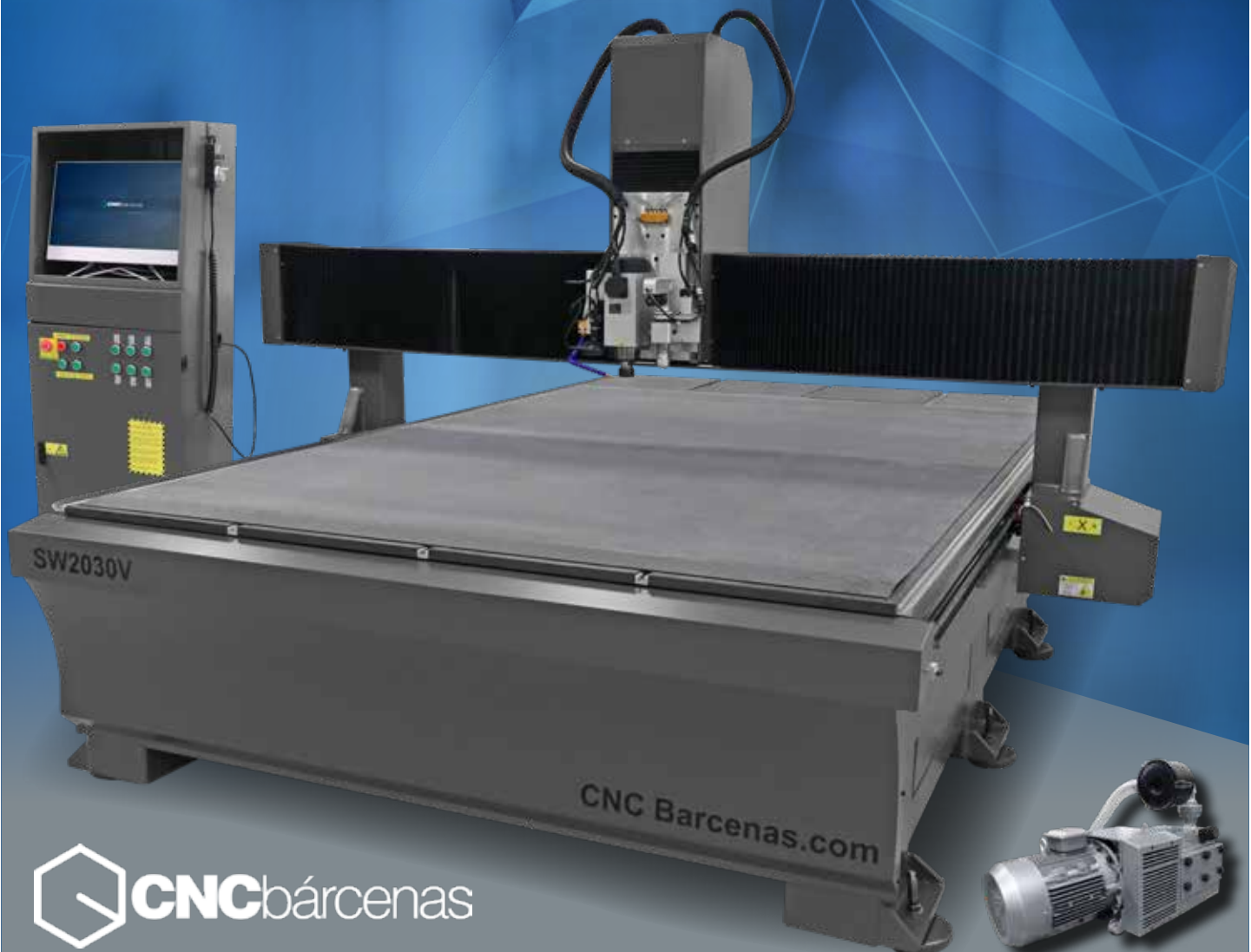


INDUSTRIAL CNC MACHINERY
Quality · Global service · Customized solutions

CNC MILLING MACHINE

SW2030V with **OPOS** system
and **ELECTRIC OSCILLATING TOOL**



 **CNC**barcenas
www.cncbarcenas.com



CNC Milling Machine SW2030V OPOS system

and Electric Oscillating Tool

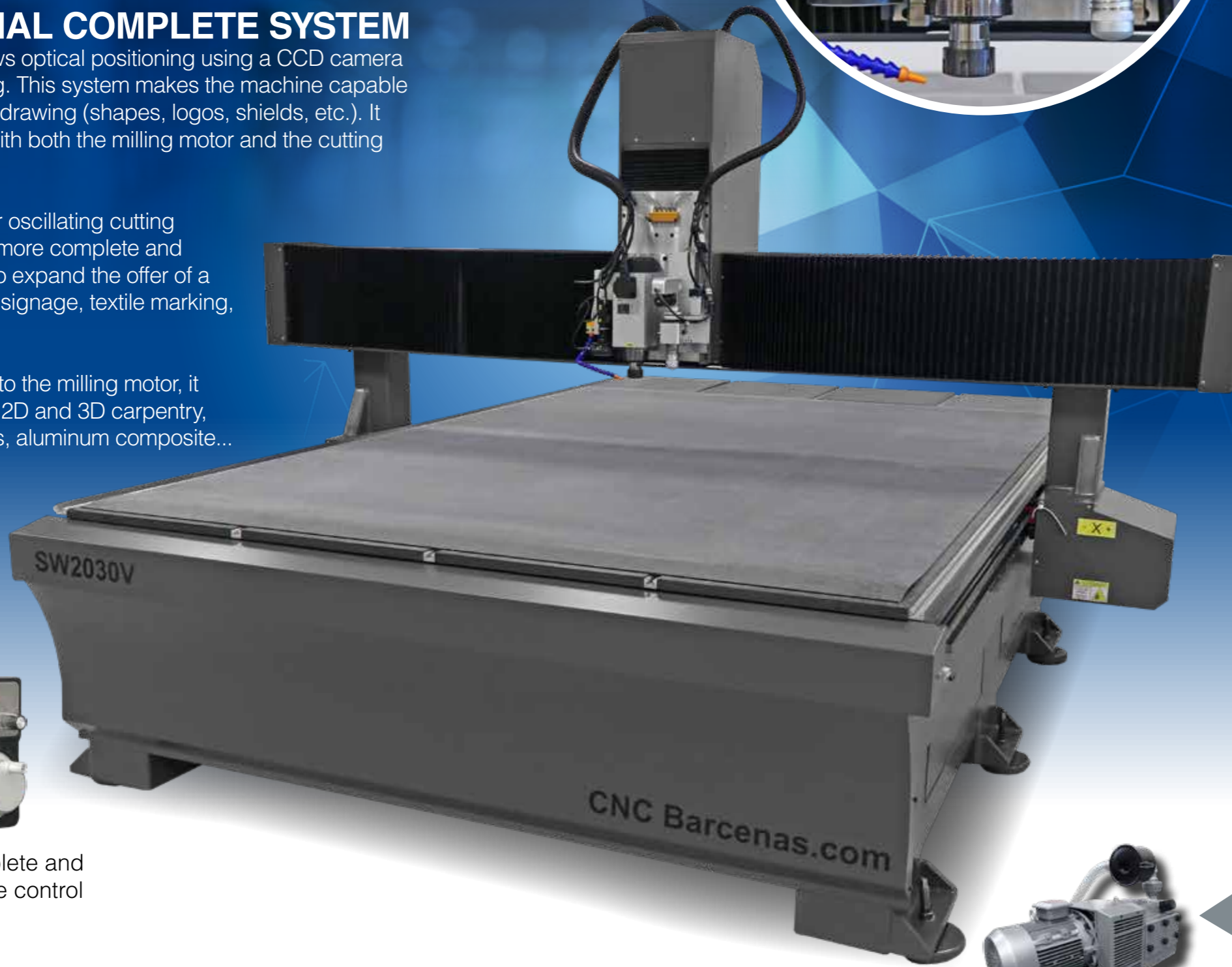
PROFESSIONAL COMPLETE SYSTEM

The OPOS system allows optical positioning using a CCD camera for automatic die cutting. This system makes the machine capable of seeing and cutting a drawing (shapes, logos, shields, etc.). It is capable of working with both the milling motor and the cutting blade.

Its use together with our oscillating cutting blade, creates a much more complete and versatile tool, allowing to expand the offer of a workshop dedicated to signage, textile marking, graphic arts...

In addition, and thanks to the milling motor, it is able to also carry out 2D and 3D carpentry, signage, resins, plastics, aluminum composite...

OPOS System >



Complete and simple control



STRUCTURE

Structure and bridge made of steel, ready for heavy duty jobs.



TABLE

Parts clamping by two industrial performance vacuum pump or turbines.

- Power 5.5 KW (7.5 HP).
- Vacuum power compression: -85 Kpa.
- No maintenance.

Table divided into 6 zones that can be operated by electric buttons from the control panel of the machine.



NUMERICAL CONTROL

Complete numerical control system, allows to position the machine and start the jobs in a quick and simple way.



OPOS SYSTEM

Optical positioning system with integrated CCD camera. Allows you to cut dies quickly, accurately and easily.



SPINDLE

High frequency motor, brushless and with air-cooled ceramic bearings.

- Power 6 KW (8 HP).
- ER32 cutting tool holder (1 to 20 mm).
- 4.500 to 18.000 rpm. with adjustable speed.

Able to perform heavy duty cutting jobs, carving, 3D reliefs in wood, plastics, resins, foams and many other materials.

ELECTRIC OSCILLATING TOOL

Up to 45 mm.



AXIS GUIDANCE SYSTEM

HIWIN brand ball recirculating linear guide blocks. 2 linear guides per-axis, with 2 blocks per guide.



TRANSMISSION

High-precision servomotors with planetary gearbox. Double servo on Y axis.



CONTROLLER CARDS

High quality servodrivers.

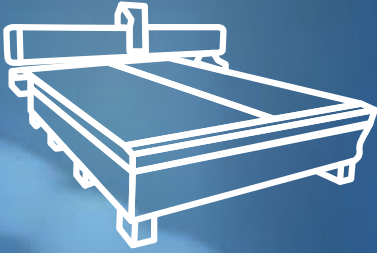


TRANSMISSION SYSTEM

- XY axes: helical racks with anti-rust treatment. Much more precise than standard racks as they have a larger support area.

- Z axis: calibrated 30 mm diameter ball screw, which provides high precision to the Z axis that holds the electro-spindle.





**INDUSTRIAL STANDARD
CLASSIFICATION CODE
08-A-284-13020079**

technical specifications

Fresadora SW2030V

with OPOS system and Electric Oscillating Tool

Total measures	3250x3750x2050 mm.	Spindle	6 KW - 8HP(cv) HQD brand. Air cooled.
Work area	X: 2000 mm. Y: 3000 mm. Z: 200 mm.	Electric Oscillating Tool	Up to 45 mm.
Weight	1500 Kg.	OPOS System	Optical positioning by CCD camera.
Workpiece clamping	Vacuum suction with 2 vacuum pumps or turbines 5.5 KW (7.5 HP). No maintenance. Suction power: -85Kpa.	Tool change	Manual ER32.
Guidance system	HIWIN brand ball recirculating linear guide blocks. 2 linear guides per-axis, with 2 blocks per guide.	Numerical control	Complete system by computer and MPG control.
Transmission system	XY axes: Ground helical racks. Z axis: Calibrated ball screw.	Security	Safety bellows on the bridge and Z axis.
Transmission engines	High-precision servomotors with planetary gearbox. Double servo on Y axis.	Maximum speed	On air: 20 meters / min. Working: 15 meters / min.
		Resolution	+/-0.05 mm.
		Included	Set of milling tools for soft materials. Probe for zeroing Z axis.
		Power supply	400 V.

When choosing a CNC router it is important to take into account that at CNC Bárcenas we supply industrial performance vacuum pumps, instead of side channel pumps/turbines (as in many milling machines on the market). These vacuum pumps have a much higher suction capacity (-85kpa) than the side channel turbines. According to the tests we have carried out, they have more than double the suction capacity of the turbines, which are often used for large format printing jobs that do not require much suction force. In addition, our vacuum pumps are more efficient, as they consume less energy (5.5KW compared to 7.5KW for the turbine).



CNCbárcenas

www.cncbarcenas.com

Pol. Industrial Entrecaminos. Avda. de Holanda, 42
13300 Valdepeñas (Ciudad Real) - Spain
Tel. +34 926 64 89 85 info@cncbarcenas.com

WE CAN MAKE AN APPOINTMENT SO YOU CAN SEE OUR PRODUCTS.
WE WILL ADVISE YOU ON EVERYTHING YOU NEED AND WE WILL RECOMMEND THE SOLUTION THAT BEST SUITS YOUR NEEDS.

WARRANTY AND CERTIFICATES

Warranty policy on the website.

Together with the guarantee of quality and industrial performance that we provide as manufacturers, and that is backed by a large number of customers, **another fundamental element that differentiates our products is their certification and CE marking (European Conformity)**, which in our case means that the manufacturing and delivery processes have been audited by an external entity, which has endorsed that they are compliant with harmonized European regulations, respecting the relevant health and safety requirements, and therefore their manufacture, marketing and use is authorized in any country of the European Union.

Always choose a product duly approved and marked, since there are quite a few examples of products on the market WITHOUT THE CE MARKING or WITH AN INCORRECT OR FRAUDULENT CE MARKING, which can derive in the withdrawal of the machine by the competent inspection and control authorities, to problems with insurance, civil liability or labor risk prevention regulations.