



### Laser

- High productivity due to the high cutting speed and reduced cycle time.
- High quality surface cut, with high precision and without additional residue.
- Complex geometrical cuts and small orifices.
- Perpendicular cuts.
- Great flexibility in operation and versatility in use, associated with the option to cut pieces designed in any program.
- Minimum material thermal distortion.



Food



Plastics/  
Composites



Metals



Textiles/  
Fibers



### Router Trimming

- Very reliable process with remarkable prices and quality.
- Cutting/edging with high speed drill bits achieves excellent results, especially with plastic and composite materials.
- Excellent cutting quality in materials with different characteristics and varying thickness.
- Rapid tool changing, compatible with all standard milling heads.
- Easy starting, operation, maintenance and cleaning.



### Plasma

- Cut a wide range of materials.
- Lower environmental requirements on the workplace.
- High speed cutting capacity in thicker materials.
- High quality, precise cutting, practically without burrs.
- Speed of execution and short waiting times.
- Low cutting cost and easy to automate.



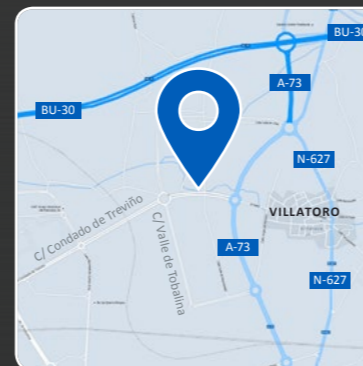
### Waterjet

- A highly precise, quality cut which requires no later cleaning work and no reworking of the edges (elimination of burrs), even on irregular surfaces.
- Environmentally sustainable as it does not generate gases or material dust.
- As a cold cutting procedure, it implies no structural alterations, without hardening of the cut edge.
- Versatility and flexibility, offering the possibility of cutting materials of differing strengths which are impossible to cut using other technologies.
- Ideal for the rapid creation of prototypes and flexible production.
- Ability to cut different materials of different thickness in the same productive process.

## Where we are



Located in Burgos, Spain,



in the Villalonqu jar industrial estate



are our facilities.



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# Desmasa

## Cutting technologies

Laser

Plasma

Router Trimming

Waterjet



# Individual solutions

As specialists in customised development, DESMASA offer made-to-order three-dimensional cutting cells, using a wide range of systems and technologies that can be adapted to the needs of our clients. This attests to our being specialists in bespoke projects.

The adaptability of our cutting cells enables our clients to make the most of their capital investment, applying them in different fields (aerospace, compound civil and industrial materials, wood, textiles and paper, automotive, food...) and ensuring significant competitiveness in mass productions as well as complex smaller orders.

The cutting programmes are easy to create or modify, so that many items can be prepared using the same system with practically no set-up time.

All of our cutting solutions are safe, profitable and highly productive.

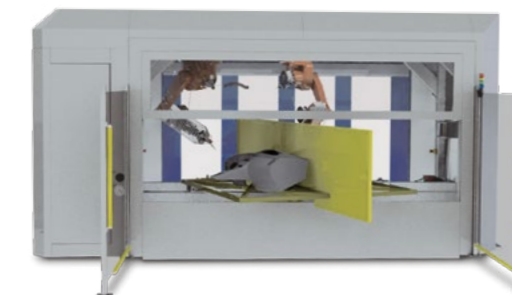


Designed to adapt to our clients' robotisation technology preferences (ABB, Fanuc, Stäubli, Kuka,...) and PLC (Allen Bradley, Siemens, Omron,...), DESMASA cutting cells enable easy and rapid coupling of these devices.

The concept that inspired the versatility of the machinery also applies to its composite parts, making the commercialization of different individual solutions feasible, like our intensifiers.

## Cell with a rotating table

A rotating platform with two cutting positions makes it possible to save time during the loading and unloading processes. There is the option of cutting two products at the same time with different nests in each position.



## Compact cell

A smaller cutting station, suited to work on small and medium-sized pieces with a single robot. Versatile and low-cost cell.

## Cell WJ3F

The WJ3 cell, equipped with three robots and a double door, fits seamlessly into the production circuit for the part, regardless of its size, as it has the capacity for processing large components.

- High precision and reliability.
- Availability of different cutting heads (plasma, laser, water jet, router trimming/milling...).
- Complete flexibility, with a modular structure of standard and interchangeable components, offering enormous production capacity.
- Simple interface, intuitive and easy to programme.
- Precise cutting of complex 3D geometry, at high speed and with minimum wastage.
- Energy efficient and environmentally sound.



## Intensifier R50/4K

The next-generation intensifier **R50/4K** has been developed by DESMASA specifically for water jet cutting, its features being tailored to the needs of that technology.

- Redundant intensifier 4200bar, to prevent production stoppages while maintenance is carried out.
- Long-stroke cylinder, less directional changes and component fatigue.
- Accumulator 0.9l, insures smooth out pulsation of cutting pressure.
- Safety system with sensor and high-pressure discharge valve.
- Modular design for simple maintenance with full access to the components from a single panel.
- 7" colour HMI interface.
- Statistical monitoring of cycles and times.
- Configuration of the desired cutting pressure.



An energy-efficient version is available, with a greater reduction in energy consumed, and the noise level has also been reduced to make the working environment more pleasant.

## Cell with a double charger

This cell increases the production capacity of the line by allowing the robot to work on different pieces at the same time, without needing to interrupt the cutting process.



## Cell with seventh axis and robot tracking

The flexibility and scope of this robot cell makes it ideal for cutting large pieces, with cutting specifications that require a seventh axis.