

YES WE CUT



OUR COMPANY

30 years of extensive knowledge and experience allow us to design and build complex mechanical, electrical and software systems, rich in technological content that meet the industry's highest quality and safety standards.

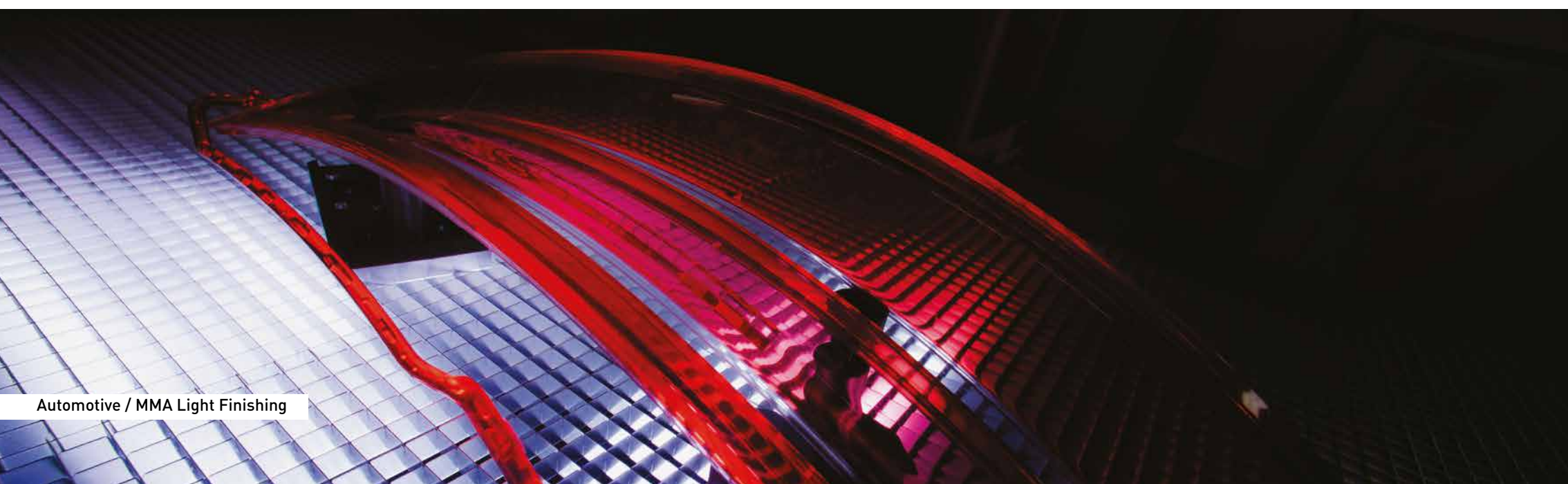
The flexibility of this approach, along with the consolidation of our unique Soft Clusters® design and development methodology, has allowed TÈAS to produce large process manufacturing and, above all, discrete manufacturing systems that have confirmed the value of not standardizing solutions, but developing ad-hoc designs based on the needs of our customers.

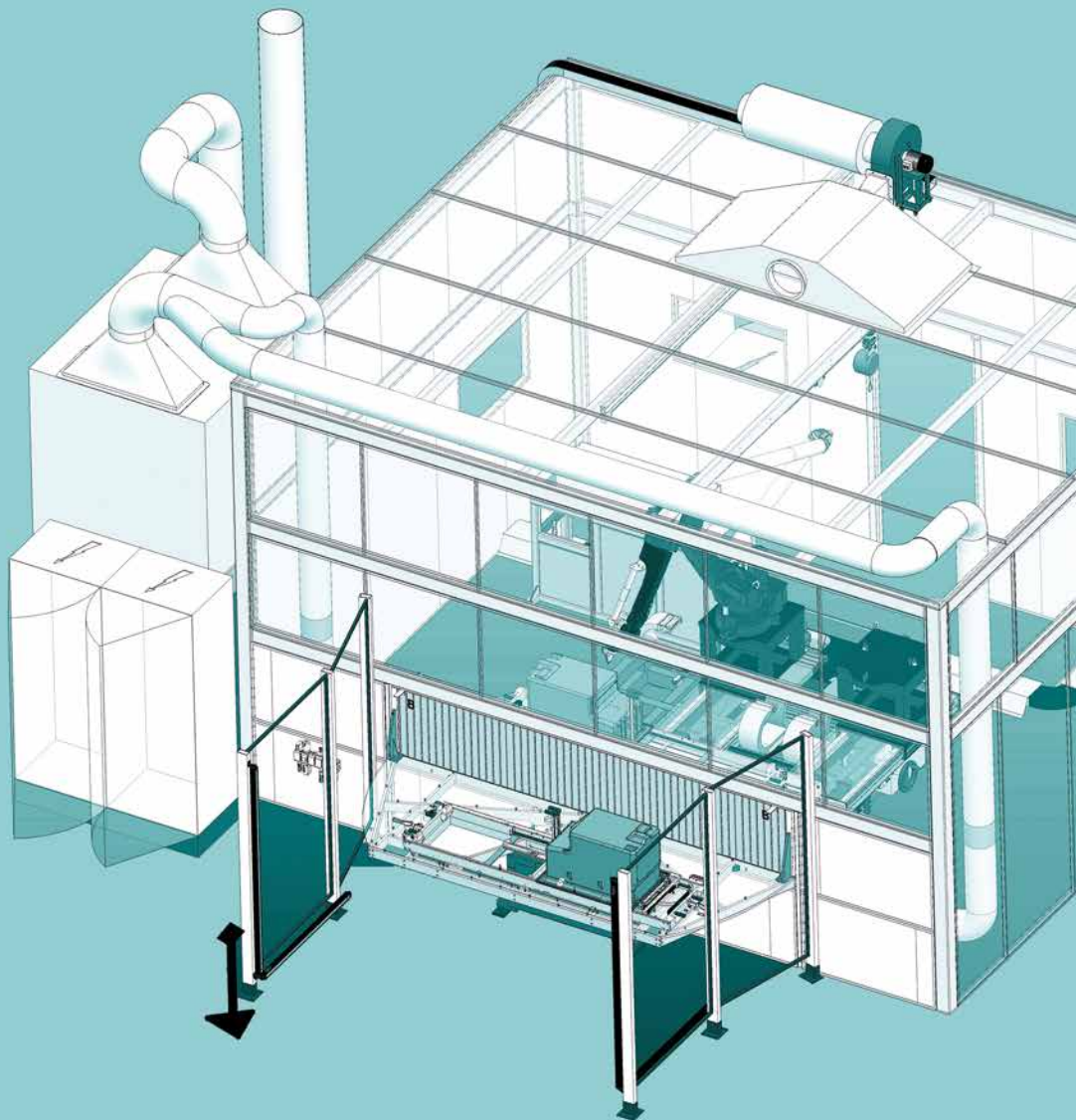
SOFT CLUSTERS®

Our Soft Clusters® Method was developed specifically to contain costs while providing the highest quality investments. Over time, every challenge we have met has allowed us to stockpile *Bricks of Knowledge* (the *Clusters*) that can migrate from one project to another.

5-YEAR GUARANTEE

As a result of our constant collaboration with the finest suppliers in the world and the integration of our renowned Soft Clusters® methodology, we are proud to be able to offer a 5-year guarantee on every complete TÈAS Discrete Manufacturing Production Line. In 30 years of activity, we can boast of a 100% corporate success rate.



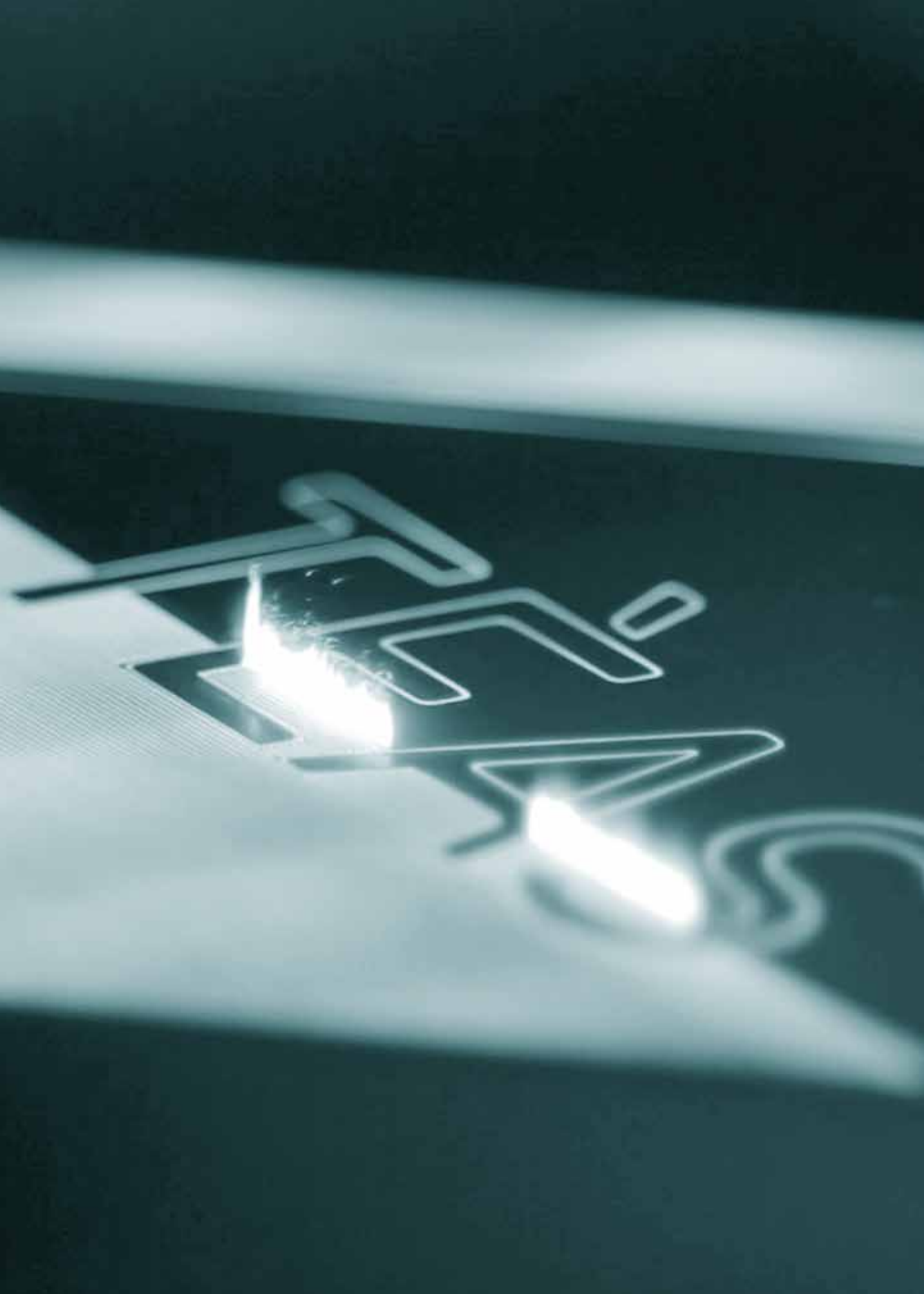


Laser T* System / Protecting Cabin

LASER T*

At TÈAS, we design the best personalized solution for every application, dedicating particular attention to each factory's specific production dynamics and the configuration of the designated installation area.

We, furthermore, always offer the costumers the opportunity to produce samples and view demonstrations at the Testing Workstation in our Research & Development center.



10 GREAT REASONS TO CHOOSE LASER T*

1 MAXIMUM
FLEXIBILITY

2 SURGICAL-PRECISION
CUTTING GEOMETRY

3 COMPLETE INTEGRATION
OF ALL COMPONENTS

4 EXTREMELY
SIMPLE PROGRAMMING

5 MINIMAL
MAINTENANCE

6 INCREASED OUTPUT
THANKS TO HIGH-VELOCITY
CUTTING HEADS

7 REDUCED OPERATING
COSTS (COST-FREE
CONSUMPTION
OF PUNCHES,
CUTTERS, ETC...)

8 LOW MODIFICATION
AND SYSTEM ADJUSTMENT
COSTS FOR NEW MODELS
OR PRODUCTION
DESIGN CHANGES

9 ELIMINATION OF
PHYSICAL CONTACT
(SURFACES WITHOUT
SCRATCHES OR SIGNS
OF MACHINING)

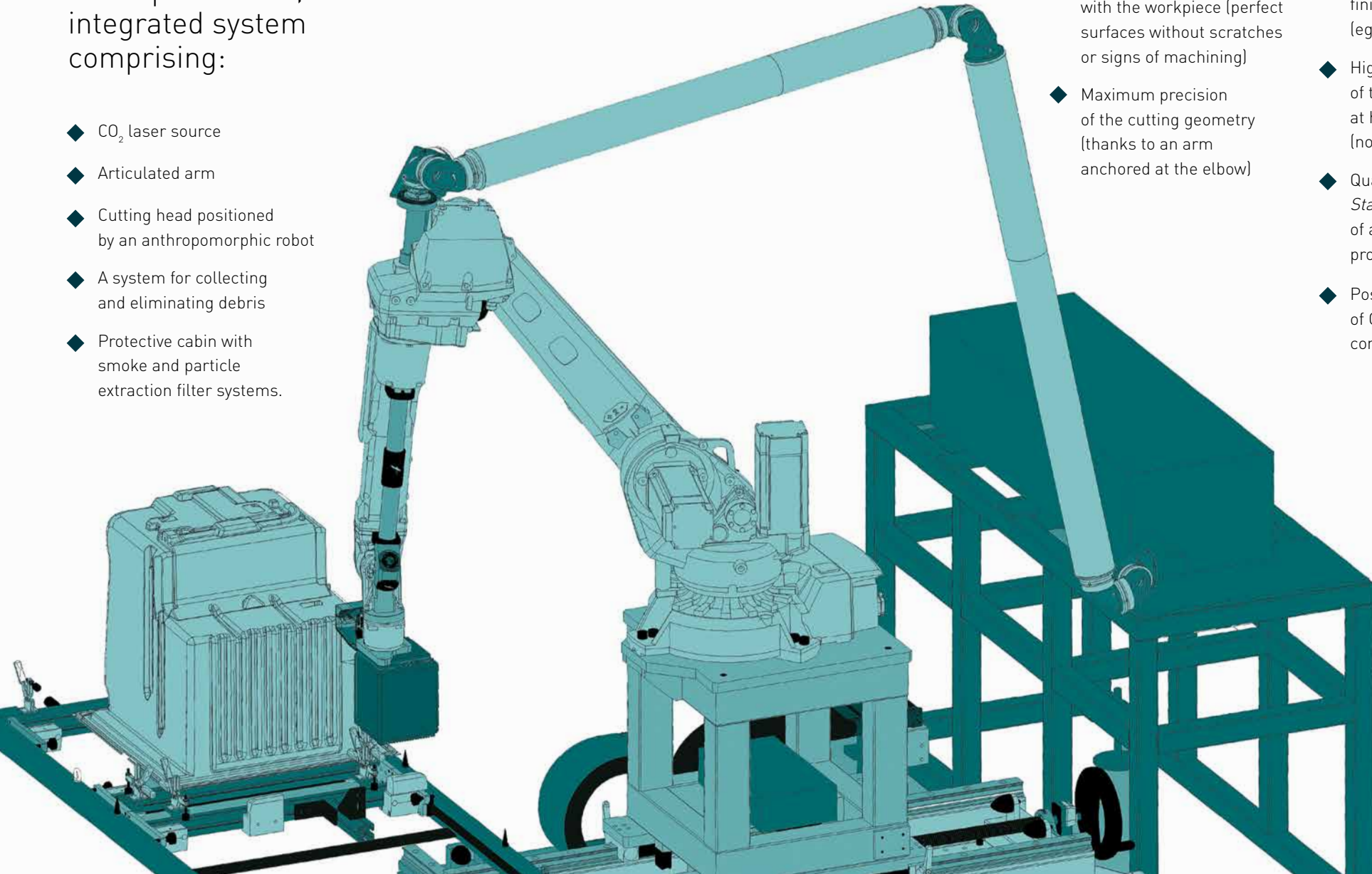
10 5-YEAR
WARRANTY ON ALL
TÉAS DELIVERIES



THE TÈAS LASER T* SYSTEM

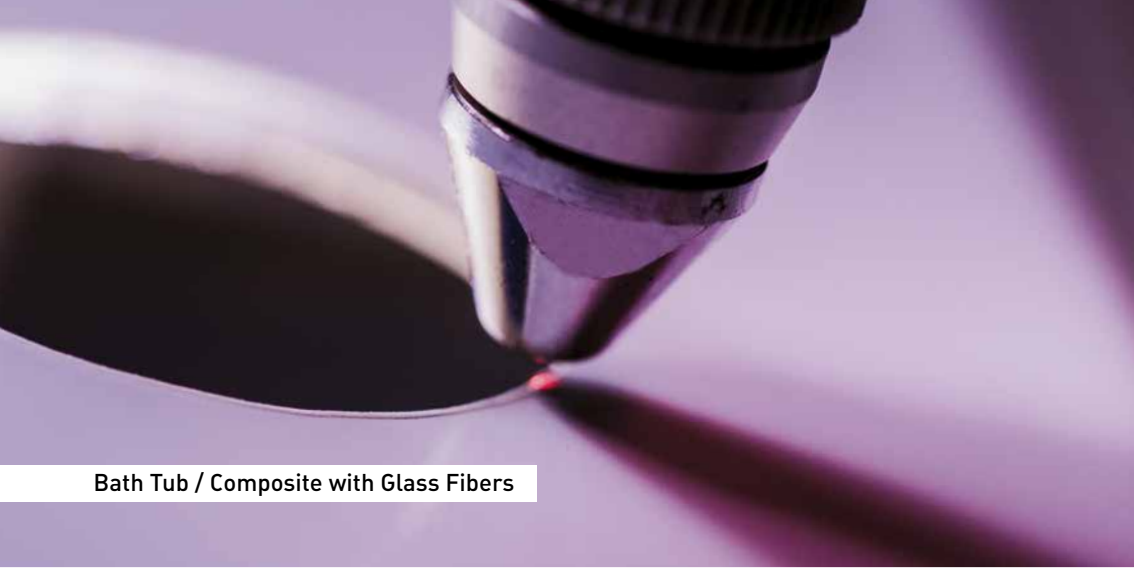
A comprehensive,
integrated system
comprising:

- ◆ CO₂ laser source
- ◆ Articulated arm
- ◆ Cutting head positioned by an anthropomorphic robot
- ◆ A system for collecting and eliminating debris
- ◆ Protective cabin with smoke and particle extraction filter systems.



WARRANTY

- ◆ No mechanical contact with the workpiece (perfect surfaces without scratches or signs of machining)
- ◆ Maximum precision of the cutting geometry (thanks to an arm anchored at the elbow)
- ◆ Elimination of additional finishing operations (eg. Deburring)
- ◆ Highest quality finishing of the cut edges even at high speeds (no residual filaments)
- ◆ Quality control: constant *Stand Off* sensor monitoring of all focal distances, for all product surface tolerances
- ◆ Possible integration of Client's preferred components.



Bath Tub / Composite with Glass Fibers



Automotive / PMMA Light Finishing

WHY TÈAS?

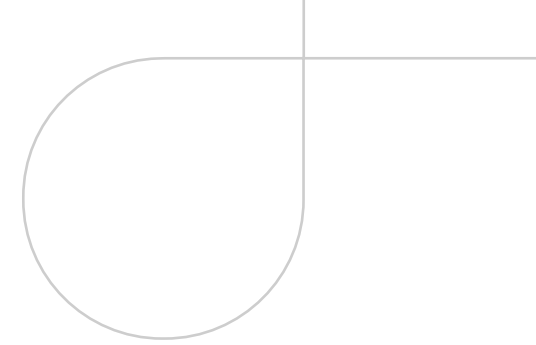
TÈAS has designed an articulated arm that allows for maximum stability and precision cutting, locating the laser beam on a third robotic axis.

TÈAS researches each new application with the goal of optimizing key features, including optimizing the intensity of the Laser power sources and selecting the cutting heads most suitable for the production speeds required.

TÈAS only designs “user-friendly” systems giving customers the autonomy needed to modify their workstations.

Producing new models or adding design innovations becomes a simple question of reprogramming the software.

All cutting and finishing instructions, such as shape and position are stored as parameterized values in a database for easy access in any phase of each specific job.



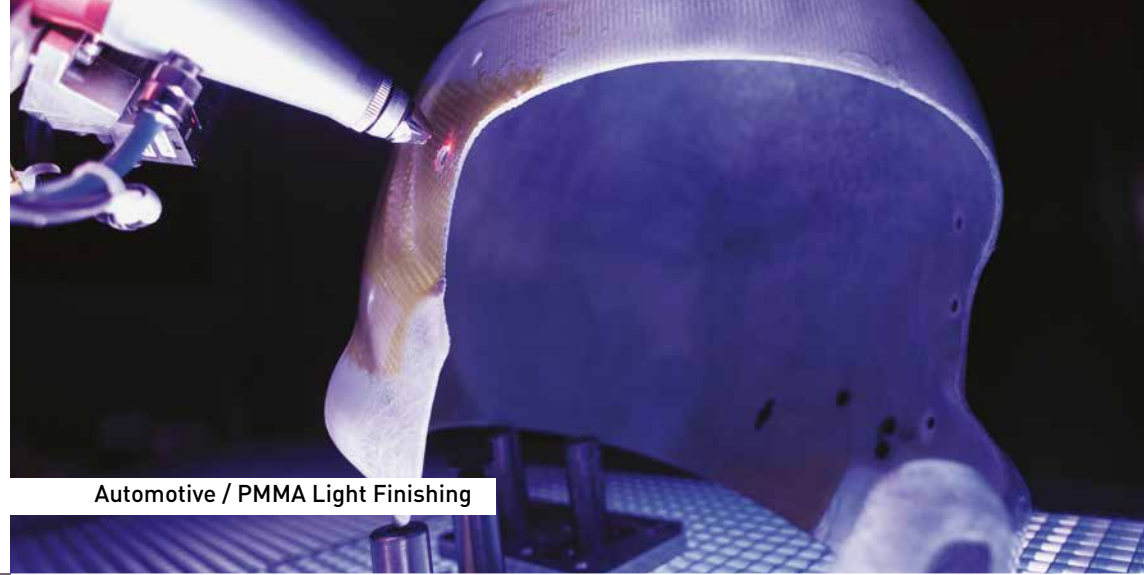
TÈAS guarantees the perfect integration of all components selected by the customer, from the anthropomorphic robot down to the laser source.

TÈAS ensures the highest levels of safety and environmental compliance, providing a safe cabin work area complete with an air intake and filtering system.

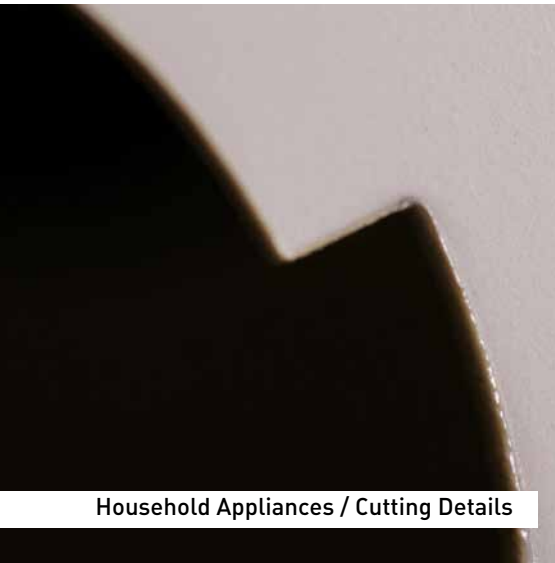
TÈAS has provided many different clients with an enormous variety of individual solutions configured specifically for their specific needs. Among them:

- ◆ Rotating tables with multiple position
- ◆ Manipulators with Pick and Place units
- ◆ Multiple and simultaneous cutting robots
- ◆ Embedding systems in existing production lines
- ◆ Stand-alone units

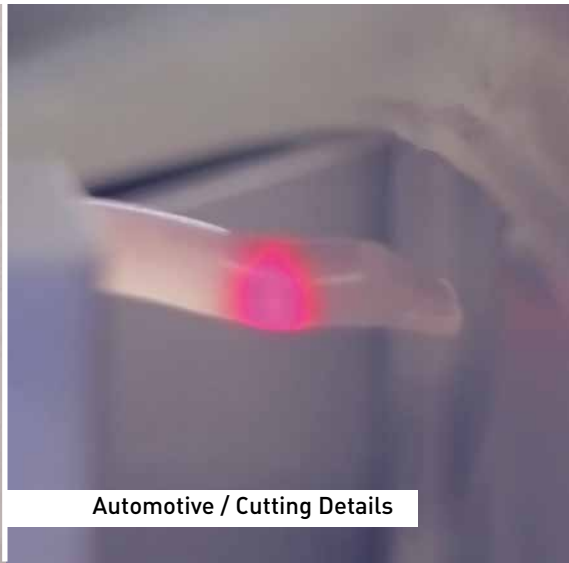
APPLICATION AREAS FOR TÈAS LASER T*



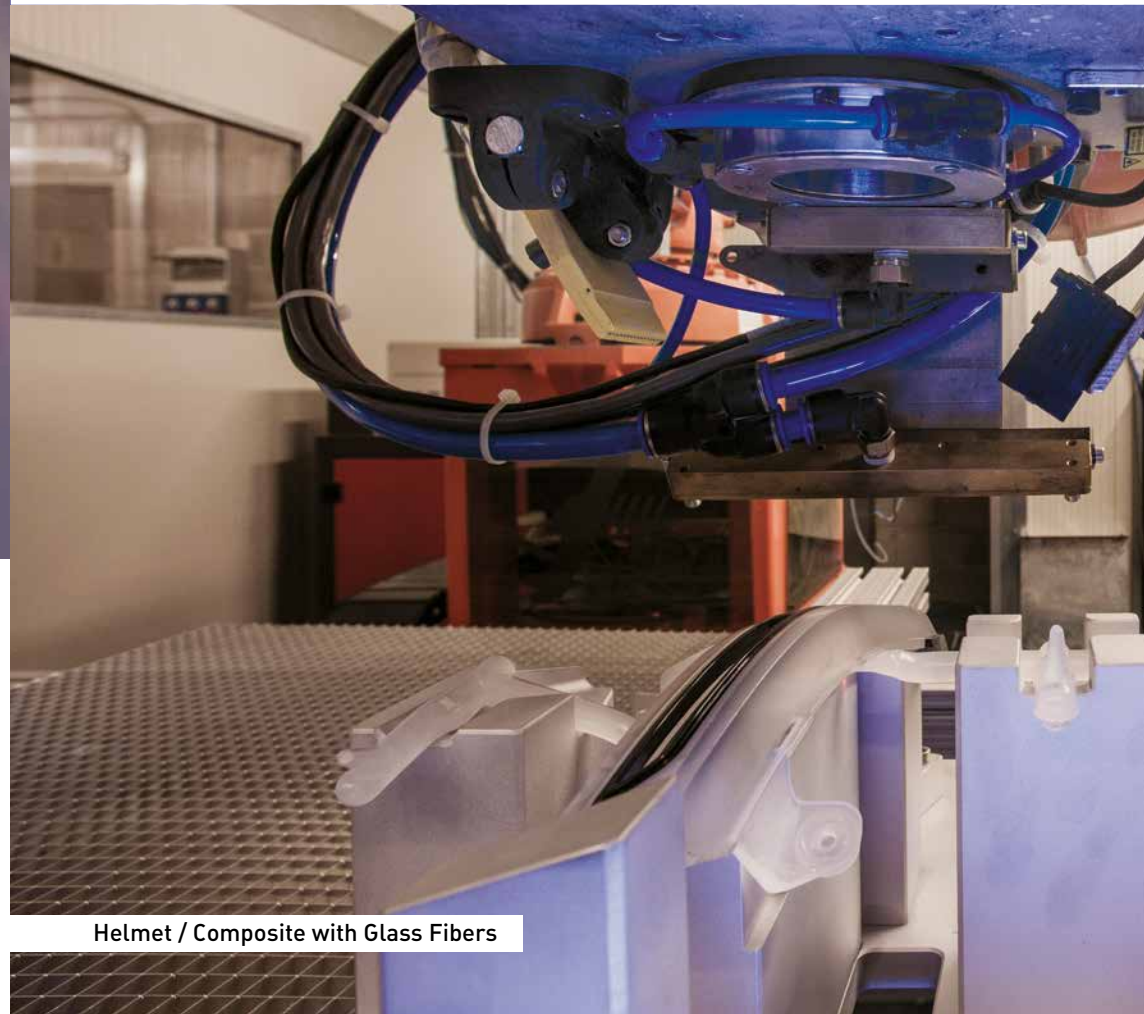
Automotive / PMMA Light Finishing



Household Appliances / Cutting Details



Automotive / Cutting Details



Helmet / Composite with Glass Fibers

TÈAS cutting and finishing systems focus on all types of non-metallic materials such as plastics in general, ABS, polystyrene, Plexiglas, thermoforms, tissues and a wide variety of composite materials including glass fiber, carbon fiber and Kevlar.



Fiber Glass / MAT Belt Cleaning



Household Appliances / HIPS Innerliner Cutting

APPLICABLE INDUSTRIES FOR TEAS LASER T*



Industrial applications are potentially unlimited.



Automotive (carpets, planks, plastic components)



Naval (components in glass fibers and carbon, kevlar, etc.)



Aviation (components in glass fibers and carbon, kevlar, etc.)



Furniture (hot tubs, plastic components)

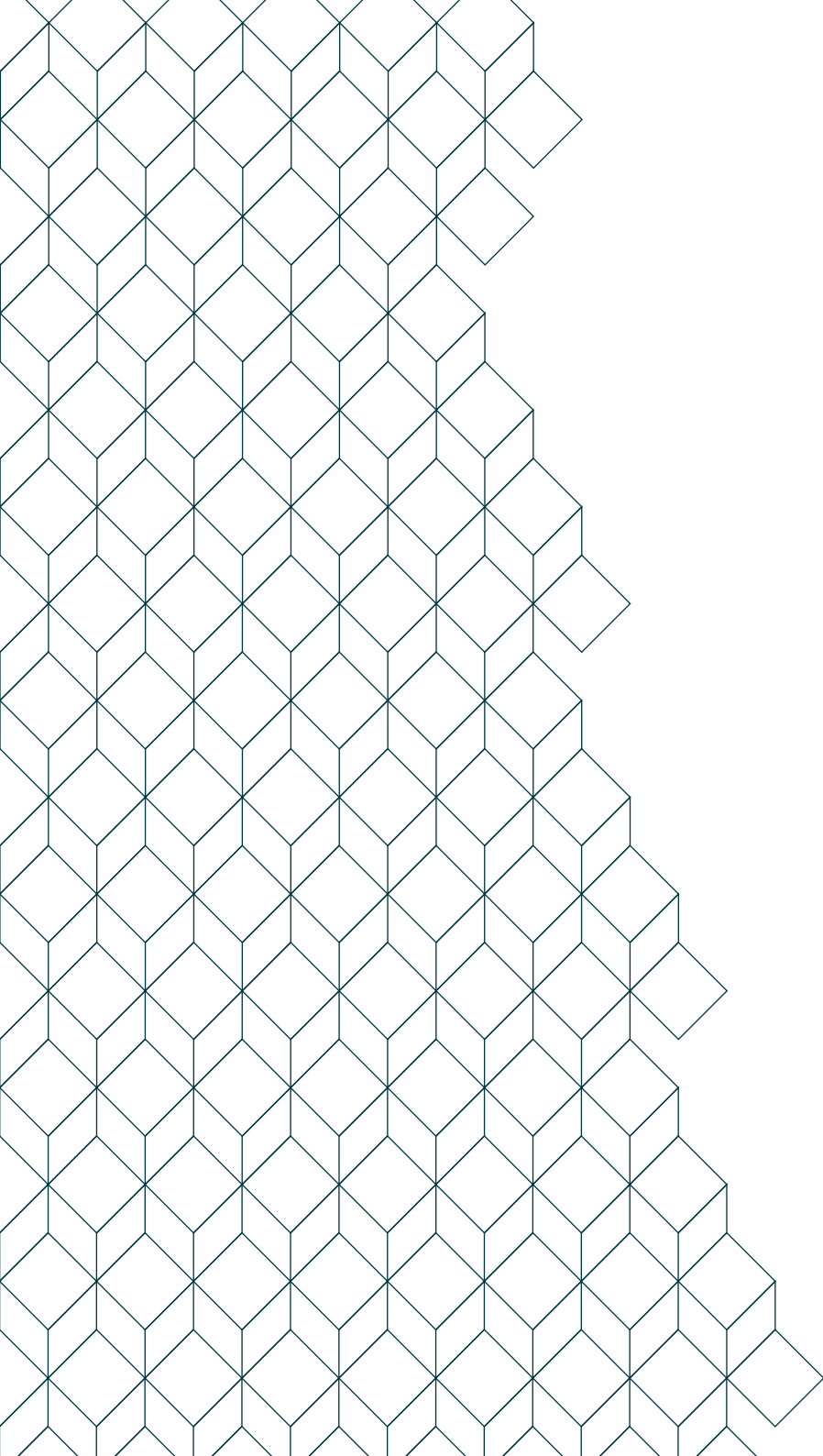


Appliances (thermoformed materials such as refrigerator cells)



Protective clothing (helmets, goggles)

Why not yours?



TÈAS S.p.A.
Italian Engineering Automation Design

Headquarters
Via Canova 25,
20145 Milano (MI), Italia
Tel +39 02 3315101 - Fax +39 02 3451060

Operating Offices and Factory
Via del Lavoro 8, 30025
Fossalta di Portogruaro (VE), Italia
Tel +39 0421 2446 - Fax +39 0421 244646

info@teas-automation.com
www.teas-automation.com