

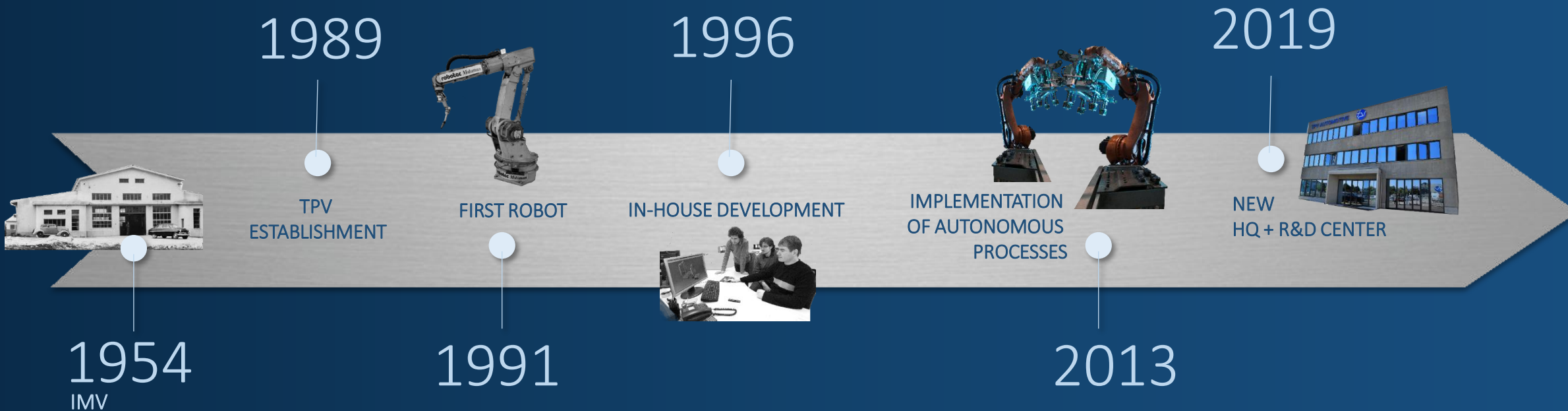


COMPANY PRESENTATION



CREATING MOBILITY of the FUTURE

OUR VISION



TIMELINE



**LIGHTWEIGHT
SOLUTIONS
SPECIALISTS**

part of **automotive
industry** since **1954**

R&D experiences
since **1996**



**FAST
SOLUTIONS**



Innovation is the foundation
of our operations:

80+

awarded prizes

20.000+

submitted IPs

**TPV INNOVATION
STATION**



exporting to **20+** countries

Sustainability
oriented



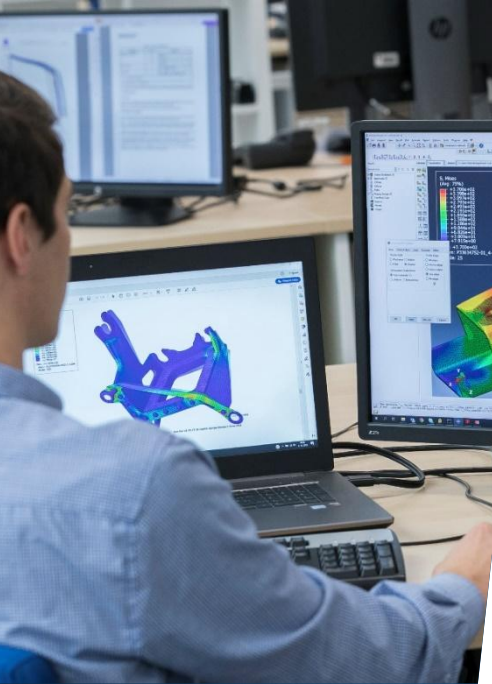
Lifecycle
management

WHO ARE WE ?





OUR LOCATIONS



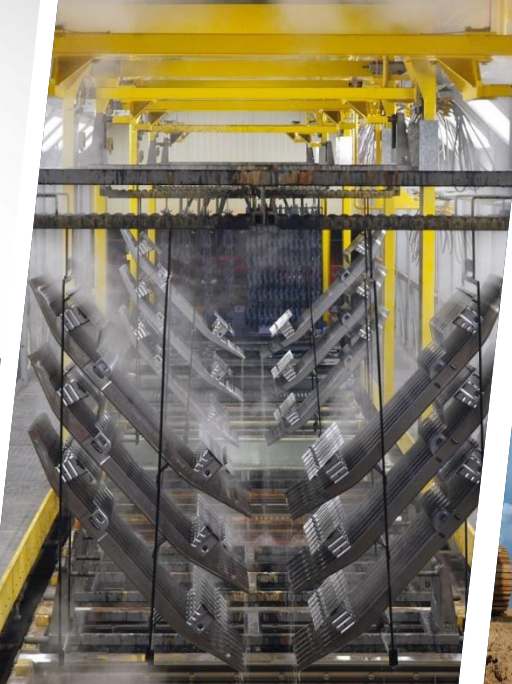
R&D SERVICES



COMPLEX
ALUMINUM
STRUCTURES



HIGH STRENGTH STEEL
COMPONENTS

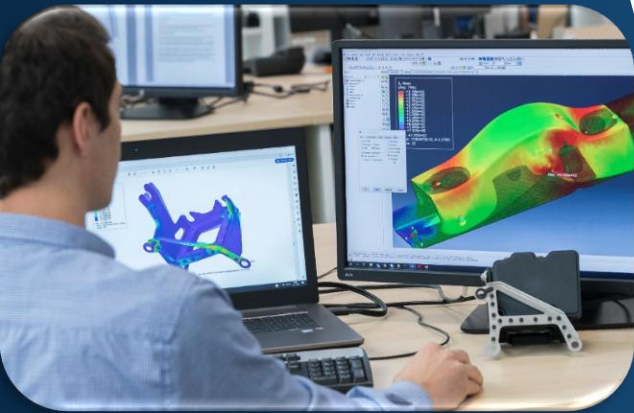


SURFACE PROTECTION



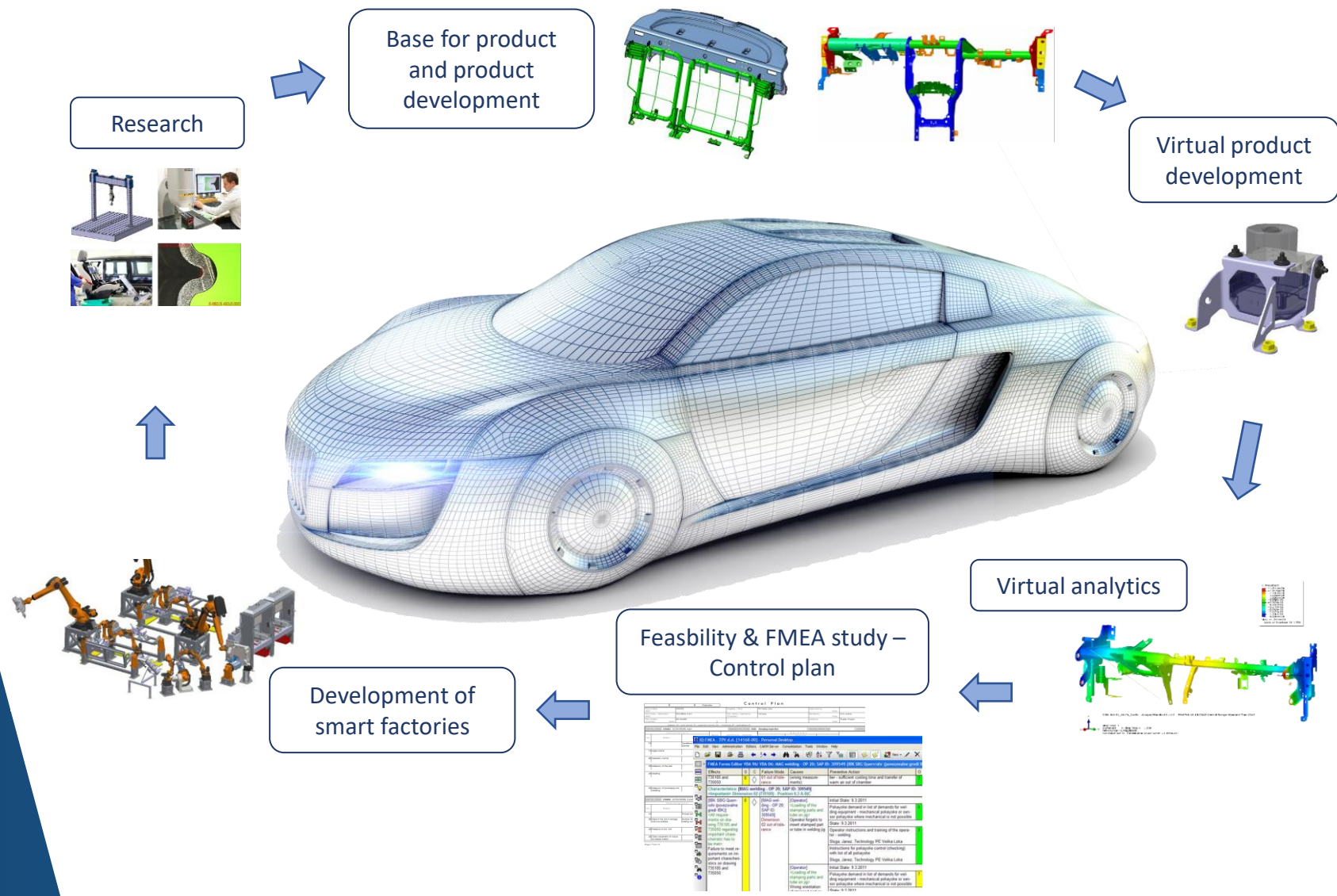
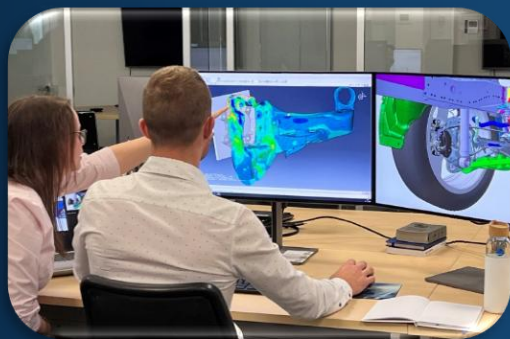
AGRICULTURAL AND
CONSTRUCTION
EQUIPMENT

CORE PROGRAMMES



R&D SERVICES

We offer R&D services for development of products and technological processes with possibility of prototypes and laboratory testing



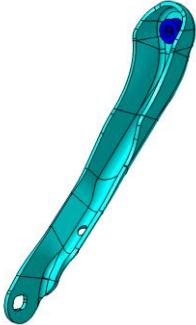
R&D COMPETENCES

DESIGN IMPROVEMENTS (lower costs, lighter products, improved functionality, ...):

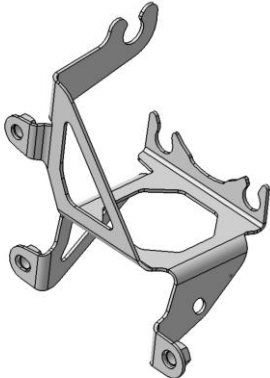
Baseline design



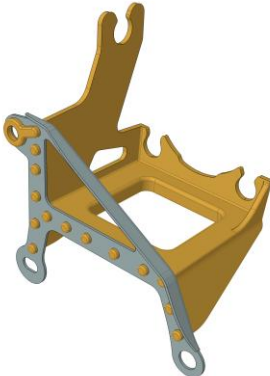
TPV design



Baseline design

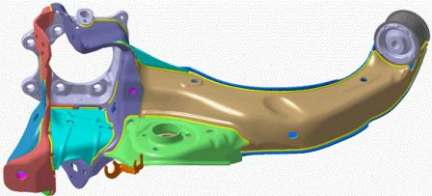
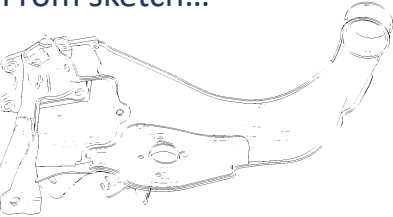


TPV design

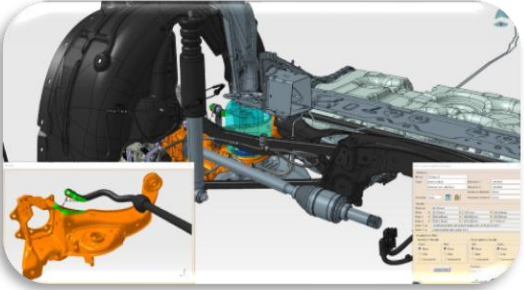


INTEGRATED DEVELOPMENT PROJECTS:

From sketch...



...over 3D models...



...to prototypes...



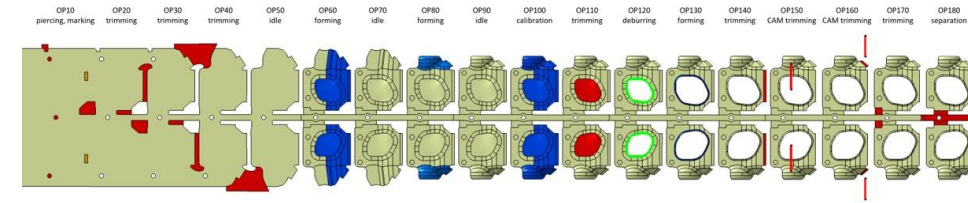
...and to final part assembly

TECHNICAL DEVELOPMENT COMPETENCES - Stamping

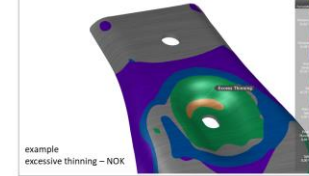
Evaluation phase

- Blank definition
- Concept design of the strip layout (method plan)
- Forming simulation
- Optimisation of forming method
- Checking of critical area and feasibility study
- Robustness analysis (deviation)
- Tooling price evaluation
- FLD diagrams
- Material Thinning simulations
- Material Springback simulations
- Raw material & process variations simulations

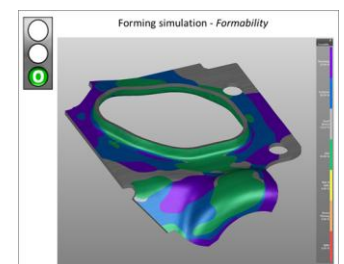
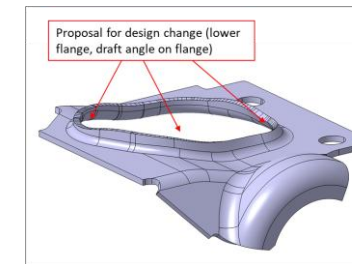
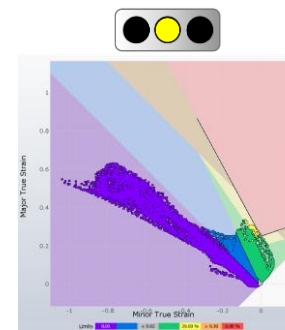
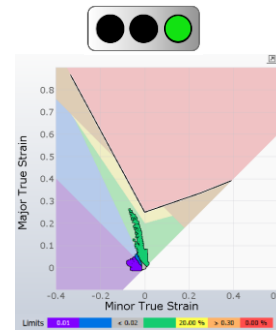
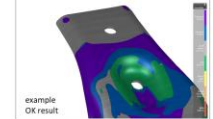
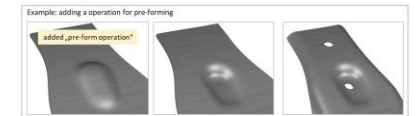
**CHECK
TECHNICAL
COMPETENCES**



Forming simulation parameters and surfaces are prepared. At that the selection of the material card is very important for achieving a more realistic forming result. For analysis of the likelihood of splits appearance different parameters are analysed (Formability, Max. Failure, Thinning, Strains, ...)



Forming methods and forming shapes are iterated to get an adequate result. In certain cases part design changes are proposed.



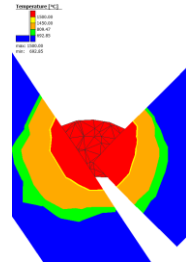
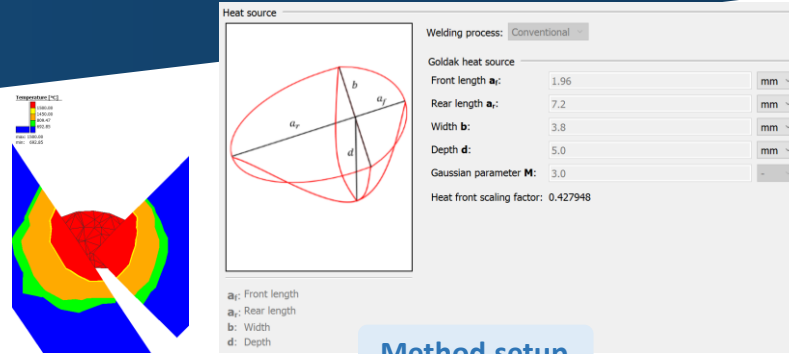
TECHNICAL DEVELOPMENT COMPETENCES - Welding

Evaluation phase

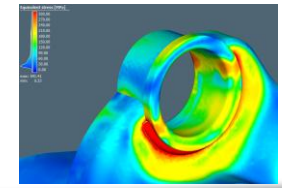
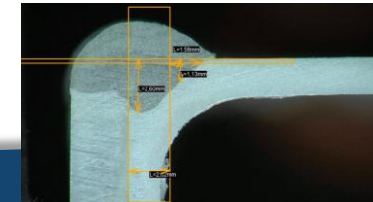
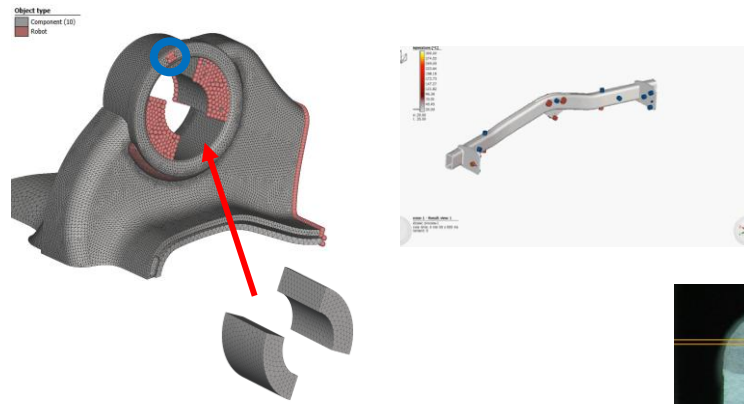
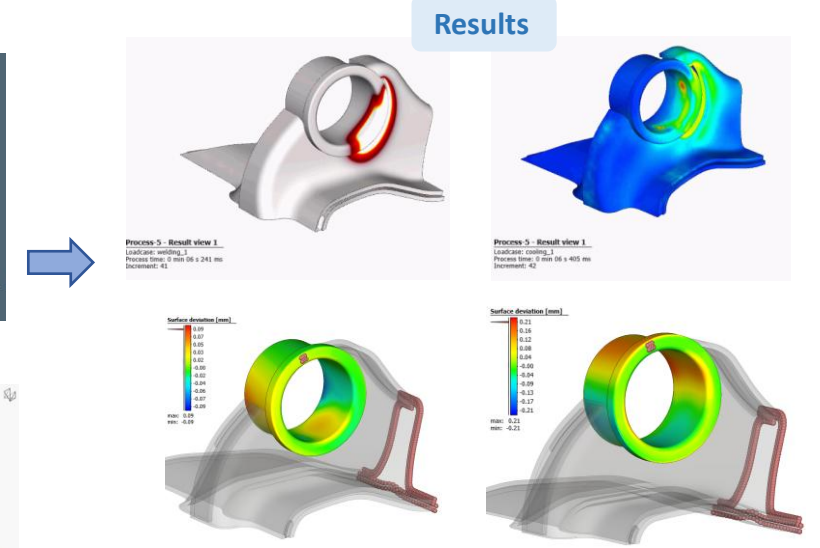
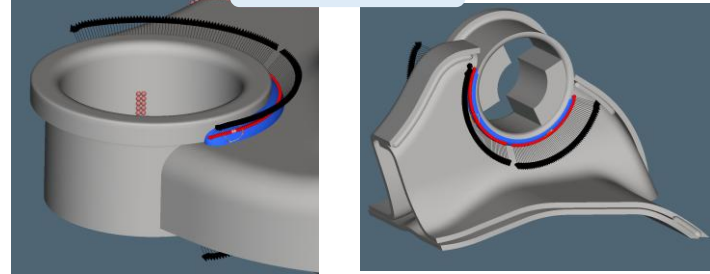
- Capacity evaluation
 - Welding trajectories
 - Welding parameters
 - Dimensions of welding source – real macrography tests – proof of parameters
 - Welding cycle
 - Welding sequence
- Boundary conditions:
- Welding tools concept
 - Temperature
 - Cooling times

Results

- Residual stresses
- Deformations
- Welding sequence impacts
- Different tooling clamping concepts impact



Year	Occupies parts/year	Quantities parts	Occupation 1 line	Necessary number of lines	Occupation of k lines	Number of missing days	Quantities with flexibility	Occupation with flexibility
2027	3,078	3,078	5%	1	5%	-210,00	3,693	6%
2028	31,744	31,744	48%	1	48%	-121,00	38,093	57%
2029	41,056	41,056	62%	1	62%	-89,00	49,267	74%
2030	44,432	44,432	67%	1	67%	-77,00	53,318	80%
2031	45,220	45,220	68%	1	68%	-74,00	54,385	82%
2032	46,209	46,209	69%	1	69%	-71,00	55,451	83%
2033	46,209	46,209	69%	1	69%	-71,00	55,451	83%
2034	46,209	46,209	69%	1	69%	-71,00	55,451	83%
2035	46,209	46,209	69%	1	69%	-71,00	55,451	83%
2036	46,209	46,209	69%	1	69%	-71,00	55,451	83%





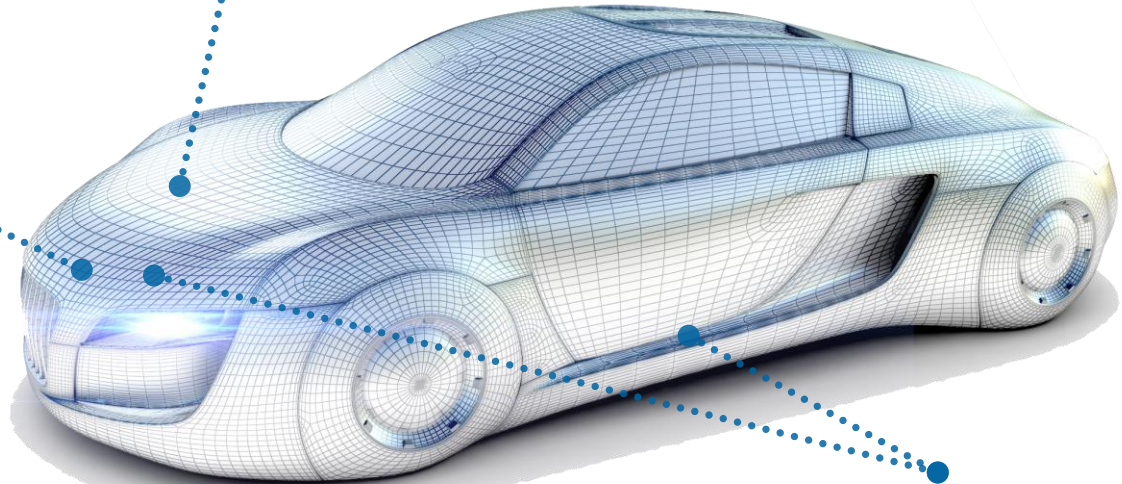
SURFACE PROTECTION

We offer services for steel parts surface protection alongside corrosion standardised testing → highest level of surface protection quality

POWDER COATING

E – coating (KTL) painting

- Thick-layer
- Thin-layer
- Etching in Zn phosphating



WASHING AND ALUMINIUM PASSIVATION

- SurTec



HIGH STRENGTH STEEL & ALUMINUM COMPONENTS

We offer development and production of High Strength Steel and Aluminum Components with important influence on driving dynamics, alongside other bodywork components and car seat structures. Following the guidelines for use of High strength steel

SAFETY ELEMENTS

- Crash structures

Chassis components

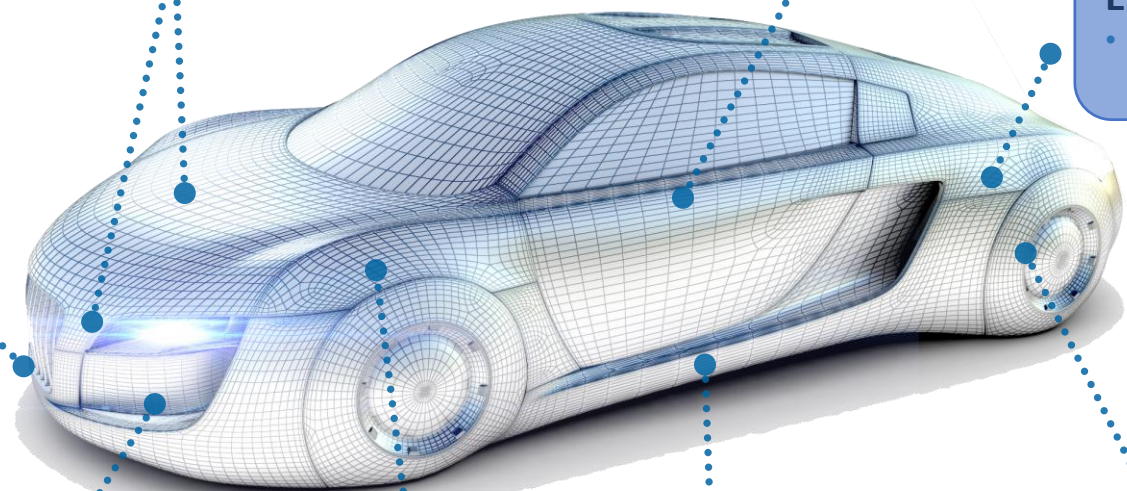
- Engine cranks
- Anti-vibration ties
- Crash structures

INTERIOR ELEMENTS

- Seats and seat components
- Dashboard carriers and holders

CONNECTING ELEMENTS

- Re-inforcing elements



BEV elements for engine protection

BODYWORK COMPONENTS

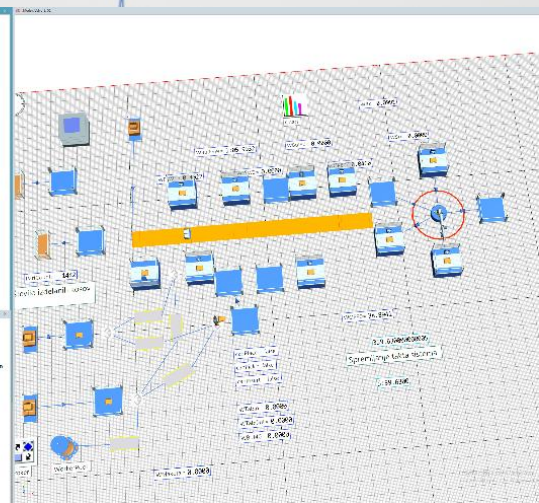
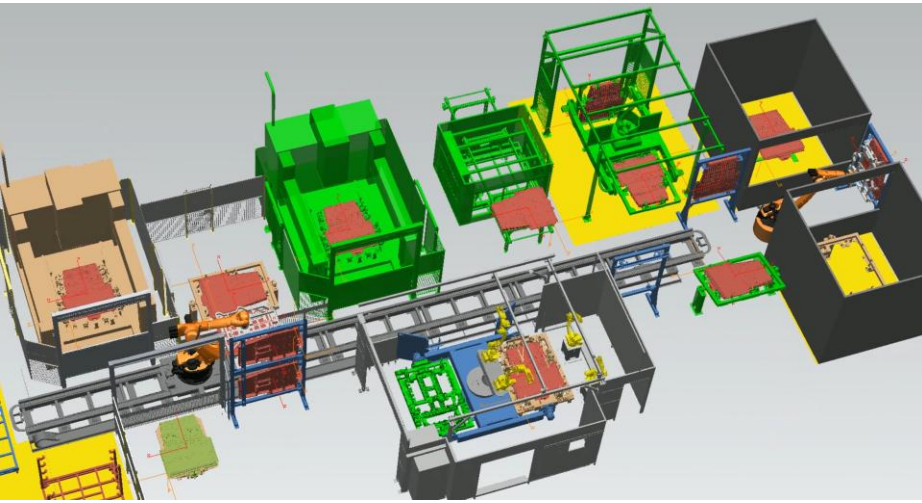
BATTERY HOUSINGS

DRIVING DYNAMICS:

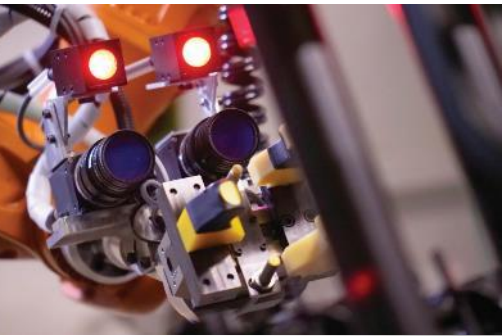
- Wheel carriers (front and back)
- Shock absorbers and linkages

VIRTUAL DEVELOPMENT OF ROBOTIZED PROCESSES

- Planning, developing and validating in digital twin factory
- Processes simulations
- Process optimizations
- Smart Factories
- One-piece flow

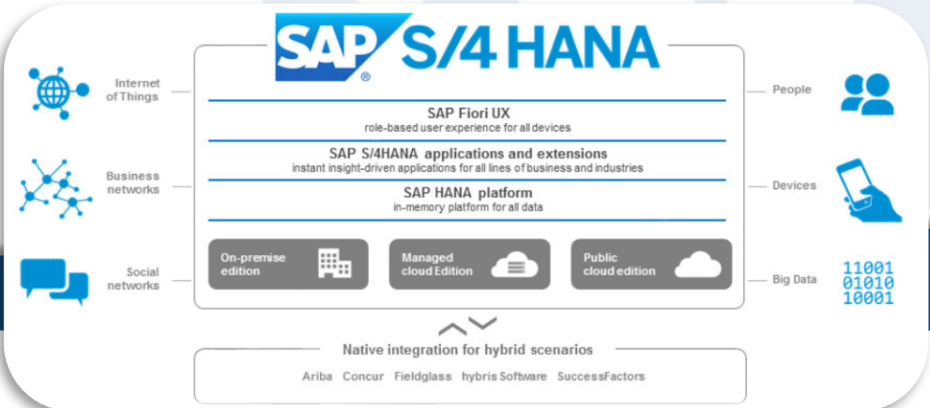


SMART FACTORY MODULES – INDUSTRY 4.0



In-house developed & implemented modules for smart factories:

- Automated production logistics with AGV
- Bin picking systems
- 3D tracking systems
- autonomous commissioning
- Every part tracability to single component information
- PowerBI reports – downtimes, productivity, scrap, OEE, other KPI's



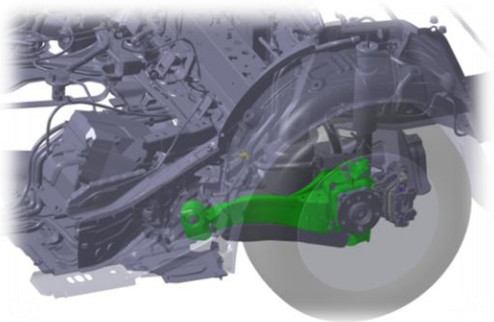
TRAILING ARM – HIGH STRENGTH COMPLEX STEEL

Weight: 8 kg

Dimensions: 280 x 290 x 650 mm

Nb. Of single parts: 17 (13 stamped parts, 1 forged part, 2 nuts, 1 rubber bushing)

Weld length on single part: 3,5 m



Part family: Trailing arm suspension/Chassis

Material:

Stamped parts: Hot-rolled complex phase (HSS)
HR660Y760T-CP-UC-U

Forged parts: Micro alloyed steel: 19MnV5

Project volumes

Lifetime quantities: 4.500.000

Avg. Yearly quantity: 450.000

Improvements compared to Alu cast parts:

10 % less weight

10 % increased strength

Less production cost

Better production process for better Quality insurance

Main processes

Cold forming / Stamping



Washing



Resistance + MAG welding
(CMT technology)



CNC machining + robot
debburing



KTL surface protection +
waxing



Bushing inserting

TRAILING ARM PROCESS

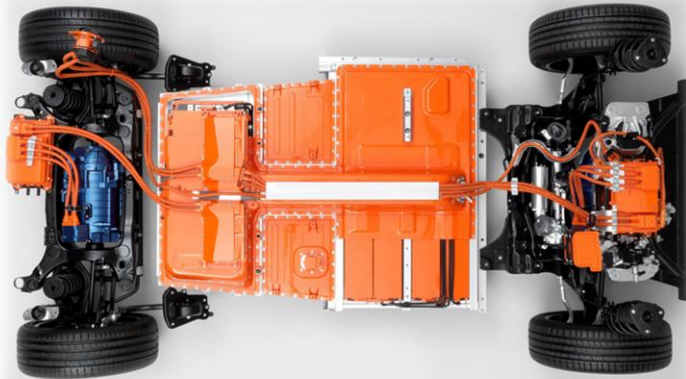
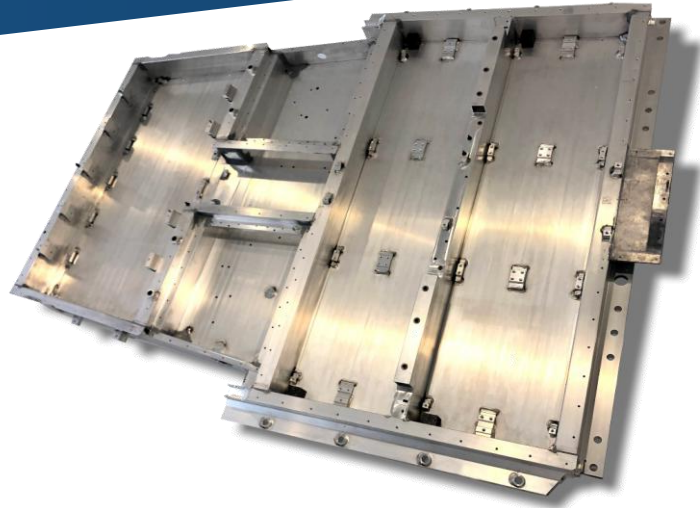
Process development

- Fully automated assembly line, surface protection and waxing,
- Productivity of 8000 pieces per day (left and right),
- " One piece flow " production and guaranteed traceability,
- Virtual validation of production processes,
- MAG welding technology,
- Using CMT technology,
- WCR control:
 - Arc stability control, arc drop monitoring (if the arc drops by more than 70 hundreds, the WCR control reports that the weld may be bad),
 - Monitoring of welding shape alarms.

Process challenges:

- Complex product design and tight tolerances:
 - Tight tolerances for the welded piece,
 - 100% geometry control required within the assembly line,
 - Max. welding gap is 1.2 mm,
- Large distortions during welding:
 - One authorized and validated welding sequence,
 - All input components "wrongly made" to achieve the correct geometry of the product at the output,
- Hard-to-reach penetrations:
 - The use of CMT and MIX welding technology allows us greater flexibility,
- High dynamic loads:
 - Security component,
 - All welded joints are safety (weekly implementation of macro control)
 - Annual validation of dynamic strength,
 - Every change must be dynamically tested and validated,
 - 100% control of welding joints with the SmartRay system
- Resistance welding of nuts and „horseshoes“
 - Resistance welding of high strength steels,
 - Various materials (CP800 and S500, CP800 and 20MnB4)

BATTERY TRAY



Main materials: Aluminum:
EN 755-2 AW-6005-T6, AW-6063-T6
EPP foam
Sealant: TEROSON MS939FR
Filler aluminium alloy (welding wire):
ISO 18273 AlSi5 (4043); D=1,6 mm
Shielding gas: ISO 14175 Argon 5.0

Materials

Lifetime quantities: > 600.000
Avg. Yearly quantity: 100.000

Project volumes

Weight: 70 kg

Dimensions: 1800 x 1500 x 200 mm

Nr. Of components: 120 (40+ different components)

MIG weld length: 6,7 m

FSW weld length: 11 m

Sealing length: 2,5 m

Main processes

Cutting Al profiles



CNC machining



Degreasing and passivation



MIG/Friction stir welding

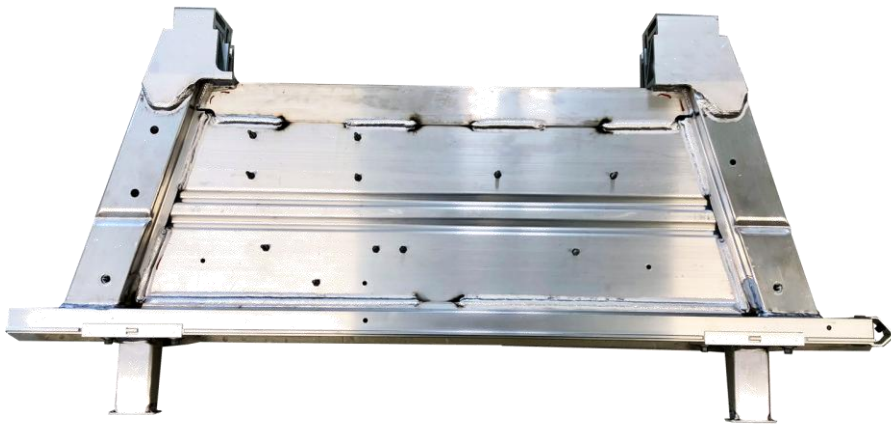


Sealing



Leakage testing

IMPACT MEMBER



Main materials: Aluminum:
EN 755-2 AW-6005-T6, AW-6063-T6
EPP foam
Sealant: TEROSON MS939FR
Filler aluminium alloy (welding wire):
ISO 18273 AISi5 (4043); D=1,6 mm
Shielding gas: ISO 14175 Argon 5.0

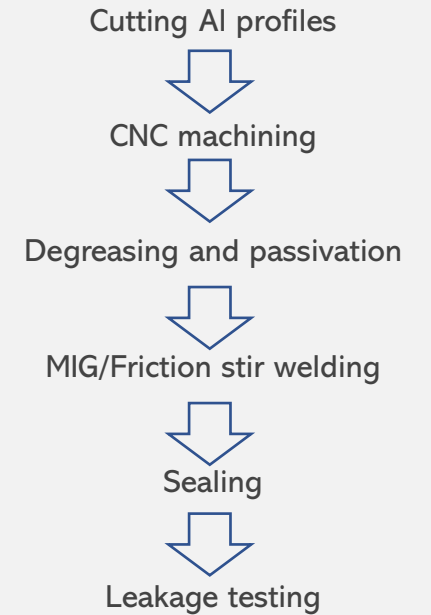
Materials

Lifetime quantities: > 600.000
Avg. Yearly quantity: 100.000

Project volumes

Weight: 15 kg
Dimensions: 100 x 600 x 1200 mm
Nr. Of components: 47 (12 extruded parts, 15 screws,
16 rivet nuts)
MIG weld length: 4 m

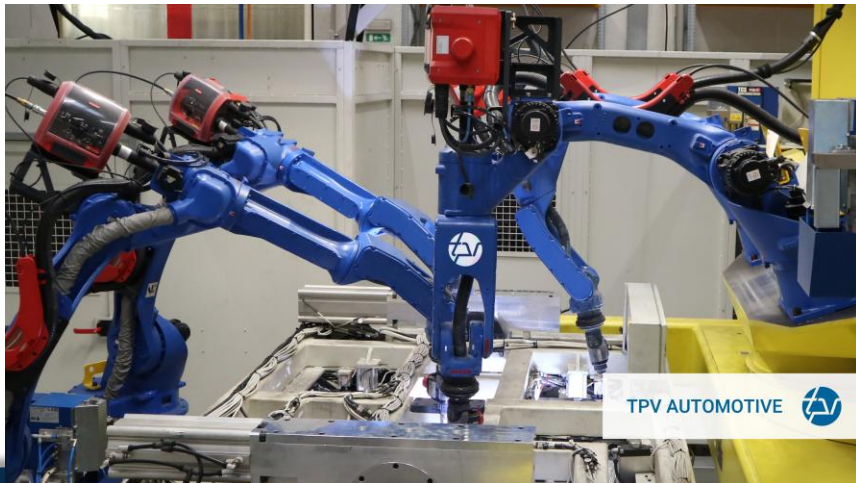
Main processes



BATTERY TRAY AND IMPACT MEMBER PROCESS

Process development

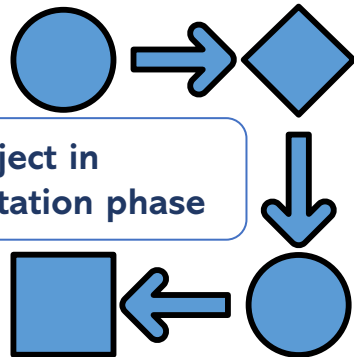
- Fully automated assembly line,
- Productivity of 3000 pieces per week,
- MIG CMT welding technology,
- FSW technology.



Process challenges:

- Complex product design and tight tolerances:
 - Tight tolerances for the welded piece,
 - 100% geometry control required within the assembly line,
 - Required tightness of welds.
- Large distortions during welding:
 - Welding tool with forced clamping,
 - One authorized and validated welding sequence.
- Surface preparation:
 - Washing with an emphasis on degreasing,
 - Removal of the oxide layer,
 - Passivation.
- Complex shape of the weld:
 - Inaccessibility of welds (non-optimal position of the "gun" and gas supply),
 - Variable base thickness on one weld,
 - Short welds,
 - Uneven welds (L) - the need for a lot of robot movement to ensure the right angle of the „welding torch“.
- FSW welds:
 - Very rigid and complex clamping of components,
 - Demanding provision of gap between components,
 - Durability of welding pins.
- Sealing the corners to transfer tightness from the outside to the inside of the BT:
 - The need for deep penetration of the MIG weld to join the FSW weld from the other side of the wall.
- High weld loads:
 - Safety component,
 - All welded joints are safety (weekly implementation of macrological control).

BATTERY TRAY2



Project in
implementation phase

Materials

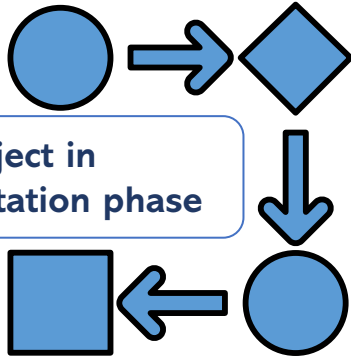
Casting material: AlSi10MnMg (EN AC – 43500)
Extruded profiles: DBL 4919.20 & DBL 4919.40
Sealant: TEROSON MS 9320 SF

Weight: 73,5 kg
Dimensions: 2065 x 1388 x 158 mm
Nr. Of components: 24 (6 extruded parts, 12 metal single components, 4 plastic single components, 2 casting parts)
MIG weld length: 8 m
FSW weld length: 13,6 m

Main processes

Cutting Al profiles
↓
CNC machining
↓
Degreasing and passivation
↓
MIG/Friction stir welding
↓
Sealing
↓
Leakage testing

BATTERY TRAY 3&4



Weight: 15 kg
Dimensions: 320 x 240 x 1070 mm
Nr. Of components: 12 (2 extruded profiles, 8 cooling VDA connectors, 2 positioning elements)
MIG weld length: 1,2 m

Weight: 9 kg
Dimensions: 320 x 240 x 600 mm
Nr. Of components: 8 (4 extruded profiles, 4 cooling VDA connectors)
MIG weld length: 0,7 m

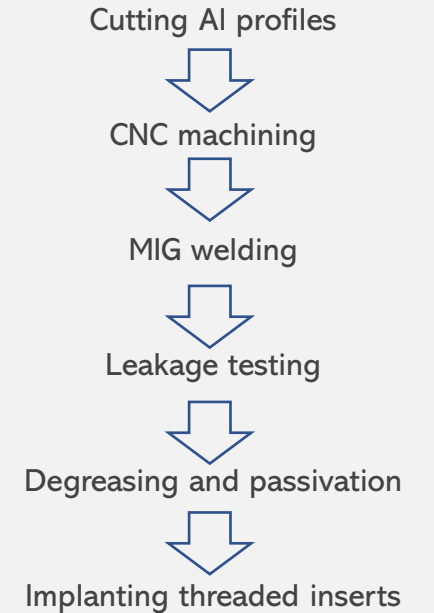
Materials

Casting material: AlSi10MnMg (EN AC – 43500)
Extruded profiles: EN AW-6063 T6 (AlMgSi)

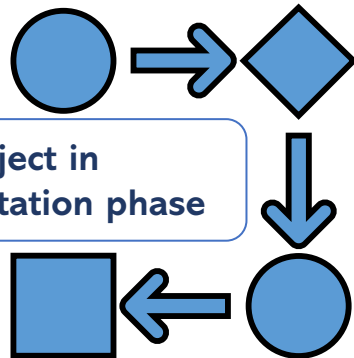
Requirements

- Required tests:**
- 5Leak tightness test,
 - Tensile test,
 - 3-point bending test,
 - Hardness test,
 - Technical cleanliness,
 - No burr

Main processes



HALTER PLATE



Project in
implementation phase

Materials

Extruded profiles: EN AW-6063 T6 (AlMgSi)
Stamped part: EN 485-4 1,5 mm

Weight: 4,5 kg
Dimensions: 1240 x 590 x 60 mm
Nr. Of components: 23 (1 stamped part, 2 extruded profiles, 8 welding studs, 8 bushes, 4 rivet nuts)
MIG weld length: 1,5 m

Main processes

Cutting Al profiles



CNC machining



MIG welding



Leakage testing



Degreasing and passivation



Implanting threaded inserts

CROSS CAR BEAM



Weight: 7 kg

Dimensions: 315 x 580 x 1260 mm

Single parts no.: 60 (41 stamped parts, 3 tubes, 6 screws, 6 nuts, 4 stamped nuts)

Weld length on single part: 2 m



Part family: Dashboard

Material:

Stamped parts: Hot-rolled S420MC, DD13

Stamped parts: Cold-rolled H360LA, H400LA

Welded and cold sized tubes: E355+CR1

Project volumes

Lifetime quantities: 900.000

Avg. Yearly quantity: 140.000

Main processes

Stamping & Cutting



Tube forming



Nut impressing



100% part control



MAG welding



Screwing

ZSB TRANSMISSION MOUNT

Weight: 8 kg

Dimensions: 250 x 600 x 700 mm

Single parts no.: 16 (6 stamped parts, 3 bushes, 3 nuts, 3 rubber mounts, 1 tube)

Weld length on single part: 2 m



Part family: Lightweight chassis steel components

Material:

Stamped parts: Hot-rolled S315MC

Cold drawn Bushes: E235

Welded and cold sized tubes: E235

Weld nut: Class 10

Project volumes

Lifetime quantities: 510.000

Avrg. Yearly quantity: 34.000

Main processes

Stamping



Tube cutting



Bending



Turning



Resistance + MAG welding



KTL + Powder coating



Rubber mount inserting +
threading

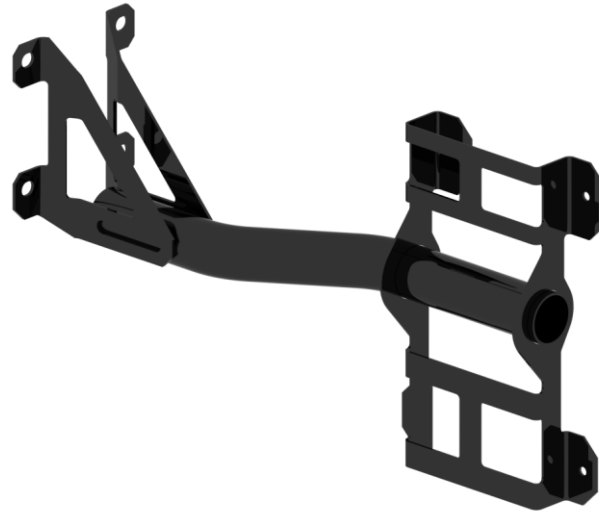
BEAM FENDERS FAMILY

Weight: 5,5 kg

Dimensions: 230 x 430 x 660 mm

Nb. Of single parts: 4 (3 stamped parts, 1 tube)

Weld length on single part: 0,6 m



Part family: Chassis – Fender attachments

Materials:

Stamped parts: S500MC

Tubes: Welded cold sized: E355+N

Project volumes

Lifetime quantities: 130.000

Avg. Yearly quantity: 13.000

Main processes

Cutting of tube



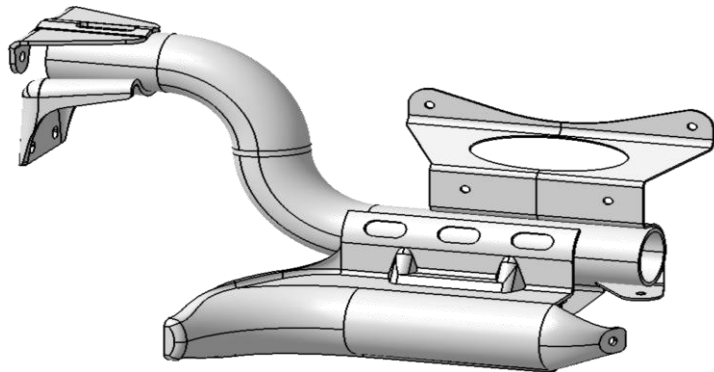
Cold forming / Stamping &
Tube forming



MAG welding (CMT
technology)



KTL surface protection



TOW BARS – HIGH STRENGTH STEEL (pre SOP – ramping up)



Weight: 15,3 kg – 21,2 kg

Dimensions: 1250 x 565 x 95 mm

Nb. Of single parts: 12 (7 stamped parts, 1 forged part, 2 nuts, 2 bushes)

Weld length on single part: 2,4 m

Part family: Tow bar - Chassis

Materials:

Stamped parts: S235JR, S355MC, S500MC, S700MC

Tubes: S355J2H

Forged part: 25MnV5

Bushes: S355MC

Project volumes

Lifetime quantities: 1.20.000

Avg. Yearly quantity: 220.000

Main processes

Laser cutting



Cold forming / Stamping



MAG welding (CMT technology)



CNC machining



Weld and Dimension automatic inspection

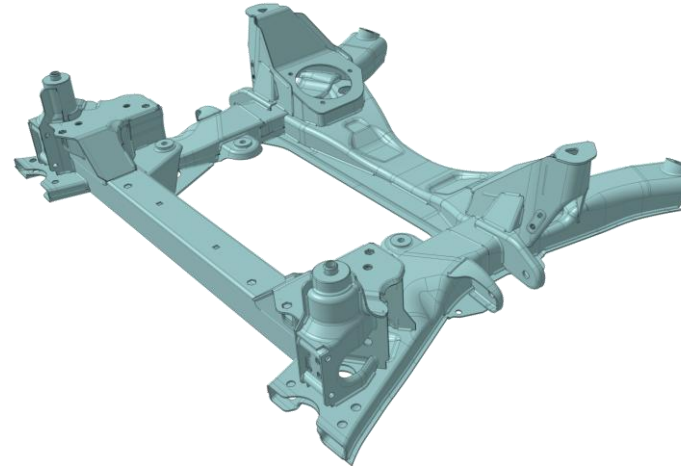
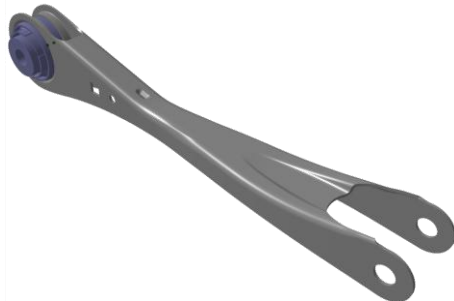
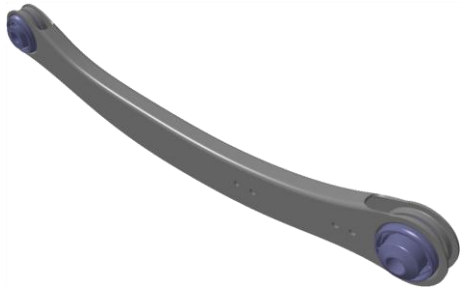
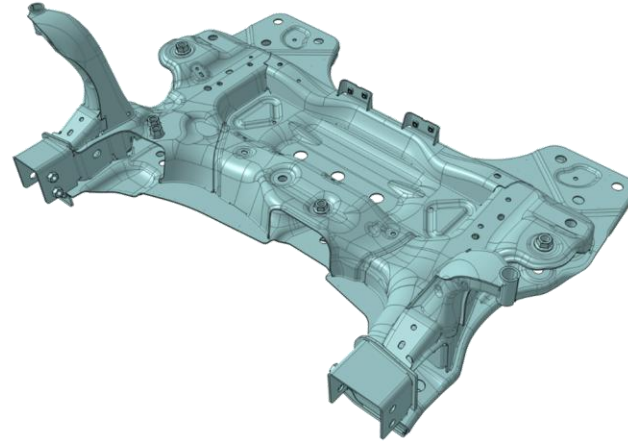
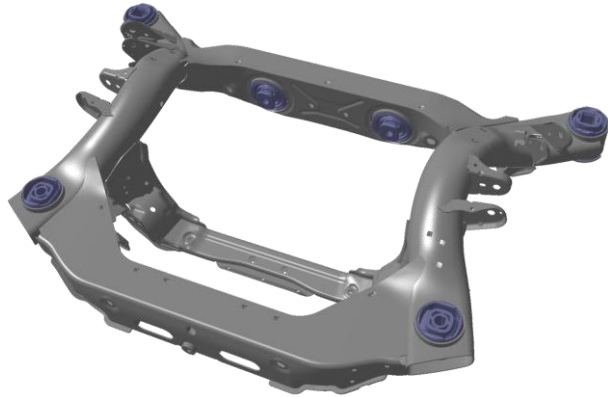


Sandblasting



KTL surface protection

OTHER CHASSIS COMPONENTS



Concept development support

Design for manufacturing optimizations and feasibility analyses

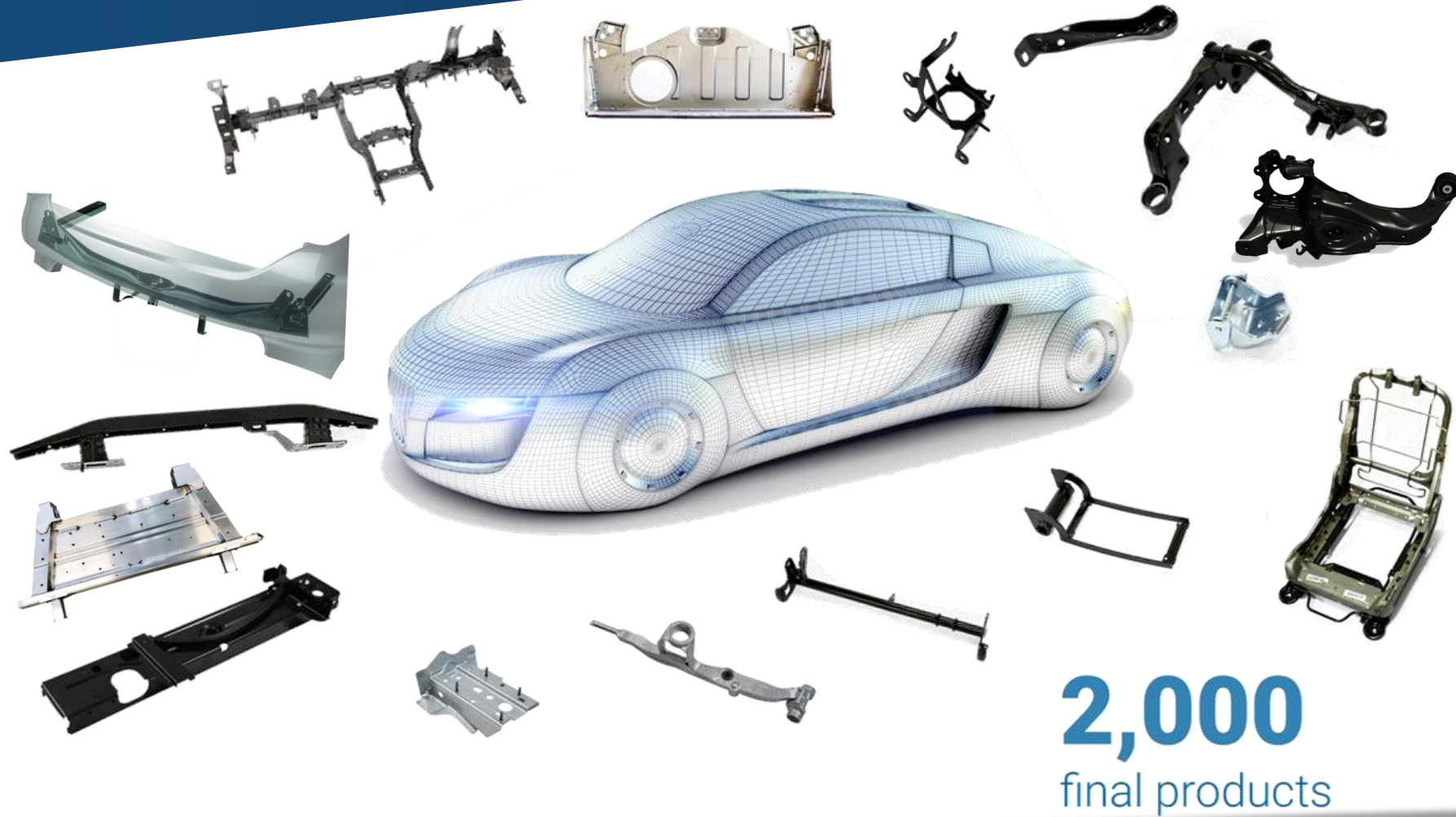
Gross material consumption reduction

Virtual evaluations of part functionality

Process development

Selection of optimal material considering part function and predicted technology

PRODUCT PORTFOLIO DIVERSITY



KEY CUSTOMERS



brose
Technik für Automobile

BUGATTI
+ **RIMAC**



DAIMLER
TRUCK



Webasto

RIMAC
— TECHNOLOGY

RR
ROLLS-ROYCE



STELLANTIS

SUSTAINABILITY

over **100** awards

over **22.000** innovative proposals

technological **INNOVATIONS**

LIGHTWEIGHT product concept

RECYCLED material

Hydrogen **H₂**

CERTIFICATES



ISO 9001
ISO 14001
ISO 45001
IATF 16949
TISAX




INNOVATION

TPV AUTOMOTIVE 

IN-HOUSE
process
development

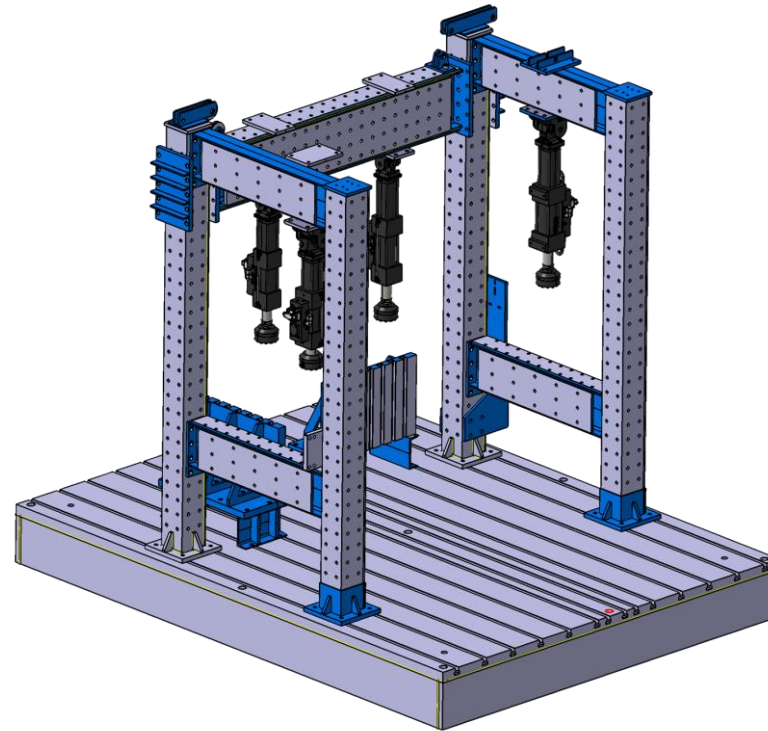
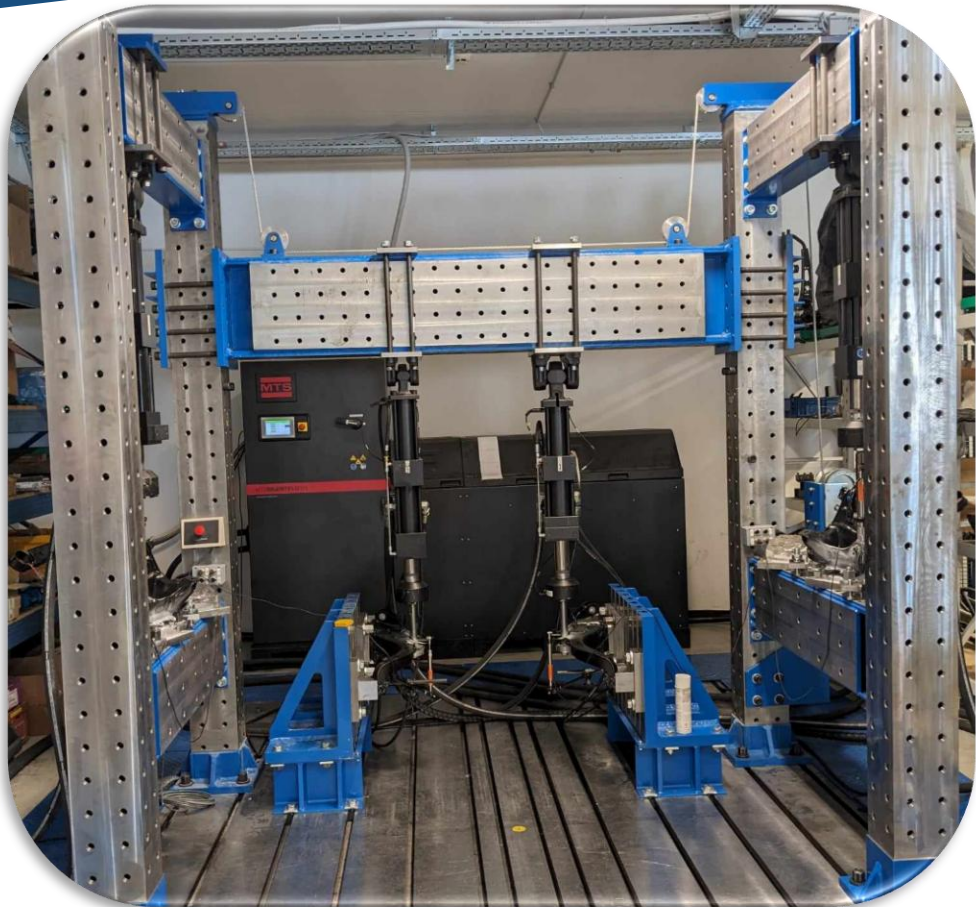



500+
robots


presses up to
2.500 T

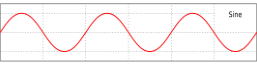

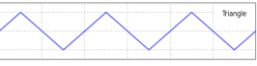
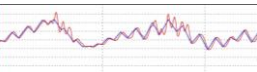
2 the most
advanced
SURFACE
PROTECTION
LINES

MTS TESTING FACILITY



- Static test
- Dynamic test
- Fatigue test
- CARLOS test
- 4 hydraulic actuators
- Theoretically achievable frequency: 50 Hz

Sample excitation signal types:

- Sine 
- Pulse 
- Triangle 
- Arbitrary signal (e.g., from road surface) 

[CHECK
TECHNICAL
SPECIFICATIONS](#)

PROTOTYPE WORKSHOP

Stamping +
Forging
(conventional)



Welding



Milling
Assembling
KTL



NOT
RATIONAL

3D sub
components



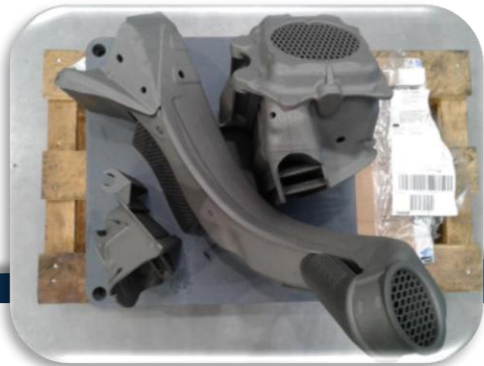
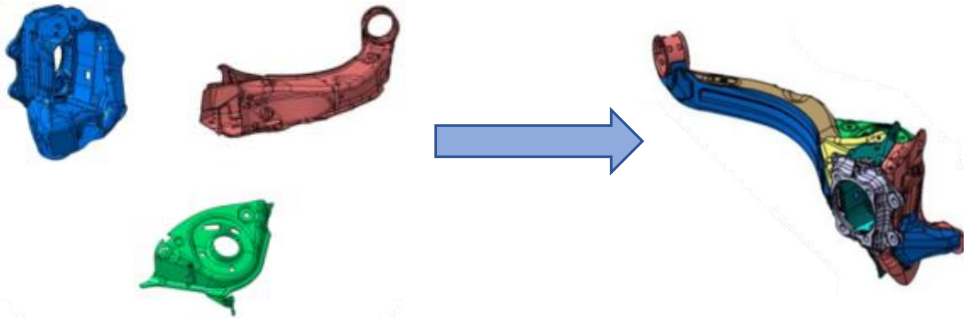
Welding



Milling
Assembling
KTL



RATIONAL

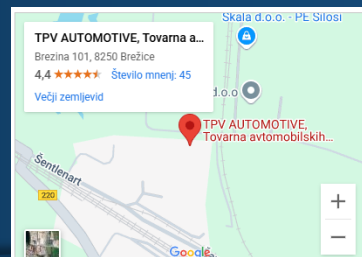


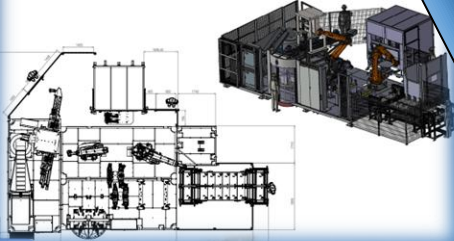
- Sample for Static & Dynamic tests - concept
- Measuring engineering curve
- True stress – true strain curves
- Surface properties research
- Material properties research
- Fatigue calculation
- Welding tests & samples for tests
- Weld durability comparison
- FEM models & simulations
- RPC fatigue simulations
- BAB fatigue simulations
- Welding simulations
- Forming simulations



BREZINA FACTORY

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LOCATION





Surface protection

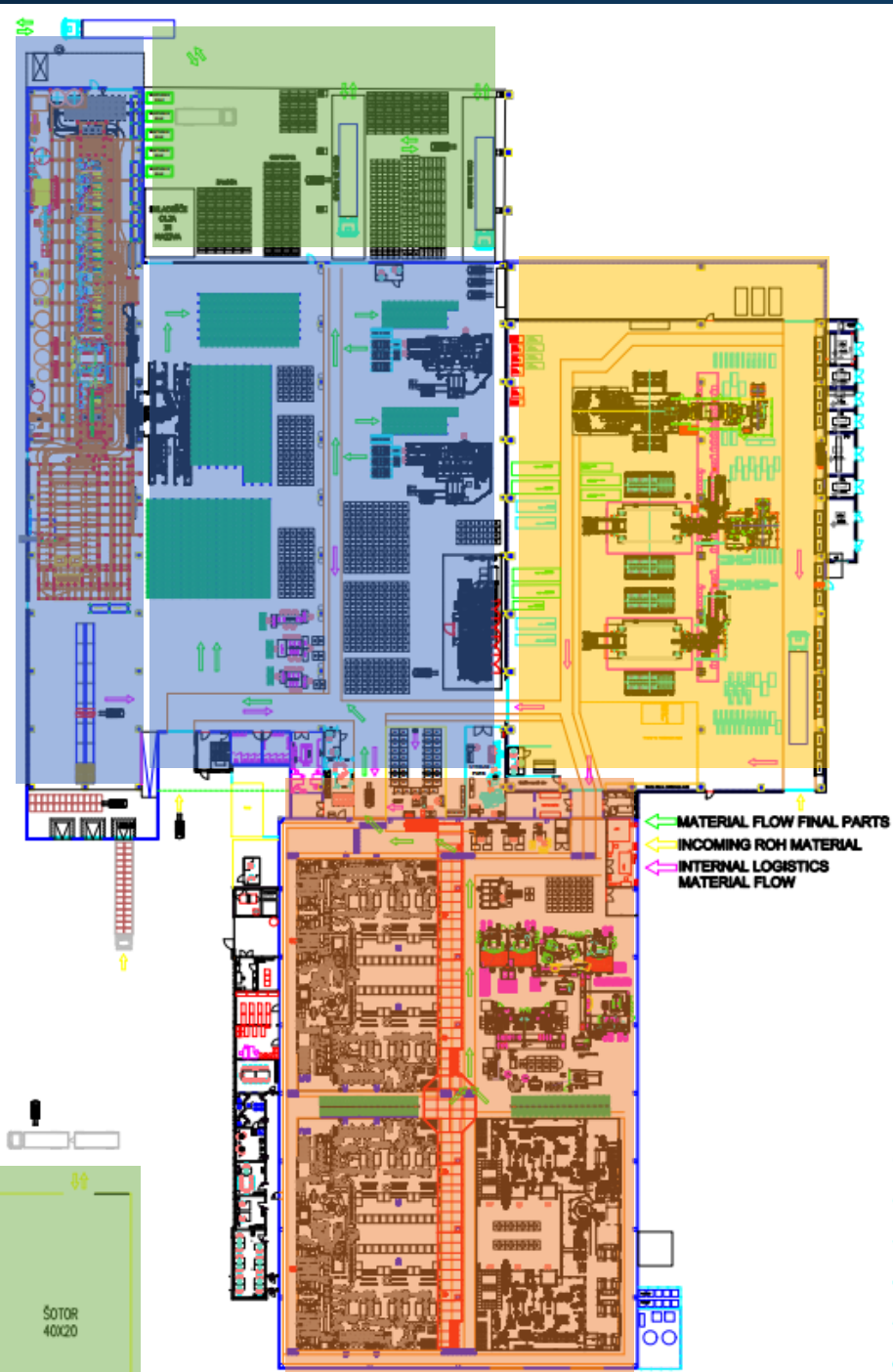
Welding



Cold forming



LAYOUT BREZINA



1.

Cold forming
[3200 m²]

2.

Welding
[4150 m²]

3.

Surface
protection
[5900 m²]

4.

Warehouse
[800m² + 1000m²]

COLD FORMING

AVRG. FORMED QUANTITY 9.000 t material / year

- 3 SERVO STAMPING PRESSES
- 1x 1000 t
- 2x 2500 t (progressive & transfer)
- Own tool shop

- 3x servo motors 817kW
- 3x flywheel asynchronous motor

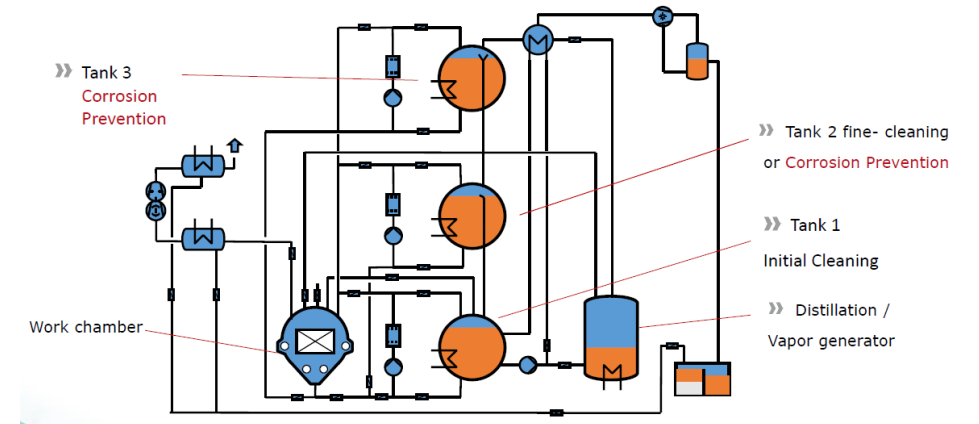
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WASHING (stamped parts)



Typical Cleaning and Solvent Conservation in ONE system

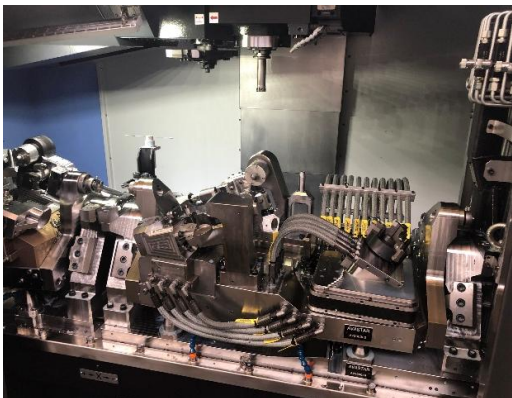


Advantages of Technology

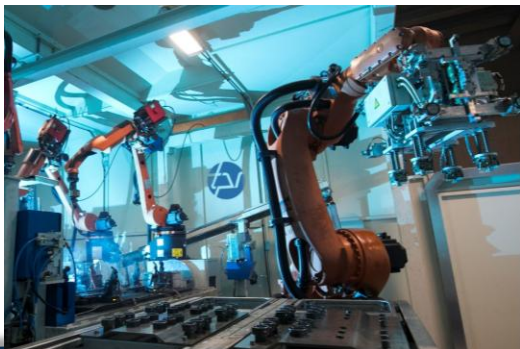
- Technology of washing/de-greasing with alcoholic baths
- Vacuum drying
- Bath with anti corrosion for safe stock
- Cleaning with no need of organized components

WELDING LINES

CNC automatic clamping devices



Custom manipulation grippers



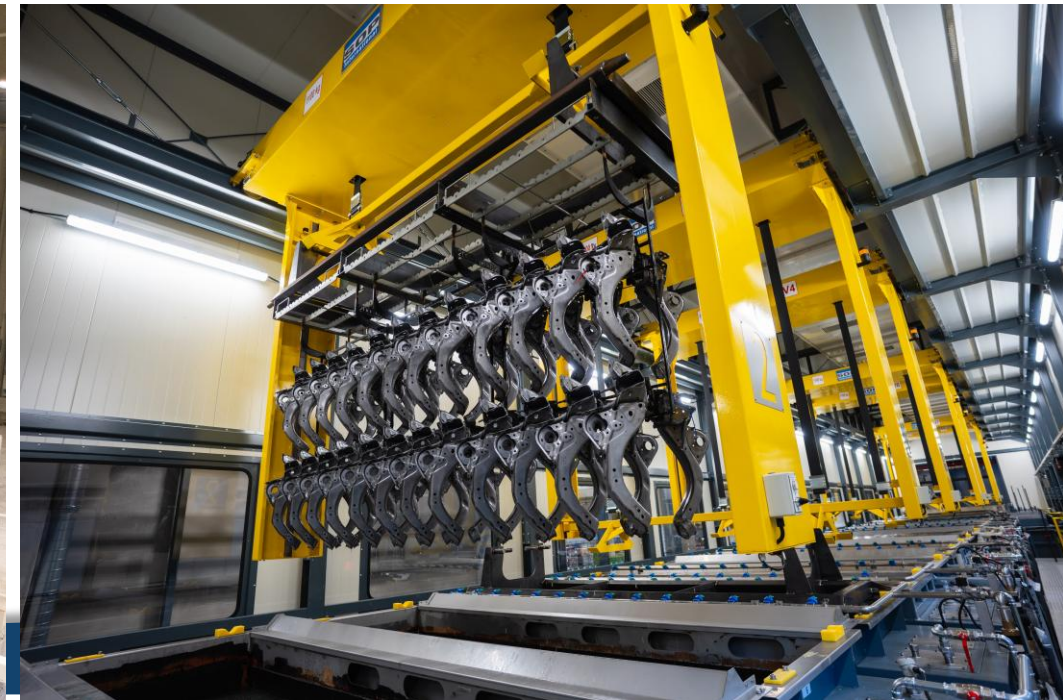
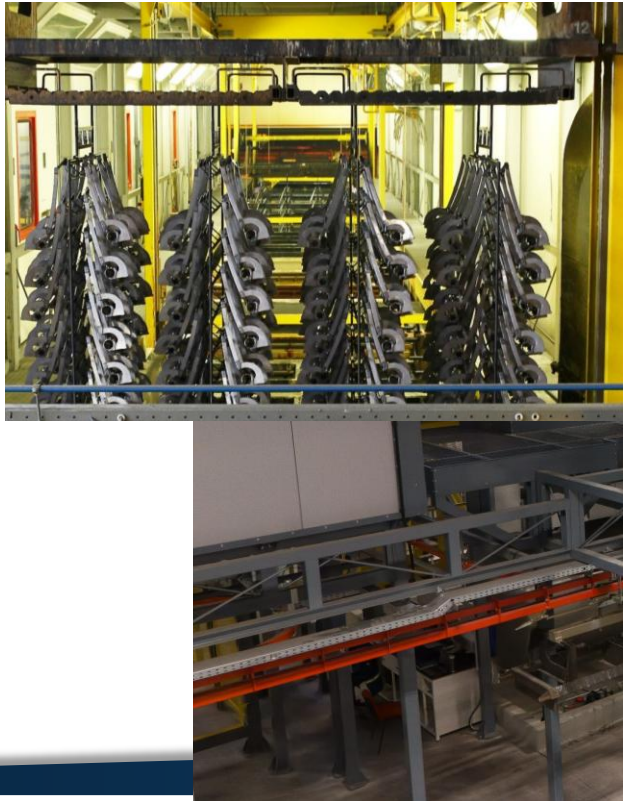
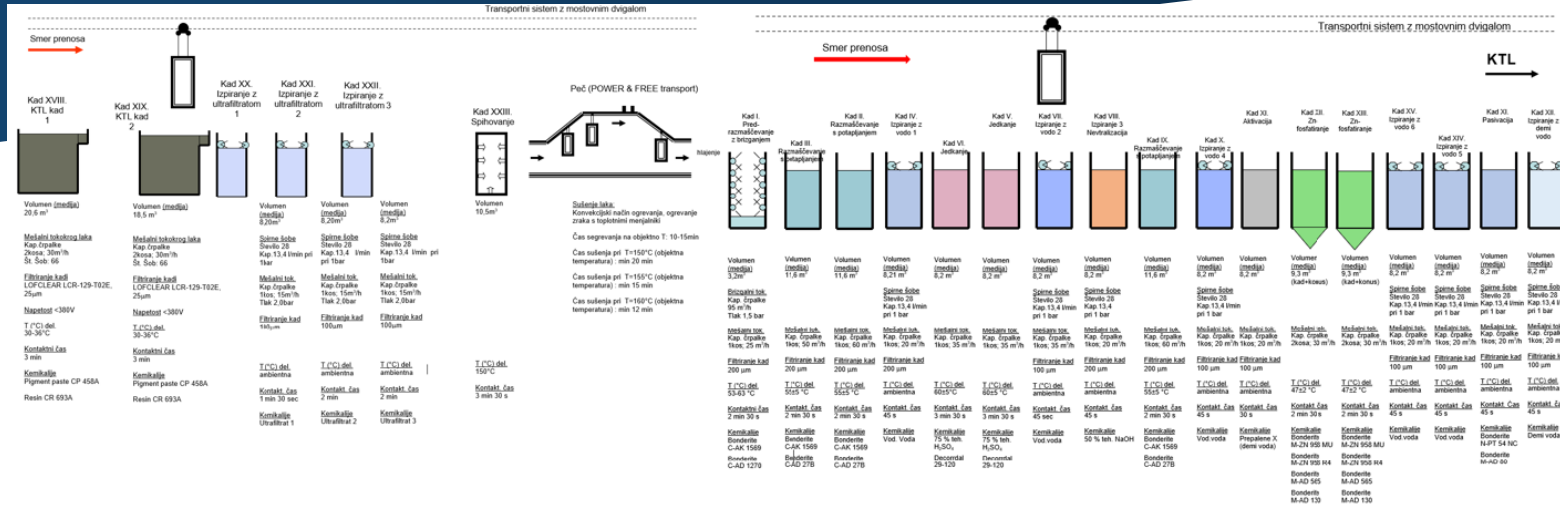
WELDING LINES

- 4x ROBOTIZED WELDING LINES(3 x 700 m², 1x 350 m²)
- 80x WELDING ROBOTS (KUKA & YASKAWA)
- 91x MANIPULATIVE ROBOTS
- 18x CNC MACHINING CENTERS (Doosan)
- 93x WELDING SOURCES (Fronius)
- 7x PROJECTION/RESISTANCE WELDING MACHINES
- 4x HYDRAULIC HOLE PUNCHING MACHINES
- 21x SmartRay SCANNING (weld seams) OPERATIONS
- 20 km OF WELDS SEAMS, 2.3 t welding wire / day
- 4x „InLine 3D“ Final geometry control systems (more than 20 camers)

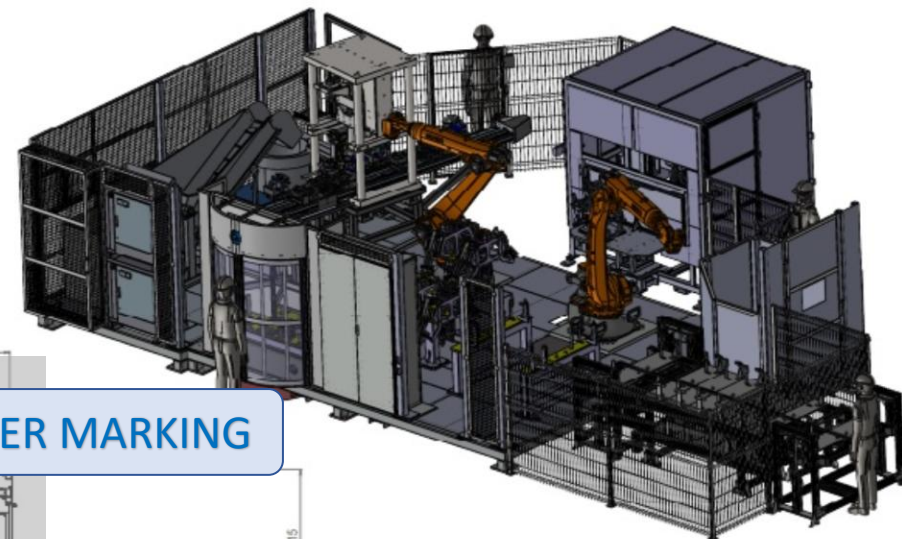
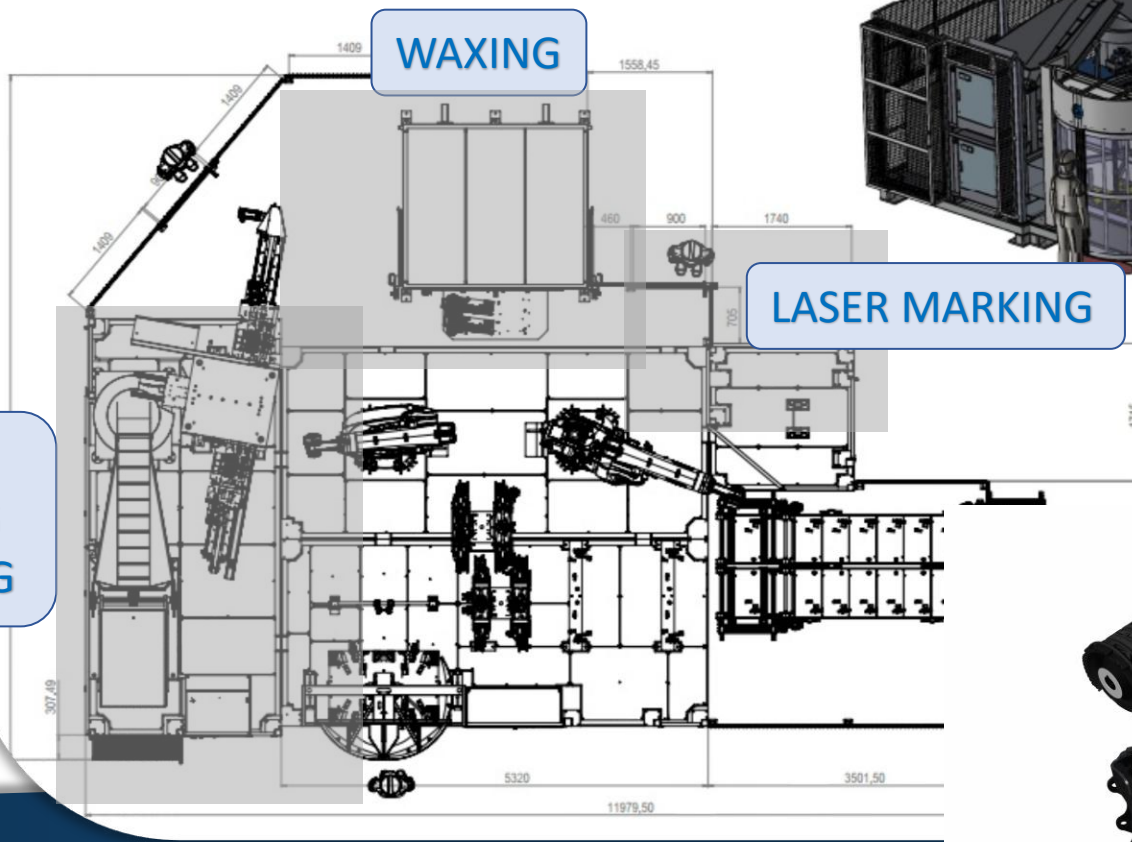
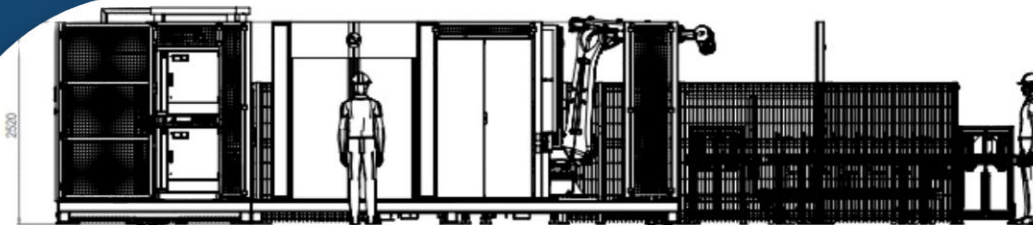


E - COATING (KTL) LINE

Robotized line with each KTL roof/rack traceability

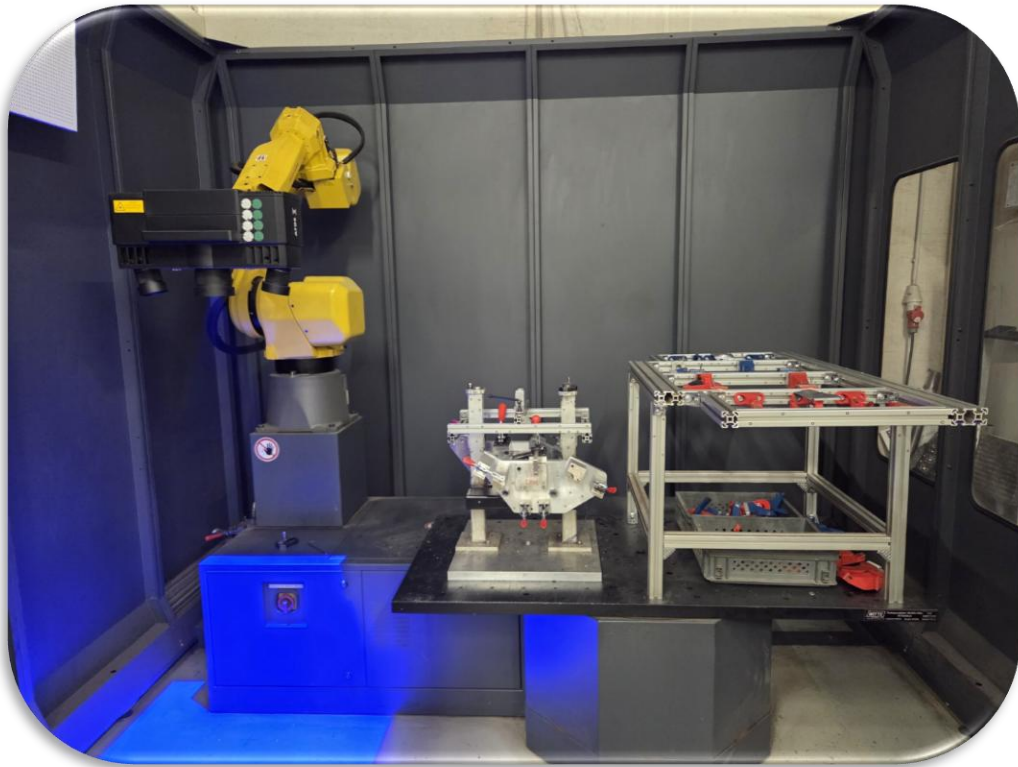


WAXING LINE



3D SCANNING UNIT

GOM – ATOS SCANBOX



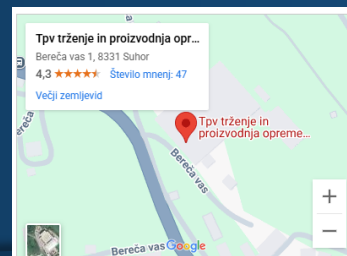
- Fanuc robotized 3D scanning cell / unit
- Possibility of 3D scanning
- Possibility of 3D measuring
- Measurement of stamped parts
- Measurement of welding assemblies
- Scanning of stamping tool segments (matrix, knife, housings,...)
- ZEISS software



SUHOR FACTORY



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LOCATION](#)



SUHOR PLANT PROGRAM

- 20x Stamping Presses (Cold forming)
- LASER MACHINE – LVD PUMA FL4020
- HYDRAULIC PRESS BRAKE – BENDING MACHINE (LVD PPEB 220/30)
- Own tool shop
- 11x welding presses/resistance welding machines

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LINIJA OF ECCENTRIC PRESSES RAVNE



RAVNE SE-2 630T (I.)

RAVNE SE-2 500T (II.)

RAVNE SE-2 630T (III.)

RAVNE SE-2 630T (IV.)

**ECCENTRIC
PRESSES**



**BENDING MACHINE
LVD PPEB**

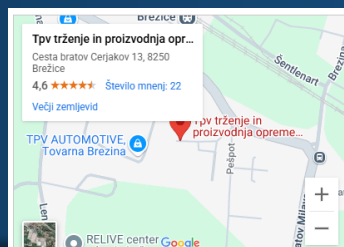


**LASER LVD PUMA
FL4020**

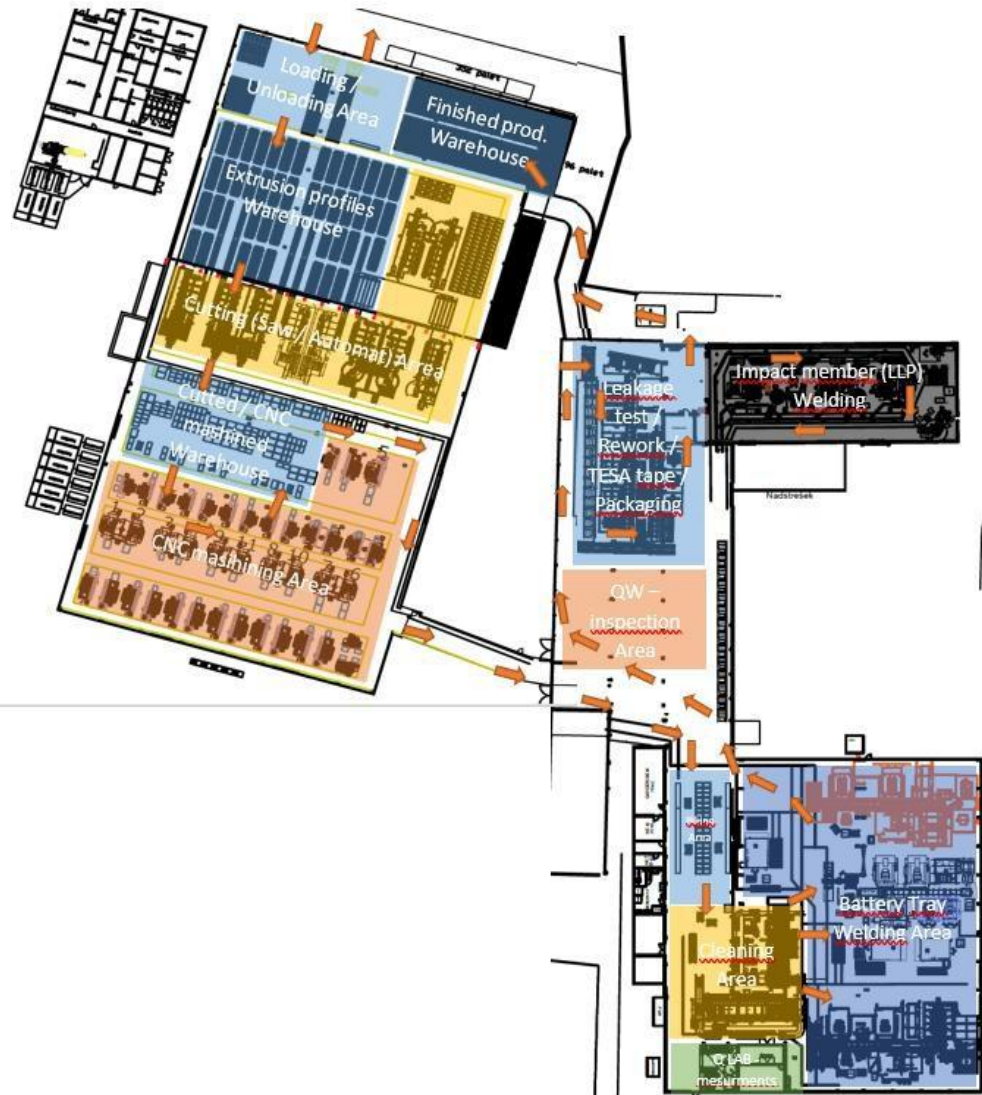
ŠENTLENART FACTORY



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LOCATION



LAYOUT ŠENTLENART – DEDICATED ALUMINUM ASSEMBLY PLANT



Processes:

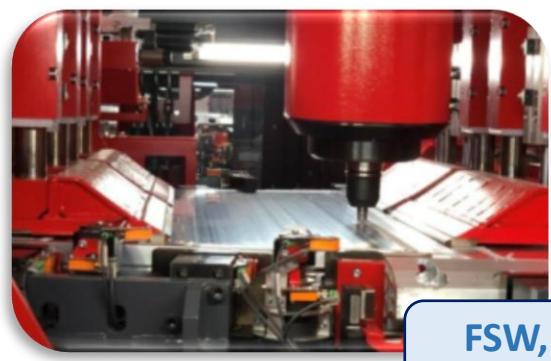
- Warehouse
- CNC cutting area
- CNC machining area
- Leakage, rework and testing area
- Degreasing and passivation AI
- Assembly area
- Cleaning area
- Quality area

ŠENTLENART PLANT PROGRAM

Processes:

- Input material: 6m Al profiles, screws, nuts, rivets
- 10x Automatic cutting line with robotization
- 40x CNC machining centers with robotization
- 2x Automatic washing line for degreasing and passivation Al
- 3x High-tech FSW and MIG/MAG welding line, riveting, sealant application, geometry control operations
- Robotized control line of special technical requirements
- 2x Robotized line for tightness control, rework, installation of protection and packaging
- Etching passivation

Robotized CNC machining centres

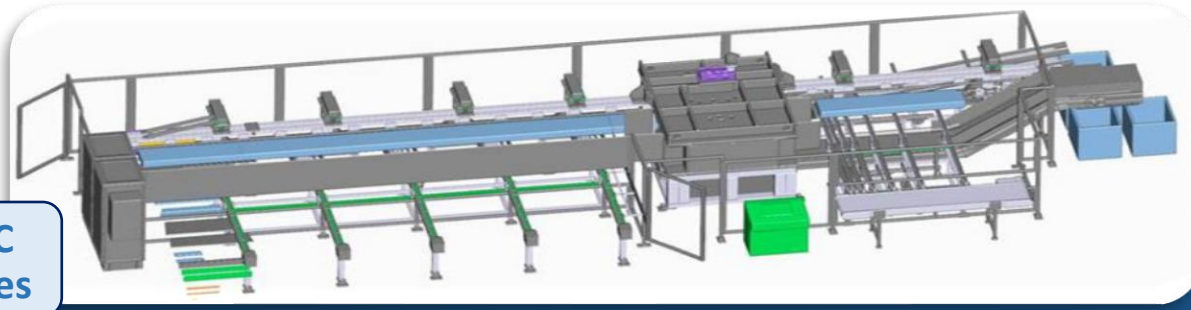


FSW, MIG welding line

CHECK
TECHNICAL
SPECIFICATIONS
CATALOGUE



Automated CNC saws/cutting lines



CNC MACHINING CENTERS



CNC Machining centers DNM:

- 750 L
- 750 L High
- 6700XL
- 6700L
- 5700



- **Workpiece dimensions (X/Y/Z):** from 1050 × 570 × 510 mm up to 2160 × 762 × 650 mm
- **Spindle speed:** from 8000 to 12,000 rpm
- **Spindle power:** 18.5 kW
- **Table load capacity:** from 1000 kg to 1800 kg
- **Spindle type:** ISO #40 (Big Plus)

4-axis hydraulic CNC machining centers with direct-drive spindles, designed for high-precision machining of steel, aluminum, and alloys. Suitable for a wide range of industrial applications—from compact components to large structural parts in the automotive, aerospace, and general metalworking industries.

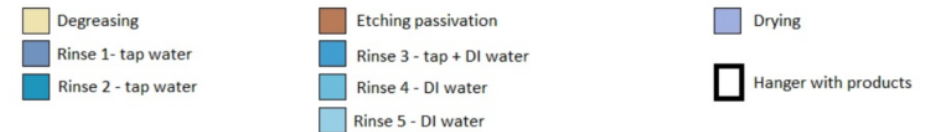
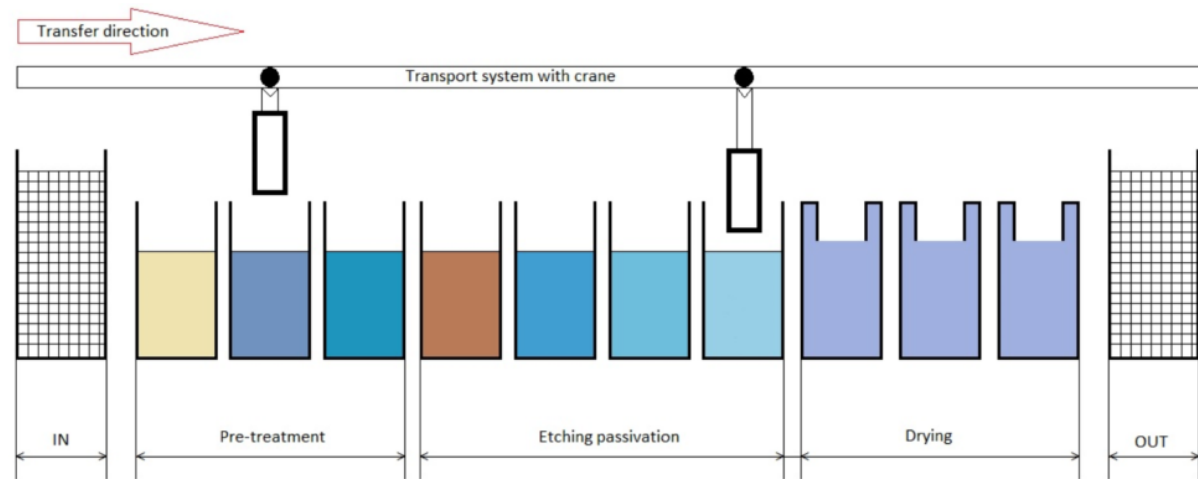


ETCHING PASSIVATION (Aluminium alloy)

Norms for Etching passivation:

- Volvo
- BMW PV 97022
- Daimler & Mercedes Benz DBL_1175.11
- VW TL96223 & TL82428
- JLR TJLR-50-5002-2019

Materials used for degreasing and passivation: Henkel



Washing line 1

- Bath size:
1000 x 890 x 1470 mm
- Weight: 200 kg

Washing line 2

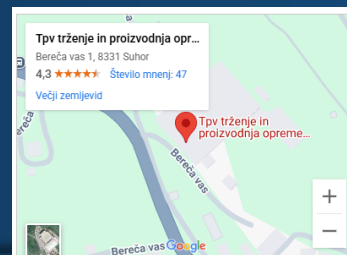
- Bath size:
500 x 800 x 1470 mm
- Weight: 400 kg



VELIKA LOKA FACTORY



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VELIKA LOKA PLANT PROGRAM



CNC machining



Resistance welding line



KTL line

In-house Laboratory corrosion testing (salt baths, cyclic chamber) for some standards

CHECK TECHNICAL SPECIFICATIONS CATALOGUE

- Robotized projection/resistance welding lines
- Robotized MIG/MAG welding cells
- Sandblasting line
- CNC machining
- Powder coating
- E - coating (KTL) line



Sandblasting line (implementation phase)



Robotized welding cells



Powder coating line

VELIKA LOKA PROGRAM – SURFACE PROTECTION

In-house Laboratory corrosion testing (salt baths, cyclic chamber) for some standards

KTL / E - coating:

- Max. Product dimensions: 2000x800x1500
- Powder thickness: from 20µm to 35µm
- Quality of painted surface: 1000h salt bath or 42 cycles ECC1 (salt spray, rain)

POWDER COATING

- Max. Product dimensions: 1300x800x400
- Conveyor load capacity: 150 kg
- Powder thickness: from 50µm to 150µm

KTL line



Powder coating line

KEY FIGURES

70+

years of experiences in the automotive industry

750+

employees

142 mio

sales revenue (2024)

1000+

different products

6

location

50.000+ m²

of total production area



FULL IN-HOUSE SUPPORT

- ➔ **RESEARCH** - cutting-edge expertise in modern materials and technologies
- ➔ Lightweight-driven **PRODUCT DEVELOPMENT** including **PROTOTYPING**
- ➔ Innovative **TECHNOLOGY DEVELOPMENT** for the high complexity challenges
- ➔ Versatile high-quality **PRODUCTION** capabilities

USP

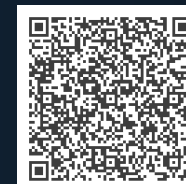
CREATING MOBILITY of the FUTURE

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