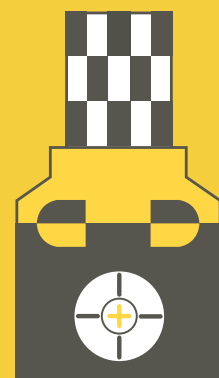


Company Profile

English



RAVITEX®

powered by

SINTERLEGHE

Satisfy your needs. Inspire our quality.

Company Profile

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.

We have the ambition to provide, in a fast time, our partners and customers with innovative technological solutions, through high quality products.

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 strengths.

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 Partner, which guarantees pre- and post-sales support.









Our products are known and used everywhere worldwide with our trademark Ravitex®

RAVITEX®

Vision

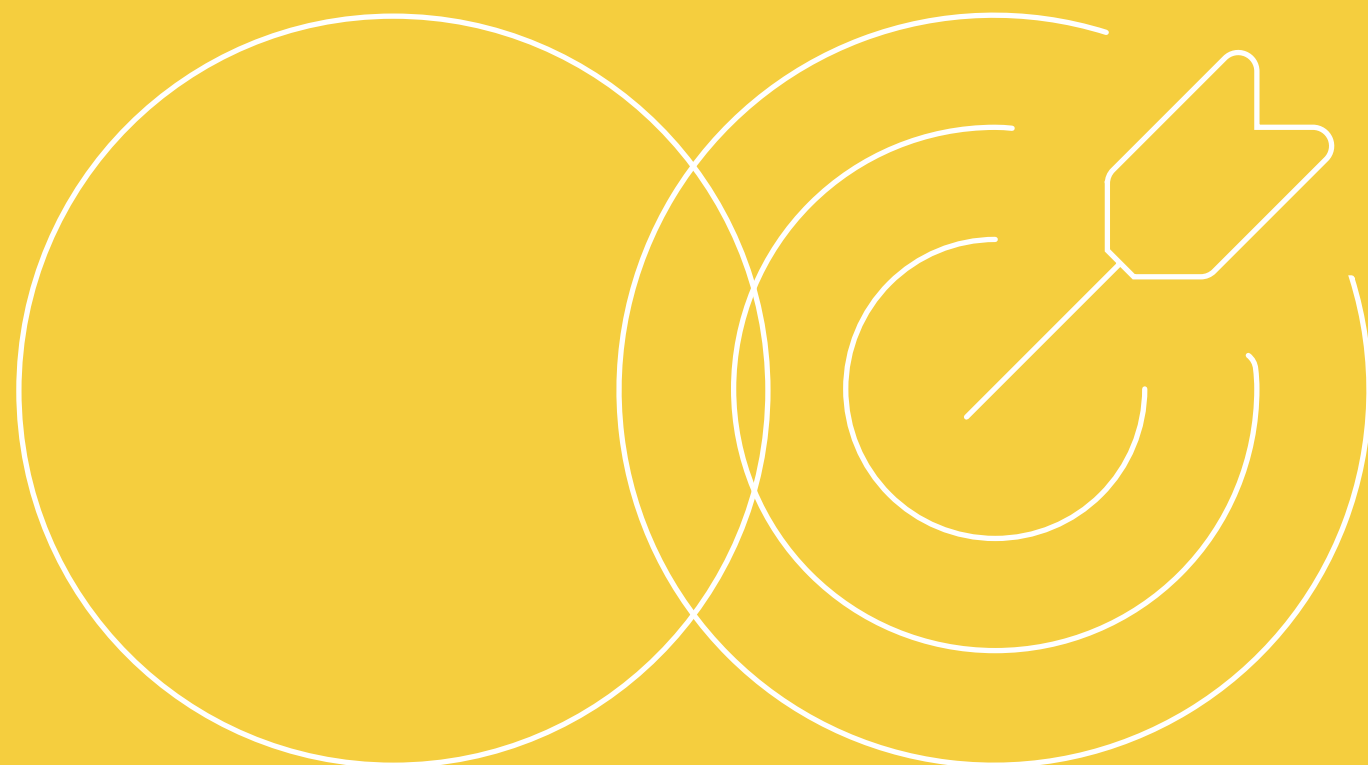


Our value

- 01.**  **Safety and health**
Safety and health of people is the company's priority
- 02.**  **Ethic**
Transparency, fairness, honesty, integrity and teamwork
- 03.**  **Respect for people**
We welcome human resources without distinction of sex, age, race, nationality, religion, psycho-physical and socio-economic conditions
- 04.**  **Continuous training**
We foster the development of multidisciplinary skills by creating multidisciplinary teams, where high-level performance is multiplied in a culture of honesty, authenticity and healthy conflict with the unequivocal aim of enhancing one's skills and developing new ones
- 05.**  **Continuous improvement**
We believe that the main characteristic of a process/product improvement is its sustainability and implementation over time in an interconnected way in the environmental, economic and social field
- 06.**  **Communication**
Communication, in all its forms, is the main tool for interacting with others, transparency represents its truthfulness and quality. For this reason we implement visual boards in front of which teams compare and make daily operational decisions



Your needs. Our mission.



A mission, an unequivocal goal






Mission: master the know-how to produce and evolve applications in the field of dressing and automatic electrode change, integrating them with all the potential of industry 4.0 with the unequivocal goal of creating value for all stakeholders.

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 organization in a **Lean Enterprise**. Especially investments concerned new infrastructures, technologies 4.0 industry production, training and new hires.

A daily commitment

- | | | |
|-----|---|--|
| 01. |  | Maintain an ongoing improvement of our products monitoring all the data that will ensure constant growth in the environmental, economic and social field |
| 02. |  | Value our internal process to manage the incoming demand |
| 03. |  | Make products and projects for our stakeholders being sure to follow our quality and economic sustainability ethic |
| 04. |  | Supply to all our partner and customers high quality products with competitive prices and a fast lead time |
| 05. |  | Keep a positive attitude to support our stakeholders 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 organizational 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 for small and big series
05. Preventive maintenance for all our machines and tools
06. Unique performances on the market



Ravitex® technology: goal orientated

Thanks to investments 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 $\geq +30\%$
- 02. Hard metal cutter life: $\geq 30\ 000$ dressing cycles
- 03. < 30 seconds to change and dress an electrode
- 04. Improved removal of the copper chip
- 05. Contemporary electrode polishing and dressing $Ra < 0.2$
- 06. Reduction of energy consumption $\geq 30\%$ of the motor of the tip dressers

Follows

-  Improvement of the quality of dressing
-  Increase in ROI (Return Of Investment)
-  Increased productivity in BIW (Body In White) processes
-  Reduction of CO2 emissions and electricity consumption



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 dress and change of electrodes' sector by the development of a business process re-engineering and redesign that passes through technological innovation and constant development of product and process.



Technological innovation

Our innovations have become patents, they testify to our attitude towards research and development aimed at anticipating and meeting the needs of our customers



Experience and know-how

For over 30 years we have been listening to the major global automotive players' needs and we have acquired the know-how to evolve application in the dressing field and automatic electrodes change



High quality

Ravitex® products satisfy the most advanced quality requirements of dressing and electrode change

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

Ravitex® Global Network Partner technicians provide on-site assistance



Spare parts support

Sinterleghe offers an efficient spare parts replacement service. 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

We organize at our headquarter courses for installation, maintenance and programming of our devices. 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: result of investment, innovation and quality

Ravitex® technology has allowed the development of innovative products that can improve the quality of the reanimated electrodes by improving the efficiency and productivity of welding lines.

The increase in production capacity of our products' quality, safety and environmental friendliness has been pursued and achieved through the implementation of lean processes supported by enabling technologies of Industry 4.0.

The use of CNC machines enabled for industry 4.0 supported by predictive maintenance, make it possible to maintain the quality of the products constant for small and large series.

The use of robots guarantee a high flexibility of the production capacity.

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, Retek

Japan: Kyokutoh, Obara

Brazil: 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 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

Release system that allows the extraction of the electrodes even in the presence of glue and/or contaminated water

The same model can be used for the electrode change used for welding steel or aluminum sheets



They trust us



Your needs. Our patents.



Solutions that become patents

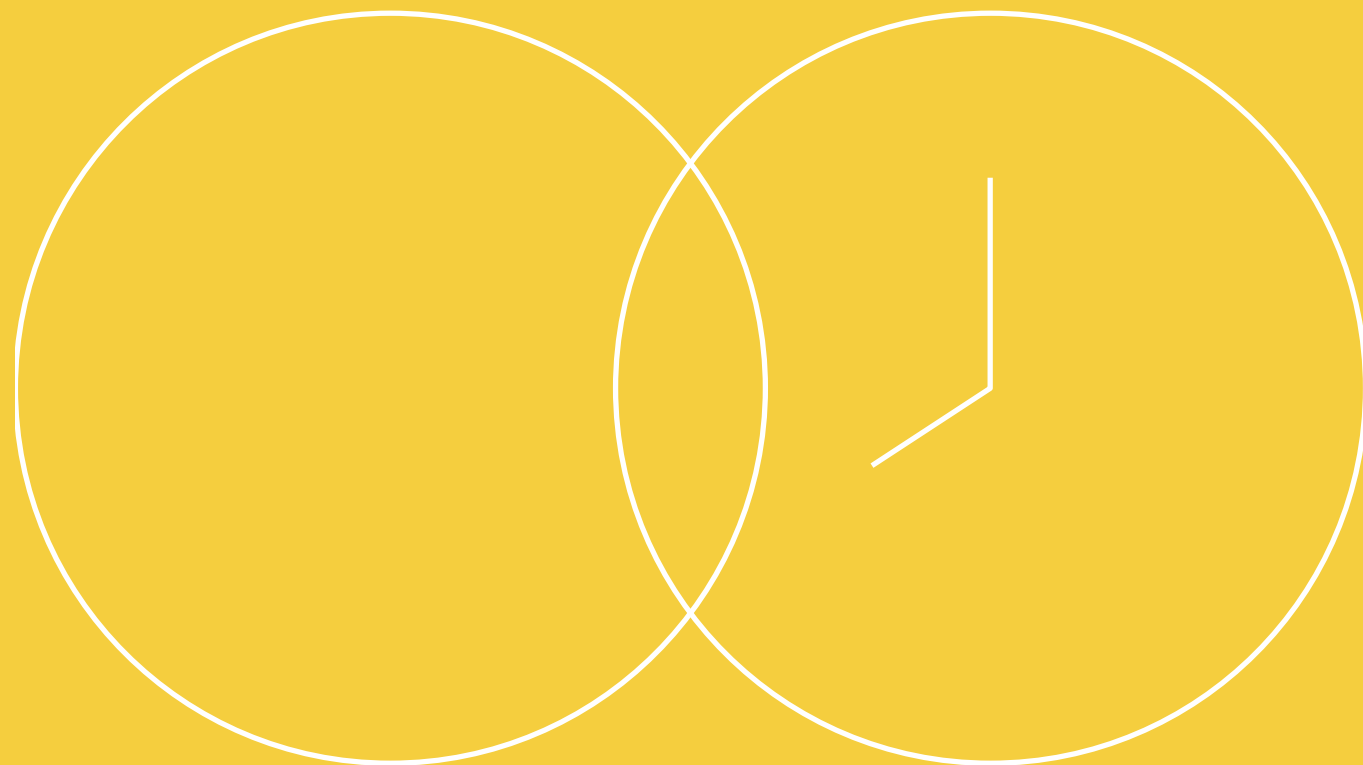
The ability to listen to the needs of its customers is demonstrated by 9 patented technological innovations in the sector, which satisfy their requests and certify Sinterleghe's know-how in the field of automatic dressing and electrode change.

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.

Sinterleghe keeps designing solutions that becomes patents, thanks to its perseverance in realizing the ideas.

| | | |
|-------------|---|---|
| 1992 | Registered trademark Ravitex® | Our logo has been created to identify the company's products through a registered trademark |
| 1996 | Patent IT239855Y1 | Unit for dressing electrodes carried by a gripper stationary part of an automated plant of spot welding |
| 2001 | Patent ITTO20010183U1, ITTO20010184U1 | Support device of a head for dressing electrodes of a welding robot |
| 2002 | Patent ITTO20021032A | Device for electrodes replacement on spot welding robot |
| 2005 | Patent ITTO20050564A1 | Sensing device to check welding electrodes or wire guide torches in welding systems |
| 2008 | Patent EU: EP 2193003; USA: US 8449231; Brazil: PI 0811814 | Cutter for dressing resistance welding electrodes |
| 2013 | Patent USA: US 10618129B2; Korea: 10-2111186; China: ZL 201380079531.8; Mexico: N° 375854; Canada: 2,922,869; EU - Japan - Brazil - India - Thailand: being released | Automated adaptive maintenance system for welding guns' electrodes |
| 2013 | Patent EU: EP 2938454; China: CN 201380074366.7; USA: US 9417192; Japan: J6266776; Mexico: 362326; Korea: 10-2059711; Canada: 2899534; Brazil - India - Thailand: being released | Optical device to detect the quality of welding guns' electrodes |
| 2014 | Patent EU: EP 3043949; China: CN 105722632B; USA - Japan - Brazil - Korea - Canada - Mexico - India: being released | Power supply device for the electrode's capsule |
| 2015 | Patent EU: EP 3227046; China: CN 107206537; USA: US 15533363; Japan: J6564038; Brazil: PI 0811814; Korea - Canada - Mexico - India: being released | Mechanism for releasing electrode caps from a spot welding gun with rotatable member and two sets of gripping rolling means |

Your needs. Our story.



A story that speaks of future

Speak of Sinterleghe, means speak of the path followed during the years to become the company of today.

This path is continuously developing Sinterleghe. Its success comes from this path that has created value for Sinterleghe itself, for its customers and all the stakeholders. Creating value for people permits to create economical value; valuing everyone's talent and ideas is a powerful tool to grow as company.

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 our products performances, we have sold to some of the most important automotive plants around the world.

| 1989 | 1992 | 2007 | 2018 | 2023 |
|---------------------|------------------------|-------------------------------|--------------------------------------|-------------------|
| Sole proprietorship | Sole proprietorship | Business company | Business company | Lean Enterprise |
| Employees: 2 | Employees: 4 | Employees: 10 | Employees: 20 | Employees: 28 |
| Products: 2 | Products: 4 | Products: 6 | Products: 10 | Products: 15 |
| Market: Italy | Market: Italy, Germany | Market: Europe, South America | Market: Europe, South America, China | Market: Worldwide |
| | Trademarks: 1 | Trademarks: 1 | Trademarks: 1 | Trademarks: 1 |
| | | Patents: 5 | Patents: 9 | Patents: 9 |

Future

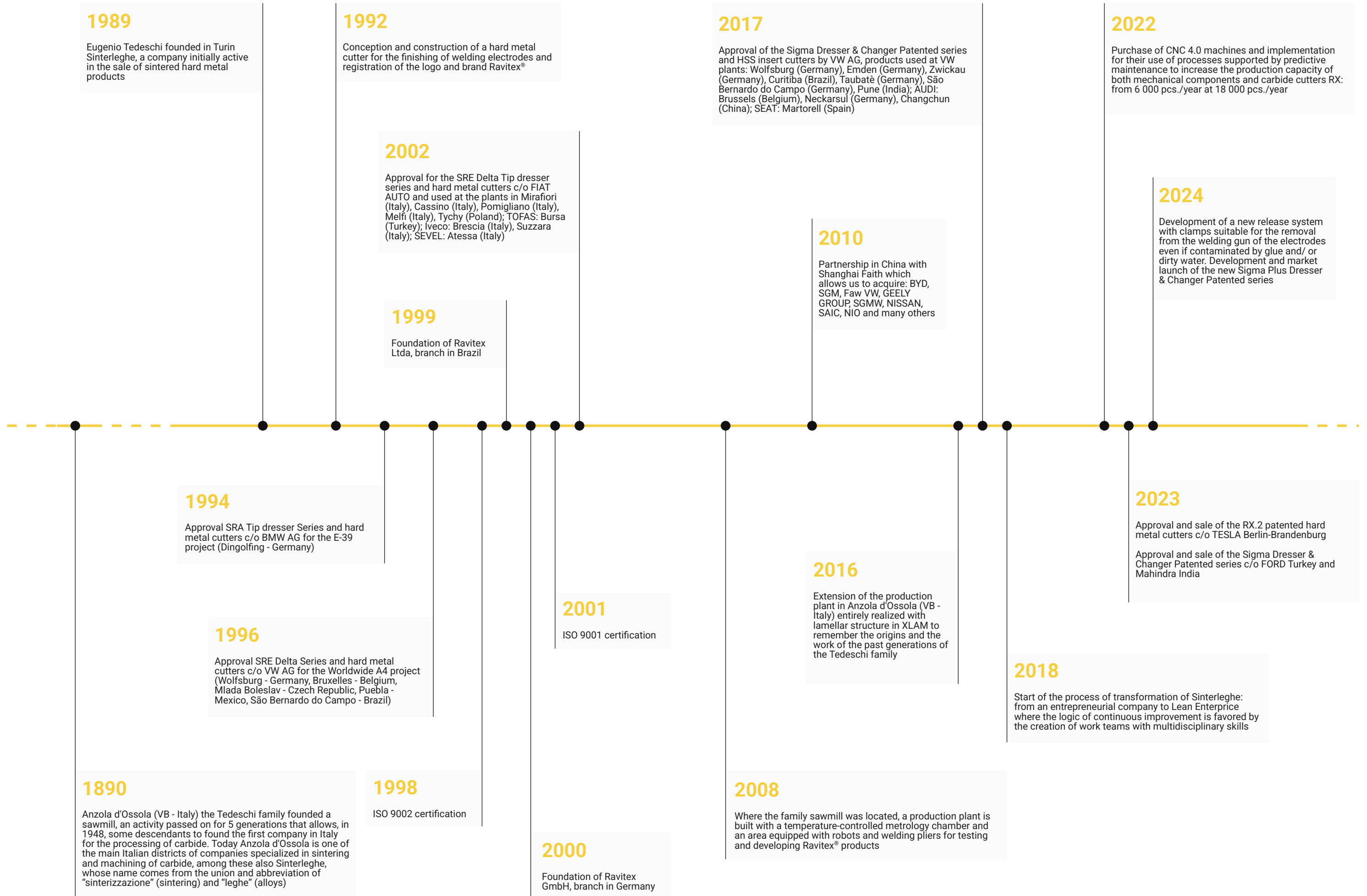
Continuous improvement according to the principles of lean production



2024

In line with current technical requirements, we have redesigned and tested all the elements of the transmission chain and the release system that have allowed us to evolve and improve the performance of our tip dressers and tip changers.

- Release of the electrodes even in the presence of glue and/or contaminated water
- The same model for electrode change used for welding steel or aluminum sheets



RaviteX® Global Network Partner

Check your Country's partner on: www.sinterleghe.it
To become part of our sales organization, send e-mail to: 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

Partner: Mexico

AUTOMATICS GROUP
Carretera Estatal 100 Ext. 4200 Int. 32
Parque Industrial Aeropuerto
76295 Colon Queretaro

Ing. Victor Morales
Tel: +52 442 455 7169
Tel: +52 442 221 5426
customerservice@automaticsgroup.com
victor@automaticsgroup.com

Branch: Brazil

RAVITEX LTDA
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
raviteX.brasil@raviteXgroup.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

Partner: UK & Ireland

MRK ENGINEERING SOLUTION LTD
Hill House, 23-25 Spur Road
PO6 3DY Cosham Hampshire GB

Mr. Martin Smith
Tel: +44 7557 850370
martin.smith@mrk-eng.com

Partner: Spain & Portugal

BAMBU TECHNOLOGY S.R.L.
Avda. Mare de Deu de Montserrat, 21
08970 Sant Joan Despi / Barcelona

Mr. Humberto Ferrer
Tel: +34 932 035 540
hfc@bambutech.com

Main site: Italy

REGISTERED OFFICE
Corso Luigi Einaudi, 18
10129 Torino

P.IVA IT05719370016
accounting@sinterleghe.it

HEADQUARTER AND PRODUCTION SITE
Via alla Sega, 10
28877 Anzola d'Ossola (VB)

Tel: +39 0323 837862
raviteX.sales@sinterleghe.it

Partner: Czech Republic & Slovakia

ARTWELD S.R.O.
Nádražní 120
460 06 Liberec-Rochlice

Mr. Tomáš Jindrák
Tel: +420 482 345 556
info@artweld.cz

Branch: Germany

RAVITEX GMBH
Wieselacker 7A
35041 Marburg a.d. Lahn

Mr. Umberto Adami
Tel: +49 178 5670938
umberto.adami@raviteXgroup.com

Partner: India

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

Mr. Roshan Taunk
Tel: +91 11 42263403
Mob: +91 11 42283196
rt@natashaenterprises.co.in

Partner: Turkey

RAVITEX BILEME EKIPMANLARI LTD ŞTI
Alaaddin Bey Mh. 616. Sk. Zer5 Plaza Ofis B11
16120 Nilüfer / Bursa

Mrs. Menekşe Kardeş
Tel: +90 538 057 97 89
info@raviteX.com.tr

Partner: Sweden

SVETSRADET AB
Soldatgatan 14
18534 Vaxholm

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

Partner: China

SHANGHAI FAITH CO., LTD.
No. 258 Xinzhuan Road
Songjiang District
201612 Shanghai

Mr. Lin Xia
Tel: +86 5852 7451
Fax: +96 5852 7461
xl@faithmfg.com.cn



Global Network Partners

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

Where we are and how to reach us



Our Headquarter is 70 km from Malpensa airport, motorway A4/A26 exit "Anzola d'Ossola"

Sinterleghe S.r.l.

www.sinterleghe.it

Registered office
Corso Luigi Einaudi, 18
10129 Turin - Italy
accounting@sinterleghe.it

Headquarter & production site
Via alla Sega, 10
28877 Anzola d'Ossola (VB) - Italy
Tel: +39 0323 83 78 62
ravitex.sales@sinterleghe.it