

THE NEW GENERATION

LC-Plus

PRECISION | POWER | VERSATILITY



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Built for Production. Designed for Efficiency.

The NEW Generation LC Plus combines heavy-duty construction, advanced automation, and high-performance components to deliver faster cycle times, increased production throughput, and consistent machining accuracy. A rigid 5,000 lb. all-steel frame provides exceptional stability, while the 12 HP Hiteco automatic tool changer spindle and 8-position tool rack automatically change tools between operations, reducing setup time and operator intervention. The multi-zone phenolic vacuum T-slot table, powered by a 10 HP Becker industrial rotary vane vacuum pump, provides powerful and reliable material hold-down. Five precision pop-up pins allow for fast, repeatable sheet positioning, further reducing setup time. Brushless AC servo motors, precision helical rack-and-pinion drives, and a ball-screw Z axis provide the speed, accuracy, and repeatability required for demanding production applications. An industrial PC-based control system provides intuitive operation while automating the machining process. By reducing manual setup, tool changes, and material positioning, the LC Plus allows operators to spend more time preparing the next job and less time managing the machine.

The result: increased machine utilization, reduced production downtime, and higher production throughput—all from a single, versatile CNC platform.

FEATURES THAT MAKE A DIFFERENCE



FRAME

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



GANTRY

The LC Plus comes standard with a 12" raised gantry. The gantry is constructed of tubular steel that is precision machined. This quality engineering and workmanship results in smooth precision cutting.



SPINDLE

The LC Plus Series comes standard with a 12 HP Hiteco automatic tool changer spindle, featuring maintenance-free operation, ER collets, ISO 30 tool holders, programmable speeds from 6,000–24,000 RPM, and a CNC pneumatically operated vacuum hood

THE NEW GENERATION

LC-*Plus*

FEATURES THAT MAKE A DIFFERENCE



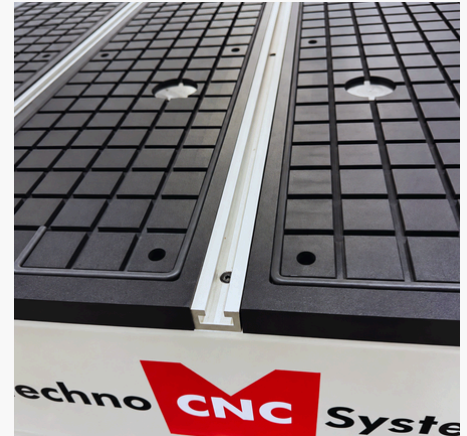
VACUUM SHROUD

The New Generation LC Plus Series includes a CNC pneumatically operated vacuum hood with a 6" connection, thus creating a concentrated cyclonic effect resulting in efficient removal of all dust and debris.



TOOLING

The New Generation LC Plus Series machine includes an 8-position tool rack in the rear of the machine. Included are different tool length holders for supporting various router bit lengths.



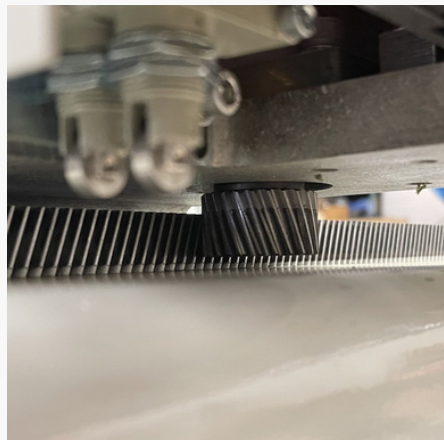
VACUUM TABLE

The New Generation LC Plus Series comes standard with a vacuum t-slot table.



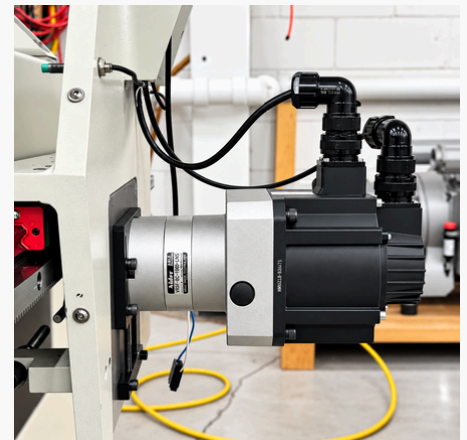
POP-UP PINS

The Techno New Generation LC Plus Series Machine comes standard with 5 pop up pins. These pins allow the operator to bank the edge of the material against them precisely aligning the material to the axis of travel.



DRIVE TRAIN ASSEMBLY

The Techno LC Plus Series features precision helical gear racks on the X and Y axes with an inverted design to reduce dust buildup. Direct-coupled gearing eliminates belt stretch for smooth, accurate, and reliable high-speed machining.



DRIVE MOTORS

The New Generation LC Plus Series CNC Router utilizes digital AC servo drive motors and drives. These motors require no regular maintenance — therefore, reducing any maintenance downtime.

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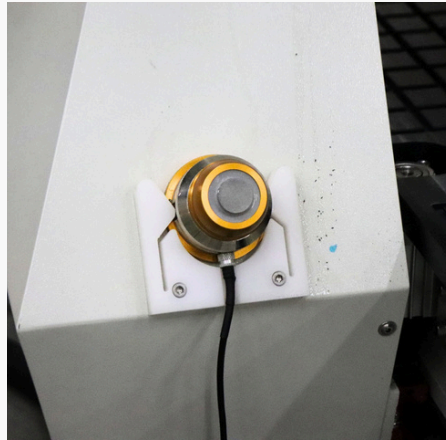
LC-Plus

MORE FEATURES



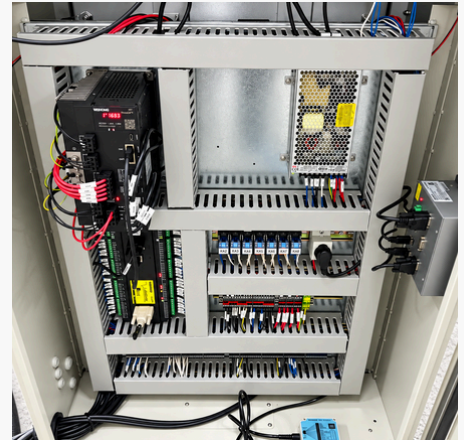
TOOL CALIBRATION

Tool Calibration is used for recording tool length offsets. This is an automatic process for easy storage of tool length offsets



Z-ZERO TOUCH PAD

Automatic tool calibration pad allows for easy and accurate "Z" zero position



ELECTRONICS

All electrical components are housed in a double-door NEMA 4 enclosure for easy access and service. Clearly tagged wiring simplifies maintenance, while the cabinet provides a convenient workspace.



AVAILABLE IN 4'X4', 4'X8', 5'X10'

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CONTROL CABINET FEATURES

THE NEW GENERATION
LC-Plus



**19" TOUCH
SCREEN**

**WIRELESS
MANUAL PULSE GENERATOR**

**CONSOLE
WORK STATION**

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THE NEW GENERATION

LC-Plus

PRECISION. PERFORMANCE. PRODUCTION

HITECO ATC
SPINDLE

CNC VACUUM
SHROUD

DUST HOSE
SUPPORT

6" DUST
COLLECTION
HOSE

PROTECTIVE
DRIVE
COVERS

12" GANTRY

VACUUM TABLE

Z-ZERO
TOUCH PAD

TOOLING

25MM LINEAR
GUIDE RAILS

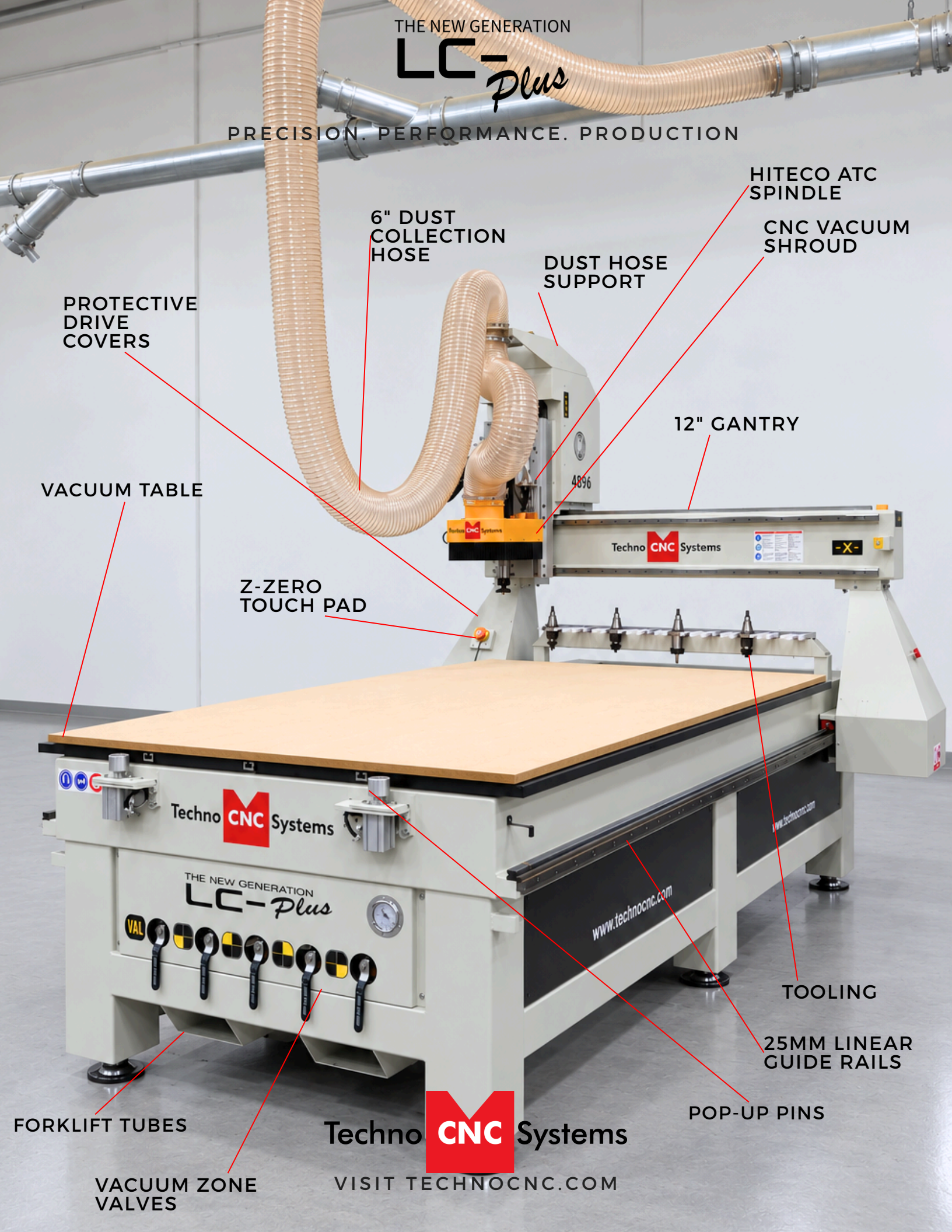
POP-UP PINS

Techno **CNC** Systems

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VACUUM ZONE
VALVES

FORKLIFT TUBES



TECHNO CNC'S LC PLUS SERIES THE NEW GENERATION PC BASED CONTROLLER



CNC Windows-Based G-Code Interface

The LC Plus New Generation PC based controllers offer advanced motion control algorithms, supporting various file formats like G-code, DXF, and ENG, and features such as breakpoint resume, multi-piece coordinate systems, and online G-code editing. They provide robust functionality with options for eight-gear multi-segment spindle speed, multiple workpiece modes, tool change functions, and online adjustments for feedrate. Many models also include enhanced security through combined software and hardware encryption and a focus on ease of use with USB flash drive support and simple interfaces.



wireless MPG Handheld Controller

Our Wireless Manual Pulse Generator (MPG) provides exceptional convenience for machine setup by allowing operators to work in close proximity to the machining area. This handheld jogging device enables smooth, precise control while moving freely around the machine, significantly improving setup efficiency and convenience.

The controller features multiple jog interval settings, including step, incremental, and continuous motion modes, giving operators precise and flexible control during alignment, calibration, and positioning tasks.

Features of the G-Code Interface:

- **Advanced Control:** Utilizes advanced control algorithms for high-quality machining and precision.
- **File Compatibility:** Supports standard G-code, along with DXF and ENG file formats, and is compatible with mainstream CAD/CAM software.
- **Processing Functions:** Includes functions for array processing, rotating and mirroring, and multi-workpiece mode for enhanced efficiency.
- **Spindle Control:** Features eight-gear multi-segment spindle speed control.
- **Security:** Employs combined software and hardware encryption plans for data security and reliability.

Techno **CNC** Systems



MACHINES | SUPPORT | SERVICE

Techno has you
COVERED

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