment for the production of Dressers, electrodes Changer and cutters that allowed to **elevate their performance**.

In Sinterleghe's plant of Anzola d'Ossola, has been made a Test Area with robot, welding gun and all Ravitex® products. Here we test our products and we also **train** technical staff (agents, dealers, maintenance staff, etc.) through **practical demonstrations**.



## Goals achieved with Ravitex® technology

01. Longer electrodes life
02. Hard metal cutter life: 60.000 dressing cycles
03. Only 30 seconds to change and dress an electrode
04. Cutter constantly cleaned and suction of chips without dispersion to the ground
05. Reduction of line downtime
06. Creation of special shape hard metal cutters for every type of tip dresser brand and a short lead time
07. Reduction of injuries risk for the replacement of electrodes and cutters
08. Optimisation of welding point after dressing

### Follows



Increased production capacity



Increased quality



Increased safety



Environment respect



Increased profitability of welding line



## Why choose us as a partner

**Sinterleghe puts its experience, knowledge and professionalism at Customer service.**

The goal is to meet the most advanced needs in the sector of the dressing and change of electrodes by the development of a business process reengineering and redesign that passes through technological innovation and constant development of product and process.



### Technological innovation

Sinterleghe's design ideas have become patents, an important guarantee for consumers that testifies the **originality** and **quality** of Ravitex® products.



### Experience and know-how

Collaboration with the major automotive players worldwide has allowed Sinterleghe to develop a **solid know-how** and **in-depth knowledge** of the market reference.



### High quality

Ravitex® products meet the needs of the most advanced lines of production achieving high goals in terms of reduction of process costs, increase in production capacity, quality and respect for the environment.



### Customer care

Ravitex® products come from a careful analysis of our Customers' needs, enabling a relevant Customer experience and with a high rate of customisation.



## Services focused on needs

**An excellent Customer Care is Sinterleghe focus, by offering assistance, support, training and professional advice. Our aim is to satisfy our Customers and achieve the highest quality level.**



### Technical service

The technical staff is very well trained to solve any type of problem and very supportive helping out using Ravitex® products.



### Spare parts support

The spare parts supply is highly professional. We respond to each Customer needs efficiently and quickly, maintaining our high-quality standards. We also have stock of our components located at our branches and partners.



### Technical training

Sinterleghe organises professional courses (e.g. equipment operation, maintenance & application, etc.) with the target of acquire specific technical skills. For this purpose, at the Anzola d'Ossola headquarters, an equipped area has been set up with robots, welding guns and all Ravitex® products.

# Ravitex® products: the result of investment, innovation and quality

**Ravitex® products feature are based on our worldwide Customer needs. Their performance is the result of intellectual innovations and process quality.**

The use of CNC machines enabled for 4.0 industry, allow the product quality constancy thanks to process control. The use of robots for their enslavement guarantees a high flexibility of production capacity. This approach has led to internal and outsourcing process optimisation, reducing delivery times.

All mechanical machining is carried out at the Anzola d'Ossola (VB) plant thanks to the high productivity CNC machines. The process is managed and controlled from a single management software. A metrology room, with controlled temperature, guarantees complete dimensional control of the entire production range.

*List of brands where Ravitex® RX patent EP 2193003 cutter can be installed*

**Europe:** Sinterleghe, Aeg, Brauer, Lutz, Abb, Gem, Amdp, Exrod, Rotec-Tooling

**USA:** Semtorq, Stillwater

**Japan:** Kyokutoh, Obara

**Brasil:** Kappen

**Korea:** KDC

The hard metal three blades can be adapted to every type of bush.

## Machine plus (dressers & electrodes changer)

Compact dresser and changer with 3 patented components integrated

Less programming time on the robot

Highest number of electrodes kept in a magazine with 30% smaller overall dimension comparing to our competitors

Possibility of simultaneous charging of the electrodes

Patented release system that allows extraction of the electrodes clockwise and counterclockwise

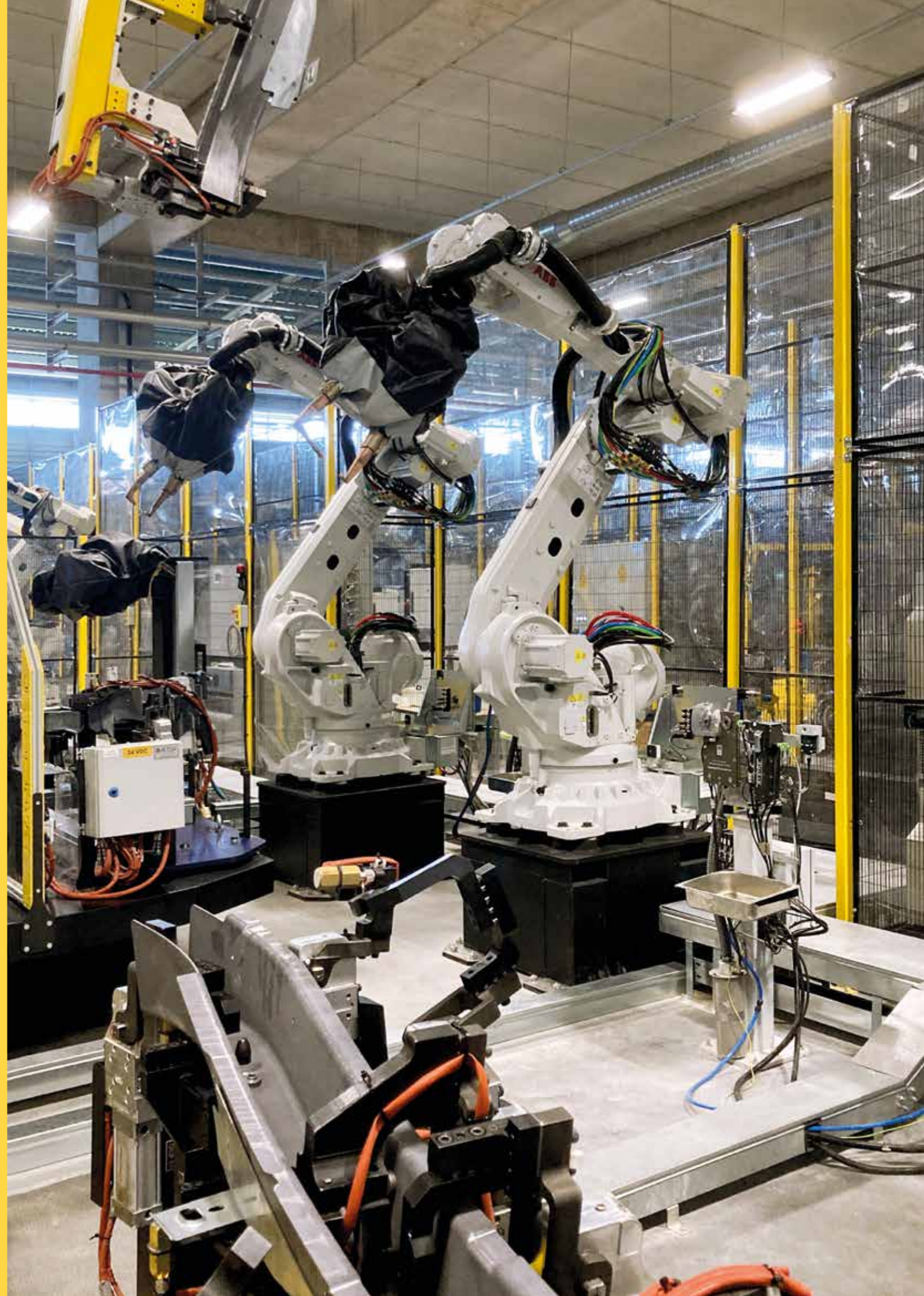
Industry 4.0-friendly solution for replacement and continuous electrode power supply up to 500 electrodes



# They trust us



Your  
needs.  
Our  
patents.



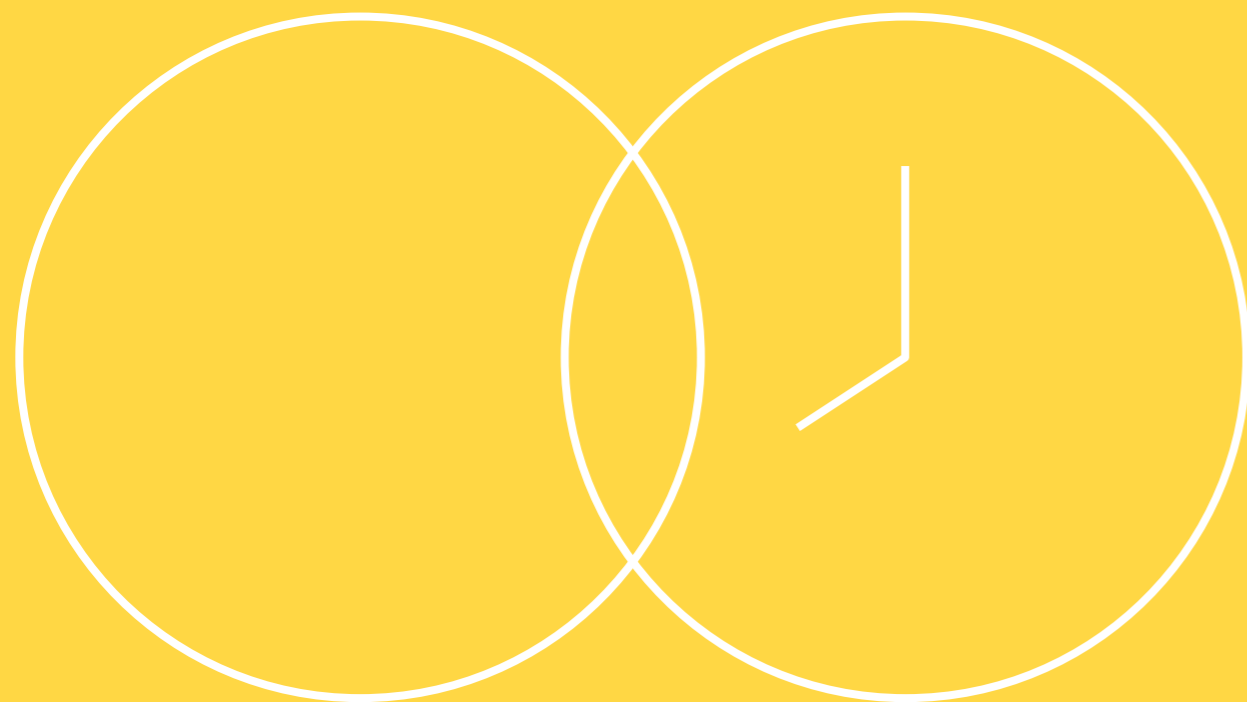
## Solutions that become patents

***The ability to listen to the needs of its Customers is demonstrated by 9 patented technological innovations that meet their requests and certify Sinterleghe's know-how in the industrialisation of product and process and in the research and development fields.***

Sinterleghe keeps designing solutions that becomes patents, thanks to its perseverance in realising the ideas. Our patents protect the talent and the company know-how and are a warranty for all those who seek authenticity and quality of the products purchased. This is an added value that only original author and manufacturers can give.

<b>01.</b>	Registered trademark Ravitex®	Our logo has been created to identify the company's products through a registered trademark
<b>02.</b>	Patent No. 00239855	Unit for dressing electrodes carried by a gripper stationary part of an automated plant of spot welding
<b>03.</b>	Patent No. 0000254577, 0000254578	Support device of a head for dressing electrodes of a welding robot
<b>04.</b>	Patent No. 0001338264	Device for electrodes replacement on spot welding robot
<b>05.</b>	Patent No. 0001361126	Sensing device to check welding electrodes or wire guide torches in welding systems
<b>06.</b>	Patent EU: EP2193003; USA: US 8449231; Brasil: PI 0811814	Cutter for dressing resistance welding electrodes
<b>07.</b>	Patent USA: US 10,618,129 B2; Korea: 10-2111186; China: ZL 201380079531.8; Mexico: N° 375854; Canada: 2,922,869; Eu - Japan - Brasil - India - Thailand: being released	Automated adaptive maintenance system for welding guns' electrodes
<b>08.</b>	Patent EU: EP 3043949; China: CN 105722632B; USA - Japan - Brasil - Korea - Canada - Mexico - India: being released	Power supply device for the electrode's capsule
<b>09.</b>	Patent EU: EP 2938454; China: CN 201380074366.7; USA: US 9417192; Japan: J6266776; Mexico: 362326; Korea: 10-2059711; Canada: 2899534; Brasil - India - Thailand: being released	Optical device to detect the quality of welding guns' electrodes
<b>10.</b>	Patent EU: EP 3227046; China: CN 107206537; USA: US 15533363; Japan: J6564038; Brasil: PI 0811814; Korea - Canada - Mexico - India: being released	Device for electrodes replacement on spot welding robot

Your  
needs.  
Our  
story.



## An history that tastes of future

*In Anzola d'Ossola (VB), where the current plant of Sinterleghe is located, there was once the family sawmill, an important landmark for local companies. Today it has become the headquarters operational of Sinterleghe, where Ravitex® products are made and sold worldwide.*

The headquarters in Anzola d'Ossola (VB), completely renovated and expanded in 2016, hasn't lost the link with the past and with wood, a material widely used in construction elements. An historic venue, albeit recent, which boasts a privileged position thanks to the proximity to Malpensa airport.

Here, Eugenio Tedeschi, wanted to transfer what he learned during his various worldwide trips, developing an efficient and innovative production model. The knowledge acquired in the field, the international influence and the possibility to immediately collaborate with the most important car manufacturers, such as BMW in 1994 and Volkswagen soon after, were decisive for the development of Sinterleghe that has seen its own turnover grow in short time.

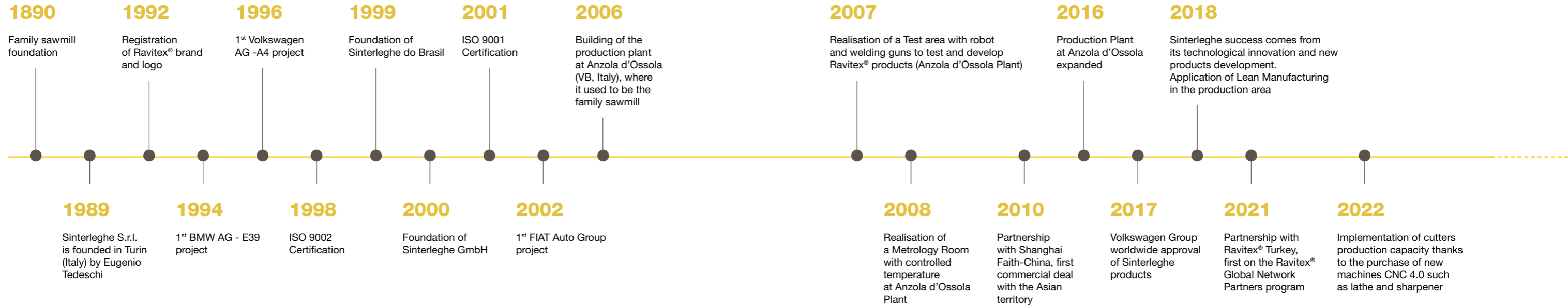
Another important step that allowed the company to **strengthen its know-how** and **establish itself as a worldwide leader** in the design and manufacture of Dressers, electrodes Changers and cutters, was the choice to **produce everything internally** instead than give the job to third parties.

Thanks to its performance, Sinterleghe has managed to sell its product worldwide supplying the most important automotive plants in Germany, Belgium, Czech Republic, Mexico, Brazil, China, USA, India and Turkey. Sinterleghe is now looking to foster new exchanges and joint ventures with emerging giants in the South America and Far East market.

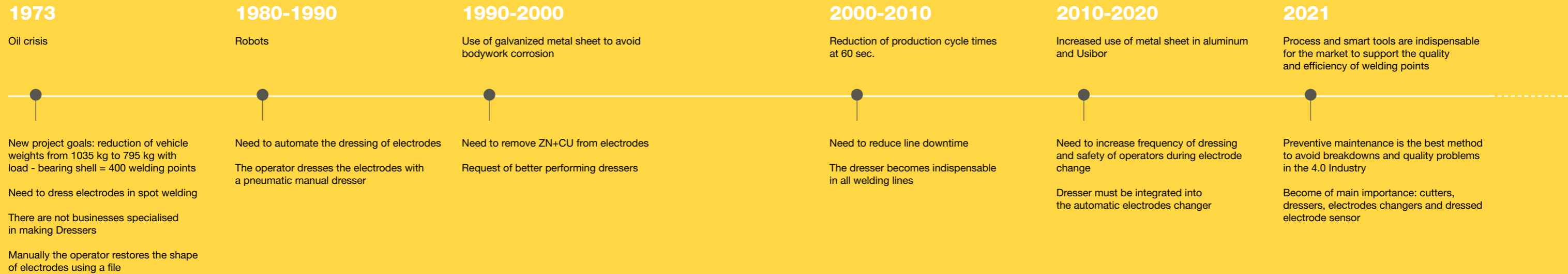
In 2012 the European Community has recognized Sinterleghe's incline for research and innovation. The European Community, under the 7th European Research Framework Program and Technological Development of SMEs, funded the **SMARTDRESS project**: a new adaptive control system fully automated that can optimise, monitor and keep the welding quality unchanged throughout the manufacturing process.

This will allow to carry out the assembly of aluminum bodies at competitive costs, making the production of light vehicles possible, with a consequent reduction of CO<sub>2</sub> emissions.

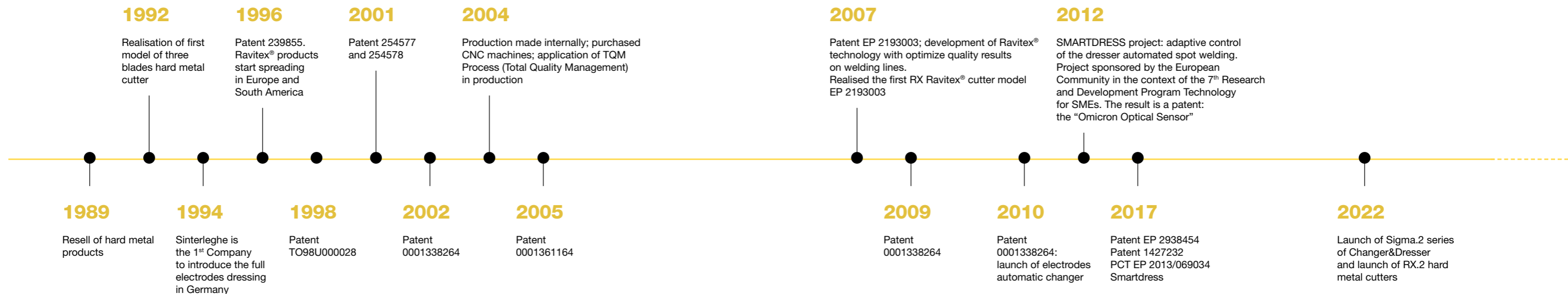
Company history



Automotive manufacturers need



Sinterleghe solutions



# A global panorama

Please check your Country Partner at: [www.sinterleghe.it](http://www.sinterleghe.it)

If you wish to become our Sales Representative, please send an email at: [ravitex.sales@sinterleghe.it](mailto:ravitex.sales@sinterleghe.it)

## Partner: USA & Canada

**J. H. BENNETT & CO., INC**  
22975 Venture Drive  
48376 Novi - Michigan

**Mr. Bill Vincent**  
Tel: +1-810-610-7804  
[bvincent@jhbennett.com](mailto:bvincent@jhbennett.com)

## Partner: Mexico

**AUTOMATICS S.A. DE C.V.**  
Miguel Hidalgo 33 Col. El Colorado  
Municipio de El Marques  
76246 Queretaro

**Ing. Victor Morales Rebollo**  
Tel: +5221 442 141414  
[victor.morales@automatics.com](mailto:victor.morales@automatics.com)

## Branch: Brasil

**SINTERLEGHE DO BRASIL**  
Rua Fabio de Almeida Magalhães 207  
05135-370 Jardim St Elias - São Paulo

**Sr. Massimo Fornasari**  
Tel: +55 11 39 03 0969  
Mob: +55 11941354044  
[massimo.fornasari@sinterleghe.it](mailto:massimo.fornasari@sinterleghe.it)

## Branch: Germany and Benelux

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35041 Marburg a.d. Lahn

**Mr. Umberto Adami**  
Tel: +49 178 5670938  
[umberto.adami@sinterleghe.com](mailto:umberto.adami@sinterleghe.com)

## Partner: Spain and Portugal

**BAMBU TECHNOLOGY S.R.L.**  
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08970 Sant Joan Despi / Barcelon

**Mr. Humberto Ferrer**  
Tel: +34 932 035 540  
[hf@bambutech.com](mailto:hf@bambutech.com)

## Partner: Argentina

**TÜNKERS DE ARGENTINA S.A.**  
Velez Sarsfield 1516  
1879 Quilmes - Buenos Aires

**Sr. Raul Giacché**  
Tel: +54 11 2100-2900  
Mob: +54 911 5801-9949  
[info@tuenkers.com.ar](mailto:info@tuenkers.com.ar)

## Partner: Sweden

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18534 Vaxholm

**Mr. Stefan Borg**  
Tel: +46 (0)8-6732330  
[stefan.borg@svetsradet.se](mailto:stefan.borg@svetsradet.se)

## Location: Italy

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P.IVA IT05719370016

Administration: [accounting@sinterleghe.it](mailto:accounting@sinterleghe.it)  
Sales: [ravitex.sales@sinterleghe.it](mailto:ravitex.sales@sinterleghe.it)

## Partner: Turkey

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Tel: +90 538 057 97 89  
[satis@ravitex.com.tr](mailto:satis@ravitex.com.tr)

**HEADQUARTERS AND MANUFACTURING**  
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Tel: +39 0323 837862

## Partner: India

**NATASHA ENTERPRISES**  
211, DLF Towers, 15, Shivaji  
Marg, Delhi-110015

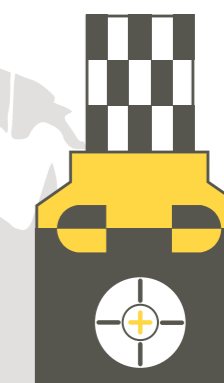
Tel: +91 11 42263403  
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**Mr. Roshan Taunk**  
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[www.natashaenterprises.co.in](http://www.natashaenterprises.co.in)

## Partner: China

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Songjiang District  
201612 Shanghai

**Mr. Lin Xia**  
Tel: +86 5852 7451  
Fax: +96 5852 7461  
[xl@faithmfg.com.cn](mailto:xl@faithmfg.com.cn)



**RAVITEX®**

Global Network Partners

"Best in class" supplier of 4.0 solution  
in the field of electrodes dressing,  
electrodes changing  
and welding spot effectiveness

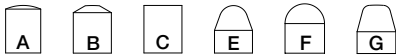
# Data required to receive a quotation

## Electrodes shape

Upper



Lower



## The cutters are used on the following dresser's brand

- |                                      |                                     |
|--------------------------------------|-------------------------------------|
| <input type="checkbox"/> Sinterleghe | <input type="checkbox"/> Gem        |
| <input type="checkbox"/> Bräuer      | <input type="checkbox"/> Semtorq    |
| <input type="checkbox"/> Kyokutoh    | <input type="checkbox"/> Stillwater |
| <input type="checkbox"/> Aeg         | <input type="checkbox"/> Kappen     |
| <input type="checkbox"/> Lutz        | <input type="checkbox"/> Kdc        |
| <input type="checkbox"/> Abb         | <input type="checkbox"/> Amdp       |
| <input type="checkbox"/> Obara       | <input type="checkbox"/> Exrod      |

Other (specify \_\_\_\_\_)

## Metal sheet

- Steel  
 Aluminum  
 Usibor

## I would like to receive an offer for

- Cutter three blade har metal cutter  
 Single blade cutter  
 Sigma tip dresser  
 Sigma dual dresser  
 Sigma swivelling dresser  
 Sigma manual dresser  
 Sigma tip chager  
 Sigma tip dresser & changer  
 Sigma tip dresser & changer for aluminum applicatio  
 Sigma dual tip dresser & changer  
 Sigma dresser & changer continuos tip feeding system  
 Sigma pneumatic changer  
 Other (specify \_\_\_\_\_)

## Electrode shape & diameter

## Welding point diameter (mm)

Electrode diameter upper

- 13    16    20  
 Other (specify \_\_\_\_\_)

- 3,5    5    6    8  
 Other (specify  $\sigma$  \_\_\_\_\_)

Electrode shape upper

- A    B    C  
 E    F    G  
 Other (specify \_\_\_\_\_)

- 3,5    5    6    8  
 Other (specify  $\sigma$  \_\_\_\_\_)

Electrode diameter lower

- 13    16    20  
 Other (specify \_\_\_\_\_)

- 3,5    5    6    8  
 Other (specify  $\sigma$  \_\_\_\_\_)

Electrode shape lower

- A    B    C  
 E    F    G  
 Other (specify \_\_\_\_\_)

- 3,5    5    6    8  
 Other (specify  $\sigma$  \_\_\_\_\_)

Send us your welding gun drawings in one of the following formats: STEP, IGS, XT, SAT, CATPART, DWG, DXF. We will be able to check all the dimensions of the welding guns and any collisions with the dresser or tip changer



*Sinterleghe S.r.l.*

**[www.sinterleghe.it](http://www.sinterleghe.it)**

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