



Haas
F1 Team
OFFICIAL MACHINE TOOL

LARGE-PLATFORM CNC Routers for Big Jobs



GRIM

HANDLE LARGE PARTS

The Hass gantry-style routers have the power to cut aluminum and other metals, and the speed to cut various plastics and other light materials. These machines easily handle large sheets, or can machine small parts by the thousand. A traveling guard protects the operator from chips and coolant, and keeps the workspace clean.

40-TAPER MILL



GR-510

TRAVELS

X-Z	48" (12,192 mm)
Y	5' 0" (1524 mm)
Spindle Travel to Table	12' 0" (3658 mm)
TABLE	
Length x Width x Height	112" x 72" x 41"

GR-712

TRAVELS

X-Z	71" (1803 mm)
Y	5' 0" (1524 mm)
Spindle Travel to Table	12' 0" (3658 mm)
TABLE	
Length x Width x Height	144" x 72" x 41"

STANDARD ON GR-510 AND GR-712

SPINDLE

Max RPM	12,000
Max Torque	100 lb-ft (136 Nm)
Tool System	End-Spacer, Air Jet
Tool	GTN 8-1/2"

TOOL CHANGER

Tool Capacity	Capacity 10
Max Tool Diameter	1.5"
Max Tool Length	210"

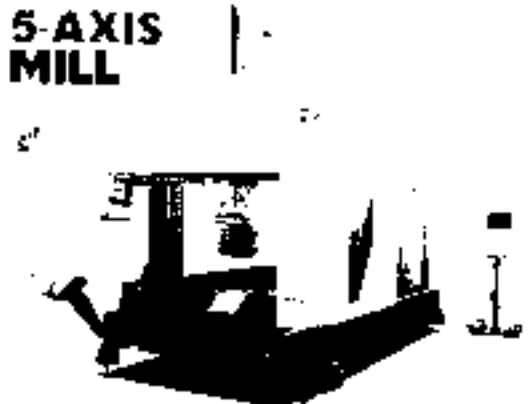
FEEDRATES

Max G-Force	200 G
Feedrate (in/min)	250 (6350 mm/min)

GENERAL

Control Capacity	950,000
AIR REQUIREMENTS	
60-80 psig	4-500 (27,000 cc)

5-AXIS MILL



GM-2-5AX

TRAVELS

X-Z	48" (12,192 mm)
Y	5' 0" (1524 mm)
Spindle Travel to Table	12' 0" (3658 mm)
Spindle	
Max RPM	12,000
Max Torque	200 lb-ft (271 Nm)
Max Tool	11' 0" (3353 mm)
Tool	GTN 8-1/2"

5-Axis - Table

Travel	170"
Max Speed	100 in/min
Max RPM	12,000

5-Axis - Rotations

Travel	170"
Max Speed	80 in/min
Max RPM	6000 RPM

TABLE

Length x Width x Height	144" x 72" x 41"
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TOOL CHANGER

Tool Capacity	Capacity 10
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FEEDRATES

Max G-Force	200 G
Feedrate (in/min)	250 (6350 mm/min)

GENERAL

Control Capacity	950,000
AIR REQUIREMENTS	
60-80 psig	4-500 (27,000 cc)

Hass Automation, Inc.

Large Platform CNC Routers for Big Jobs

READY FOR YOUR LARGE-SCALE TASKS

88 Series machines easily handle large slabs of steel, ready for small parts by the thousand.



8100 RPM SPINDLE

- Excellent medium-duty spindle
- Green-painted design is well-suited for wood and other non-metallic materials

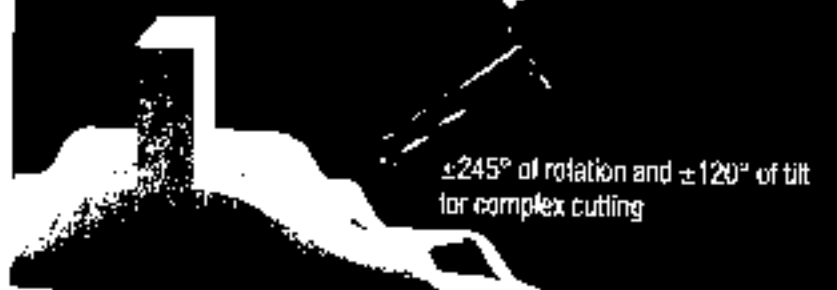


10-POCKET CAROUSEL

- Cost-effective tool change
- Simple design
- Durable, and reliable machine parts guaranteed over 10 and 15 year periods



GM-2-5AX DUAL-AXIS SPINDLE



$\pm 245^\circ$ of rotation and $\pm 120^\circ$ of tilt for complex cutting



39' of Z-Axis reach

A LOT MORE Z-AXIS TRAVEL



HSK 63F INTEGRATED MOTOR SPINDLE
LIGHTER, FASTER, MORE RIGID COOLING SYSTEM

GET TO EVERY ANGLE

GM-2-5AX MOTION CAPABILITY

Whether you're machining large aircraft components, pairing complex composite structures, or shaping massive die-cast molds, the GM-2-5AX has the capability and expertise to handle even your largest parts. The 2000-lb. HSK-63F turntable provides the speed and rigidity you need for every load, and high surface temps, and the dual-axis spindle head allows you to reach nearly any surface for machining, complex contours and critical features.

- 2000-lb. turntable provides 2250 RPM speed
- 2-axis turntable and 117° range of rotation
- HSK-63F HSK-63 spindle
- 1000 Series Motor for Center
- High speed air coolant
- Heavy-duty ball bearings, precision ball nuts
- 17 tons of load capacity



For more information on the GM-2-5AX, visit our website at www.haascnc.com or call 1-800-845-4444.

www.HaasCNC.com

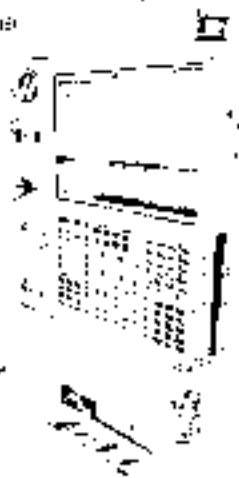
IT'S EASIER -- WITH PICTURES, VIDEOS, AND GRAPHICS.

THE HAAS CONTROL— Designed, built, and programmed by Haas

The Haas control— hardware and software— is designed and built in-house, and controlled by a single CPU. The machine built in Haas is a single controller. A controller takes full responsibility for the entire machine. The Haas control is easy to learn and use, with the same across the entire product line. Haas machines are also used extensively in educational institutions around the world to provide students and visitors with hands-on training. And, the Haas control software takes learning new operations and programming tasks made and provides learning.

STANDARD CONTROL FEATURES:

- User Aided Setup
- User Aided Feeds
- Full Control Language
- 15" Touch Screen
- Ethernet Port
- ISO 801
- Advanced Mq System
- Tool Monitor
- Machining Time for Machine
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VISUAL PROGRAMMING SYSTEM

The Haas Visual Programming System uses graphical templates and a browser interface to help you quickly create G-code programs for not only basic part features, but also more complex operations, such as toolpathing, grinding, and more. Simply choose the feature in the templates, and MP3 the machine works. In case of the touch of a button, the Haas Visual Programming System generates the G-code for you, based on the templates for your own part features or frequently used programs.

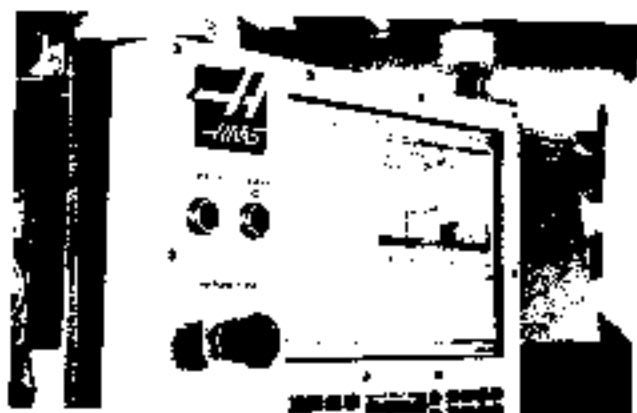


M130 MEDIA DISPLAY

The Haas M130 Media Display Module is a powerful tool for communicating with machine operators and supervisors directly from the Haas control. The M130 Media Display Module provides real-time part images, manufacturing information, and more. When the program reaches an M130 stop, a selected screen (one of video or still) will be displayed in the upper right corner of the control screen.



- Explain to the operator the status of the machine, using pictures and videos.
- Add manufacturing data to your stop pages.
- Describe step-by-step part inspection processes.
- Show important setup information on stop pages.



ALARM VIDEOS

When you receive an alarm, you're looking for the thing you want to know why? The Haas control not only includes fully real-time alarm video capturing the system, but also many camera options. It includes alarm video capturing from the alarm, and many valuable tool estimating options, such as the video.

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. Setup is fast and easy through the MyHaas Portal and HaasCONNECT.



Haas Automation, Inc. | www.HaasCNC.com | 800-331-6746 | Made in U.S.A.

Specifications subject to change without notice. Make sure you're always up to date. Machine shown with optional equipment. Actual product appearance may differ. Price is subject to change without notice.

Haas
RT Team
OPTICAL MACHINING (DOI)

Haas
CNC