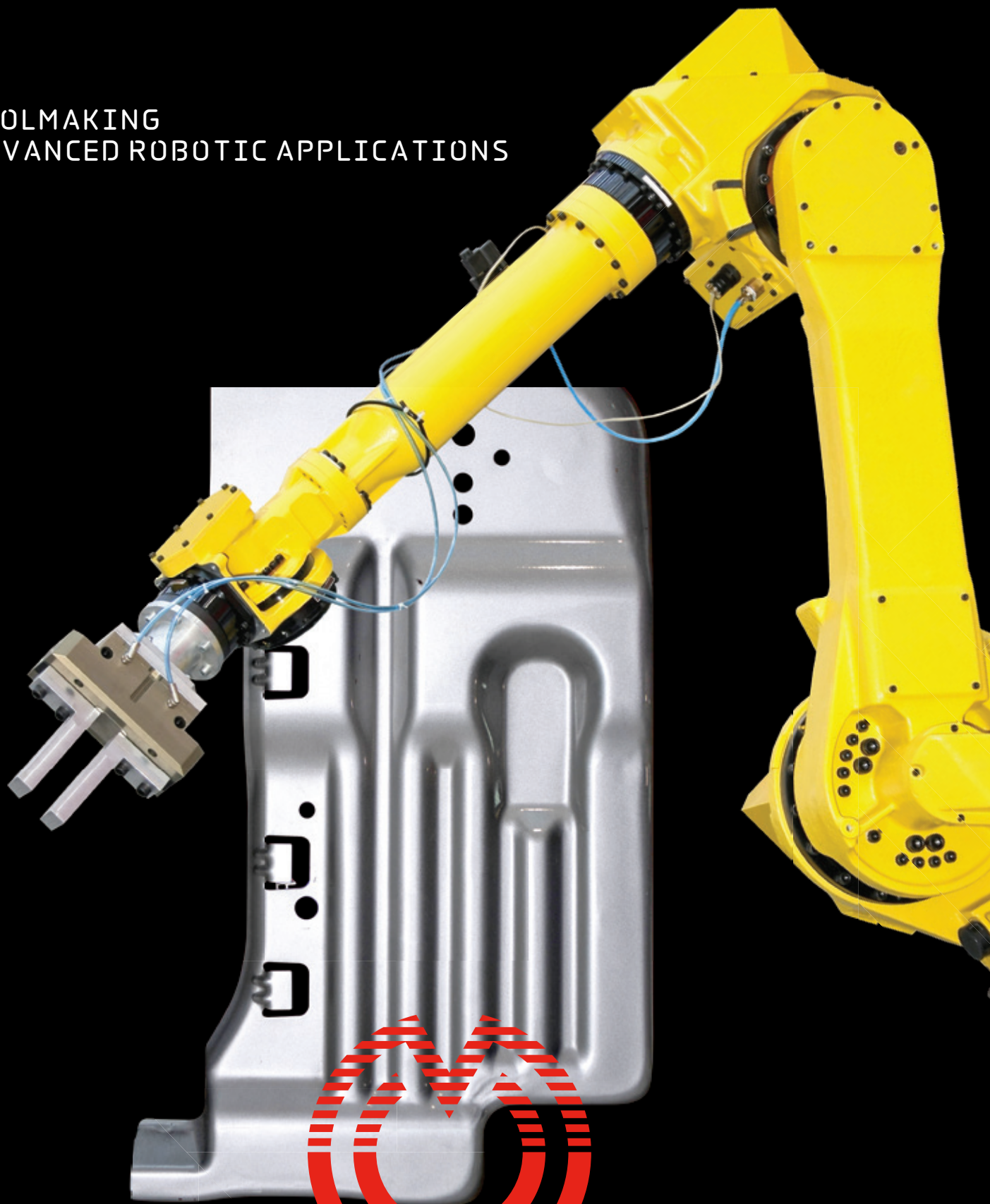


TOOLMAKING
ADVANCED ROBOTIC APPLICATIONS



MTC
GROUP



MTC
GROUP

OUR HISTORY

MTC Group is located in Fabriano, in Marche region, and has specialized in working sheet metal over more than 50 years. Set up in 1970 it started manufacturing tools for kitchen suction hoods and year by year stretched out to the full range of home appliances.

In the late 1980s MTC Group extended the product range to the automotive sector beginning to manufacture tools for seat parts.

In 2000 a new division named ARA (Advanced Robotic Applications) was created from a technological spin-off for the production of robotized welding cells and automation technology in general.

Both divisions work in synergy so as to offer integrated solutions.





OUR PHILOSOPHY

It was always MTC group's philosophy to achieve significant synergies with the clients and to grow with them thanks to a partnership based on continuous innovation and quality products.

Cutting edge software for simulation, engineering and metrology, modern and large machine shop, expert and dynamic staff oriented to the client's satisfaction have transformed MTC Group into a solid and reliable company.

**We are certified
ISO 9001:2015**

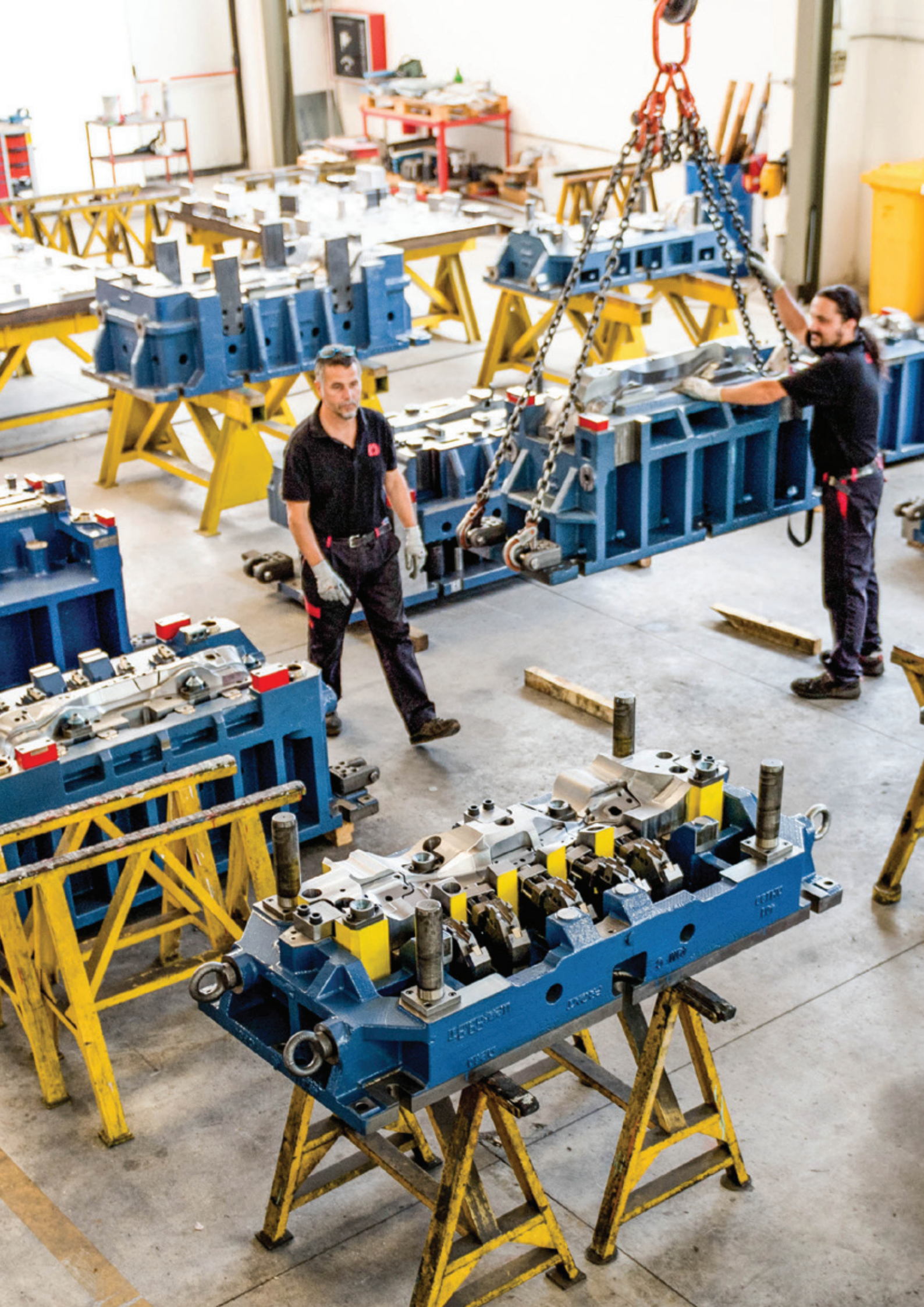
**We continuously develop
technological research
projects in cooperation
with the polytechnic
university of Marche
Region**

**We provide continuous
professional training to
our staff members**

**Assertiveness and
reliability are our main
features**

GLOBAL APPROACH

We supply tools and turn-key engineering plants worldwide with direct on-site commissioning.



TOOLMAKING DIVISION

AUTOMATION DIVISION



We manufacture tandem, progressive and transfer tools up to 6 m length and 2,5 m width. Tool design in Catia V5 is made in house, as well as assembly, set-up and stamping of pre-series up to 1.000 tons.

We have experience in forming the majority of commercial steels like high-resistance, dual phase, stainless, aluminum from 0,5 up to 3 mm thickness.

In the automotive sector we are specialized in tools for BIW like cross members and pillars, for Chassis like front and rear sub-frames, front axle carrier and front lower control arm and for the seat structure.

In the home appliances sector we are specialized both in esthetic and structural parts of oven, dishwasher, washing machine, dryer, fridge

We manufacture automatic machines and robotized systems for the factory automation and serve almost every sector.

To the automotive sector we offer robotized welding cells (SPOT, MIG and MAG welding) for assembling BIW and Chassis parts as well as seat components.

To the home appliances sector we offer assembly lines, sheet forming lines and automatic machines for assembling subassemblies.

To the general industry we supply automated solutions for welding, palletising, gluing, assembling and feeding.



TOOLMAKING DIVISION



Factory

MTC is located in Fabriano and is easy to reach (2 Km from the exit "Borgo Tufico" on the State Road Ancona/Roma SS76, in Frazione Albacina di Fabriano, Sp 256 Muccese).

It owns a covered surface of 2.800 Sq m and is equipped with 4 cranes with a lifting capacity up to 20 tons, 2 fork lifts with a loading capacity up to 5 tons. The press shop was completely renewed in 2015.

Engineering

We start simulating the stamping process with AUTOFORM (# 1 station), design the tool with CATIA (# 5) and perform CAD/CAM modelling with TEBIS and CATIA (# 2).

It is paramount for us to properly evaluate the technical solutions, choose the most suitable production technology and implement the feasibility study about safe die functionality and proper working cycle so as to obtain the best product with a stable and long-lasting process.

2.800 Sq m facility

4 cranes up to 20 tons

2 fork lifts up to 5 tons

Easy to reach

Possibility to expand the company size

**New presses
(April 2015)**

**Renovation
of existing factory
(September 2015)**



TOOLMAKING DIVISION

Equipment

The production site is equipped with a wide range of machine tools.

3 axis CNC machining centers (1.500x700; 1.100x600), milling machines with mobile column (IM Parpas 4.000x2.000), bridge type milling machine (Maxxtron 2.500x1.700) and milling machine with fixed bench (IM Parpas 2.000x800).

Grinding machines: Rosa (1.000x500) and Alpa (1.700x700).

Wire Erosion: Sodick (550x350x270) and Mitshubishi (500x350x300).

MILLING

CNC 3 axis Focaseiki 1.500x700

CNC 3 axis Focaseiki 1.100x600

CNC 3 axis Focaseiki 1.100x600

Mobile column Parpas 4.000x2.000

Bridge type Maxxtron 2.500x1.700

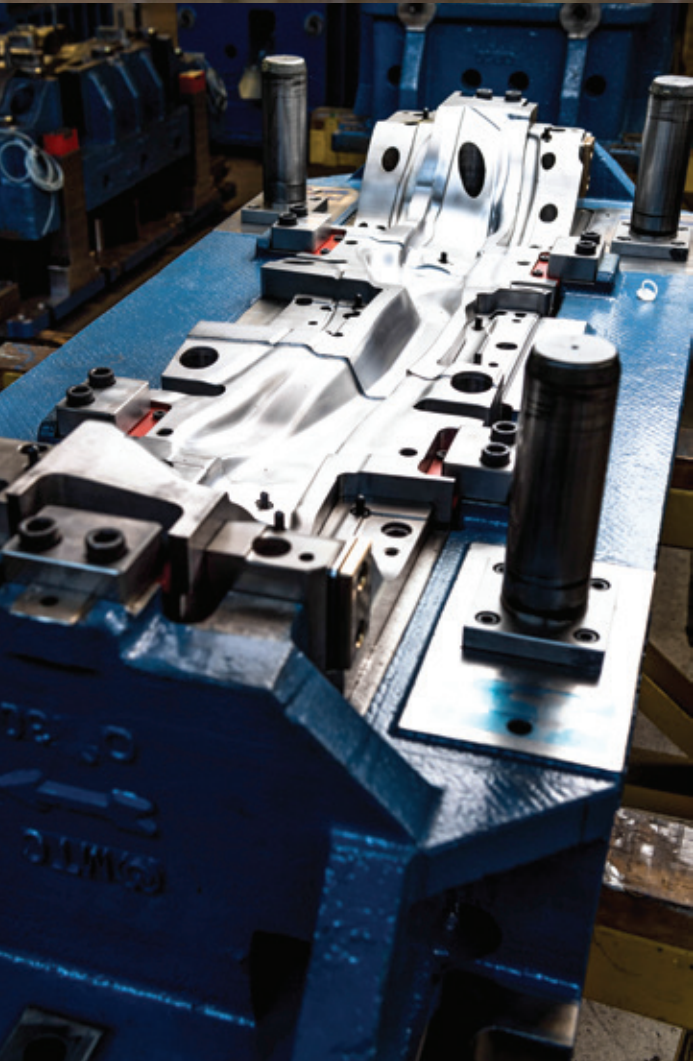
Fixed bench Parpas 2.000x800

GRINDING

Rosa 1.000x500

Rosa 1.000x500

Alpa 1.700x700



Try-Out and Quality

Our primary goal is to supply a performing product in compliance with the client's quality standards and agreed delivery terms.

In-house try-out and quality control have always been an important stage for us.

Thanks to our presses (Mecfond 1.000 tons mechanical - 4.650x2.400 mm and Ravne 500 tons mechanical - 2.700x1.500 mm) and our CMM machine (Dea Global 1.500x900x450 - software PC-DMIS) the try-out phase is rapid and efficient in terms of accurately fine tuning the tool with guarantee of top quality.

WIRE EROSION

Sodick 550x350x270

Mitshubishi 500x350x300

PRESSES

Mecfond 1.000 ton mechanical
4.650x2.400

Ravne 500 ton mechanical
2.700x1.500

METROLOGY

Dea Global 1.500x900x450
-software PC-DMIS

TOOLMAKING DIVISION



Tools for the Automotive industry

Dynamic and flexible engineering, attentiveness to production scheduling and high quality standards are our guidelines to offer multiple solutions in a most important branch such as automotive.

CHASSIS

Front and rear side member, reinforcement tunnel, seat cross member, reinforcement side member

BODY IN WHITE

Windscreen bracket, pillar side member, light housing, wheel housing, front strut, crash box cross member

SUSPENSION

Upper and lower cradles, control arm, shock absorber

SEAT

Cross member, side members, back rest



Tools for the Home Appliances industry

Daily dialogue with the client to meet his requirements and comply with his expectations is a must for producing tools for appliances.

COOKING

(free standing & Built in)

Front and back panel, cooking top, pipe and burner plate, external door, structure cross-members, control mounting panel

WASHING

Front panel, back panel

DISH WASHING

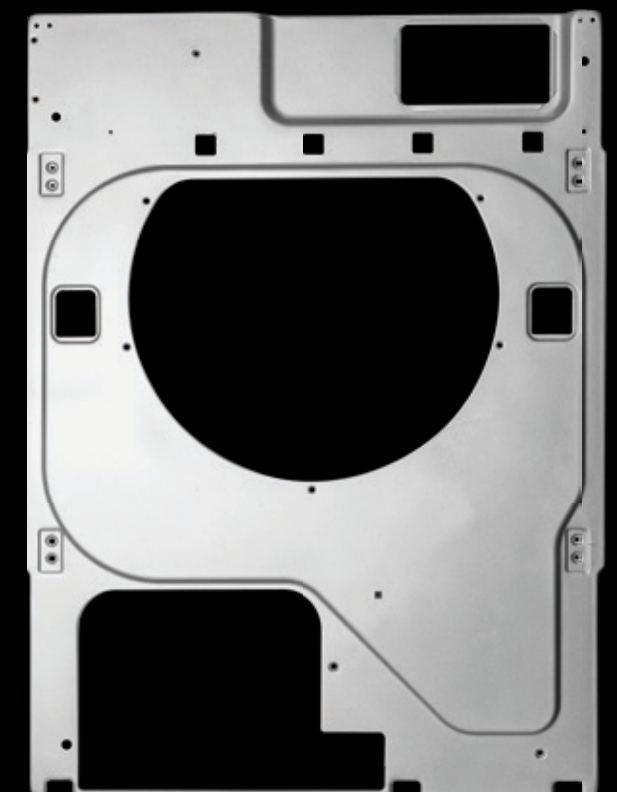
Front door, side pillars, upper cross member, internal door, internal tank

DRYING

Front panel, back panel

REFRIGERATING

Front panel, base cross member





AUTOMATION DIVISION

Factory

ARA is located in Fabriano and easy to reach (2 Km from the exit Fabriano east on the State Road Ancona/Roma SS76, in via Giuseppe Di Vittorio, 11/D). It owns 1.500 Sq m of covered surface.

It is equipped with 2 cranes with lifting capacity up to 10 tons and 1 forklift with a loading capacity up to 4 tons. It is possible to set up plants up to 30m length.

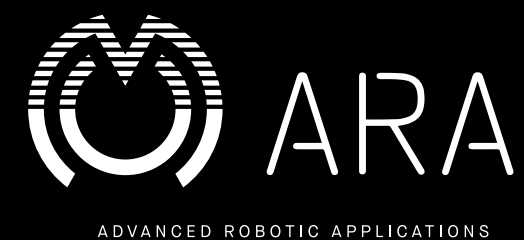
Engineering

Design is tailored to the client's specifications and involves a high degree of engineering to develop automatic and robotized systems for industrial welding, assembling and handling. We use software like ROBCAD (# 1) to simulate the production process and SOLID EDGE (# 5) for 3D design.

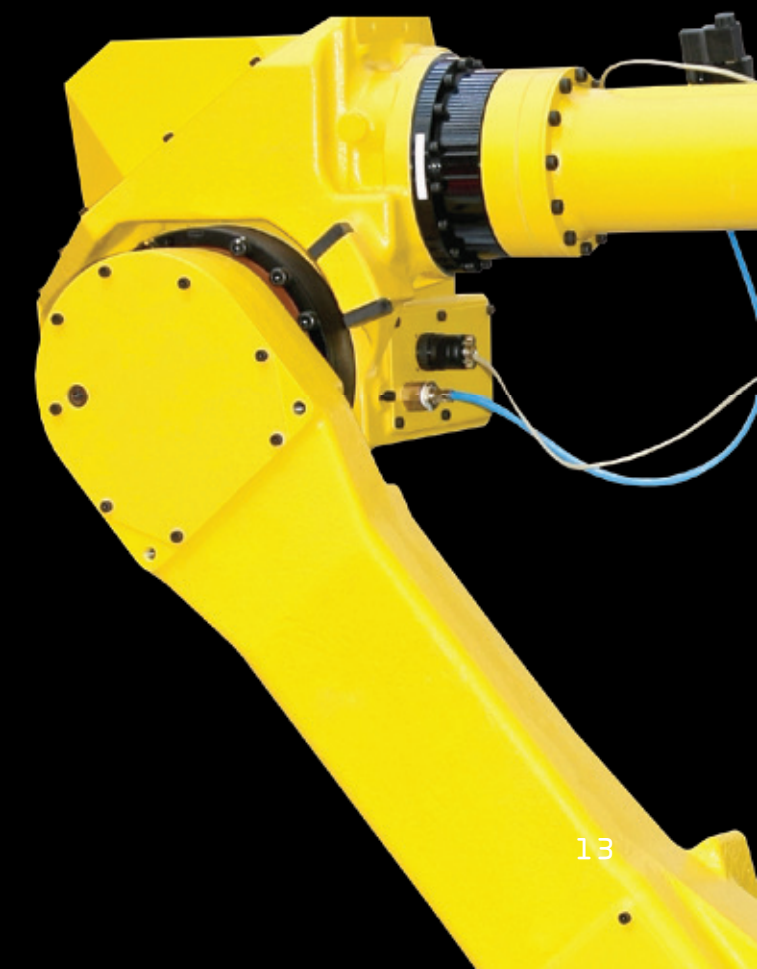
Buy-off

Buy-off and quality control are fundamental to complete the project.

We use a certificated portable measuring arm: ROMER absolute arm by Hexagon. The accuracy of our measuring systems is completely verifiable and traceable.



ADVANCED ROBOTIC APPLICATIONS



OUR PARTNERS

ROBOTICS

Comau, Kuka, Fanuc,
Panasonic, Yaskawa

PLC

Siemens

PNEUMATIC

Festo

ELECTRONIC

Murr, Phoenix, Siemens, Reer,
Keyence, Schneider, Balluff

ROTATING TABLES

Expert

WELDERS

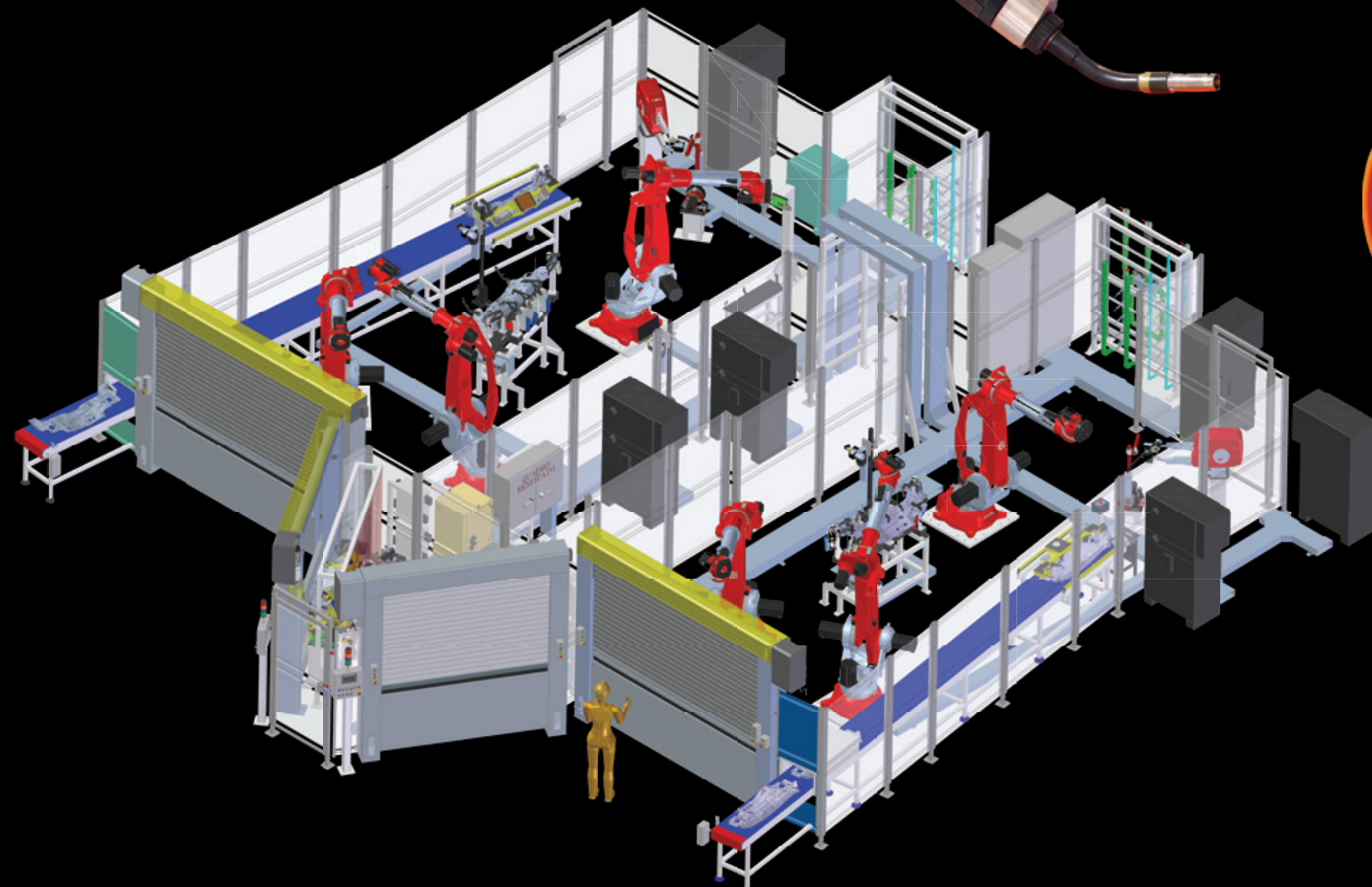
Nimak, Fronius, Aro, Corotrat, Tecna

CLAMPING

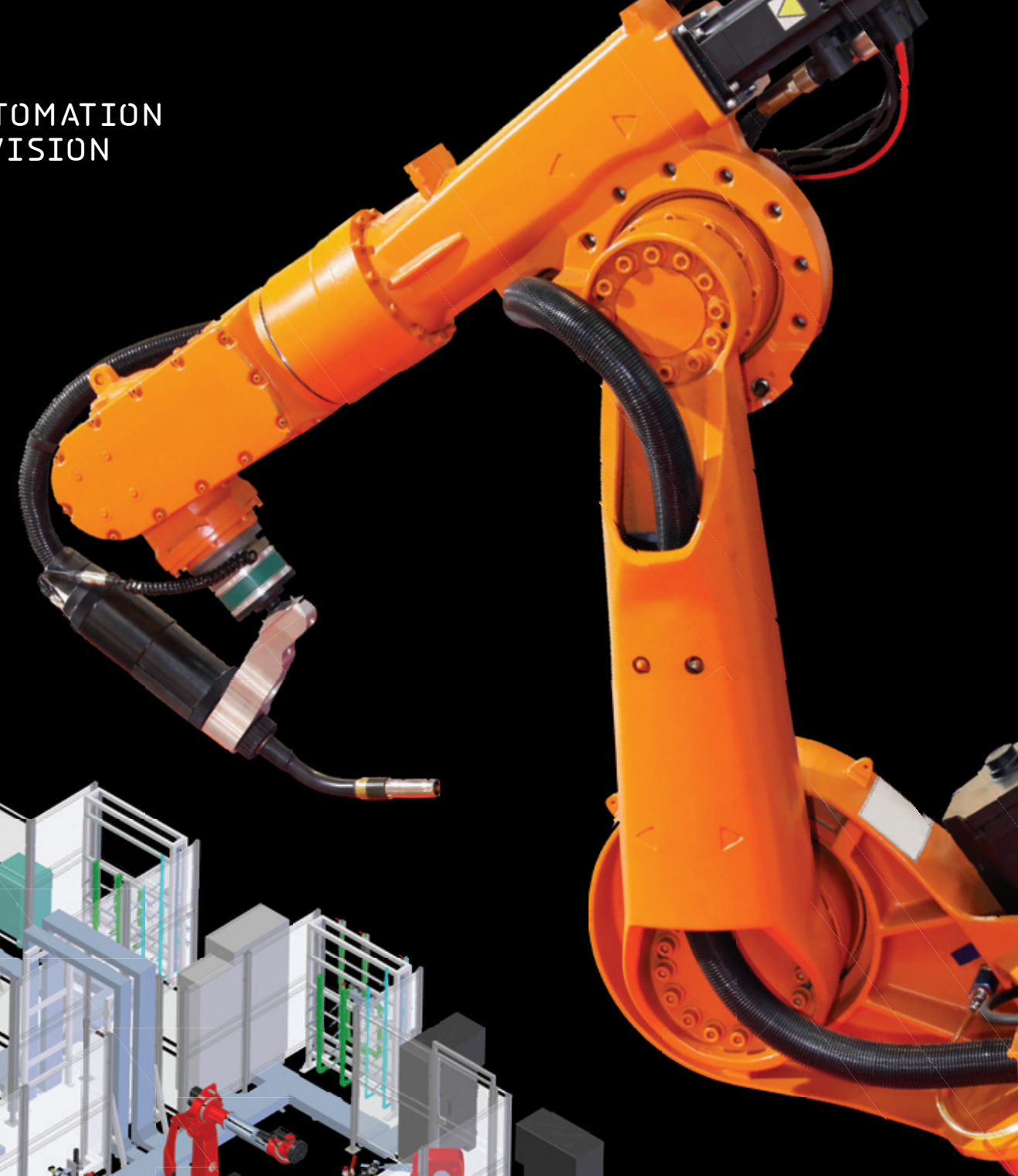
Tunkers, Destaco, Vep

Support from and sharing with our partners permit us to offer updated, innovative and top quality solutions on demand.

Over the years we fostered a high specialized knowledge in robotics and could therefore choose reliable and specialized interlocutors



AUTOMATION DIVISION



AUTOMATION DIVISION



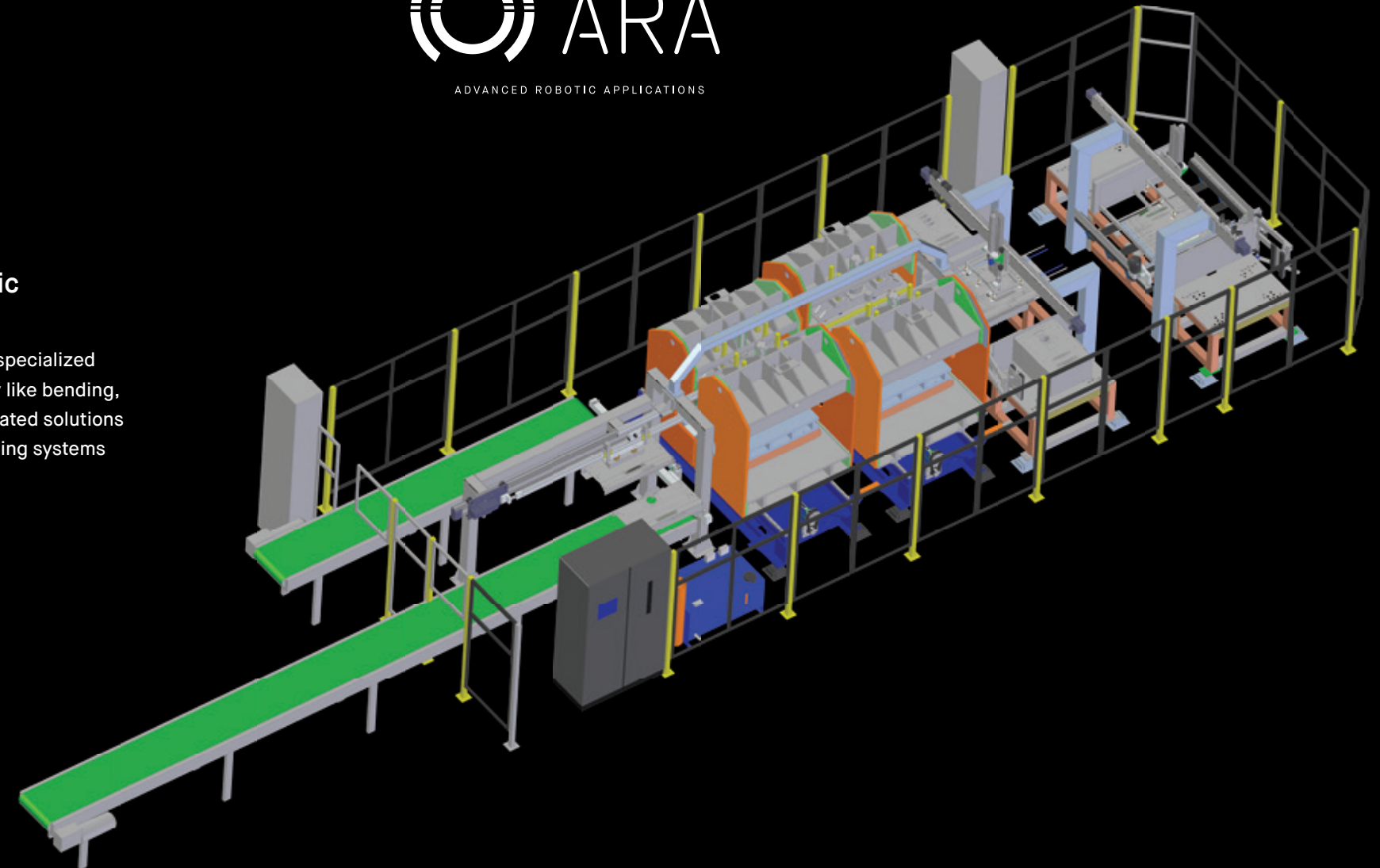
Automotive robotic applications

We design and manufacture robotic cells for spot welding, projection welding of nuts and studs, MAG-welding and sealing of structural parts.

We also produce clinching/riveting systems like robotic cells for riveting steel or aluminum parts, handling systems like robotic cells to handle subassemblies and to load parts on manufacturing lines.

Home Appliances automatic applications

In the home appliances sector ARA is specialized in the sheet metal working technology like bending, clinching and welding. We offer automated solutions like assembly lines and robotized feeding systems for production lines.



WELDING CELLS

Robotized cells for spot welding, projection welding of nuts and studs, MIG/MAG-welding and sealing of structural parts

CLINCHING RIVETING SYSTEMS

Robotized cells for riveting steel or aluminum parts

HANDLING SYSTEMS

Robotized cells for handling subassemblies and feeding components to manufacturing lines

SHEET METAL WORKING SYSTEMS

Automatic bending, clinching and welding lines

AUTOMATIC MACHINES

Automatic machines for assembling subassemblies and components

FEEDING SYSTEMS FOR PRODUCTION LINES

Robot integration for feeding production lines

Automatic systems for the general industry

Know-how and expertise in home appliances and automotive enable us to offer a large number of services to the general industry.

Over the years the request of customized automatic systems has increased, particularly: installation of anthropomorphic robots for loading/unloading machining centers, automatic testing machines, collaborative working with robots; half-automatic or fully automatic assembly lines, palletising and packaging lines.

Installation of anthropomorphic robots for loading/unloading machining centers

Automatic testing machines

Collaborative working with robots

Half-automatic or fully automatic assembly lines

Palletising and packaging systems

MTC DIVISION

Designers and CAD/CAM: 7

Toolmakers: 8

Machinists: 10

Tool capacity/year: 12 transfer and 8 progressive dies

Average turnover/year: 4,5 mil Euro

ARA DIVISION

Designers: 3

Assemblers: 4

Robot programmers: 2

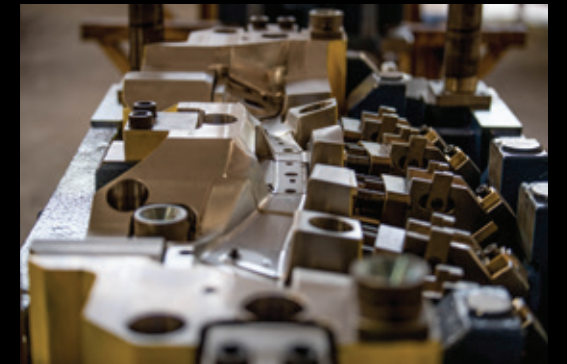
PLC programmers: 2 (outsourcing)

Average turnover/year: 2,5 mil Euro

Our numbers

MTC Group is made of persons with years of in-field experience and professionals with specialist skills. Commitment and enthusiasm for what we make every day are often repaid with the satisfaction showed by our customers.

To put the words in numbers MTC counts 7 designers cad/cam, 8 toolmakers, 10 machinists and has a tool capacity/year of 12 transfer and 8 progressive with an average turnover of 4,5 mil Euro/year. ARA counts 3 designers, 4 assemblers, 2 robot programmers, 2 PLC programmers in outsourcing with an average turnover of 2,5 mil Euro/year.



CONTACTS



MTC

TOOLMAKING

Meccanotecnica Centro S.r.l.

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ARA

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