

Hardware cutting robots specifically for fast, precise wateriet cutting Software extremely sophisticated, very simple and highly effective software Power pressure intensifiers, the spirit of waterjet cutting systems, with maximum reliability and minimum operating costs

complete solution in waterjet cutting technology

Tecnocut is the leader in the manufacture of complete waterjet cutting systems.

The only manufacturer in Italy, and among the few in the world, to design and develop everything internally.

3 basic components: very high pressure heat intensifiers, cutting robots and highly sophisticated management and control software.

3 elements to be number 1 able to supply its customers with all the

3for1st





required tools, in a single and complete major solution:















Pressure intensifier

all made by Tecnocut

Tecnocut established a new concept of ultra high pressure intensifiers by giving its uniqueness and exclusivity, enhancing its technology making it the real answer to the prayers of the most demanding users.

The original technical design was for the system to be fitted with several electronically synchronized, parallel, independent pressure multipliers.

This allows increasingly constant pressure, avoiding typical drops of the traditional intensifier with single opposite cylinder.



Pressure multipliers

Electrically synchronized, parallel, independent cylinders granting Continuous pressure signal
 Low maintenance costs



Traditional intensifier with single opposite cylinder

Tecnocut intensifier with parallel cylinders





3 Hydraulic panel Latest generation system with variable flow rate hydraulic pumps



Air-oil cooling system It allows the reduction of processing costs by eliminating the need for water required by traditional pressure intensifiers





Specifications



120 Hp

	Models	Jetpower evo			Jetpower	
		30Hp	60Hp		120Hp	
Power	kW/Hp	22,5/30	45/60		90/120	
Multipliers	n°	2	3		6	
Max water pressure	bar/psi	4150/60.000			4150/60.000	
Max flow rate	lpm/gpm	2,5/0,66	5/1,32		9/2,38	
Max diam. Orifices	mm/in	0,28/0,01	1 0,40/0,016		0,50/0,019	
Voltage	400V +/- 5% 50-60 Hz (different voltages and frequencies required)					



Waterspeedy

Rapid and flexible cutting robot

Waterspeedy is a system suitable for flexible materials cutting, as plastic, foams, rubbers, composites, multilayer materials, gaskets and technical materials. Its extremely high dynamic, together with the possibility to work with several cutting, and its automatic pallet change system, assures exceedingly high productivity and competitive costs when

compared to conventional systems. Waterspeedy is the result of a careful planning to the satisfaction of customer's requirements and it tends to reach the highest safety standards.

Handling
Rack and pinion transmission with high precision and dynamism



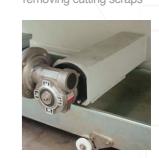
Support plane Honeycomb grid for plastic materials cutting



5 Automatic pallet change system
Separate loading and unloading areas with automatic pallet handling



Screw Integrated automatic system for removing cutting scraps











Sound-proof booth for the cutting area protection with suction system

Additional cutting heads composed of trolleys with 1, 3, 5, 10 cutting heads, all with automatic

Cutting robot management **1** hardware and software

The software, completely developed in a Windows® environment, provides easy dialogue with the operator and is personalized for easy management of all the functions of a waterjet cutting system, including the kerf control function (IKC) for 5-axis systems. The robot's hardware, based on a robust industrial PC, is fitted with a network board















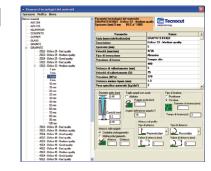


TechoCa

The Software, simple to use and ctive in its performance

Tecnocam is a CAM software package used for the complete management of the technology of waterjet cutting systems. Developed in a Windows® environment, it was created and developed in result of the vast experience gained by Tecnocut in the sector. Techocam allows interfacing with the most varied drawing software packages available in the market.

Materials database The software is completed by a database containing the technological parameters of the materials most commonly used for waterjet cutting. It can also be implemented for meeting precise technological needs. The technology of the individual sections that comprise the imported shapes can be modified to optimize the cutting sequence and their processing





Vulcolan

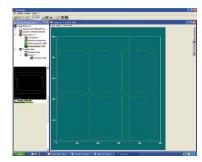




Gasket without asbestos

Plate optimization

(nesting function)
The high level of development of the nesting algorithms allows perfect optimization of the space on the plate, managing both plates of different dimensions and possible processing offcuts





Teflon

Management of the cutting orders and estimates

The management of cutting orders is handled by a simple interface and it is possible to obtain information relative to the placing data with graphic display of the

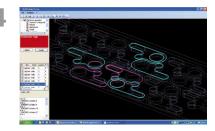
the relative technological cutting data and the produc tion estimate, divided into cutting costs and material

Following ISO generation the exactness of the cutting route can be checked with an instrument that reprodu-

the cutting machine's CNC









Foam

Technical data

Mode

1625 1630 1630 Sliding Carpet

X Axis Y Axis

Z Axis

Support plane
Overall dimensions

1600 mm / 63 in 2500 mm / 98.43 in 150 mm / 5.91 in

1630x2520 mm / 64.17x99.21 in

6240x2900xh 2500 mm 245.67x114.17xh 98.43 in 1600 mm / 63 in 3000 mm / 118 in

150 mm / 5.91 in

1630x3080 mm / 64.17x121.26 in

7240x2900xh 2500 mm 285x114.17xh 98.43 in 1600 mm / 63 in

3000 mm / 118 in

200 mm / 7.87 in

1630x3080 mm / 64.17x121.26 in

7240x2900xh 2500 mm 285x114.17xh 98.43 in

Support plane max capacity: 150 kg/mq Velocity: 0→ 70000 mm/min / 0→ 2755.9 in/min 15"TFT colour monitor, keyboard with integrated mouse and manual control device External port for USB key interface (USB 256 Mb key supplied)

Connection to the computer network: RJ45 10/100 Mb connector

Tecnocut is leader in the manufacture of different models of waterjet cutting systems dedicated to several application fields



Aluminium



Granite



Monolithic glass



Plastic

Tecnocut, founded in 1992, very quickly became one of the most authoritative references in the waterjet cutting technology field. In 2005 it became part of CMS Industries, a SCM Group company, worldwide leader in the manufacture of numerical control machines for processing wood, advanced materials, marble and glass. Thus Tecnocut guarantees its presence in 120 countries and an increasingly articulated solution to different production requirements.

Moreover its presence in AIW (Associazione Italiana Waterjet), of which it is a founder member, and WJTA (American Waterjet Association), of which it is a member, represents a guarantee of constant updating for Tecnocut.

A solid and very flexible company structure, a group of people able to produce excellent solutions and offer exclusive and innovative solutions to the market at an interesting price. This is the added value that Tecnocut offers its customers every day.







waterjet technology company of CMS Industries