



ANDREOLI & C

MARANELLO

OUR HISTORY

Our story began in 1982, when Dino and Luciano Andreoli founded Fratelli Andreoli in Maranello – in the heart of the famous “Motor Valley” – a manufacturer of details for campers, cars and motorcycles.

Their professionalism and enthusiasm caught the attention of the two F1 teams in the area and various minor teams of the Emilia-Romagna region, and thanks to their help over the years they have managed to gain a great deal of experience in producing components for race cars.

Over the years the company’s structure has changed, growing from a limited partnership to a limited liability company, the new headquarters in Via Taruffi inaugurated in 2003 has allowed Andreoli & C. to expand the types of work it can offer, to introduce new production technologies, quality and design with the constant growth and training of a group of highly specialised employees.

Today Andreoli & C. has more than 50 employees. It designs, manufactures and certifies components for the automotive industry and other strategic sectors, using all the most soughtafter materials that the market has to offer, applying welding and verification processes that are on the cutting edge of the sector.



1982

DINO AND LUCIANO FOUND
FRATELLI ANDREOLI



2003

INAUGURATION OF THE NEW HEADQUARTERS AND
EXPANSION OF WORK AREAS.



2004

ISO 9001 CERTIFICATION FOR QUALITY
MANAGEMENT SYSTEMS



2012

INAUGURATION OF THE NEW ANDREOLI PROTO
FACILITY, DEDICATED TO THE PREPARATION,
PRODUCTION AND RESTORATION OF PROTOTYPES
FOR THE DEVELOPMENT AND TESTING STAGES.



2018

AS/EN 9100 CERTIFICATION



2019

NEW MARANELLO TEST CENTRE IN PARTNERSHIP
WITH ALTRAN SPA – LABORATORY FOR PASSIVE
SAFETY DEVICES, COMPONENT AND
AIRBAG TESTING



2022

40 YEARS OF ACTIVITY

SECTORS



RACING



AUTOMOTIVE



ENERGY



AEROSPACE



PROCESS



WELDING

Qualified welding with personnel licensed
Laser -TIG/MIG - Braze on different materials



CUTTING

2D laser and 3D fibre cutting (Trumpf)



BENDING AND MOULDING

CNC bending machines - rubber moulding



TUBE CURVATURE

Crippa range Ø3,5/Ø25 - Pedrazzoli range Ø6/Ø65



ROBOTIC WELDING

Hight-precision robot welding



PROCESSES

> MIG/MAG - TIG WELDING



PROCESSES

> MIG/MAG – TIG WELDING



MIG/MAG welding

Continuous wire process that guarantees high productivity. The presence of gas at the same time allows operation without producing waste

TIG welding

Our expert TIG welders are able to make high quality joints



PROCESSES

> LASER WELDING



PROCESSES

> LASER WELDING



TruLaser Cell 7020 (4000W)

6-axis laser welding centre – processing of twodimensional and three-dimensional components. It is possible to easily move from cutting to welding and then to laser deposition welding.

TruLaser Station 5004 (140W)

TruPulse laser TP124 – universal workstation for processing medium-small lots at very competitive costs.

Benefits of laser welding:

- High yield thanks to high speed
- Clean work
- Constant focus diameter throughout the work area.
- Less heat generated and therefore parts are free of distortions
- Weldability of various materials thanks to reduced fusion, and short and controllable duration of fusion .



PROCESSES

> SPECIAL WELDING



PROCESSES

> SPECIAL WELDING



Orbital welding

Polysoude P4 - superior welding quality and maximum productivity.

Excellent results when welding austenitic stainless steel, metals susceptible to oxidation like titanium or alloys like Inconel.

Used in all applications requiring constant and repetitive high quality, good yield and less dependence on highly qualified operators typical of manual welding.

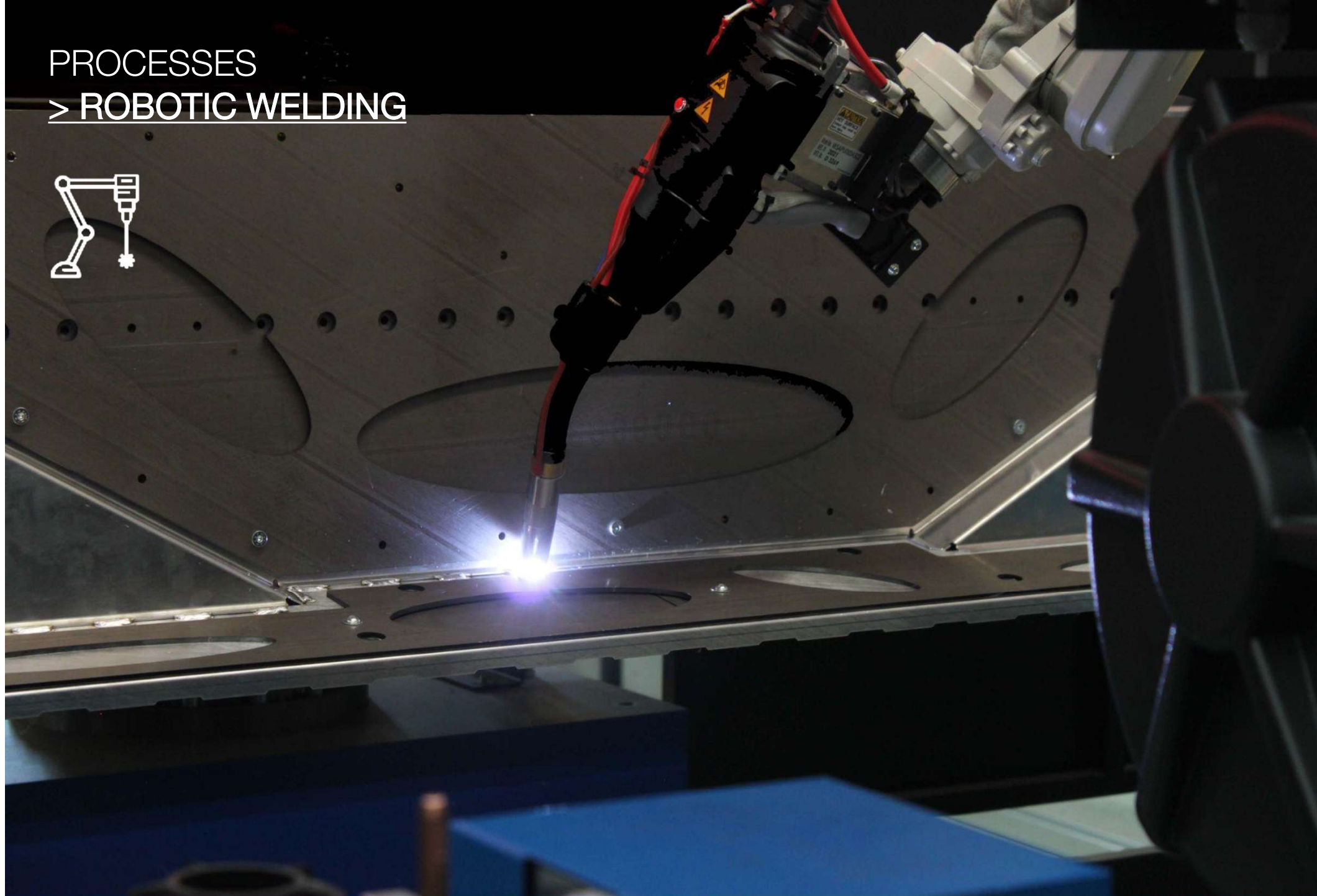
Welding in a booth with controlled atmosphere

Only TIG WIN welding in an argon gas atmosphere allows maintaining unaltered the characteristics of titanium, inconel and special alloys.



PROCESSES

> ROBOTIC WELDING



PROCESSES

> ROBOTIC WELDING



ROBOTIC WELDING

The TAWERS-WG3 arc welding system with 350A inverter pulse generator integrated pulse generator is suitable for MAG and MIG welding applications.

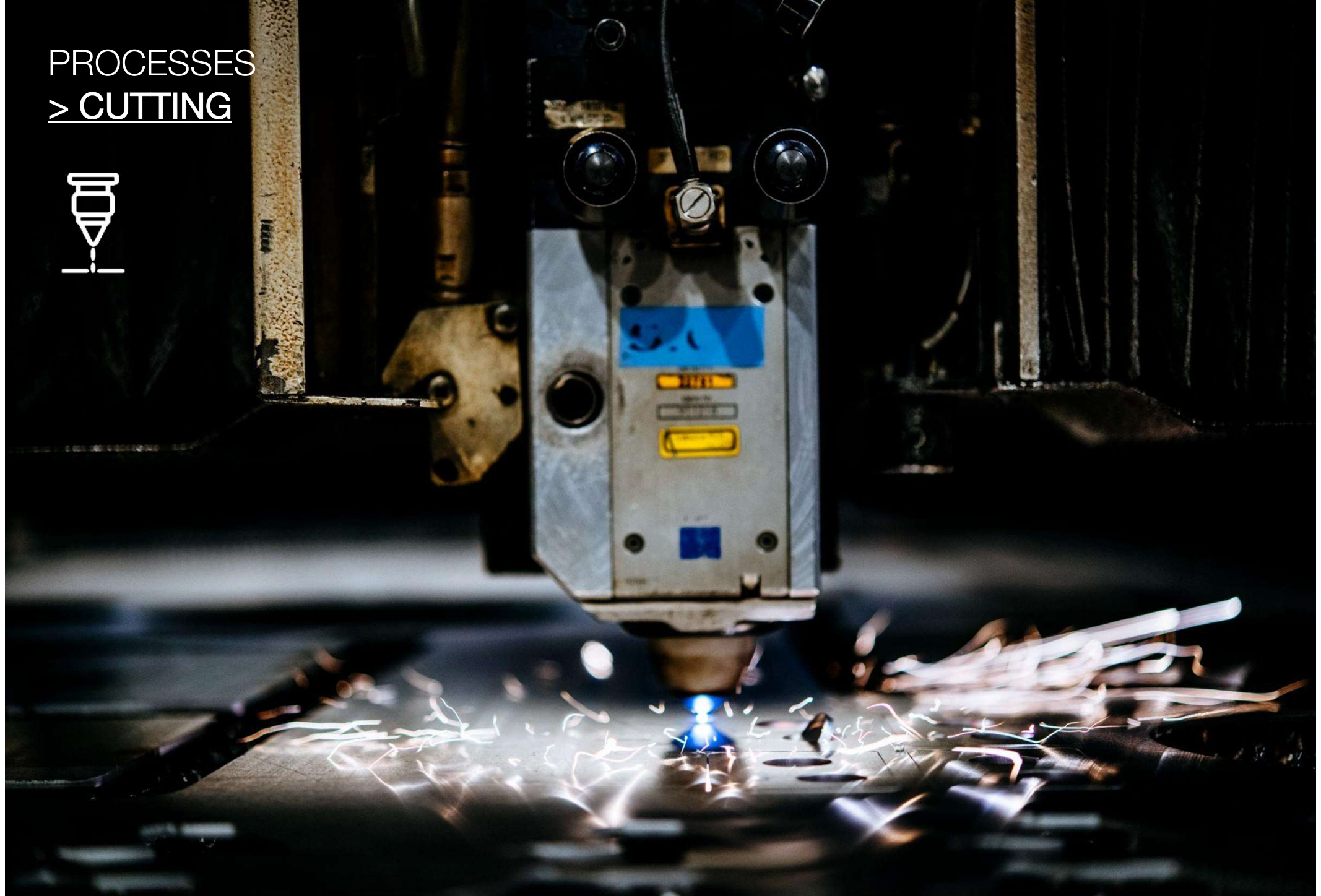
Due to the perfect synchrony between the robot axes, welding curves, and wire feed control, we are able to ensure excellent joint quality and reduced cycle times.

Benefits of robotic welding:

- Maximum flexibility of welding processes
- High processing speed
- Reducing production costs
- Speed and efficiency



PROCESSES > CUTTING



PROCESSES

> 2D - 3D LASER CUTTING



2D Laser Cutting

2D laser cutting is used to make shapes from flat sheet metal. It is usually used for industries that involve cutting steps and then bending, stamping or deep-drawing processes

3D Laser Cutting

3D laser cutting makes it possible to obtain semi-finished or finished products from sheet metal that has already undergone bending, stamping or deep-drawing operations, which, as a result, has a three-dimensional shape.



PROCESSES

> BENDING AND MOULDING



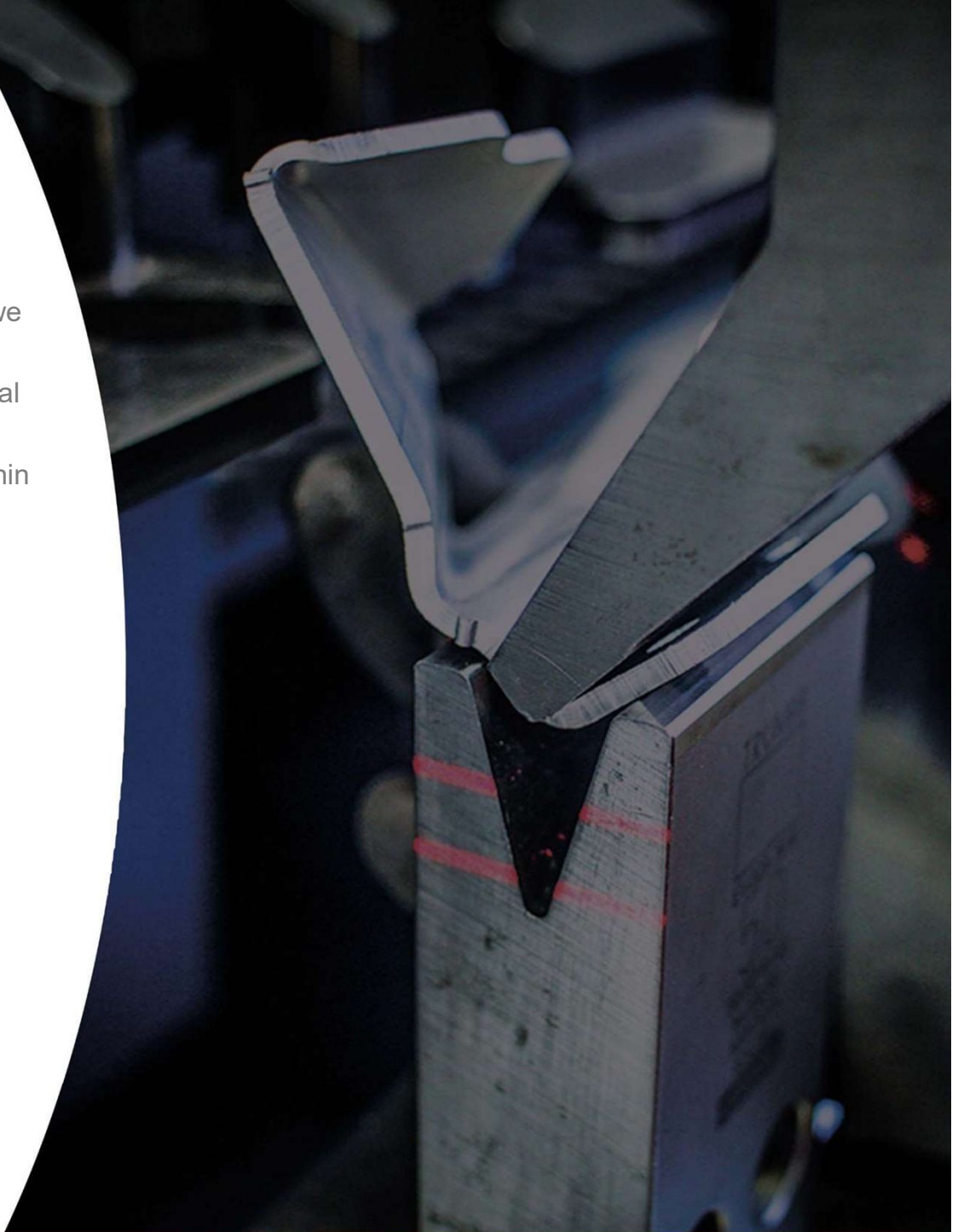
PROCESSES

> BENDING AND MOULDING



BENDING AND MOULDING

Thanks to the company's historical experience, we have strong sheet metal forming and bending capabilities. We can shape many types of material with different characteristics such as copper, aluminum, steel and titanium of thicknesses as thin as 5 to 8 mm.



PROCESSES

> TUBE CURVATURE



PROCESSES

> TUBE CURVATURE



TUBE CURVATURE

Due to the continuous evolution of geometries and the forced reduction of passages in a wide variety of areas, we have procured state-of-the-art machinery for cold forming of components such as round tubes, square or rectangular tubulars and various profiles. These top-of-the-line machines are equipped with dedicated tooling and springback detection systems to ensure complex geometries with minimal bend radius.



SERVICES

> SERVICES OFFERED

SERVICES

Prototypes and preproduction

Andreoli & C. is able to quickly build product prototypes based on customer designs and manage a preproduction run, necessary for the definitive assessment of the product.

Co-designing new projects

Working with customers in the design of new details, offering all the know-how we've acquired over more than 35 years of experience.

Setting up proto cars

Preparing, setting up, and restoring prototypes for the development and testing phases.

Assembly

We are able to respond to increasingly specific and customised needs and to offer our customers components that are also accompanied by their accessories.

Surface Treatments

We can also offer complete details of the most varied surface treatments, in collaboration with numerous partner companies.

Quality Control

Dimensional, Liquid penetrant, RX with licensed personnel.



***High experience, from design to prototype
Andreoli Proto is a department of Andreoli & C.
highly specialized in the preparation,
setting up and restoring prototypes for the phases
of development and testing.***

Andreoli&C Proto Division

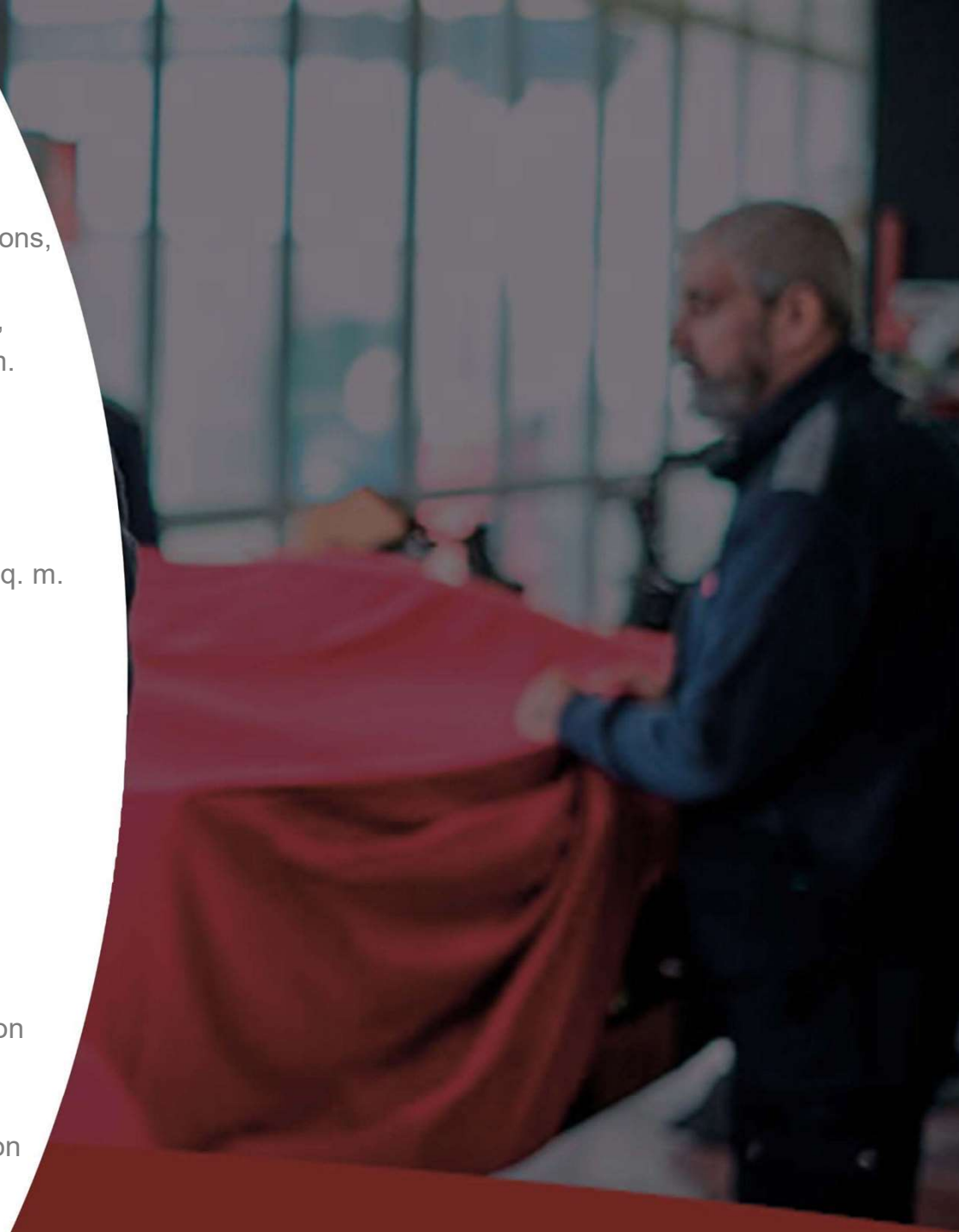
OUR SERVICES

We perform complete assembly of cars to customer specifications, from BIW to start-up assistance.

Cable routing, engine bodywork, suspension assembly, set-up, and fill-ups are entrusted to the experienced hands of our team.

Thanks to an effective organization and the equipment of our facility, we are able to guarantee you:

- Efficient **Logistics Management** with a warehouse of 400 sq. m. on the shelf.
- **Six lifting bridges** for mounting cars.
- A Car Bench **Tallying Bench**.
- A Team composed of highly **skilled Mechanics**
- **Supervision by an engineer**, using state-of-the-art three-dimensional CAD tools such as Catia and Solidworks
- A customized and adaptable management system based on
- of the **customer's needs**.
- A **Mechanical Workshop** for performing rework or repairs on frames and bodies.



QUALITY CONTROL
> QUALITY CONTROL



QUALITY CONTROL



We use the best of technology and tools in all processes to ensure the most optimal result.

Zeiss 3D Contura control

With Calypso program.

No. 2 Hexagon probe and 3D laser scanning arms

- Romer Absolute Arm 7325
- Romer Absolute Arm 7525-SI

Olympus Endoscope

Probe diameter Ø 4 mm.

Mitutoyo LM600 altimeter

Thermo-pneumatic control bench approved for tyre tests

With certification of the values

FCV Equipment

For calculation of pressure drop rates (size/pressure drop).



QUALITY CONTROL



We use the best of technology and tools in all processes to ensure the most optimal result.

CND Controls with Penetrating Liquid for Welds

With 4 qualified operators.

CND Radiographic Checks

Bosello SRE MAX 100-200 industrial radiography system with 150 kV micro-focus Xray..

Laboratory for Macrographic, Microhardness Exames

Macrographic analysis using Nikon_SMZ745T optical microscope up to 50X.

Vickers Microhardness HV 0.2 tests; HV1 with REMET HXD-2000TM durometer.

EN 9100:2018 and ISO9001:2015 certification



ANDREOLI&C
Maranello

TECHNICAL OFFICE

The offices were recently expanded and the technical team reinforced, adding personnel to the R&D department and the CAD/CAM programming and development areas.

Management system

Business Cube

CAD

7 Solidworks stations

1 Catia V5 6R2014 SP6 station

CAM

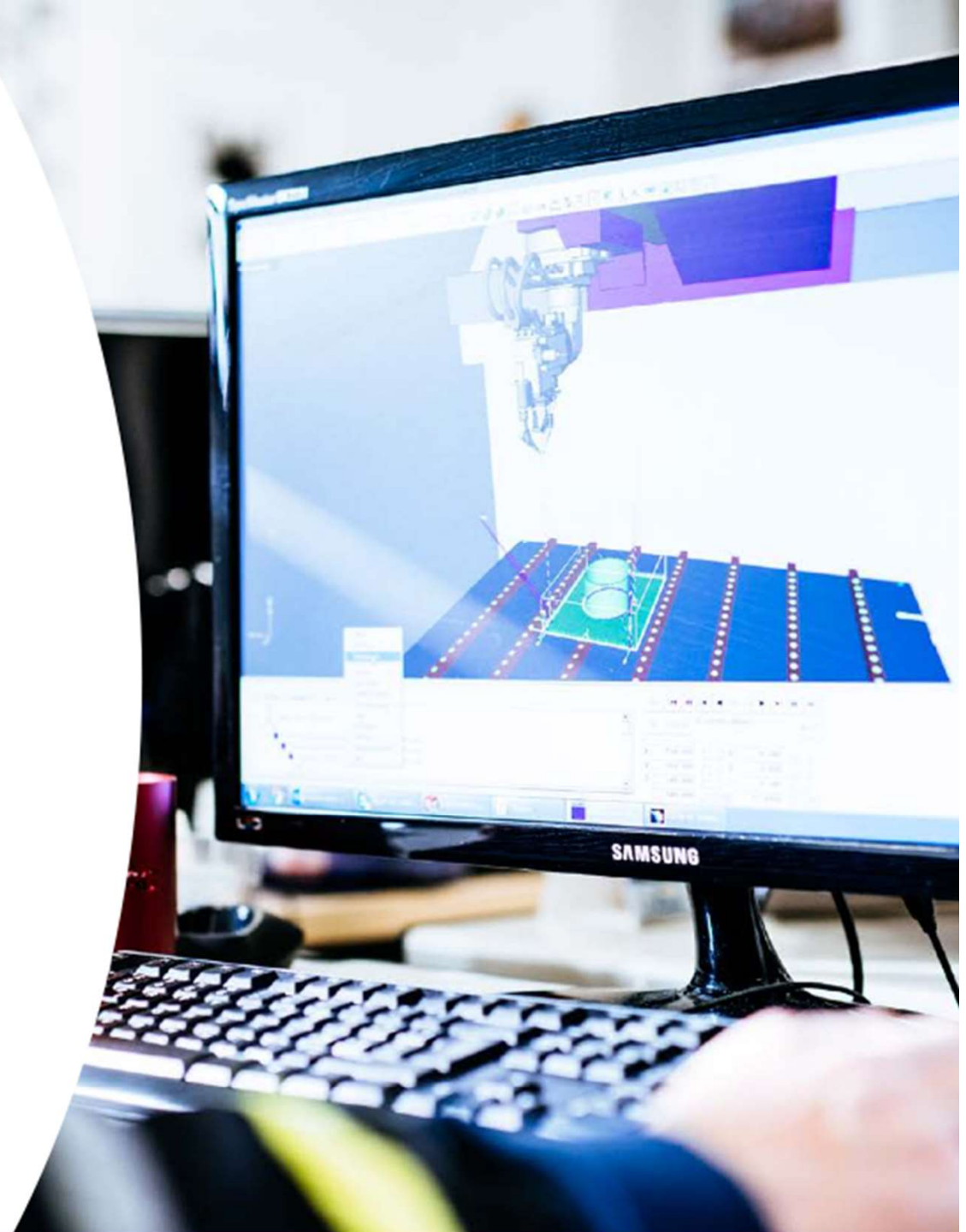
TruTops for laser and bending programming

CAM software robot DTPS

Estimates

LeanCOST Hyperlean

For product estimates and cost analysis



PARTNERSHIP

Thanks to our long experience we have developed a close cooperation with our customers.

Always at your side during all production phases:

Identifying production problems in advance during development and the initial design stage thanks to our technical department that, in synergy with the customer, checks the feasibility of the project and studies and designs all the necessary equipment to ensure the quality and accuracy of the final result and to find the best quality/price ratio.

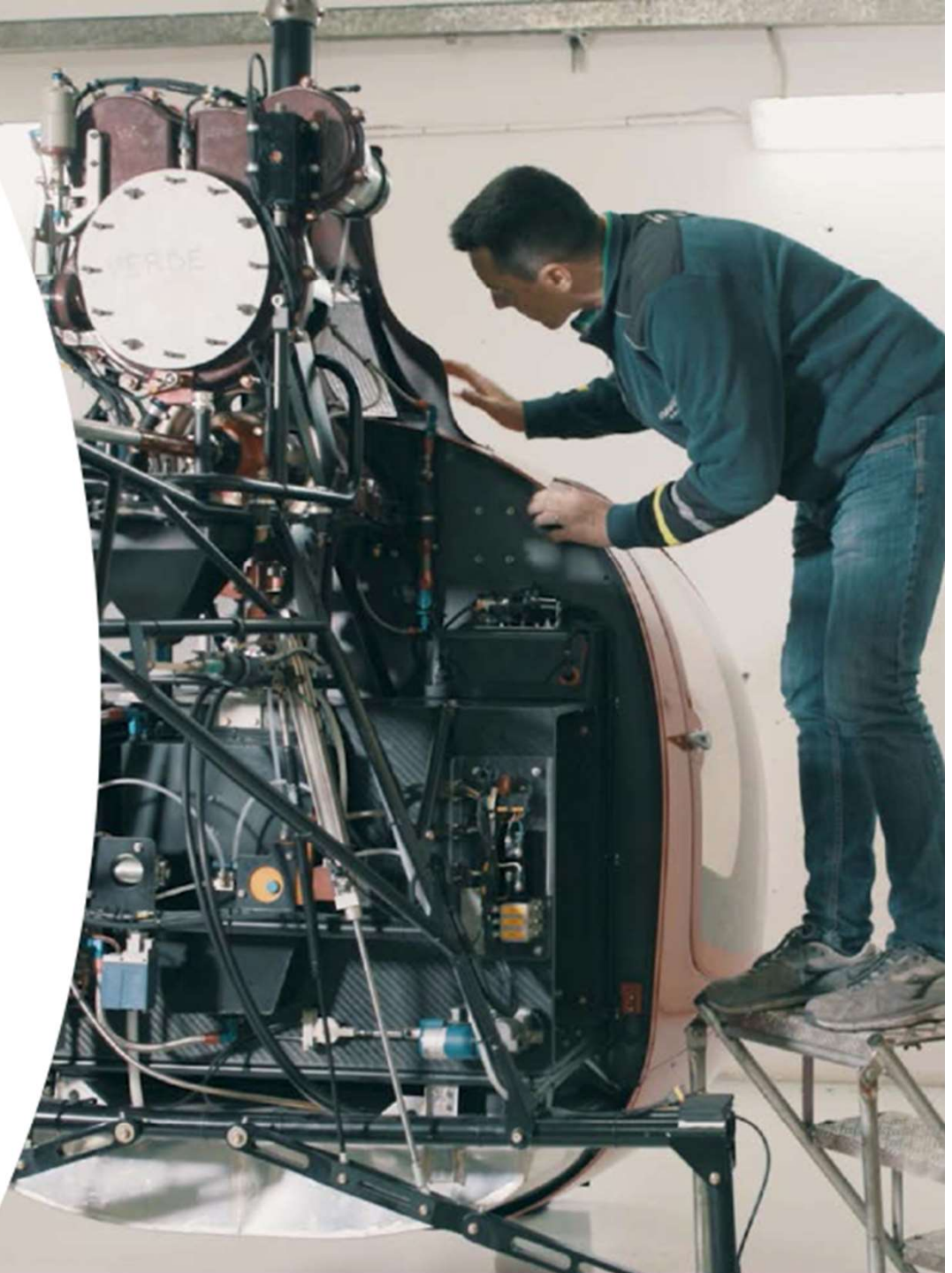
Ability to act as lead contractor, that is, to manage traditional mechanical production on behalf of our customers, guaranteeing the quality of the workmanship that we carry out in collaboration with mechanical engineering companies that we have certified.

Just in time deliveries

Project verification to monitor performance compared to expectations.

Studies and projects from scratch verifying performance against expectations.

NDT checks and integrity verification of components after use.







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