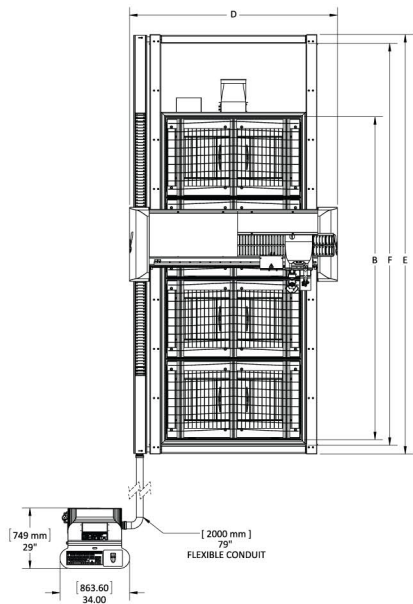
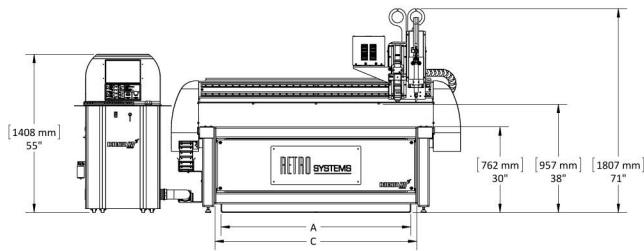




MACHINE SPECIFICATIONS

Positioning accuracy +/- .005" (.127 mm) *
Repeatability +/- .001" (.025mm) *
* 60" x 60" area (1.5m x 1.5m)

	5 ft (1.5m)	6.5 ft (2.0m)	8.2 ft (2.5m)	10 ft (3.0m)
Effective cutting width (A)	60" (1.5m)	78" (2.0m)	98" (2.5m)	120" (3.0m)
Effective cutting length (B)	12 ft (3.7m) 20 ft (6.0m) 24 ft (7.3m)			
Width between rails (C)	71.25" (1.8m)	90" (2.3m)	109.75" (2.8m)	131.25" (3.3m)
Machine width without CNC (D)	102" (2.6m)	121" (3.1m)	141" (3.6m)	162" (4.1m)
Machine length without CNC (E)	12 ft (3.6m) model = 205" (5.2m) 20 ft (6.0m) model = 318" (8.1m) 24 ft (7.3m) model = 360" (9.1m)			
Length inside rails (F)	12 ft (3.6m) model = 196" (5m) 20 ft (6.0m) model = 310" (7.9m) 24 ft (6.1m) model = 351" (8.9m)			
Overall machine height	71" (1.8m)			
Distance from underside of gantry to floor	38" (0.9m)			
Recommended slat height	30" (0.8m)			

NOTE: Remote CNC Control Pedestal dimensions are 29" (0.7m) D x 34" (0.8m) W x 55" (1.4m) H
Maximum traverse speed 2,100 IPM (53m/min)
Maximum tools (2) – (1) Plasma, (1) Oxy-fuel, (1) Air scribe
Maximum plasma system amperage 400A
Recommended conventional plasma systems Hypertherm® Powermax™ series, Hypertherm® HSD130™, MAXPRO200™
Recommended high definition plasma systems Hypertherm® HPR130XD™, HPR260XD™, HPR400XD™
Maximum production plasma cutting capacity 2" (50mm)
Maximum production oxy-fuel cutting capacity 3" (75mm)
Input power for cutting machine 200-240 VAC, 50/60 Hz, single phase, 20A dedicated circuit

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HORNET HD™

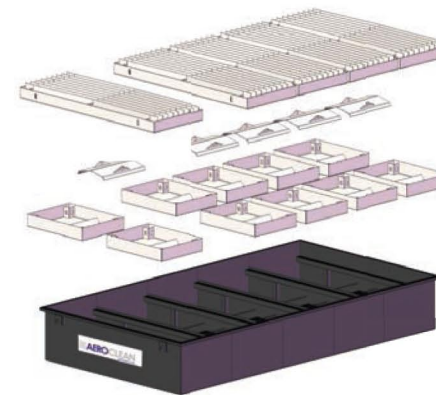
The HORNET HD dual side drive CNC cutting machine's unique compact design offers a unitized all steel precision machined frame with an independent cutting table fabricated from ¼" (6.35mm) A36 steel. The cutting table design may be either our AEROCLEAN zoned downdraft table or a water table.

Motion control is provided by the robust and easy to use Hypertherm® MicroEDGE™ Pro PC based CNC control. The machine frame and gantry beam are fabricated from heavy-wall steel tubing that is stress relieved and precision machined in-house. All axes of motion run on precision ground linear guide ways and are driven by powerful AC servo drives. Low back lash planetary gear boxes coupled to a helical rack and pinion drive system ensure accurate, smooth motion for extremely round plasma cut holes.

The HORNET HD tool carriage may be configured with (2) tools - plasma torch, oxy-fuel torch or an air scribe marker. Air plasma systems such as the Hypertherm® Powermax™ series are an excellent choice for medium duty conventional plasma cutting. For extended consumable life, improved cut edge weld-ability and heavier plate capacity, we recommend oxygen plasma systems with liquid cooled torches such as the Hypertherm® HSD130™ or MAXPRO200™. If premium plasma cutting is required, we recommend a high definition plasma system such as a Hypertherm® HPR130XD™, HPR260XD™ or HPR400XD™.



HORNET HD 10 ft x 24 ft (3.0m x 7.3m) with HPRXD plasma torch, an oxy-fuel torch and an independent AEROCLEAN table



AEROCLEAN Cutting Table (Optional)

Retro Systems AEROCLEAN zoned downdraft tables deliver superior performance in the most demanding of fume and particulate generating applications. Internal components are uniquely designed to optimize table performance and maximize filter life of fume extraction systems.

HORNET HD STANDARD FEATURES:

- Cutting Widths: 5.0 ft, 6.5 ft, 8.1 ft and 10 ft (1.5m, 2.0m, 2.5m & 3.0m)
- Cutting Lengths: 12 ft & 24 ft (3.7m & 7.3 m)
- Remote CNC Pedestal with Hypertherm MicroEDGE Pro CNC Control
- Heavy Wall Steel Tubing Machine Frame and Gantry Beam
- 8" (200mm) Gantry Clearance Above Table Slats
- Fabricated Steel End Trucks
- AC Servo Motors and Drive Amplifiers - (4) Axis max.
- 2,100 IPM Rapid Traverse Speed (53m/min)
- Tucked 20mm Linear Guide ways on Main Rail Axis (X)
- Dual 20mm Linear Guide Ways on Cross Axis (Y)
- 0.67" (17mm) Helical Gear Rack
- Hardened & Ground Helical Pinion Gears
- Planetary Gear Heads
- Enclosed Cable Carriers on X and Y axes
- Carriage to accept up to (2) Tools
- Two Year Warranty

MicroEDGE Pro CNC CONTROL & OPERATOR CONTROL CONSOLE FEATURES:

- REMOTE HELP via the Internet
- Microsoft® Windows® XP® - Embedded Version
- Hypertherm® Automation Phoenix® Motion Control Software
- Intel 2.4 Ghz or greater, 1 GB RAM or greater
- 120 Gigabyte Hard Drive or greater
- Ethernet LAN, USB and RS-232/422/485 isolated serial
- Machine side Opto-Isolation
- 68 Shapes Including Text
- 15" (380mm) LCD Touch-Screen Monitor
- Keyboard and Mouse
- E-STOP button
- Manual or Automatic control of fume extraction systems

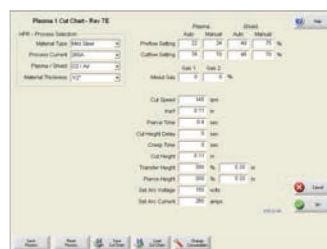
HORNET HD OPTIONS:

- Plasma Systems up to 400 Amps (1 max)
- Full Support of Hypertherm True Hole and Rapid Part Technology
- Integrated 4th Axis SENSOR Torch Height Control Interface
- RSVS-200 Plasma Torch Lifter with 600 IPM (15m/min) vertical lift
- RAD Collision Mount for Plasma Torch
- Cross Hair Laser Pointer
- Roller Ball Plate Rider for Plasma Torch
- Oxy-fuel Torch & Lifter Station (1 max) with Ease On Pierce Control
- Air Scribe Plate Marker (1 max)
- AEROCLEAN Zoned Downdraft Air Tables with Removable Slat Frames and Slag Trays
- RoboVent Fume Extraction Systems
- Water Tables with Adjustable Water Level with Removable Slat Frames and Slag Trays
- Offline Programming Software
- Factory Supported Preventive Maintenance Programs
- Consumable Agreements



CNC & OPERATOR CONSOLE

The Hypertherm MicroEDGE Pro CNC is mounted inside the cabinet. A convenient desk surface includes a keyboard & mouse. The CNC On/Off switch and USB port are under the desk surface. A membrane touch panel offers full featured process control.



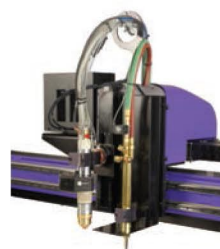
CNC PROCESS CONTROL

The Hypertherm Micro Edge Pro CNC control includes embedded process control expertise for both plasma and oxy-fuel cutting. Operators select a cutting process, material type and thickness. The CNC control sets the parameters to ensure excellent results on every job on every shift.



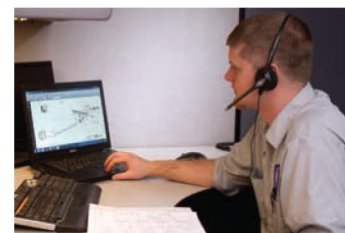
MACHINE FRAME & HEAVY DUTY DRIVES

The HORNET HD gantry and machine frame are fabricated entirely from steel. Components are stress relieved prior to machining to accept precision linear guide ways and helical gear rack. Powerful AC servo drives and planetary gear boxes ensure consistent part accuracy.



TOOL CARRIAGE

The HORNET HD tool carriage can carry up to two tools – plasma torch, oxy-fuel torch or an air scribe marker. A steel heat shield under the gantry is standard to accommodate plasma systems up to 400A. The RSVS-200 plasma torch lifter offers 600 IPM vertical lift speed to deliver Rapid Part Technology.



SERVICE AFTER THE SALE

Retro Systems offers extensive Preventive Maintenance packages to ensure your machine delivers maximum uptime, productivity and lowest cost of ownership. Using REMOTE HELP via the internet, our factory technicians can also deliver real time service direct to your machine. End user service training is regularly scheduled at our factory training center.