



Haas
F1 Team
OFFICIAL MACHINE TOOL

50-TAPER POWER IN A SMALL FOOTPRINT



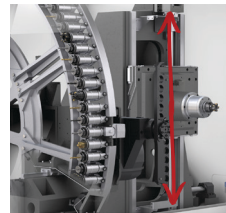
50-TAPER
POWER
IN A SMALL FOOTPRINT

ROBUST CUTTING WITH YOUR SHOP'S WORKSPACE IN MIND

Designed for high-volume production and unattended operation for larger parts and tombstones, the EC-500/50 offers 50-taper power and a large work envelope, with the smaller footprint of a 40-taper pallet-changing machine. It features fast rapids, full 4th-axis pallet indexing, and a rear-exit chip conveyor for efficient chip management.

NEW – INCREASED AXIS TRAVELS

An extra 5" of Y-axis travel can make all the difference in the world. Now, the spindle centerline can get 27.13" above the surface of the pallet. We also increased the X- and Z-axis travels by 2" each.



NEW – CYCLOIDAL ROTARY DRIVE

The cycloidal rotary drive system – designed for machine tools and robotics – provides a great combination of speed, accuracy, and durability to the B axis. The rugged design provides long service life, with little or no maintenance, and is especially durable in a crash. The cycloidal rotary drive can be back driven to absorb energy from an impact. The shock-load capacity is 5 times the rated torque of the gearbox, and the entire gearbox is a simple drop-in replacement, should damage occur.

EC-500/50T Specifications:

TRAVELS

- X Axis 32.0"
- Y Axis 25.0"
- Z Axis 28.0"

SPINDLE

- Max Rating 30 hp
- Max Speed 7500 rpm
- Max Torque 340 ft-lbf @ 700 rpm
- Drive System 2-Speed Gearbox
- Taper CT or BT 50

PALLETS

- Length x Width 500 x 500 mm

TOOL CHANGER

- Capacity / SMTc 30+1
- Max Tool Diameter (full) 4.0"
- Max Tool Dia (adjacent empty) 7.0"
- Max Tool Length (from gage line) 16 in
- Max Tool Weight 30 lb
- Tool-to-Tool (avg) 4.2 s
- Chip-to-Chip (avg) 6.3 s

FEEDRATES

- Max Cutting 500 ipm
- Rapids (xyz) 1000 ipm

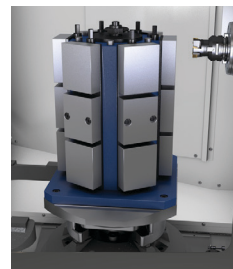
GENERAL

- Coolant Capacity 95 gal

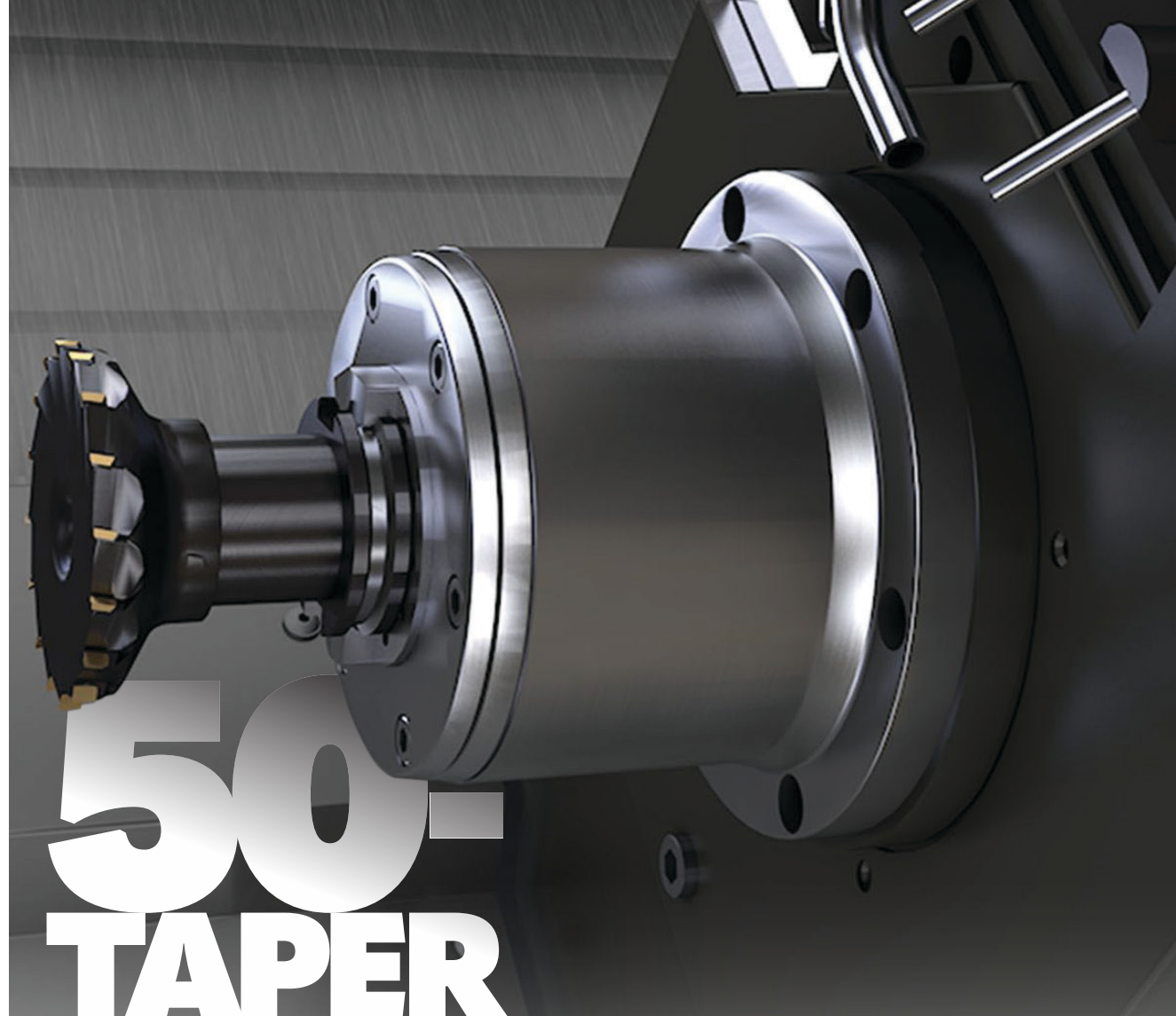
EC-500/50T

Standard Features:

- Full 4th-Axis Rotary System
- Belt-Type Chip Conveyor
- Ethernet and WiFi Connectivity
- HaasConnect Remote Monitoring
- M130 Media Display M-Code
- Power-Failure Detection Module
- 1 GB Standard Program Memory
- Rigid Tapping
- 1-Year Standard Warranty



Full 4th-axis rotary – provides high-accuracy positioning for tombstones and 3+1 work, as well as simultaneous 4th-axis motion for contouring and complex parts.

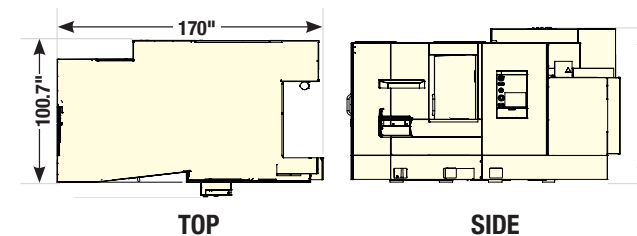


The EC-500/50 comes standard with our 7500-rpm 50-taper spindle, which uses a Haas-built two-speed gearbox to provide a wide constant horsepower band, good low-speed torque for heavy cuts, and higher torque throughout the range above 500 rpm.

For heavy cuts and high material-removal rates, a high-performance 7500-rpm spindle is also available. Powered by a 60 hp vector drive, this spindle provides higher power throughout the rpm range than the standard spindle. For high-speed work, a 10,000-rpm, 60 hp spindle is also available.

WHEN SIZE ACTUALLY MATTERS

Maximum power, minimal size. The EC-500/50 occupies the same smaller space as a 40-taper pallet-changing machine.



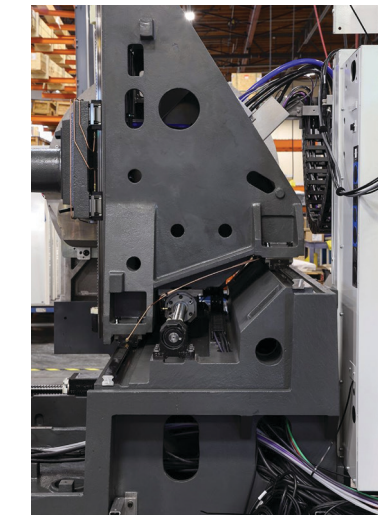
EFFICIENT CHIP REMOVAL



WIDE BELT-TYPE CHIP CONVEYOR

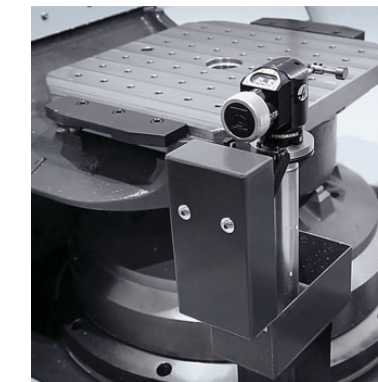
Chip management is improved with a wider belt-type chip conveyor positioned in the center of the machine, directly under the spindle. The steep walls of the interior enclosure easily funnel chips to the conveyor.

The completely redesigned EC-500/50 has been improved from the ground up, with all new castings for increased rigidity, better cutting performance, 5 more inches of Y-axis travel, and vastly improved chip evacuation.



RIGIDITY AND STABILITY RIGHT WHERE YOU NEED IT

The stepped base and column design of the EC-500/50, where one X-axis linear guide rail is on a different horizontal plane than the other, increases the rigidity and stability of the spindle-head/column assembly. With hydraulic pallet clamping and the stepped base/column design, the EC-500/50 is more rigid than ever, all the way to the top!



AUTOMATIC PROBE RISER

An automatic probe arm stores the tool setting probe in a protective compartment during machining operations. When the tool probe is needed, an M104 code activates the automatic probe arm to lift the probe and lock it into place. When probing is complete, an M105 retracts the probe to its protective compartment.

MYHAAS YOUR NEW FLEET MANAGEMENT

Machine Details

EC-1600ZT
#0795 EC-1600ZT

Serial #: 2054741
Group: MyHaas
Build Date: 9/15/2018
Warranty Start: 5/15/2019
Warranty End: 5/15/2020

Status: ACTIVE

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LATEST ACTIVITY

[Notification Settings](#)

Action Date	Time	Machine Event
08/05/19	15:32:47	Program Started
08/05/19	15:28:56	Program Stopped
08/05/19	15:04:53	Program Started
08/05/19	14:51:23	Program Stopped
08/05/19	14:18:59	Program Started
08/05/19	14:10:24	Program Stopped
08/05/19	13:32:21	Program Started
08/05/19	13:27:06	Program Stopped
08/05/19	12:48:53	Program Started
08/05/19	12:39:03	Program Stopped

- Machine Options**
 - Tool Changers
 - Multi-Axis Machining
 - Probing
 - Chip & Coolant Management
 - The Haas Control
 - Legacy Options

View detailed information about your machine, including serial number, machine build date, and warranty start /end dates.

See how your machine is configured, with a detailed list of every option installed.

Up-to-the-minute live event tracking with HaasConnect remote monitoring.

Find out about the latest upgrades available for your machine, order parts, and quickly access service guides, manuals, and videos.

MYHAAS MACHINE DETAILS PAGE View detailed information about your machines, including serial numbers, build dates, warranty start/end dates, product details, and machine option details. Sign up now at [HaasCNC.com/myhaas](https://www.HaasCNC.com/myhaas)

HAAS DROP

HaasDrop is a fast and convenient method for sending images, videos, and even program files from a mobile device directly to a Haas NextGen Control. Download the free app, and start transferring files directly to the Haas control.



MAKE THE CONNECTION WITH HAASCONNECT

Get your machine status notifications anywhere, on any device! The Haas Control has the ability to send you, and others you designate, email notifications about the operating status of your Haas machine. Set up is fast and easy through the MyHaas Portal and HaasCNC.com.



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