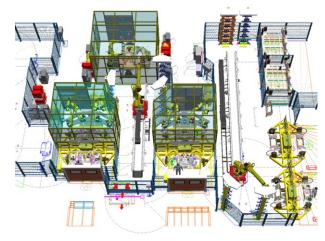


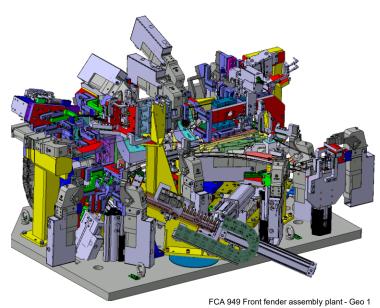


Fiat 846 Front suspension cross member welding system

- 1. HISTORY
- 2. SECTORS
- SERVICES
- 4. STAFF
- 5. SOFTWARE
- 6. EXPERIENCES AND SPECIALIZATIONS
- 7. REFERENCES AND PROJECTS
- 8. CONTACTS



Welding line for Rear Creadle



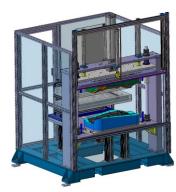


Fiat 846 Front suspension cross member welding line

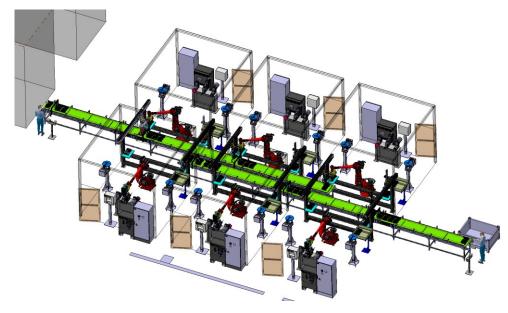
1. HISTORY

ST.A.DE. was born in 1995 as a mechanical design technical office, and has always worked with extreme professionalism and great results. Taking advantage of the experience of its technical staff gained over the years in industrial automation, robotic systems, light and heavy carpentry, industrial process lines, the study and development of mechanical designs aimed at various sectors, the strength of ST.ADE. lies in the ability to conceive technologically and conceptually innovative solutions.

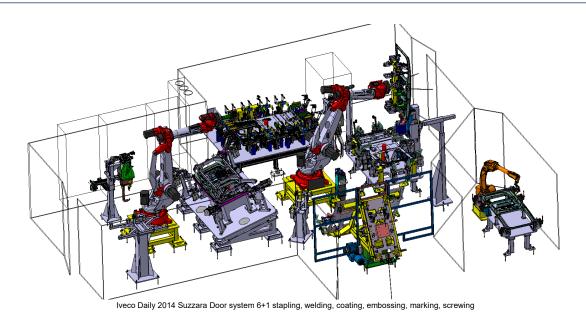
ST.A.DE. proposes itself as the ideal partner for metalworking companies alongside the technical office or in place of the same.



M161 - Equipment for gluing the leather on the armrests



Engine deburring and drilling system

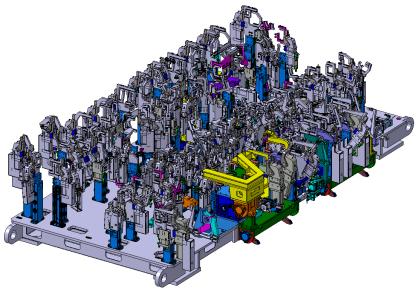


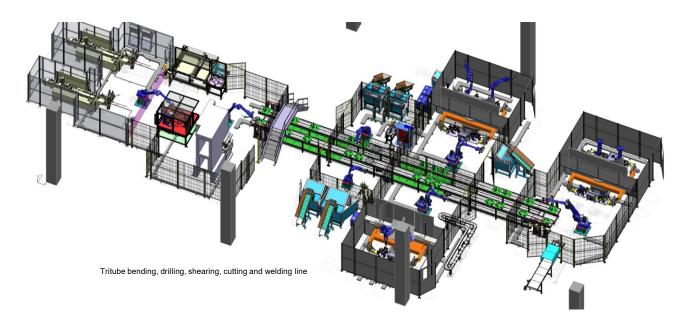
2. SECTORS

- Automotive
- Automatic machines
- Metalwork
- Manufacturing
- Carpentry
- General Industry



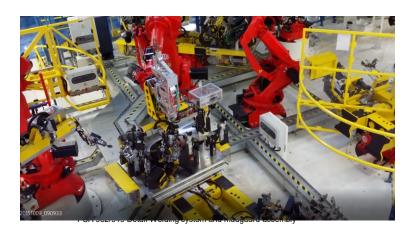
ame assembly and welding plant





3. SERVICES

- Feasibility studies
- Simultaneous Engineering
- Ergonomic analysis, MTM, FMEA
- Process and welding processes
- Process simulation
- Prototype equipment design
- Plant layout
- 3d mechanical design
- 2d mechanical design
- Timing and sequence analysis
- Operation charts



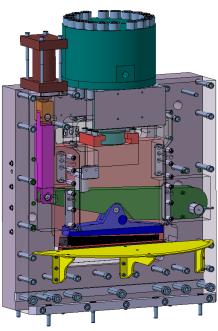
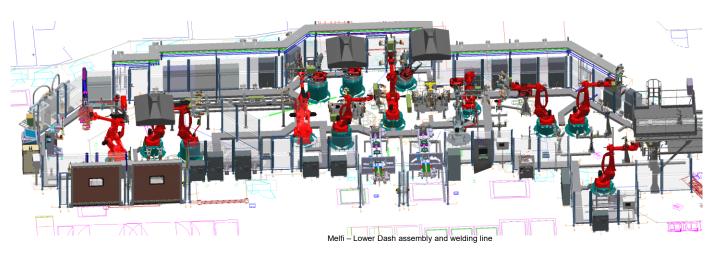


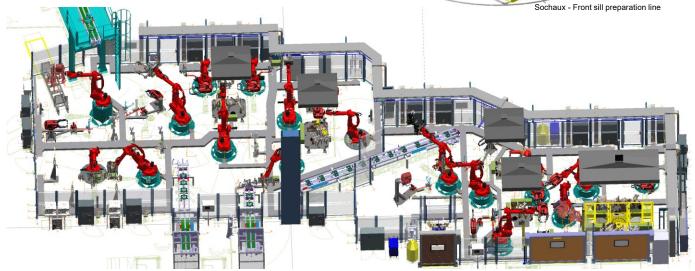
Plate shears



4. STAFF

- 1 Technical manager
- 8 Mechanical Designers
- 3 Process Simulate and Delmia specialists
- •1 Accounting and HR manager Internal availability 2000 H/month External Availability 1500 H/month





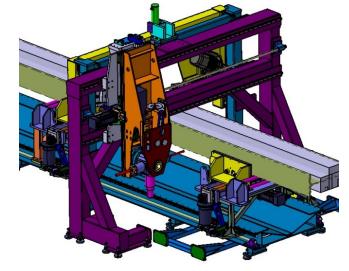
Melfi - Front rail left assembly and welding line

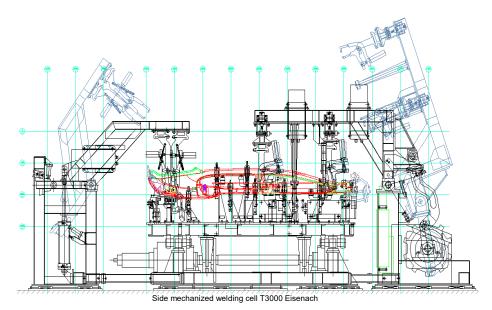


Beam cutting, drilling, butting and marking system

5. Licensed SOFTWARE

- •Dassault Systèmes Catia
- Dassault Systèmes Delmia
- •Siemens NX
- •Siemens Process Simulate
- Autodesk Autocad
- SolidWorks









6. EXPERIENCES AND SPECIALIZATIONS

ROBOTIC LINES AND MACHINES - AUTOMOTIVE-

Robotic lines for welding assembly closures (front door, rear door, hood, trunk, fender).

Robotic lines for welding bodyside assembly

Robotic lines for welding underbody floor assembles

Robotic lines for welding bodyside components

Robotic systems for spot and nut welding on the roof

Robotic Laser welding system for doors and roof

Robotic lines for welding bodyframe assembly.

Robotic lines for welding suspensions

Robotic lines for assembling and nailing frames

Robotic line for glass assembly.

Robotic lines for stamped sheet metal manipulation.

Robotic cells for arc welding seat backrest

Robotic cells for riveting the windshield cross member

Pre-hemming and Roller Hemming cells

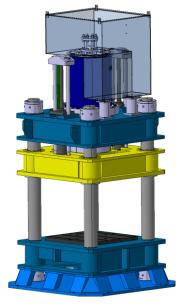
Robotic line for cylinder head and oil sump deburring.

MANUAL OR SEMIAUTOMATIC LINES AND MACHINES. -AUTOMOTIVE-

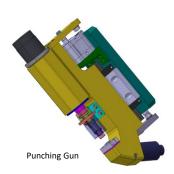
Automatic engine assembly line

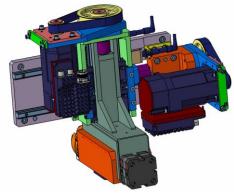
Manual side welding and assembly line

Manual line for welding and assembly of side members and floor Semi-automatic assembly line for closures on the bodyframe Hand tools for mounting and aligning headlights, bumpers, and closures.

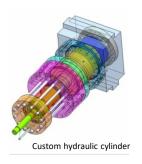


400T press





3 axis marking machine





Porsche PO356 Detail Rear cross member riveting system

AUTOMATIC MACHINES.

Light and heavy Cartesian motorized systems

Transport systems in general

Palletizing systems in general

Spot and arc welding system

Welding systems for grilles in the furniture and household appliances sector

Welding systems for armored doors

Automatic screwing, riveting and assembly machines

Elevators with one or two columns.

Parallelogram and cam elevators

Pick-up for Light or heavy component series

Robot portals

Junction tables

Rotating tables

Manual or motorized trommels.

Belt or roller conveyors

Cabins for working areas.

Automatic screw and nut loaders.

Automatic plate and bracket loaders

Automatic rod loaders

Welding gun for robot or bench

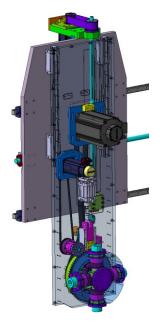
Punching gun for robot or bench

Robot or bench clinching gun

Catwalks and support structures in general.

Loading bays, specific containers

Equipment for gluing the leather on the armrests



Custom drilling head





Automatic punching, marking and cutting lines
Automatic drilling and cutting lines
Drilling machines with one or more heads
Profile shearing machines
3 axis marking tools
Presses from 400 to 1,600 tons
Sheet metal cutting shears
Fixed and revolving saws
Load manipulators
Broaching machines

CONTROL EQUIPMENT.

Robotic cells for general checkup Caliber for equipment control Benches for shock absorber fitting Benches for Petrol pump testing Benches for electric current flow testing.



Maserati M161 chassis line excerpt

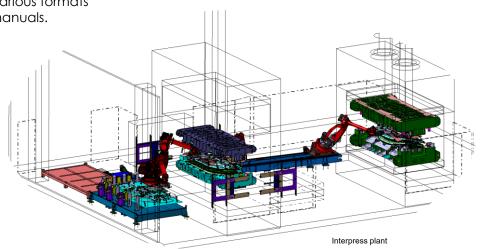
DOCUMENTATION.

Processing cycles

Documentation and services to support the design Digitization and archiving assistance services

Creation of print files in various formats

Use and maintenance manuals.







AUDI **BMW** Projects: E46, E90, G20

FERRARI Projects: F149, F164, F175, F150BD

Projects: 936, 838, 178, 186, 188, 192, BMPV, 199, 844, **STELLANTIS**

> 846, 940, 139, 330, 520, 334, 521, 226, 551, 560, 952, 949, X1H, X6H, X6S, 356, 965

Evmp 64/74, D85, J4U

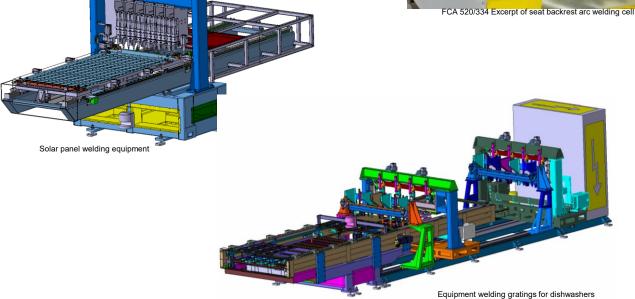
FORD Projects: PVW168, 226, 256, 257, C307, CD345, C519

Projects: X250, Daily 2014, Stralis **IVECO**

Projects: M139, M145, M156, M157, M161, M182 MASERATI **MERCEDES** Projects: BR169, BR164, NCV3, BR163, XC253

OPEL Projects: T3000, S4300 PEUGEOT Projects: 206, G9 PORSCHE Projects: PO356 RENAULT Projects: X65, J64 VOLKSWAGEN Projects:C1, S5, C5 VOLVO Projects: P15, Y413







8. CONTACTS

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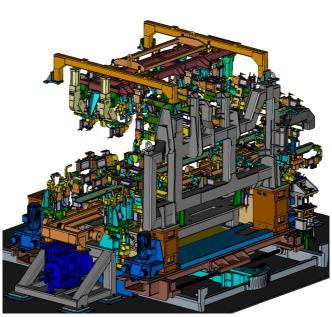
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business@stade.it

e-mail CEO: claudio.grandinetti@stade.it



Ford C307 Bodi Frame assembly hanger

