



Your innovation Partner for  
Smart Solutions



Our mission is to offer the best solution to  
our customers



Our vision is to be a point of reference for  
innovative technologies

With over 25 years of expertise, we deliver high-quality solutions across diverse sectors, including automotive, smart technologies and industrial systems.



### AUTOMOTIVE

- Interior
- Air deflectors
- Engine compartment
- Electro mobility



### SMART PRODUCTS

- Sport
- Lifestyle
- Medicine



### INDUSTRY

- Automation
- Construction Industry
- Agriculture



## INTERNAL

### TOOL MANUFACTURING

Injection molding up to 500 kg

### PRODUCTION

Injection molding up to 180t

Micro-injection (10t)

Custom automated production lines

## DEVELOPMENT

Design

Hardware & Software solutions

Material optimization

## EXTERNAL

### TOOL MANUFACTURING

Injection molding

Multi-component injection molding

Gas-assisted injection molds (GID)

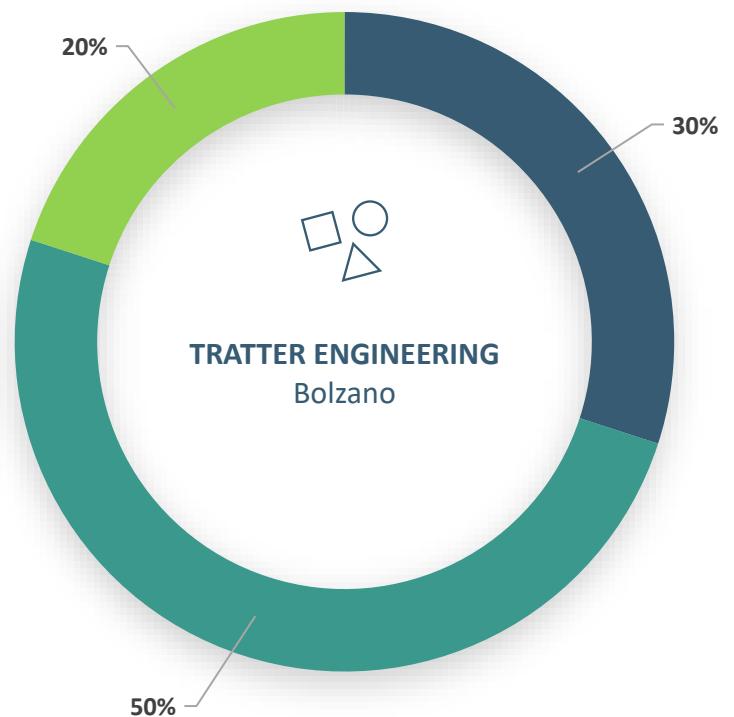
Blow molding

### PRODUCTION

External component production

injection and blow moulding

Custom automated production lines



# CUSTOMERS

**tratter**®

We are proud to have earned the trust of prestigious automotive and other industry partner companies through precision, flexibility, and reliability.

## DIRECTLY



## INDIRECTLY



# DELIVERY LOCATIONS

**tratter**



EUROPE



AMERICAS



ASIA

Austria  
Bosnia and Herzegovina  
Czech Republic  
England  
France  
Germany  
Hungary  
Italy  
Netherlands  
Poland  
Romania  
Serbia  
Slovakia  
Switzerland

Brazil  
Mexico  
USA

China



Our headquarters in Bolzano, Italy, and production facilities in Rankweil, Austria, and Wroclaw, Poland, ensure seamless service and a strong European presence.

### TRATTER ENGINEERING BOLZANO

Via Waltraud Gebert-Deeg 10  
I-39100 Bolzano

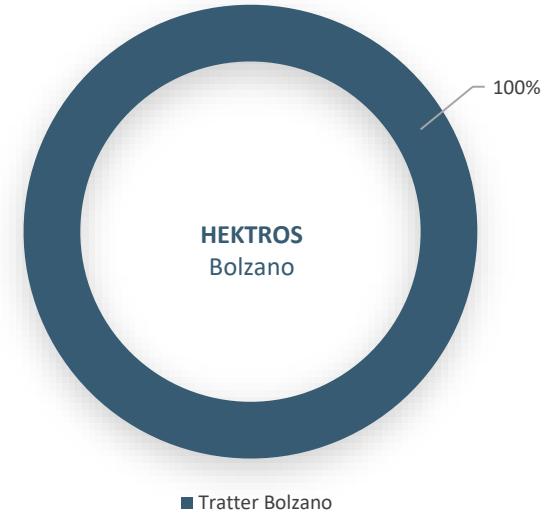
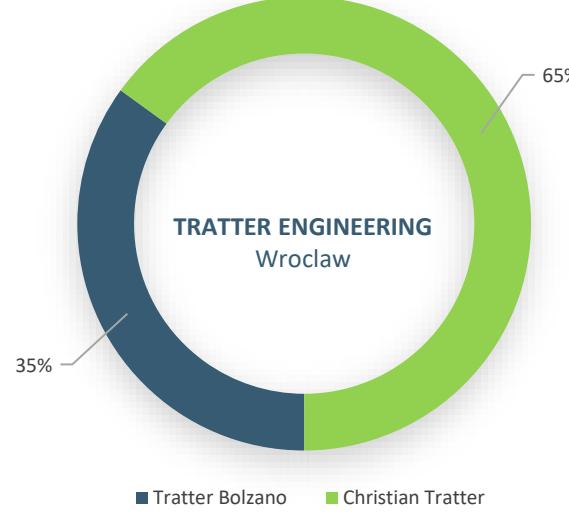
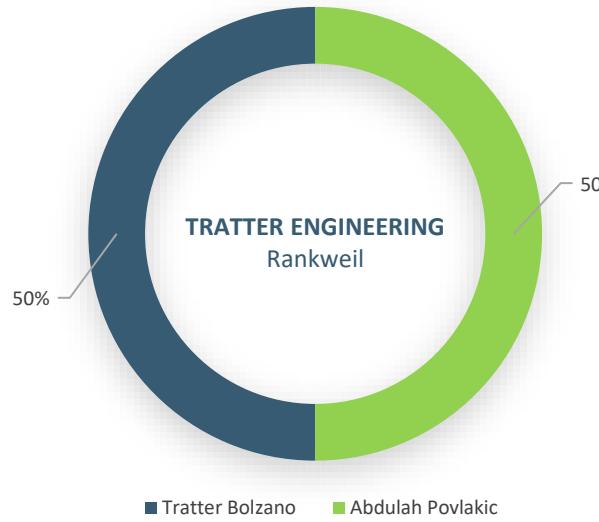
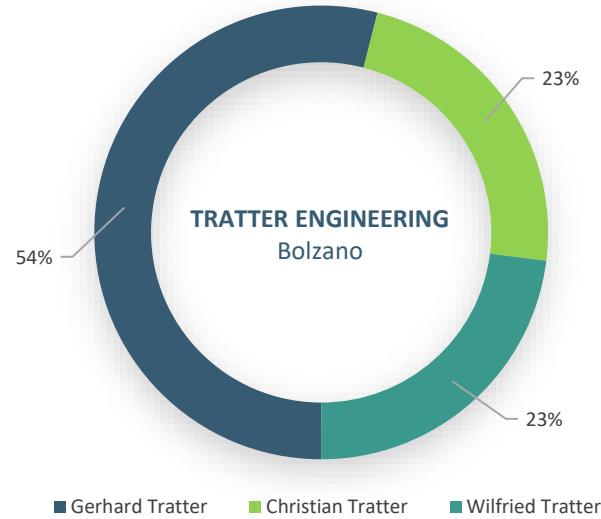
### TRATTER ENGINEERING RANKWEIL

Schweizer Straße 96  
A-6830 Rankweil

### TRATTER ENGINEERING WROCLAW

UL. Odolanowska 19A  
PL-51219 Wroclaw





AT OUR HEADQUARTERS IN BOLZANO, WE DEVELOP AND MANUFACTURE A WIDE RANGE OF SOLUTIONS FOR OUR CUSTOMERS, FROM TOOLS TO COMPLEX COMPONENTS WITH INTEGRATED AUTOMATION SYSTEMS.



**YEAR OF FOUNDATION**  
1998



**EMPLOYEES**  
55



**INVEST IN DEVELOPMENT**  
2.5%



**OFFICE / PRODUCTION**  
1,000qm / 1,800qm

## INJECTION MOLDING PRODUCTION

- 7 Injection machines ENGEL 40 – 110 tons
- 6 Injection machines Wittmann 12 – 180 tons
- 1 Boy XS 10 tons
- 1 2K Injection machine 850 tons

## SOFTWARE

- |                      |  |
|----------------------|--|
| <b>CAD / CAM</b>     | CATIA / Solid Works / VISI CAD / MasterCAM |
| <b>Interfaces</b>    | CATIA                                      |
| <b>Simulations</b>   | 3D Moldex                                  |
| <b>Data exchange</b> | Odette / FTP Server / OS4X                 |
| <b>Design</b>        | Adobe Creative Suite                       |

## TOOLSHOP

- 3 CNC Milling machines (5-axis)
- 1 CNC Lathe turning center
- 1 Sinking erosion machine
- 1 Sauer Lasertec 40
- 1 Grinding machine

## LABORATORY / MEASURING TECHNOLOGY

- 1 Optical and tactile ZEISS measuring machine
- 1 Tactile Zeiss measuring machine
- 1 Roughness measuring device
- 1 Heat storage furnace
- 1 Burst pressure device
- 1 Zeiss Microscope
- 1 Tensile and compression testing machine

## PROTOTYPE

- 1 3D Printer Ultimaker
- 1 3D Printer Prusa
- 1 3D Printer Bamboolab X1E

AT OUR FACILITY IN RANKWEIL, WE PRODUCE A VARIETY OF SOLUTIONS USING HIGH-QUALITY MATERIALS FOR SMALL SERIES OF RENOWNED AUTOMOTIVE MANUFACTURERS.



**YEAR OF FOUNDATION**  
2008



**EMPLOYEES**  
34



**INVEST IN DEVELOPMENT**  
1.0%



**OFFICE / PRODUCTION**  
350qm / 5,500qm

## MACHINERY

- 7 Waterjet cutting machine
- 1 CNC 5-axiys True Laser Cell 7020
- 5 Press 400 tons
- 1 Digital cutter 2,000 mm
- 3 Hotplate furnace
- 2 Glue spraying equipments
- 1 Vacuum thermoforming system
- 1 CNC 3-axys automated dispensing system for adhesive
- 1 Nitrogen system for laser
- 2 CNC 6-axys processing center
- 1 Vertikal 300T 2K injection moulding machine

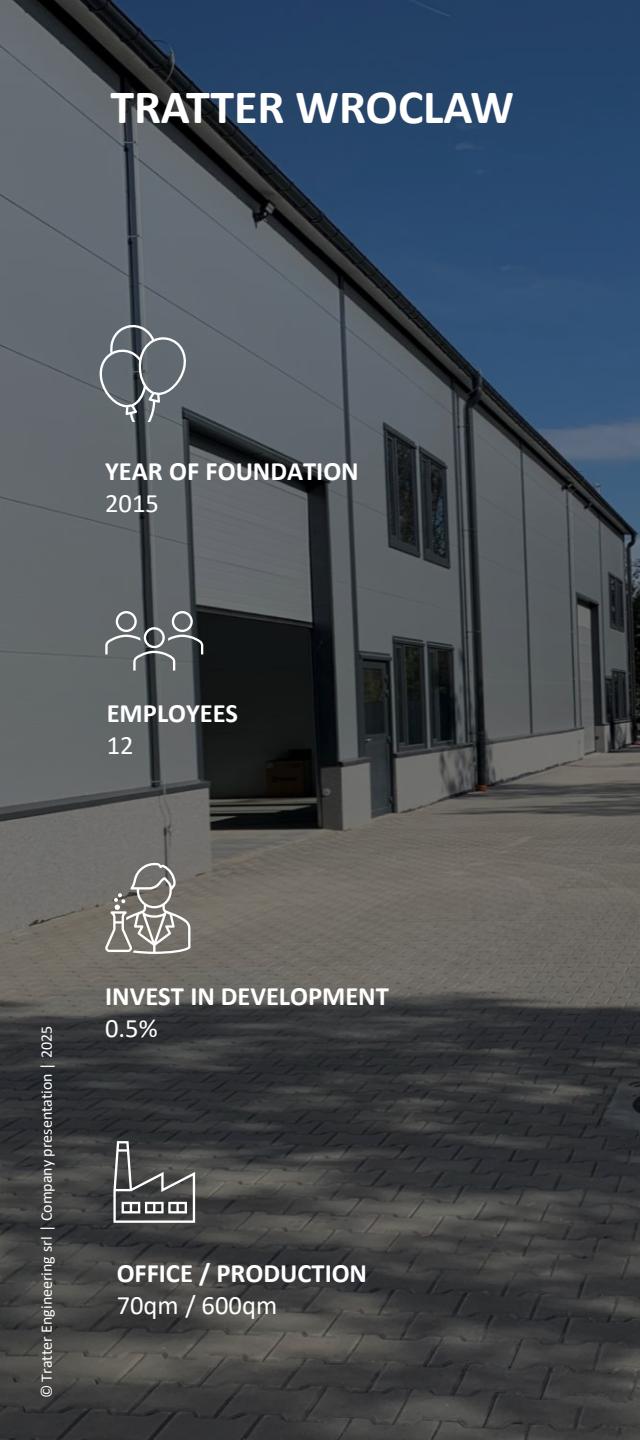
## SOFTWARE

- CAD** CATIA / Auto-CAD
- Interfaces** CATIA
- Measuring programm** Calypso
- Data exchange** Odette / FTP Server / OS4X

## LABORATORY / MEASURING TECHNOLOGY

- 1 Optical and tactile ZEISS measuring machine
- 1 ROMER measuring arm

# TRATTER WROCLAW



AT OUR FACILITY IN WROCLAW, WE MANUFACTURE A WIDE RANGE OF MATERIALS THAT ARE ESSENTIAL FOR THE FINAL ASSEMBLY PROCESSES AT OUR PLANTS IN RANKWEIL AND BOLZANO.

**tratter**®

## MACHINERY

- 1 Press 300 tons
- 1 Quick lift press
- 1 Hot plate furnace
- 1 Automated dispensing system for adhesive
- 1 Nap- machine

## SOFTWARE

- |               |                            |
|---------------|----------------------------|
| CAD           | CATIA / Auto-CAD           |
| Interfaces    | CATIA                      |
| Data exchange | Odette / FTP Server / OS4X |

We offer professional services across various fields, providing solutions from design and prototype development to the final products, including packaging.



## DEVELOPMENT

Design

Electronics

Plastics

## TOOL MANUFACTURING

Injection molding

Multi-component injection molding

Gas-assisted injection molds (GID)

Blow molding



## PLASTIC COMPONENTS

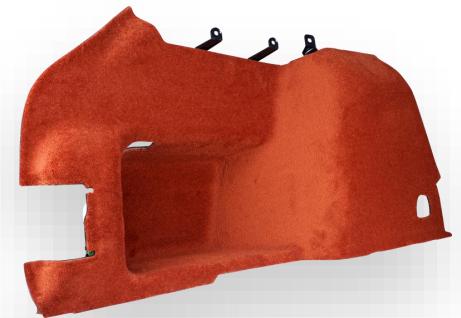
Injection molding

Multi-component injection molding

Gas-assisted injection molding (GID)

Blow molding

Assembling



## PRESS LAMINATING

Leather processing

Heat lamination

Metal processing

Natural fiber composit

## DEVELOPMENT

**tratter**<sup>®</sup>

At the request of our customers, we develop a wide range of customized solutions, ranging from prototype components to series production parts.



### DESIGN

Industrial / Product Design  
UX / UI Design  
Graphic Design  
Packaging Design



### PLASTIC COMPONENTS

3D printing  
Injection molding  
Multi component molding  
Overmolding of electronic devices



### ELECTRONICS

Hardware  
PCB's  
Complex custom solutions  
Software

## TOOL MANUFACTURING

**tratter**<sup>®</sup>

Our years of experience in designing and manufacturing injection molds, along with expertise in the injection molding process, have enabled us to meet the automotive industry's strict quality standards.



INJECTION MOLDING



MULTI-COMPONENT INJECTION MOLDING



GID - INJECTION MOLDING



BLOW MOLDING

# TOOL MANUFACTURING

*tratter*®

## INTERIOR



DOOR TRIM – MCLAREN



CENTER CONSOLE – AUDI



DASHBOARD – ASTON MARTIN



GLOVE COMPARTMENT – VW

# TOOL MANUFACTURING

*tratter*®

## MULTI COMPONENT-INJECTION MOLDING



AIR DUCTS – AUDI



COVER – BMW



CAR LIFTER – BMW



WIND DEFLECTOR – AUDI

## GID - INJECTION MOLDING



RADIATOR LOUVER - VW



## VARIUS



INTERCOOLER DUCT - NISSAN



INTERCOOLER DUCT - PSA



INTERCOOLER DUCT - PSA



COVER - KTM

## PLASTIC COMPONENTS

**tratter**®

We manufacture components in large and small series, either in our own facilities or with our partners.

Our production sites include a variety of automated and manual systems that are adaptable to the needs of our customers.



INJECTION MOLDING  
OVER MOLDING



MULTI-COMPONENT  
INJECTION MOLDING



GAS-ASSISTED  
INJECTION MOLDS (GID)



BLOW MOLDING  
ASSEMBLING  
WELDING  
TESTING



ASSEMBLING  
WELDING  
TESTING

# PLASTIC COMPONENTS

*tratter*®

## BRACKETS / CLIPS



CLIP – Daimler BEV



BRACKET - FORD



CLIP - GM



CLIP - VW



CLIP - VW

## CONNECTORS



3 WAY CONNECTOR - PORSCHE



CONNECTOR WITH ELBOW - DAIMLER TRUK



Y CONNECTOR WITH SAE - PORSCHE



CONNECTOR WITH FLANGE - PORSCHE

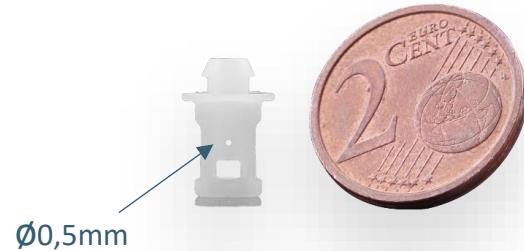


Y SAE CONNECTOR - DUCATI

# PLASTIC COMPONENTS

**tratter**®

INJECTION MOLDING AND ASSEMBLING OF  
PRECISION MICRO COMPONENTS



PART OF NOT RETURN VALVE - VW



NOT RETURN VALVE - VW



PART OF QUICK CONNECTOR - VW



PART OF QUICK CONNECTOR - VW



PART OF VENTURI VALVE - VW

## WELDING



RESONATOR - BMW



MANIFOLD - BMW-MOTORRAD



RESONATOR - PSA



INTERCOOLER DUCT - BMW



RESONATOR - PORSCHE

# PLASTIC COMPONENTS

*tratter*®

## OVERMOLDING



ADAPTER - PSA



REAR DIFFUSOR – BMW M



CONNECTOR - DAIMLER



RFID STOP CARD - MONDRAGHI



CHARGING CABLE - CONSTEED

# PLASTIC COMPONENTS

*tratter*®

MOLDING / ASSEMBLING / WELDING / TESTING / MARKING



JET PUMP – AUDI



DRAIN VALVE - JLR



CHECK VALVE - VW



CONNECTOR - PORSCHE



PART OF „VeriQuick“- VERITAS

# PLASTIC COMPONENTS

*tratter*®

## BLOW MOLDING

specialized in 3D suction molding



SCR TRAVERSE - VW



INK TANK - DURST



DRAINING PIPE- GM



INTERCOOLER DUCT – RENAULT



HONEYCOMB GRID for HELMET – 720



STOPPER CIDER – FLORIBUNDA



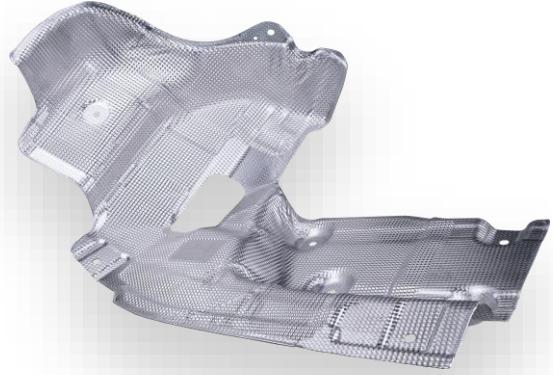
FALCON RING - MICROTEC



CARD WALLET - MONDRAGHI

## PRESS LAMINATING – AUSTRIAN PLANT

*tratter*®



HEAT SCHIELD - BMW



SIDE TRIM LUGGAGE COMPARTMENT – ROLLS ROYCE



LEATHER COVERED PILLER – ROLLS ROYCE



Driven by the automotive industry, we have developed internal quality processes according to which we continuously check and improve all our development and production processes.

## STANDARDS

- Detailed quality and control processes
- Manufacturability analysis
- Failure Mode and Effects Analysis (FMEA)
- Production Control Plan (CP)
- Advanced Product Quality Planning (APQP)
- Optical and tactile measurements
- Initial sampling (Production Part Approval Process, PPAP)

## OPTIMIZATION

## Continuous Improvement Process (CIP)

### Efficiency enhancement using established methods



We develop a variety of products that integrate innovative solutions and modern technologies to increase efficiency and productivity.

## SMART PRODUCTS

### BAL.ON - CONTINENTAL

In collaboration with Continental, the BAL.ON Smart Kit was developed from scratch, featuring advanced hardware, software, sensor integration, and NFC traceability. Combined with AI-driven data analysis and an intuitive app, it offers a cutting-edge golfing experience.

#### SCOPE OF DELIVERY

- Product / Packaging Design
- Soles with integrated pressure sensors
- Electronic units with firmware
- Charging stations with associated cables
- Design and production of all injection molding tools
- All plastic components (e.g., clips for shoes, housing)
- Various test and calibration systems
- Internal cloud storage



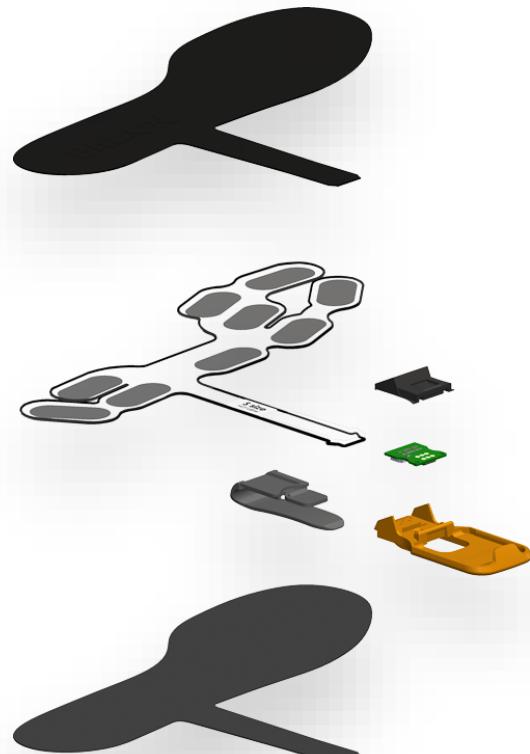
reddot winner 2023

#### VOLUME

10,000 pcs / year

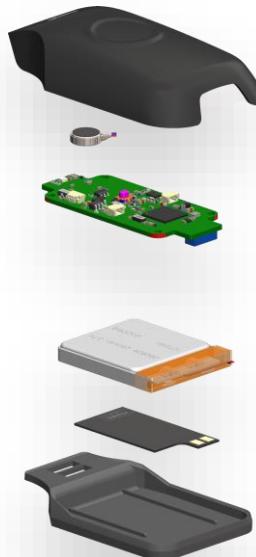


## BAL.ON - CONTINENTAL



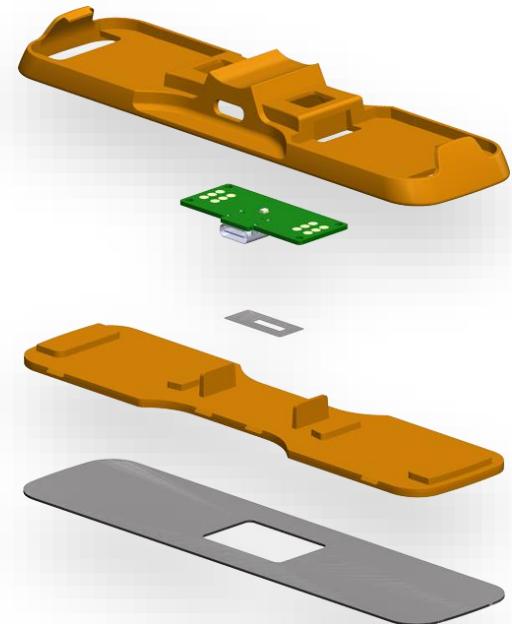
**PRESSURE-SENSITIVE SOLE**

The insole consists of a circuit of 9 sensors sandwiched between two layers of Cordura® and polyester. The sensors detect the athlete's foot movements with extreme precision, transforming them into signals transferred to the ECU



**ELECTRONIC CONTROL UNIT (ECU)**

The ECU, powered by a lithium battery and inserted into the eBox, processes the signals received from the insole, transferring them via bluetooth to the athlete's Smartphone, providing via the App a real-time feedback on the quality of the swing



**CHARGING STATION**

The charging station included in the kit allows quick charging of both eBoxes. The charging station is supplied with USB cable

## BAL.ON - CONTINENTAL



## PACKAGING

The extremely elegant packaging enhances the sensory experience for the user

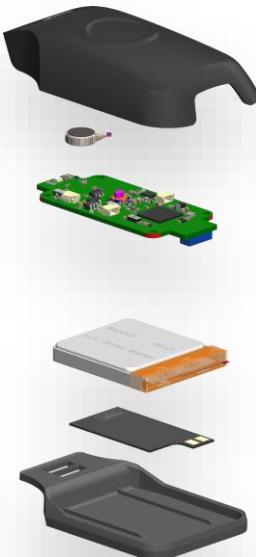
## SMART PRODUCTS

**tratter**®

### CONSTEED



HORSE SHOES with integrated PRESSURE-SENSITIVE SENSORS



ELECTRONIC CONTROL UNIT (ECU)



TRANSPORT BAG

# SUSTAINABILITY PROGRAMM



Our sustainability program promotes environmental, social, and economic sustainability.



## 100% GREEN ENERGY

Since 2023, we have been using 100% green hydroelectricity from South Tyrol.



## +200 KW PHOTOVOLTAIC SYSTEM

By sunny days the system covers our daily consumption.



## CLOSED WATER CYCLE

A closed water cycle drastically reduces our water usage.



## HEAT EXCHANGERS

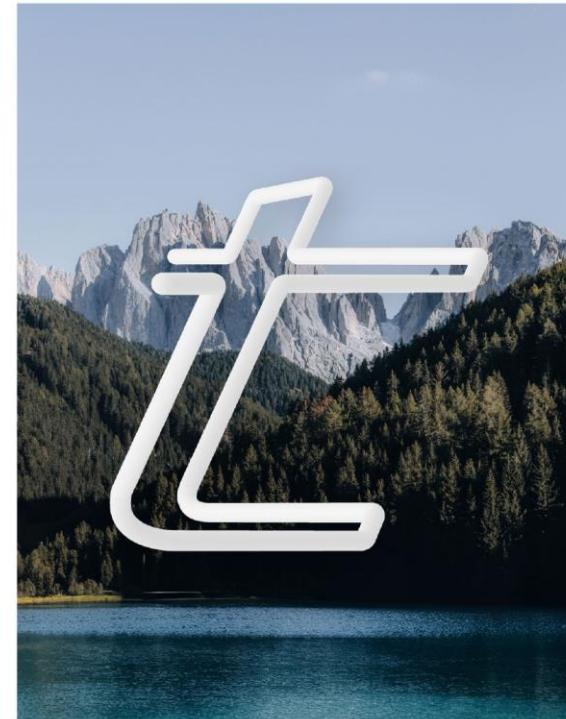
Waste heat from production is efficiently utilized through heat exchangers.



## VEGETABLE GARDEN

Our in-house vegetable garden reduces transport emissions by providing homegrown produce.

NACHHALTIGKEITSREPORT  
2023



## EV CHARGING STATIONS

EV charging stations are available on our premises.

## SOCIAL RESPONSIBILITY



Social values are central to our corporate philosophy.



We are committed to fostering a workplace that values equal opportunity and diversity, ensuring that all employees are respected and appreciated.



We support a healthy work-life balance and prioritize occupational safety.



We also invest in continuous training and employee development to ensure growth and success.



Our comprehensive support offers aim to assist employees in all aspects of their professional and personal lives.



Additionally, we actively engage in social projects, contributing to the well-being of both our employees and the broader community.

CODE OF ETHICS  
TRATTER ENGINEERING SRL





**+25 YEARS**  
of experience in development



**3 PRODUCTION FACILITIES**  
Italy, Austria, Poland



**CERTIFIED**  
ISO 9001:2015 & IATF 16949:2016



**+ 100 EMPLOYEES**  
internationally experienced team



**ESTABLISHED SUPPLIER**  
in the automotive fluid sector



**AUTOMOTIVE**  
experienced project management



**+ 9.6 Mio.**  
products yearly delivered globally



**3**  
patents filed



**COLLABORATION**  
Tratter is a partner not a competitor

## CONTACT



**tratter**<sup>®</sup>



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**SALES SMART PRODUCTS**

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**Marco Bianchi**

**SALES PLASTIC COMPONENTS**

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**Michael Leitner**

**SALES TOOL MANUFACTURING**

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A wide-angle, low-angle shot of a mountain range at night. The sky is a deep, clear blue. In the foreground, a winding road cuts through a grassy, brownish hillside. The road is illuminated by its headlights and streetlights, creating a bright, glowing line that curves from the bottom left towards the center. In the background, several rugged, rocky mountain peaks rise against the dark sky. Some peaks are partially illuminated, showing their sharp, jagged edges. A small cluster of buildings is visible on a hillside to the right of the road.

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THANK YOU