04 WORKSHOP MACHINE
05 HVAC MACHINE
06 FS STANDARD MACHINE
07 FX STANDARD MACHINE
08 FS ADVANCED MACHINE
09 FX ADVANCED MACHINE
10 BEVEL ATTACHMENT
11 UCCNC CNC CONTROLLER
12 RHINO CNC CONTROLLER
13 EDGE CONNECT CONTROLLER
14 UCCNC CNC CONTROLLER
15 ALIBRE DESIGN
17 PLASMA RANGE
19 PRONEST
Features
- Combats smoke pollution and material heat deformation
- High accuracy
- Automatic torch height control
- Switch plate sensing
- Compact footprint
- Aluminum profile gantry for optimized acceleration, cutting speeds and cut quality
- Safety: X & Y limit switches, Emergency stop, Torch collision magnetic break-away

Specifications
- Waterbed
- Working area: 2500x1300mm - 3000x1500mm
- Controller: Mach3
- Motion: Stepper Driven
- Repeated accuracy: ± 0.05mm
- Rapid speeds up to 12000mm/min
- Acceleration: Up to 35mG
- Direct drive reduction planetary gearbox
- Pressure loaded rack & pinion
- High precision linear guides
- Dual X-Drive gantry system
- Plasma Range: Powermax 45 - 105

<table>
<thead>
<tr>
<th>TABLE</th>
<th>WORKING AREA</th>
</tr>
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<tbody>
<tr>
<td>WSII10</td>
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<tr>
<td>WSII15</td>
<td>3000x1500mm</td>
</tr>
<tr>
<td></td>
<td>Dependant on plasma</td>
</tr>
<tr>
<td></td>
<td>(Up to 20mm)</td>
</tr>
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</table>

Workshop plasma table with latest software and technology.
HVAC

**Features**
- Downdraft extraction bed for minimal smoke pollution
- High accuracy
- Compact footprint
- Aluminum profile gantry for optimized acceleration, cutting speeds and cut quality
- Roller ball lifter torch height control for optimized production
- Safety: X & Y limit switches, Emergency stop, Torch collision magnetic break-away

**Specifications**
- Extraction bed
- Working area: 2500x1300mm - 3000x1500mm
- Controller: Mach3
- Motion: Stepper Driven
- Repeated accuracy: ± 0.05mm
- Rapid speeds up to 12000mm/min
- Acceleration: Up to 35mG
- THC: Pneumatic lifter
- Direct drive reduction planetary gearbox
- Pressure loaded rack & pinion
- High precision linear guides
- Dual X-Drive gantry system
- Plasma Range: Powermax 45 - 65

<table>
<thead>
<tr>
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<td>HVAC1001</td>
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<td>HVAC1501</td>
<td>3000x1500mm</td>
</tr>
<tr>
<td></td>
<td>From 0,5mm - 2,5mm</td>
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</table>
Industrial plasma table with latest software and technology.

**Features**
- Combats smoke pollution and material heat deformation
- High accuracy
- Advanced torch height control*
- Ohmic or Switch plate sensing
- Laser plate alignment*
- Compact footprint
- Aluminum profile gantry for optimized acceleration, cutting speeds and cut quality
- Safety: X & Y limit switches, Emergency stop, Torch collision magnetic break-away

**Specifications**
- Waterbed
- Working area: 4000x2000mm - 3000x1500mm
- Controller: Rhino*/Mach3
- Motion: Stepper motor driven
- Repeated Accuracy: ± 0.05mm
- Rapid speeds up to 12000mm/min
- Acceleration: Up to 50mG
- Direct drive reduction planetary gearbox
- Pressure loaded rack & pinion
- High precision linear guides
- Dual X-Drive gantry system
- Plasma Range: Powermax & Maxpro 200
Industrial plasma table with latest software and technology.

**Features**

- Combats smoke pollution and material heat deformation
- High accuracy
- Advanced torch height control*
- Ohmic or Switch plate sensing
- Laser plate alignment*
- Compact footprint
- Aluminum profile gantry for optimized acceleration, cutting speeds and cut quality
- Safety: X & Y limit switches, Emergency stop, Torch collision magnetic break-away

**Specifications**

- Waterbed
- Working area: (L) 6000mm up to any given length x (W) 2500 - 3000mm
- Controller: Rhino*/ Mach3
- Motion: Stepper motor driven
- Repeated Accuracy: ± 0.05mm
- Rapid speeds up to 12000mm/min
- Acceleration: Up to 50mG
- Direct drive reduction planetary gearbox
- Pressure loaded rack & pinion
- High precision linear guides
- Dual X-Drive gantry system
- Plasma Range: Powermax & Maxpro 200
Features

- Combats smoke pollution and material heat deformation
- High accuracy
- Advanced torch height control
- Ohmic and force stall plate sensing
- Laser plate alignment
- Aluminum profile gantry for optimised acceleration, cutting speeds and cut quality
- Safety: X & Y limit switches, Emergency stop, Torch collision magnetic break-away

Optional Extra

- Bevel head attachment

Specifications

- Waterbed
- Working area: 4000x2000mm - 3000x1500mm
- Controller: Edge Connect
- Motion: Servo motor driven
- Repeated Accuracy: ± 0.05mm
- Rapid speeds up to 30000mm/min
- Acceleration: Up to 80mG
- Direct drive reduction planetary gearbox
- Pressure loaded rack & pinion
- High precision linear guides
- Dual X-Drive gantry system
- Plasma Range: HPRXD & XPR

FSA
Advanced High-Definition Plasma

Advanced plasma table with latest software and technology.

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<td>FSA2501</td>
<td>4000x2000mm</td>
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<tr>
<td></td>
<td>Dependant on plasma (Up to 50mm)</td>
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**FXA**

Advanced High-Definition Plasma

**Features**

- Combats smoke pollution and material heat deformation
- High accuracy
- Advanced torch height control
- Ohmic and force stall plate sensing
- Laser plate alignment
- Aluminum profile gantry for optimised acceleration, cutting speeds and cut quality
- Safety: X & Y limit switches, Emergency stop, Torch collision magnetic break-away

**Specifications**

- Waterbed
- Working area: (L) 6000mm up to any given length x (W) 2500 - 3000mm
- Controller: Edge Connect
- Motion: Servo motor driven
- Repeated Accuracy: ± 0.05mm
- Rapid speeds up to 30000mm/min
- Acceleration: Up to 80mG
- Direct drive reduction planetary gearbox
- Pressure loaded rack & pinion
- High precision linear guides
- Dual X-Drive gantry system
- Plasma Range: HPRXD & XPR

**Optional Extra**

- Bevel head attachment

---

**TABLE WORKING AREA**

<table>
<thead>
<tr>
<th>TABLE</th>
<th>WORKING AREA</th>
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</thead>
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<tr>
<td>FXA3001</td>
<td>6000mm and over x 3000mm</td>
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<tr>
<td></td>
<td>Dependant on plasma (Up to 50mm)</td>
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</table>
**Features**

- True Bevel capable
- High accuracy & efficiency
- Supports up to 45 degrees welding angles - Y, K, A & V cut
- Ease of operation
- Compact, lightweight design
- Consistant bevel cutting
- Compatible with XPR
- Safety: X & Y limit switches, Emergency stop, Torch collision magnetic break-away

**Specifications**

- TrueBevel Software
- High torque servo motors
- Controller: Edge Connect
- Advanced Harmonic Drive
- High precision linear guides
- Recommended tables: 4100x2100mm - 6000mm< x 2500-3000mm
- Repeated accuracy: ± 0.05mm
- Plasma range: HPRXD & XPR
Specifications
- TrueBevel Software
- High torque servo motors
- Controller: Edge Connect
- Advanced Harmonic Drive
- High precision linear guides
- Recommended tables: 4100x2100mm - 6000mm x 2500-3000mm
- Repeated accuracy: ±0.05mm
- Plasma range: HPRXD & XPR

Features
- True Bevel capable
- High accuracy & efficiency
- Supports up to 45 degrees welding angles - Y, K, A & V cut
- Ease of operation
- Compact, lightweight design
- Consistant bevel cutting
- Compatible with XPR
- Safety: X & Y limit switches, Emergency stop, Torch collision magnetic break-away

Specifications
- Power requirement: 240V AC 50Hz supply
- Windows 7 embedded
- File system protection
- Stepper motion system
- Motion accuracy: ±0.05mm
- Acceleration: Up to 35Mg
- Rapid speeds up to 10000mm/min
- Safety features embedded
- CAM Software: FastCam (Upgradeable)
CNC CLEAR CUT

Specifications
- Power requirement: 240V AC 50Hz supply
- Windows 7 embedded
- File system protection
- Stepper motion system
- Motion accuracy: ±0.05mm
- Acceleration: Up to 35Mg
- Rapid speeds up to 12000mm/min
- Safety features embedded
- CAM Software: ProNest LT

Features
- High accuracy
- Advanced torch height control
- Operator friendly (Touch screen, Operator panel)
- Improved production output
- Easy recovery features
- Integrated Beckhoff PLC
- Laser plate alignment
- Ohmic & Switch plate sensing

RHINO
CNC controller interface with touch screen.

CNC controller interface with touch screen.
**Specifications**

- Power requirement: 240V AC 50Hz supply
- Windows 10 embedded
- EtherCAT Servo drive system
- Motion accuracy: ±0.05mm
- Acceleration: Up to 80Mg
- Rapid speeds up to 30000mm/min
- Safety features embedded
- CAM Software: ProNest
- Sensor THC

**Features**

- Full industrial
- True motion (Rapid Parts, TrueHole, Sure Cut)
- Operator friendly (Touch screen, Operator panel)
- High definition cutting
- High production output
- Import CAD files directly
- Pattern array nesting
- Advanced torch height control
- Laser plate alignment
- Supports HPR/XPR plasma
- Real time operating system

**CNC controller interface with touch screen.**
SOFTWARE
We offer industry leading CAM software with integrated MRP.

COMMISSIONING
Installation and on-site training, from Workshop to Advanced machines.

TRAINING
Advanced CAD, CAM & CNC training lectured at our in-house facilities.

CONSUMABLES & PARTS
We stock a large inventory of OEM spare parts and consumables.

TEHNCICAL SUPPORT
Servicing and maintenance offered by our highly trained support team.

"We encourage clients to visit our showroom where they can find our different machines on display".
We offer industry leading CAM software with integrated MRP.

Installation and on-site training, from Workshop to Advanced machines.

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Sheet Metal
A dedicated sheet metal module for creating simple brackets to complex enclosures and lofted transitions. Convert parts into sheet metal with a wizard, and generate flat patterns for manufacturing.

Assemblies
Assemble parts together with constraints and analyze how the assembly will move. Query physical characteristics such as mass, create exploded views, and check for interferences.

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Project your 3D models into the 2D workspace and quickly create crisp engineering and patent drawings with a huge array of tools for dimensioning, annotations, and specialized views.

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www.alibre.com
877-7-ALIBRE | sales@alibre.com
## Powermax®

### Product line overview

<table>
<thead>
<tr>
<th>Cut capacity</th>
<th>Powermax30 XP</th>
<th>Powermax30 AIR</th>
<th>Powermax5 XP</th>
<th>Powermax5S</th>
<th>Powermax5</th>
<th>Powermax105</th>
<th>Powermax125</th>
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<tbody>
<tr>
<td>Recommended</td>
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<td>16mm</td>
<td>20mm</td>
<td>22mm</td>
<td>25mm</td>
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<tr>
<td>Severance</td>
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<td>16mm</td>
<td>16mm</td>
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<td>25mm</td>
<td>30mm</td>
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<table>
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<th>Single</th>
<th>Single or three</th>
<th>Three</th>
<th>Three</th>
<th>Three</th>
<th>Three</th>
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</thead>
</table>

### Application capabilities

- **Mechanized cutting**
- **Drag cutting**
- **FineCut®**

### Operating data

- Virtually dross-free cutting capacity – mild steel
- Production pierce capacity – mild steel
- Severance* – mild steel
- Bevel – 200 amp consumables support 45° bevel capability

<table>
<thead>
<tr>
<th>Material</th>
<th>Current (amps)</th>
<th>Thickness (mm)</th>
<th>Approximate cutting speed (mm/min)</th>
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</thead>
<tbody>
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<td>Mild steel</td>
<td>Air plasma</td>
<td>50</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Air shield</td>
<td>3</td>
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<td>Air plasma</td>
<td>130</td>
<td>6</td>
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<tr>
<td></td>
<td>Air shield</td>
<td>12</td>
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<td></td>
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<td>200</td>
<td>6</td>
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<td></td>
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<td></td>
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<td>50</td>
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<tr>
<td></td>
<td>O₂ plasma</td>
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<td>1</td>
</tr>
<tr>
<td></td>
<td>Air shield</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td>O₂ plasma</td>
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</tr>
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<td>Air shield</td>
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<td>O₂ plasma</td>
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<td>50</td>
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<td>Stainless steel</td>
<td>Air plasma</td>
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<td>12</td>
</tr>
<tr>
<td></td>
<td>Air shield</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

### MAXPRO200®

LongLife® air and oxygen plasma

- Virtually dross-free cutting capacity – mild steel
- Production pierce capacity – mild steel
- Severance* – mild steel
- Bevel – 200 amp consumables support 45° bevel capability
XPR overview
Unmatched performance. Unbeatable operating cost.

The new XPR™ plasma represents the most significant advance in mechanized plasma cutting technology, ever. These next generation systems redefine what plasma can do by expanding its capabilities and opportunities in ways never before possible. With unmatched X-Definition® cut quality on mild steel, stainless steel and aluminum, XPR increases cut speed, dramatically improves productivity and slashes operating costs. New ease-of-use features and engineered system optimization make XPR easier to run with minimal operator intervention, while also ensuring optimal performance and unmatched reliability.

Core™ console
Unmatched mild steel cutting performance and superior angularity and edge finish on stainless steel up to 12 mm (1/2”). This is delivered through a new N2 HDi® process that prevents the mixing of air into the plasma gas, creating an improved, brighter edge finish.

Vented Water Injection™ (VWI) console
All Core console capabilities plus argon marking and a more than 10% increase in piercing thickness with argon-assist. Significantly enhanced stainless steel and aluminum capabilities are delivered with the addition of F HDi processes and patent pending Vented Water.

OptiMix™ console
All the capabilities of the Core and VWI consoles plus discrete 3-gas mixing – Ar, H2, and N2 – for the world’s most flexible, premium stainless steel and aluminum cutting capability.

---

### Table: XPR™ Plasma Cutting Performance

<table>
<thead>
<tr>
<th>Console</th>
<th>Cutting gases</th>
<th>Current (A)</th>
<th>Thickness (mm)</th>
<th>Approximate cutting speed (mm/min)</th>
<th>Thickness (in.)</th>
<th>Approximate cutting speed (ipm)</th>
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<tbody>
<tr>
<td><strong>Mild steel</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Core, VWI, and OptiMix</td>
<td>O2 plasma</td>
<td>30</td>
<td>0.5</td>
<td>5348</td>
<td>0.018</td>
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<tr>
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<td>O2 shield</td>
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<td>VWI and OptiMix</td>
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Accomplish more with ProNest

ProNest is an industry leading CAD/CAM nesting software designed for advanced mechanized cutting. It provides a single solution for all of your profile cutting needs, including plasma, laser, waterjet, and oxyfuel.

ProNest helps fabricators and manufacturers increase material savings, boost productivity, lower operating costs, and improve part quality by offering the highest level of cutting expertise.

The Hypertherm CAD/CAM difference

Across the globe, Hypertherm products are known for quality, consistency, and reliability, and it’s no different with our advanced CAD/CAM software.

More leading experts, including OEMs and distributors of cutting machines, choose ProNest than any other brand. It is the only software with full support for Hypertherm SureCut™ technology, including True Hole®, Rapid Part™, and True Bevel™, plus easy setup, and optimized process parameters.

Finally, ProNest is backed by Hypertherm’s global network of professionals, meaning you’ll always have access to the service and support you need.

Standard feature highlights

Machine support
- All major brands/manufacturers/models

Part design and development
- Integrated 2D CAD program to create and edit CAD files
- Variable Shape Parts feature to develop common parts from templates

CAD/CAM import and conversion
- Import CAD files (industry-standard file formats)
- Raster to vector converts static images to CAD
- Import Bill of Materials properties from CAD files
- Automatic CAD file correction and error notification
- Automatic spline/ellipse smoothing and reduction
- Separate multiple parts from a single CAD file
- Automatic mapping of CAD layers to processes (cut, mark)
- Automatic update of nest for part revisions
- Automatic part corner radiusing for optimized laser cycle time and part quality
ProNest® not only drive your machines, it is also a key component of your entire cutting and fabricating and everything in between. ProNest also connects to operation, moving seamlessly from quoting to reporting, ERP/MRP for real time date exchange.

Quoting tool including itemized part costs, secondary processes and markups.
CNC Clear Cut is the premiere manufacturer of CNC plasma tables in Africa. As the Channel Resource partner for Hypertherm in Africa, CNC Clear Cut machines are continually updated with the latest in software & technology.

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