

HDS

Techno
CNC
Systems



TECHNOCNC.COM

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ABOUT OUR **HDS** WORKSHOP SERIES

Techno's HDS Series CNC Machine is made up of all steel construction, providing the rigid foundation

required for ultra-smooth routing results. The HDS Series CNC Router includes a 12 HP HSD automatic tool changer spindle with an 8-position tool rack. The HDS Series comes standard with a pneumatically operated dust collection hood that concentrates air flow at the cutter, which provides optimal dust collection performance. The multi-zone vacuum t-slot table is constructed from very hard Phenolic, which is an extremely stable material that holds tight tolerances for precision cutting, and is connected to a 10HP rotary vane vacuum pump (twin pack optional), for quiet operation. For easy sheet alignment, (3) pop-up pins are included on the HDS Series, and are precisely placed to handle and align various size materials. The HDS Series CNC Machine is powered by brushless AC Servo digital motors and drives, and is powered by an easy-to-use and learn Osai PC based industrial controller.

IMPRESSIVE FEATURES

INCLUDES:

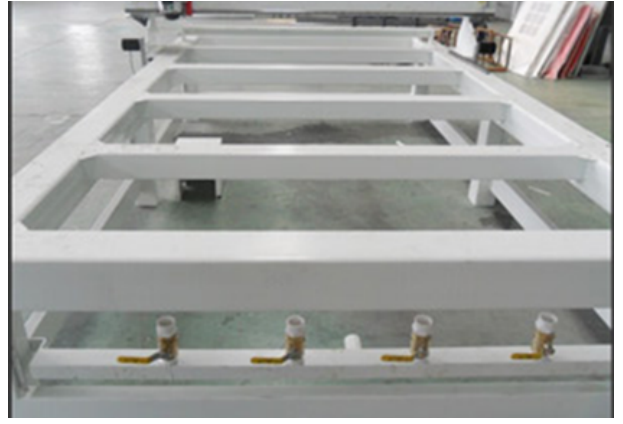
- | | |
|---|---|
| ✓ 12 HP HSD high frequency automatic tool changer spindle | ✓ Brushless digital AC servo motors and drives |
| ✓ 4-Zone vacuum t-slot table | ✓ All steel construction |
| ✓ Material pop-up pins for easy sheet alignment | ✓ Hand-held pulse generator with rotary hand wheel controls the axis selected |
| ✓ Osai PC based Industrial grade CNC controller | ✓ Open architecture works with all industry standard CAD/CAM software |

IMPRESSIVE FEATURES

CONSTRUCTION FEATURES

BASE FRAME

The HDS Series base frame is fabricated from heavy-duty tubular steel that is welded, precision machined and stress relieved so that the foundation remains true and steady over the operational life of the machine.



SPINDLE

The HDS Series machine comes standard with a 12 HP HSD high frequency automatic tool changer spindle. This precision spindle requires no maintenance, uses industry standard ER collets and ISO 30 tool holders, is fully programmable with speeds from 6000 to 24000 RPM, and comes complete with a pneumatically retractable vacuum hood.



TOOLING

The HDS Series machine includes an 8-position tool rack in the rear of the machine. The position of this rack allows for easy loading and unloading of material from either side of the machine.



HAND HELD PULSE GENERATOR

The MPG allows the operator to move around the machine, making for easy setup. The rotary hand wheel, attached to the machine, will control the axis that is selected on the wheels dial. The Setup Introduction manual provides information that will have users cutting parts in minutes.



VACUUM SHROUD

The HDS includes a pneumatically operated vacuum hood that has concentrated air flow at the spindle thus efficiently cleaning up the dust and debris as it is routed.



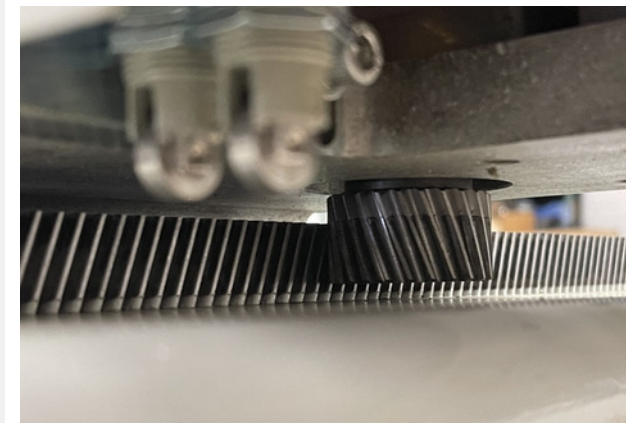
DRIVE MOTORS

The HDS Series CNC Router utilizes AC Servo motors powered by Yaskawa drives. These motors require no regular maintenance – therefore, reducing any maintenance downtime.



DRIVE TRAIN ASSEMBLY

The Techno HDS Series CNC Router uses precision helical gear racks on the X and Y axes. The mounting of the rack is inverted to help keep dust and debris from building up on the drive system, this assures smooth motion and long term reliability. The precision gearbox is directly coupled to the Servo motor and pinion. This eliminates belt stretch inaccuracies assuring high-speed machining while the system positions the spindle accurately.



ELECTRONICS

All the electrical components are housed and wired in a doubled-doored NEMA 4 electrical enclosure. This allows for easy access and service when needed. All wiring is tagged so that when service is required, the customer can easily navigate the cabinet. In addition, the cabinet serves as a work bench for the tools required. tool changer. This precision spindle requires no maintenance, uses industry standard ER collets and ISO 30 tool holders, has fully programmable speeds from 6000 to 24000 RPM



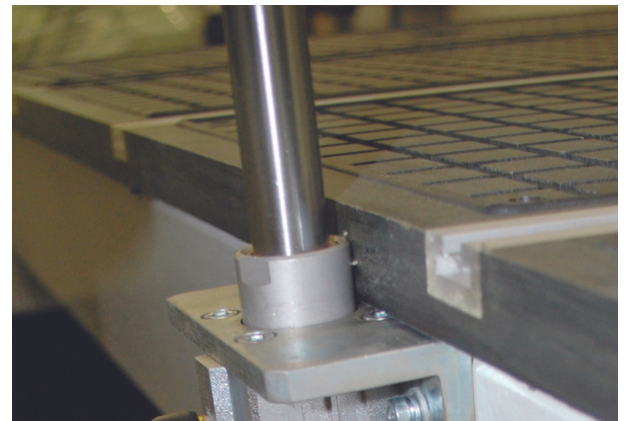
VACUUM TABLE

The vacuum plenum table surface is multi-zoned which allows the operator to easily switch from full sheet processing to smaller part processing (which requires a smaller segmented area). Zones can be turned off easily via control valves on the front of the machine. Gasketing can also be routed to accommodate various material sizes and styles.



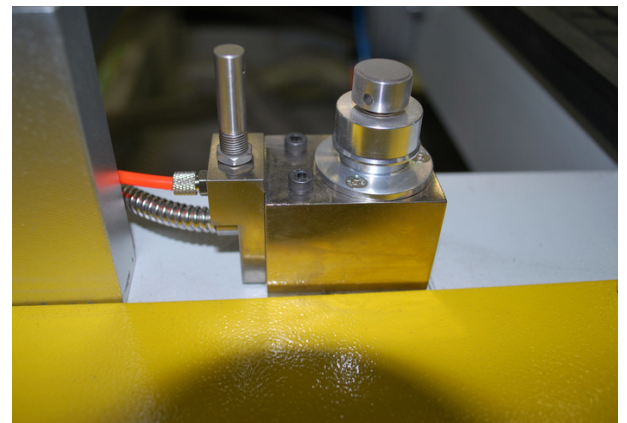
POP UP PINS

The HDS Series machine comes standard with three pop up pins. These pins allow the operator to bank the edge of the material against them precisely aligning the material to the axes of travel and always having a common origin.



TOOL CALIBRATION

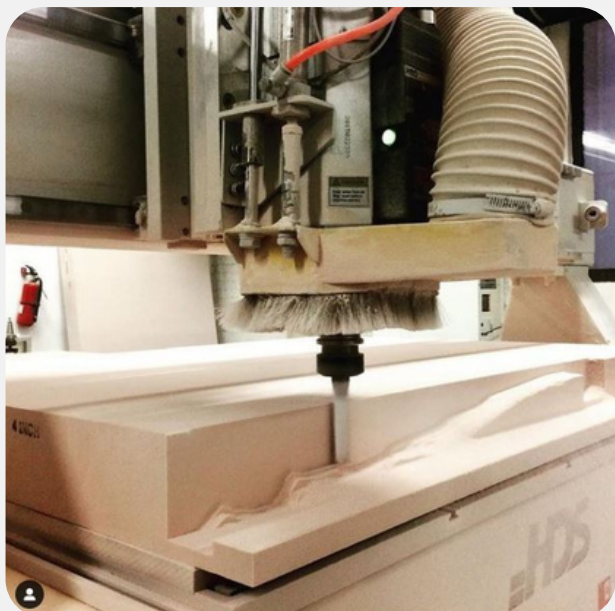
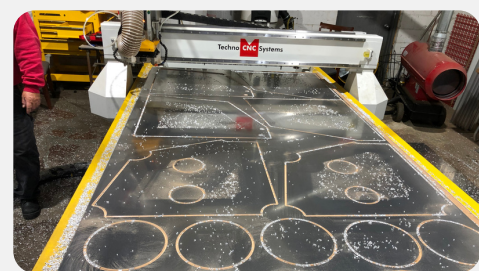
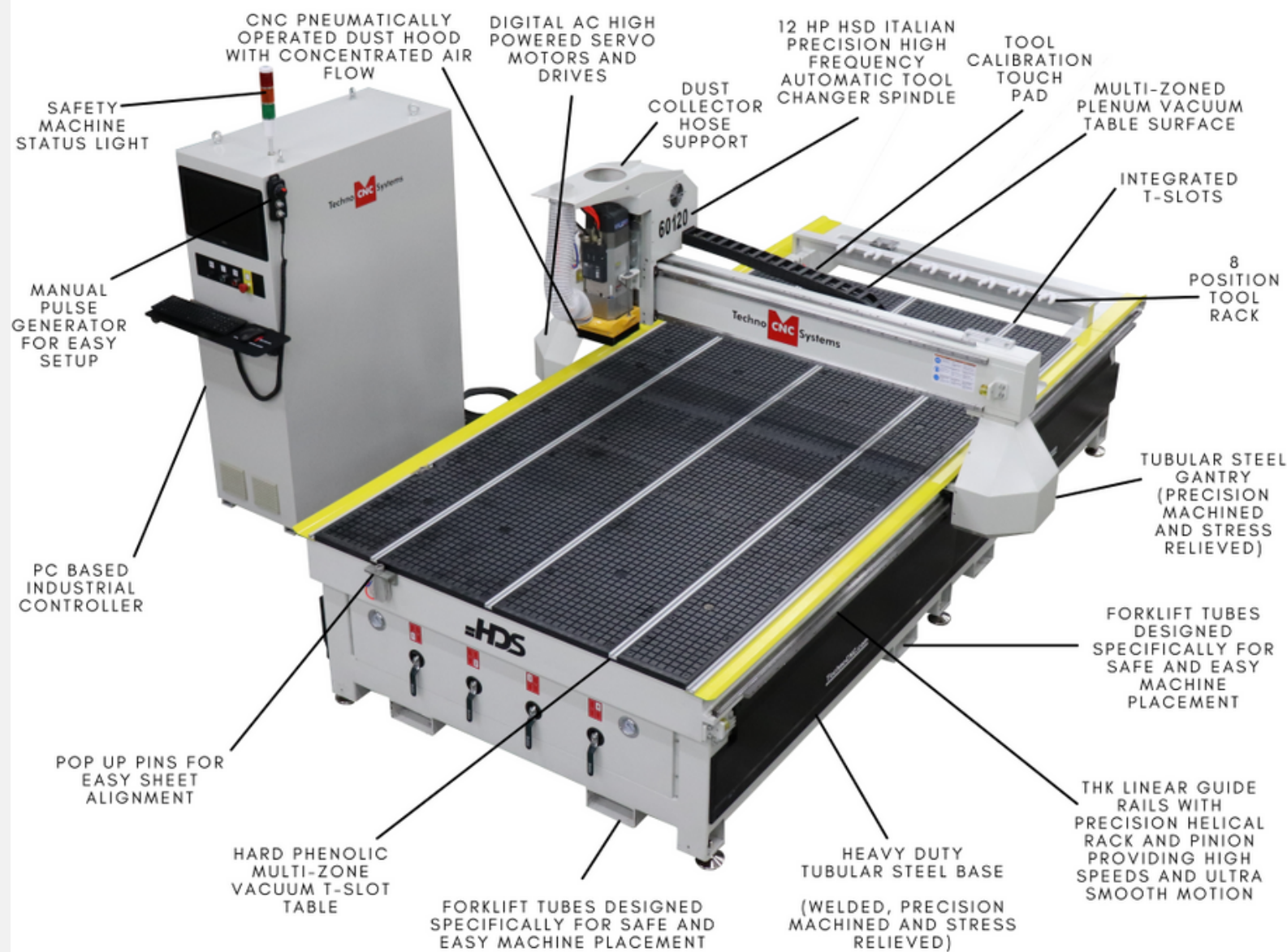
Automatic tool calibration pad is designed for easy and accurate recording of tool length off-sets



TOOL CLAMP HOLDER

The Techno HDS Series CNC Machine comes equipped with a tool holder clamp fixture, providing a much easier way of inserting and tightening the CNC router bits into your tool holder. This method is safer and easier.





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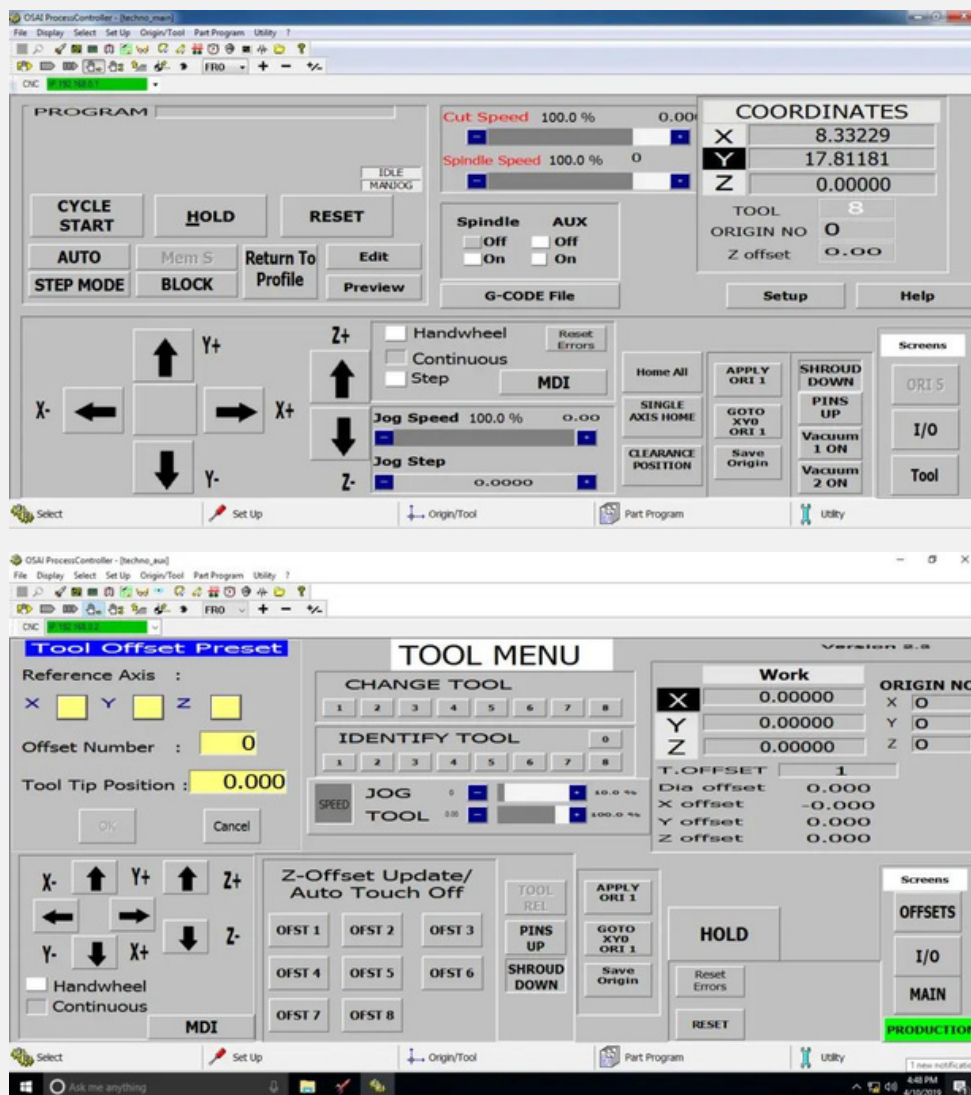
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CONTROLLER

Techno CNC's HDS Windows-Based G-Code Osai Interface is included with each machine and is an indispensable tool in any CNC Router application. Its open architectural design accepts G-Code files from any industry standard CAD/CAM software package, and can operate using inch or metric units and is highly customizable to better suite your needs. Customers that are new to automation find the Techno CNC Interface easy to learn and operate. Most are up and running in less than one day of training. They find the intuitive design and functions easy to use and remember. The most fundamental controls and displays are all visible on the main page. Customers soon discover that just because the Techno CNC Interface is easy to use, it does not mean that it is not a comprehensive CNC program.



IMPRESSIVE FEATURES

- Full automated tool length offset cycle
- Remote access
- Intuitive design and operation
- Skip functionality
- Highly Customizable
- Built-in editor for shop floor modifications
- Machine feed rate and spindle override control
- Continuous step jogging, or convenient hand-held pulse generator can be used to fine tune positional locations
- CNC NC code previewer
- I/O machine status display
- Convenient vacuum pump switches on interface
- Real time file execution

OPTIONS



**DIGITAL
REGISTRATION**



**DRAG
KNIFE**



**3D
PROGRAMMING
SOFTWARE**



**OSCILLATING
KNIFE**



**CREASING
WHEEL**



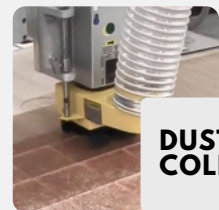
**4TH AXIS
ROTARY TABLE
ASSEMBLY**



**TANGENTIAL
KNIFE**



**COOLANT
SYSTEM**



**DUST
COLLECTION**



**VORTEX AIR
GUN**



**TOGGLE
CLAMPS**



**HSD
AGGREGATE
TOOL**



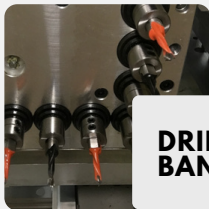
**BRaille
INSERTION**



**POD
TABLE**



**CAM
CLAMPS**



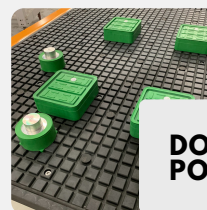
**DRILL
BANK**



**ROUTER
SPECIFIC
TOOL KITS**

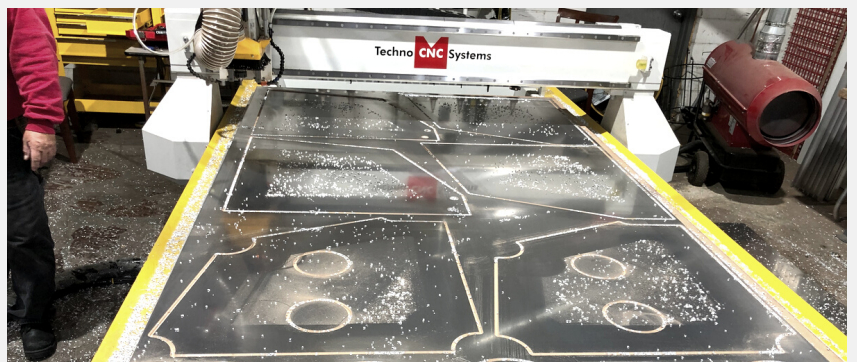
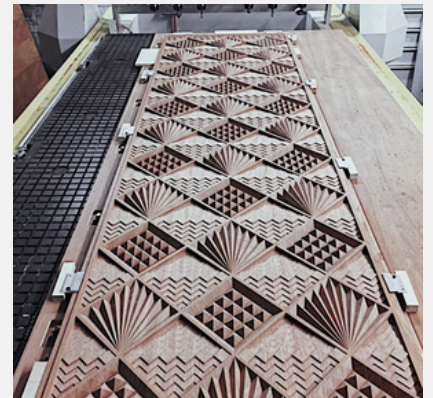
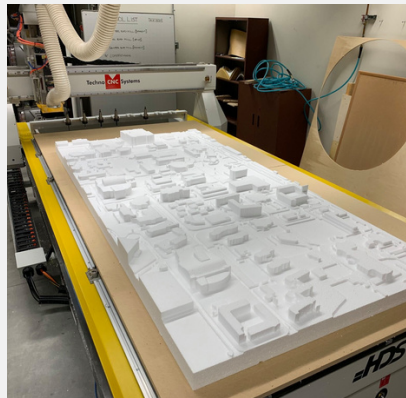


**ELEVATION
PODS**



**DOUBLE LAYER
POD TABLE**

GALLERY



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TESTIMONIALS

Purchasing the Techno CNC HDS 5×10 router is one of the best decisions we have made. Being in a business where versatility is essential in our equipment; building everything from casework up to funky shaped tunnels and custom aluminum brackets which need to withstand engineering scrutiny we found a great tool in our router. There are days we start with cutting standard plywoods, shift to cutting 3" thick foam, then finish the day cutting Sintra and acrylic. All with immense ease. The best part of having our router is having a great team standing behind their product. Any questions we have get answered very quick. Coming from a background with experience in similarly priced lesser quality machines, and working on machines 3x the price of ours, the service and care experienced with the Techno team is top-notch and their dedication rivals that of other machine companies and we are extremely happy and have no regrets. The machine has allowed us to compete with companies 10-100x our size.

– **Timothy David, Breakthrough Productions**

I made our CNC upgrade close to 10 years ago. We came back to Techno to upgrade from our Techno Desktop CNC machine. Now, my 5×10 HDS Series and desktop machines are growing old with me... working hard and having fun. Our business has us working with hardwood, plywood, MDF, aluminum composite, and acrylic. Our machines never disappoint. And the people over there at Techno CNC... they are just as hard working, dependable, and precise as the machines that they build. Thank you for playing such a huge part in my continued success and growth

– **Christian Magro, ACM Solutions**



READY TO MAKE THE PLUNGE?

**INVEST IN A TECHNO CNC ROUTER TO ENSURE BUSINESS
EXPANSION AND AN INCREASE IN SALES**



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