

Company history

1872 _ Tedeschi's family founds the sawmill. From 1948 all their descendants have founded many companies in the field of sintering and carbide processing, among them Sinterleghe



1989 _ Eugenio Tedeschi founds Sinterleghe in Turin (Italy)

1992 _ Registration of Ravitex® brand and logo

1998 _ ISO 9002 Certification

1999 _ Foundation of Ravitex Ltda in Brasil

1998-2007 _ Deposited 5 patents



2000 _ Foundation of Ravitex GmbH in Germany

2001 _ ISO 9001 Certification

2006 _ Built first part of the new building in Anzola d'Ossola (VB), where it uses to be located the Tedeschi's sawmill

2010 _ Partnership with Shanghai Faith in China. First commercial deal in Asia

2011 _ SMARTDRESS Project coordination under the 7th research program and technological development SMEs

2013-2018 _ Deposited 4 Worldwide patents

2016 _ Expansion of the Anzola d'Ossola plant (VB)

2017 _ Volkswagen AG group approves Sinterleghe's product Worldwide

2018-2022 _ To transform the business from entrepreneurial to managerial, have been invested millions to purchase CNC and to form a team



2021 _ Launch of the Ravitex Global project Network Partners, grant of use of the Ravitex brand in Turkey

2023 _ Sinterleghe is a Lean Enterprise supported by enabled 4.0 technologies



Satisfy your needs _ Development of resistance welding technologies

1973

Use of electrodes, 400 welding points used to assemble and lighten the body of motor vehicles

1980-1990

Spot welding robots are used, **it is necessary to restore the diameter** of the electrodes in less time

1990-2000

The body is made of galvanized sheet metal, **it is necessary to remove the brass deposit** from the welding lens of the electrodes

2000-2010

Reduction of production cycle times, **it is necessary to extend the life** of the electrode to avoid interruption of production

2010-2020

Diffusion of high-strength sheets, the frequency of dressing increases, waist of the electrode is reduced, **it is necessary to reduce electrode replacement times**

2021-...

Use of aluminum sheets: to lighten the weight of electric vehicles and support the quality and efficiency of spot welding lines, **it is necessary have more efficient technologies** in the dressing and automatic electrode change field

Inspire our quality _ Evolution of Sinterleghe technological solutions

Worn electrodes are revived manually with a rasp



1992 _ To restore the diameter of the electrodes, a pneumatic manual dresser and a hard metal cutter are designed



1994 _ To remove the brass deposit from the welding lens, it has been designed a **three blades hard metal cutter 3TL**, used by BMW AG in the ED39 project at the Dingolfing plant (Germany)



2007 _ To extend the life of the electrode has been designed and patented a three blades hard metal cutter RX to remove less material. By 2022 have been sold more than 80,000 pieces worldwide



2013 _ To reduce replacement times of the electrodes is designed and patented the Sigma tip dresser & changer. By 2022 have been sold more than 10,000 pieces worldwide



2023-... **More efficient technologies** have been industrialised through a process and product redesign.

- RX cutter: dresses and polishes the electrode simultaneously
- Sigma tip dresser & changer: solution for continuous external loading up to 500 electrodes to power 2 to 4 devices simultaneously
- Other innovative devices are being developed, will be commercialised from 2024

