HORNET XS™
Single Side Drive

Precision CNC Plasma & Oxy-fuel Profile Cutting
HORNET XS™

The HORNET XS™ is built strong to deliver accurate profile cut parts and includes standard features normally offered only as options on more expensive machines. HORNET XS™ is a full featured medium duty single side drive CNC profile cutting machine for production plasma cutting up to 1” (25mm) and oxyfuel cutting up to 3” (75mm). Powerful AC Servo drives, the easy-to-use Hypertherm MicroEDGE™ CNC control, Premium components and Rigid steel construction ensure highly accurate profile cut parts. The HORNET XS™ is the right choice for your job shops, manufacturing shops and structural steel shops. If you’re looking for your first CNC cutting machine or need to increase your production capacity - the HORNET XS™ is the right choice.

MACHINE SIZES
The HORNET XS™ is available in 5, 6 and 8 ft widths (1.5, 1.8 & 2.4m) and lengths to over 60 ft (18m).

PLASMA & OXY-FUEL CUTTING
The HORNET XS™ may be configured with (2) master carriages and up to (5) slave carriages. The master carriage can carry up to (3) tools - plasma torch, oxyfuel torch and a marker. A slave carriage may carry either a plasma or oxyfuel torch. The HORNET XS™ may be configured with up to (2) plasma systems and up to (4) oxyfuel torches. Air plasma systems are an excellent choice for medium duty conventional plasma cutting. For extended consumable life, improved cut edge weldability and heavier plate capacity, we recommend higher amperage oxygen plasma systems with liquid cooled torches. A Hi Low Prefheat Gas Manifold is available for heavy duty oxyfuel cutting.

HEAVY DUTY FRAME DESIGN & STRUCTURAL BEAM RAIL SUPPORT
Dual cross axis linear ways on the reinforced tool box beam ensure ultra smooth motion of the tool carriages. Large diameter truck wheels inside the gantry and truck rail on rails supported by large structural steel “I” beams. Retro Systems’ rails are Tongue & Grooved and Triple Machined. The rail surfaces are also Flame Hardened to a HRC 48. Extra long end trucks and a large Deflected dead back deck guarantee frame stiffness. A full width heat shield under the gantry bridge is standard.

POWERFUL AC SERVO DRIVE SYSTEM
Machine motion is powered by 600 Watt (0.8 hp) AC servo motors directly coupled to precision planetary gearboxes to attain 1,000 RPM (25.4m/min) contouring speeds and 1,200 RPM (30.4m/min) Rapid Traverse speeds. The plasma lifter driven by a 250 watt (.33 hp) AC servo motor to attain vertical positioning speed of 600 IPM (25.4m/min) Contouring speeds and 1,200 IPM (30.4m/min) Rapid Traverse speeds. The plasma lifter is driven by a 250 watt (.33 hp) AC servo motor to attain vertical positioning speed of 600 IPM (25.4m/min) Contouring speeds and 1,200 IPM (30.4m/min) Rapid Traverse speeds.

HYPERTERM® AUTOMATION CNC CONTROL
The HORNET XS™ is controlled by the MicroEDGE™ CNC control from Hypertherm® - the world leader in plasma cutting automation. Windows® XP Embedded operating system, hardened industrial enclosure and easy-to-learn Phoenix® software make Hypertherm® controls the best in the business. Plasma process CUT CHART screens prompt the operator to select material type, material thickness, cutting empresage and parts. CutPro™ Wizard guides untrained operators through the basic and essential functions of loading and cutting parts.

REMOTE HELP as the internet enables factory technicians to deliver operator training, software updates and troubleshooting at the touch of a button.

CNC FILE CREATION AND LOADING FILES
The MicroEDGE™ CNC control includes an onboard DDI to CNC converter and NESTER for basic auto nesting of parts. Retro Systems also offers a full range of products from RTCS software, Inc. RTCS’s powerful software will quickly need your CNC drawings and prepare CNC machine code files optimized for the selected cutting process. CNC files prepared in your office may be downloaded directly to the CNC control via the internet or hand carried to the CNC control on a USB memory stick or floppy diskette.

CUTTING TABLES - AIR OR WATER
Retro Systems designs and manufactures both down draft air tables and water tables. Our zoned down draft air tables include multiple zones with pneumatically activated damper doors. The CNC control monitors machine movement along the rails and maintains air exhaust system efficiency by actuating the damper in the zone where cutting is occurring. A wide range of dust collectors are available for our air tables. Our water tables include the ability to raise and lower water level by adding or removing air from an internal chamber of the table. Removable slat trays to simplify cleaning are available for both air and water tables.

POWERFUL DRIVE SYSTEM
• 600 Watt AC Servo Motors
• Planetary Gear Heads
• Dual Linear Way Motor Slides
• Auto-Load Pinion Gear Tensioning System
• 2.4” (63.5mm) Wide Gear Rack
• 2.2” (56.0mm) Diameter Pinion Gears

HEAVY DUTY IRISH DESIGN
• Heavy Duty All Steel Construction
• Structural “I” Beam Rail Support System (24247)
• Pinion Hardened Triple Machined Tongue and Grooved Rails

CUTPRO WIZARD
CutPro Wizard™ guides the operator through the cutting process.
• Selecting a Cutting Process
• Selecting a Plate and Adjusting for Stagger
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CUSTOM CUT CHART
Custom Cut Chart allows creating and saving specific processes (100 per material type).
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**MACHINE SPECIFICATIONS**
Positioning accuracy +/- .010" (.254mm) *
Repeatability +/- .001" (.025mm) *
* Measured in a 60" x 60" area (1.5m x 1.5m)

<table>
<thead>
<tr>
<th></th>
<th>5ft (1.6m)</th>
<th>6ft (1.9m)</th>
<th>8ft (2.5m)</th>
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</thead>
<tbody>
<tr>
<td>Effective Cutting Width - (A) **</td>
<td>63&quot; (1.6m)</td>
<td>75&quot; (1.9m)</td>
<td>99&quot; (2.5m)</td>
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<tr>
<td>Effective Cutting Length - minimum (B) ***</td>
<td>156&quot; (3.9m)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Overall Machine Length - minimum (C)</td>
<td>216&quot; (5.4m)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Overall Machine Height - (D)</td>
<td>80.5&quot; (2.0m)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Overall Machine Width - (E) ****</td>
<td>94&quot; (2.3m)</td>
<td>106&quot; (2.7m)</td>
<td>130&quot; (3.3m)</td>
</tr>
<tr>
<td>Width Between Rails - (F)</td>
<td>65&quot; (1.6m)</td>
<td>77&quot; (1.9m)</td>
<td>101&quot; (2.6m)</td>
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<tr>
<td>Remote CNC Console Dimensions</td>
<td>52.56&quot; H x 39.00&quot; W x 30.88 D, 40.56&quot; Desk Height</td>
<td>(1.3m x 990mm x 784mm, 1.0m)</td>
<td></td>
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<tr>
<td>Rail Height</td>
<td>27.5&quot; (698 mm)</td>
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** The number of tools on the master carriage affects actual effective cutting width. Verify your application with factory before ordering.

*** Machines are available in 10, 12, 20, 24, 32, 36, 40 and 44 ft. effective cutting lengths. Consult factory for lengths over 44 ft.

**** Add 34" for machines with a Machine Mounted CNC Controller

Maximum Contouring Speed | 1,000 IPM (25.4m/min)
Maximum Traverse Speed | 1,200 IPM (30.4m/min)
Maximum Number of Tool Carriages | (4) Total - (1) Master & (3) Slave Carriage
Maximum Number Plasma Stations | (2)
Maximum Number Oxy-fuel Stations | (4)
Recommended Air Plasma Systems | Hypertherm® Powermax series
Recommended Oxygen Plasma Systems | Hypertherm® HSD130™, HT2000
Maximum Plasma Production Capacity | 1" (25mm)
Maximum Oxy-fuel Production Capacity | 3" (75mm)
Input power - Machine Servo Drive Amplifiers | 115 VAC 1 Phase, 20A dedicated circuit
Input power - CNC Control | CNC Control shares the above circuit
Input power - Plasma | Refer to Plasma Manufacturer’s Manual

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