EPL Plasma
Plasma Cutting Machines
EPL Plasma
3 Axes Series.

It offers the optimum solution to all your needs with its advanced accurate cutting quality, production line and automation.

Special plasma software and CNC controller enables the operator to use the machine with ease.

R&D engineering calculations; Knowledge gained from research has been integrated into the development of the main frame/body and moving bridge of the EPL Plasma Cutting Machine giving a higher cutting quality.

EPL Plasma Series is the best and most economical machine when looking at consumable part consumption.

Ermaksan offers consumables, parts and Hypertherm materials at very competitive prices.
Double motor technology
The cutting heads on the bridge which use the X1 X2 motors move separately. Capable to cut Parallel and mirror cutting. (Optional)

Oxygen cutting station
(Optional)

Suction Control Unit
It provides a healthy working place by filtering smoke that occurs during the cutting process. (Optional)

Linear Guideways
Guideways with high accuracy no backlash.

Rack and Pinion
Accurate and quiet racks.
The best choice for plasma with its high productivity and accurate cutting quality.

Advantages+

- High cutting technology.
- Minimum operating cost
- Long working life
- EDGE® Pro Controller
- HyDefinition® technology
- PowerPierce™ technology
- LongLife™ technology
- HPRXD® plasma source.
- TurboNest® nesting software.
Pneumatic sheet sliding system
(Optional)

Diverse Automation Solutions
Motorized sheet sliding system which is designed to fulfill operator requirements and saves time (Optional)

Plasma and oxygen cutting head together
(Oxygen cutting head optional)

New safety standards
SICK M 400 back light curtain which enables safety working and match the CE standards (Optional)
Standard Equipment

- **Hypertherm EDGE® Pro CNC**
  - 15" LCD industrial type touch screen
  - Hypertherm operator panel
  - Safety module input and output
  - Hypernet communication system
  - Remote connection interface
  - Phoenix interface
  - Metric and inch gauges.

- **HyPerformance® HPR130XD® plasma source**
  - Hypertherm manual gas console
  - Plasma marking

- **Arc Glide™ THC automatic height control system**
  - Hypernet communication system
  - Safety input-output interface module
  - Nozzle sensor
  - Collision sensor
  - 220 mm standard stroke
  - Laser Pointer

- **TurboNest® Cad/Cam software**

- **3 Axis (X,Y,Z)**
  - 3 pieces Mitsubishi AC servo motor and driver
  - 3 pieces planet type Neugart gear box
  - High accuracy linear rails
  - High accuracy an silent Atlanta Helis rack and pinion
  - X,Y,Z Axis Igus brand silent cable tray

- Cutting table with pneumatic system

- Moving control panel system

- 2 Emergency buttons

- 6 Mechanical stops
TurboNest®
Nesting
Software

Standard features highlights

Part creation 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 and CNC files (many industry-standard file formats)
- 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, etc.).

Interactive manual nesting
- Group parts into clusters for nesting.
- Drag, drop and bump parts on the nest.
- Duplicate, move, scale, mirror, rotate, or array parts.
- Prohibit / permit nesting inside of a part.
- Multi-sheet and multi-head nesting.
- Part interference detection.
- Edit lead-in / out position and properties within the nest.
- Grain constraint and edge pierce technology.
- Material database (with grade and gauge).
- Manual and automatic plate cropping.
- Safe zones for plate clamping applications.
- Automatic and manual nest sequencing.
- Control cut direction and cut sequencing on part-by-part basis.
- Animated cutting sequence simulation.

Built-in process parameters
- Material type, thickness, grade and class-based process parameters.
- Material type and thickness based lead-in / out parameters.
- Automatic and interactive separations for part, plate, and pierce spacing.

Reporting
- Management and shop reports.
- Export reports directly to PDF, Excel spreadsheet (*.xls), CSV (*.csv), or Web page (*.html).

Costing
- User-defined machine and labor production costing.
- Automatic calculation of part production costs and part/nest utilization.

Advantage+
- Better productivity
- Improved part quality
- Increased cost savings
- More efficient use
- Fewer errors
Designed to be flexible and easy to use, the EDGE Pro delivers reliable performance for improved profitability and application performance such as True Hole technology. Using Phoenix software, this CNC improves cut quality and productivity by delivering our expertise directly to your factory, giving the best results with every operator.

**Advantages+**

**Easy**
- Using the CutPro™Wizard new operators can be ready to cut production parts in less than 5 minutes.
- Built-in two-station operator’s console, with tactile joystick, speedpot, and torch position control for easy operation.
- Network and USB access for part program loading and software updates.
- Built-in help and cutting optimization tips for improving table performance and process outcomes on demand.

**Reliable**
- Durable glass touchscreen utilizing surface acoustic wave technology.
- Air cooling to reduce stress on electronic components without dust ingress.
- Designed and stress tested to ensure consistent operation in the harsh plasma cutting environment.
- Intuitive hardware service kit helps rapidly isolate system errors.

**Performance**
- Critical plasma, THC and table parameters can be controlled in the part program using Part Program Support (PPS) for repeatable cut quality.
- Watch Windows™ enable on-screen real-time monitoring of key process performance parameters while cutting.
- Custom cut charts can be created and controlled in the part program or made available to the CutPro Wizard.
- Support for fast transitions from marking to cutting.
Reliable, user friendly, high efficiency and applicability...

Ease of use: Phoenix software

- Built-in cut charts for automatically setting process parameters for mild steel, stainless, and aluminum to enable consistently optimized cutting performance. Wizards and diagnostic support tools that enable easy setup, use and rapid troubleshooting.

As easy as 1, 2, 3, cut! : CutPro™ Wizard

- In field trials, new operators began cutting high-quality parts in less than 5 minutes without training, drastically reducing the "hire to cut" time.

![CutPro™ Wizard Screenshots]

Remote Help

- Remote Help is an internet based tool that allows the manufacturer to be virtually in your factory within minutes. CNC, plasma system and cutting table diagnosis and repair can often be accomplished without an on-site visit. This means that machines can be up and running quickly and without costly travel and wait time.

Standard Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Windows® XPe</td>
</tr>
<tr>
<td>Hard drive</td>
<td>SATA drive</td>
</tr>
<tr>
<td>Display</td>
<td>15&quot; glass touchscreen (surface acoustic wave technology)</td>
</tr>
<tr>
<td>Memory</td>
<td>≥ 1GB</td>
</tr>
<tr>
<td>USB interface</td>
<td>Two USB 2.0 ports</td>
</tr>
<tr>
<td>Dimensions</td>
<td>435 mm (17.125”) W; 463 mm (18.22”) H; 316 mm (12.43”) D</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-10° C to 40° C ambient (14° F to 104° F ambient)</td>
</tr>
<tr>
<td>Warranty</td>
<td>Two-year warranty standard</td>
</tr>
<tr>
<td>Regulatory compliance</td>
<td>CE, CSA</td>
</tr>
<tr>
<td>Operator’s console</td>
<td>Two-station Opcon standard</td>
</tr>
<tr>
<td>Operating voltage and frequency</td>
<td>100 – 240V, 50/60 Hz</td>
</tr>
<tr>
<td>Software utilities</td>
<td>Part Program Support (PPS), Remote Help, networking, Autogas support, DXF import, and simple shape nesting</td>
</tr>
</tbody>
</table>
ArcGlide™ THC

Advantages+

- Superior cutting quality and ideal consumables life with arc voltage sampling and control.
- Up to 80% increases in parts per hour production by minimizing cut to cut cycle time.
- Ultimately strong mechanics under 2 years warranty.
- Easy to use human machine interface for under one minute fast job adjustment.
- Performance advantages are achievable with minimal operator input, eliminating the need for extensive training and allowing you to get the best performance across any shift with any operator at any plant.
Increase parts per hour

Up to 100% improvement in parts cut per hour by rapid ignition and movement optimization coded on software.

Decrease cost per part

ArcGlide THC continuously samples arc voltage and automatically adjusts arc voltage for proper torch height over the life of the consumables without requiring operator input.
HyPerformance® offers quality and sensitive cuts along with high productivity. HPR XD® plasma sources offer better general performance, productivity and profitability with its unique combination of superior technologies.

System Technology
(Shown on HPR130XD®)

Power source and chiller
- The addition of pump motor drives, fans, and eliminates the effect of frequency on the cooling water flow.

Manual Gas Console
- Provides HyDefinition cutting quality with LongLife Technology.
- Compensates for changes in the incoming gas pressure.
- Continuously measures and adjusts the flow of gas.

Torch
- Quick disconnect torch reduces installation time.

Power Supply
- Self calibrating current control for better current adjustment.
- High power element/productivity.
- Low fluctuation on exit current for lower arc voltage lapse and more stable plasma arc.
- Serial communication port on CNC for system surveillance.
- CAN serial communication between main modules for system stability.
- Long distance surveillance feature if CNC is connected to network.

HPR130XD® Operating data

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Dross free</th>
<th>Production pierce</th>
<th>Maximum cutting capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild steel cut capacity</td>
<td>16 mm</td>
<td>32 mm</td>
<td>38 mm</td>
</tr>
<tr>
<td>Stainless steel cut capacity</td>
<td></td>
<td>20 mm</td>
<td>25 mm</td>
</tr>
<tr>
<td>Aluminum cut capacity</td>
<td></td>
<td>20 mm</td>
<td>25 mm</td>
</tr>
</tbody>
</table>
Increased parts per hour

- HyPerformance Plasma systems provide faster cut speeds to produce more parts per hour.
- Hypertherm’s patented PowerPierce™ technology makes it possible to cut thicker than ever before and replace slower cutting technologies such as oxyfuel.
- HyPerformance Plasma’s superior quality and consistency maximize the number of parts produced per hour by minimizing time-consuming secondary operations.

Do more with less power

- HyPerformance Plasma enables extremely high cutting speeds per amp with less cutting current than other plasma solutions on the market.

Longer consumable life

- LongLife® and PowerPierce™ technologies significantly increase consumable life and reduce your cost per part.
- Hypertherm consumables are manufactured with the highest quality standards to ensure consistently longer life.

Do more with less power.

- Patented consumable designs enable industry-leading cutting speeds and robust production piercing using lower amperage levels.
- HyPerformance Plasma enables extremely high cutting speeds per amp with less cutting current than other plasma solutions on the market.
- Hypertherm’s power supplies are designed to be extremely efficient in their use of electricity, enabling lower electrical expense and a reduced impact on the environment.

### HPRXO plasma selections working data

<table>
<thead>
<tr>
<th>Mild steel cutting capacity</th>
<th>HPR260XD (30-260 amp)</th>
<th>HPR400XD (30-400 amp)</th>
<th>HPR800XD (30-800 amp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dross free</td>
<td>32 mm</td>
<td>38 mm</td>
<td>38 mm</td>
</tr>
<tr>
<td>Production piece</td>
<td>38 mm</td>
<td>50 mm</td>
<td>50 mm</td>
</tr>
<tr>
<td>Maximum cutting capacity</td>
<td>64 mm</td>
<td>80 mm</td>
<td>80 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stainless steel cutting capacity</th>
<th>HPR260XD (30-260 amp)</th>
<th>HPR400XD (30-400 amp)</th>
<th>HPR800XD (30-800 amp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production piece</td>
<td>32 mm</td>
<td>45 mm</td>
<td>75 mm</td>
</tr>
<tr>
<td>Maximum cutting capacity</td>
<td>50 mm</td>
<td>80 mm</td>
<td>160 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aluminium cutting capacity</th>
<th>HPR260XD (30-260 amp)</th>
<th>HPR400XD (30-400 amp)</th>
<th>HPR800XD (30-800 amp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production piece</td>
<td>32 mm</td>
<td>45 mm</td>
<td>75 mm</td>
</tr>
<tr>
<td>Maximum cutting capacity</td>
<td>50 mm</td>
<td>80 mm</td>
<td>160 mm</td>
</tr>
</tbody>
</table>

### Automatic gas console option

- Allows full control of all plasma system settings from the CNC, simplifying operator training requirements.
- Automatically changes processes on the fly to enable rapid switching between cutting and marking.
- Automatically adjusts for variations in incoming gas pressure to produce the most consistent cutting performance.
Ermaksan EPL series cutting machine provide more consistent cut quality and more powerful precision cutting which is Hypertherm’s patented technologies.

**HyDefinition® Technology**

- Mouthed nozzle technology aligns and focuses the plasma arc.
- HyDefinition technology enables powerful precision cutting for superior quality and consistency.

**LongLife® Technology**

- Hypertherm’s patented LongLife® technology increase and decrease gas flow and gradually to reduce electrode and nozzle erosion in extremely controlled manner.
- By reducing erosion of electrode and nozzle with LongLife®, longer period with more consistent quality of a cut while offers a significant reduction in operating cost.

**PowerPierce™ Technology**

- Patented PowerPierce liquid cooled shield repels molten metal during piercing
- For maximum pierce capability of up to 50 mm mild steel and 75 mm stainless steel.
- Patented consumable designs deliver speed and thickness capabilities expected of higher amp systems.
Ermaksan’s high-quality and high-precision cutting machine, never compromising on quality, manufactured with the customer in mind, right down to the smallest detail.

**Cable tray**
Comply with CE standards. Due to high quality plastic material used in the cable tray it encompasses quality, durability, resistance to abrasion, durability to heavy loads and resistance to breaks and protects the cable ducts.

**Linear guideways and carriages**
High-precision linear guideways and carriages are used in accordance with CE standards. So it provides high precision cutting results. Germany origin Atlanta helical rack used in accordance with CE standards and provides high precision cutting results, increased sensitivity range and cut quality. Also the sound caused by friction is minimized. Thread quality is $9e27$.

**Cutting table and pneumatic suction system**
PLC software follows the cutting head movements and individual pneumatic flaps at related cutting sector open; proves high efficiency suction of waste gas, dust and fume from working environment.

**Servo motor and planet type gear box**
Double driven synchronous brushless 3 pieces AC servo motors used on X and Y axes. With high-precision servo motor reaction times, drive and gear, high acceleration is provided.
### EPL Plasma 3 Axes Series Technical Data

<table>
<thead>
<tr>
<th>PLASMA SERIES</th>
<th>EPL 1530 Compact</th>
<th>EPL 2040 Compact</th>
<th>EPL 2060</th>
<th>EPL 20120</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUTTING WIDTH (A)</td>
<td>mm</td>
<td>1500</td>
<td>2000</td>
<td>2000</td>
</tr>
<tr>
<td>TOTAL WIDTH (B)</td>
<td>mm</td>
<td>2500</td>
<td>3700</td>
<td>3700</td>
</tr>
<tr>
<td>TOTAL HEIGHT (C)</td>
<td>mm</td>
<td>2280</td>
<td>2280</td>
<td>2280</td>
</tr>
<tr>
<td>INTER GAP (D)</td>
<td>mm</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>TORCH DISTANCE (E)</td>
<td>mm</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>CUTTING LENGTH</td>
<td>mm</td>
<td>3000</td>
<td>4000</td>
<td>6000</td>
</tr>
<tr>
<td>TABLE HEIGHT</td>
<td>mm</td>
<td>900</td>
<td>900</td>
<td>750</td>
</tr>
<tr>
<td>SPEED</td>
<td>m/min</td>
<td>35</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>MACHINE AXIS</td>
<td>-</td>
<td>X, Y, Z</td>
<td>X, Y, Z</td>
<td>X, Y, Z</td>
</tr>
<tr>
<td>POSITIONING ACCURACY</td>
<td>mm</td>
<td>± 0.1 DIN 28206</td>
<td>± 0.1 DIN 28206</td>
<td>± 0.1 DIN 28206</td>
</tr>
<tr>
<td>REPITITION ACCURACY</td>
<td>mm</td>
<td>± 0.05 DIN 28206</td>
<td>± 0.05 DIN 28206</td>
<td>± 0.05 DIN 28206</td>
</tr>
<tr>
<td>PLASMA CUTTING UNIT</td>
<td>-</td>
<td>Hypertherm 130XD</td>
<td>Hypertherm 130XD</td>
<td>Hypertherm 130XD</td>
</tr>
<tr>
<td>TORCH HEIGHT CONTROL</td>
<td>Hypertherm ArcGlide</td>
<td>Hypertherm ArcGlide</td>
<td>Hypertherm ArcGlide</td>
<td>Hypertherm ArcGlide</td>
</tr>
<tr>
<td>CUTTING CAPACITY</td>
<td>mm</td>
<td>1 - 38</td>
<td>1 - 38</td>
<td>1 - 38</td>
</tr>
<tr>
<td>ENERGY</td>
<td>400V, 50Hz, 6 bar air</td>
<td>400V, 50Hz, 6 bar air</td>
<td>400V, 50Hz, 6 bar air</td>
<td>400V, 50Hz, 6 bar air</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>kg</td>
<td>3750</td>
<td>4750</td>
<td>6750</td>
</tr>
<tr>
<td>Model</td>
<td>Cutting Width</td>
<td>Total Width</td>
<td>Total Height</td>
<td>Inter Gap</td>
</tr>
<tr>
<td>-------------</td>
<td>---------------</td>
<td>-------------</td>
<td>--------------</td>
<td>-----------</td>
</tr>
<tr>
<td>EPL 2560</td>
<td>2500</td>
<td>2500</td>
<td>2280</td>
<td>200</td>
</tr>
<tr>
<td>EPL 25120</td>
<td>4200</td>
<td>4200</td>
<td>2280</td>
<td>200</td>
</tr>
<tr>
<td>EPL 3060</td>
<td>2280</td>
<td>2280</td>
<td>2280</td>
<td>200</td>
</tr>
<tr>
<td>EPL 30120</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>EPL 4060</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>EPL 40120</td>
<td>6000</td>
<td>12000</td>
<td>6000</td>
<td>200</td>
</tr>
</tbody>
</table>
Optional Equipment

- Hypertherm Hydefinition Plasma Options
  - HPR260XD, HPR400XD, HPR800XD
  - Hypertherm automatic gas console

- Oxy cutting station
  - Messer-tanaka oxygen torch
    - Ermaksan automatic ignition system
    - IHT Automation capacitive distance and height control

- Manual angle cutting apparatus for oxygen and plasma

- 350mm and 500mm adjustable stroke for oxygen and plasma

- True Hole™ Technology
  - EDGE® Pro CNC Controller
  - ArcGlide™ torch height control
  - Hypertherm HPR XD® series
  - Hypertherm automatic gas console
  - ProNest® Cad/Cam software
  - 3 piece Beckhoff AC Servo Motor and driver
  - 3 piece planet type brushless harmonic drive gearbox

- Pipe cutting technology
  - Linatrol Infinity cnc controller
  - IHT M4000PCS 350mm stroke torch height control
  - Lantek Flex 3D + Lantek Expert II Cad/Cam software
  - Chuck and centering mechanism

- 5 axis plasma cutting technology
  - Esa Kvara cnc controller
  - Automatic gas console
  - Lantek Expert II software
  - Angle cutting head

- ProNest® Cad/Cam software
- Lantek Expert II Cad/Cam software
- Lantek Flex 3D Cad/Cam software
- Lantek Duct Cad/Cam software

- Linatrol Infinity CNC
  - Operator panel (1-8 station)
  - 19” LCD
  - Linatrol cut software

- Plasma filter unit
  - ER4000 = 4000m³/h flow
  - ER6000 = 6000m³/h flow
  - ER10000 = 10000m³/h flow

- Sick light barrier
- Online bypass features 3kva inform saver DSP UPS
- Air dryer
  - 600 lt./min flow 240V AC 50-60Hz
  - 0.5, 0.05, 0.001 Micron Particle Removal Filter

- Optional colours
- According to the working conditions cooling fan or heater can be add to the electrical panel
- Optional electrical voltage
- Conformity of European Union CE
ProNest®
Nesting Software

Standard Specifications

Part creation 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 and CNC files (many industry-standard file formats)
- 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, etc.)

Interactive manual nesting
- Group parts into clusters for nesting
- Drag, drop and bump parts on the nest
- Duplicate, move, scale, mirror, rotate, or array parts
- Prohibit / permit nesting inside of a part
- Multi-sheet and multi-head nesting
- Part interference detection
- Edit lead-in / out position and properties within the nest
- Automatically update nest with part revisions
- Grain constraint, automatic tabbing / micro-joints, edge pierce technology
- Material database (with grade and gauge), plate list and part library
- Manual and automatic plate cropping
- Safe zones for plate clamping applications
- Automatic and manual nest sequencing
- Control cut direction and cut sequencing on part-by-part basis
- Animated cutting sequence simulation

Built-in process parameters
- Material type, thickness, grade and class-based process parameters
- Material type and thickness based lead-in/out parameters
- Automatic and interactive separations for part, plate, and pierce spacing

Reporting
- Customizable management and shop reports
- Export reports directly to PDF, Excel spreadsheet (*.xls), or (*.csv)

Costing
- Detailed user-defined machine and labor production costing
- Automatic calculation of part production costs and part/nest utilization

Advantage+
- Better productivity
- Improved part quality
- User friendly
- Fast learning curve
- More efficient use
- Fewer errors
5 Axes Cutting Technology.

Offers an advanced solution with more multiple cutting angles. It offers potential savings from additional procedures with cutting of different contours without burr. Flexible operation with aluminium, stainless steel and mild steel.

Automatic angle adjusting technology maximizes your production time.

5 Axes Cutting Head
Operate your special drawings easily and sensitively with 5 axes cutting head which you can do angled cuts.
Add another dimension to your cutting capacity.
All angles are calculated automatically with 5 axes cutting technology. During the cutting process, it composes the angle value automatically, which the operator needs to enter. 5 axes cutting technology is a perfect solution for vertical and angular cuts.

Automatic angle adjustment provides time saving to the operator and removes the issues which could be caused by operator errors.
Impressive cuts: True Hole™ Technology

True Hole Technology, which has been developed for carbon steel, comes as standard with automatic gas consolled HPRXD® plasma system. Patented True Hole™ technology which was developed for carbon sheet, is a specific combination of cutting parameters which were optimised according to different hole sizes and material thicknesses.

With True Hole™, you acquire more consistent part dimensions and hence you need fewer second operations. When this technology is compared with other plasma systems in the market, it provides enhancement in quality up to 50% in cylinder holes opened on carbon steel.
Precise holes with True Hole™ Technology...

How is True Hole™ Technology obtained?
Achieved with EDGE® Pro Controller, ArcGlide™ THC, HPRXD®, Automatic gas system and ProNest® nesting software and well-matched cutting table.

True Hole™ technology of Hypertherm is a special combination of cutting parameters optimised for every single material thickness and hole dimensions:
- Performed gas type
- Gas flow
- Amper
- Drilling method
- Input/output technique
- Cutting speed
- Timing
Pipe Cutting Technology.

Ermaksan EPL Plasma series are designed for sensitive cuts on 50 – 400 diameter pipes and perfect cuts at pipes with 32 mm thickness. These machines have a large utilization area such as; tank manufacturing, pipe line etc. Also there is an option of making bevel cuts with the 5 axis cutting head.
Iht M4000 Pcs
Torch height control.

Chuck system with vacuum feature
Excellent efficiency with the vacuum and filter form through the pipe system.

Manual pipe support system
Manual pipe support system that provides the facility to cut 50 – 400 mm diameter pipes.
### Advantages+

- Sensitive and qualified cuts with Hypertherm XD® plasma source
- Meeting the high speed plasma cutting standards with impeccable filtration system thanks to inner pipe suction design.
- High precision for edge cuts and round cuts with the milled teeth helical rack and pinion.
- Manual support system that provides 50 – 400 diameter pipe cuts.
- Advanced Height control unit designed for plasma cutting.
- A design that protects mechanical parts from fumes or impacts.
- Infinity CNC control unit is easy to use and efficient
- Sofware Lantek Cad/Cam
- Marking speciality
- Feature of returning backward and continue to cut where ever needed.
- Large utilization area like tank manufacturing, pipe line etc.

<table>
<thead>
<tr>
<th>TECHNICAL FEATURES</th>
<th>EPL 1530</th>
<th>EPL 2040</th>
<th>EPL 2060</th>
<th>EPL 20120</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUTTING WIDTH (mm)</td>
<td>1500</td>
<td>2000</td>
<td>2000</td>
<td>2000</td>
</tr>
<tr>
<td>TOTAL WIDTH (mm)</td>
<td>3500</td>
<td>4700</td>
<td>4700</td>
<td>4700</td>
</tr>
<tr>
<td>TOTAL HEIGHT (mm)</td>
<td>2280</td>
<td>2280</td>
<td>2280</td>
<td>2280</td>
</tr>
<tr>
<td>INTER GAP (mm)</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>TORCH DISTANCE (mm)</td>
<td>0 – 200</td>
<td>0 – 200</td>
<td>0 – 200</td>
<td>0 – 200</td>
</tr>
<tr>
<td>CUTTING LENGTH (mm)</td>
<td>3000</td>
<td>4000</td>
<td>6000</td>
<td>12000</td>
</tr>
<tr>
<td>TABLE HEIGHT (mm)</td>
<td>750</td>
<td>750</td>
<td>750</td>
<td>750</td>
</tr>
<tr>
<td>SPEED (m/min)</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>PIPE CUT DIAMETERS MIN. – MAX. (mm)</td>
<td>Ø 050 - Ø 0400</td>
<td>Ø 050 - Ø 0400</td>
<td>Ø 050 - Ø 0400</td>
<td>Ø 050 - Ø 0400</td>
</tr>
<tr>
<td>MAX THICKNESS (MILD STEEL) (mm)</td>
<td>32</td>
<td>32</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>POSITIONING ACCURACY (mm)</td>
<td>± 0,1 DIN 28206</td>
<td>± 0,1 DIN 28206</td>
<td>± 0,1 DIN 28206</td>
<td>± 0,1 DIN 28206</td>
</tr>
<tr>
<td>REPOSITIONING ACCURACY (mm)</td>
<td>± 0,05 DIN 28206</td>
<td>± 0,05 DIN 28206</td>
<td>± 0,05 DIN 28206</td>
<td>± 0,05 DIN 28206</td>
</tr>
<tr>
<td>PLASMA CUTTING UNIT</td>
<td>Hypertherm 130XD</td>
<td>Hypertherm 130XD</td>
<td>Hypertherm 130XD</td>
<td>Hypertherm 130XD</td>
</tr>
<tr>
<td>TORCH HEIGHT CONTROL</td>
<td>Iht M4000 Pcs</td>
<td>Iht M4000 Pcs</td>
<td>Iht M4000 Pcs</td>
<td>Iht M4000 Pcs</td>
</tr>
<tr>
<td>CUTTING CAPACITIES (mm)</td>
<td>1 - 38</td>
<td>1 - 38</td>
<td>1 - 38</td>
<td>1 - 38</td>
</tr>
<tr>
<td>ENERGY (400V, 50Hz, 6 bar air)</td>
<td>4900</td>
<td>6050</td>
<td>8350</td>
<td>14850</td>
</tr>
<tr>
<td>WEIGHT (kg)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EPL 2560</td>
<td>EPL 25120</td>
<td>EPL 3060</td>
<td>EPL 30120</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------</td>
<td>-----------</td>
<td>----------</td>
<td>-----------</td>
</tr>
<tr>
<td>CUTTING WIDTH</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>mm</td>
<td>1500</td>
<td>2000</td>
<td>2000</td>
<td>2000</td>
</tr>
<tr>
<td>TOTAL WIDTH</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>mm</td>
<td>3500</td>
<td>4700</td>
<td>4700</td>
<td>4700</td>
</tr>
<tr>
<td>TOTAL HEIGHT</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>mm</td>
<td>2280</td>
<td>2280</td>
<td>2280</td>
<td>2280</td>
</tr>
<tr>
<td>INTER GAP</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>mm</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>TORCH DISTANCE</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>mm</td>
<td>0 - 200</td>
<td>0 - 200</td>
<td>0 - 200</td>
<td>0 - 200</td>
</tr>
<tr>
<td>CUTTING LENGTH</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>mm</td>
<td>3000</td>
<td>4000</td>
<td>6000</td>
<td>12000</td>
</tr>
<tr>
<td>TABLE HEIGHT</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>mm</td>
<td>750</td>
<td>750</td>
<td>750</td>
<td>750</td>
</tr>
<tr>
<td>SPEED m/min</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>PIPE CUT DIAMETERS MIN. – MAX.</td>
<td>Ø50 - Ø400</td>
<td>Ø50 - Ø400</td>
<td>Ø50 - Ø400</td>
<td>Ø50 - Ø400</td>
</tr>
<tr>
<td>MAX THICKNESS (MILD STEEL)</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>mm</td>
<td>32</td>
<td>32</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>POSITIONING ACCURACY</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>mm</td>
<td>± 0,1 DIN 28206</td>
<td>± 0,1 DIN 28206</td>
<td>± 0,1 DIN 28206</td>
<td>± 0,1 DIN 28206</td>
</tr>
<tr>
<td>± 0,05 DIN 28206</td>
<td>± 0,05 DIN 28206</td>
<td>± 0,05 DIN 28206</td>
<td>± 0,05 DIN 28206</td>
<td>± 0,05 DIN 28206</td>
</tr>
<tr>
<td>Hypertherm 130XD</td>
<td>Hypertherm 130XD</td>
<td>Hypertherm 130XD</td>
<td>Hypertherm 130XD</td>
<td>Hypertherm 130XD</td>
</tr>
<tr>
<td>Iht M4000 Pcs</td>
<td>Iht M4000 Pcs</td>
<td>Iht M4000 Pcs</td>
<td>Iht M4000 Pcs</td>
<td>Iht M4000 Pcs</td>
</tr>
<tr>
<td>1 - 38</td>
<td>1 - 38</td>
<td>1 - 38</td>
<td>1 - 38</td>
<td>1 - 38</td>
</tr>
<tr>
<td>400V, 50Hz, 6 bar air</td>
<td>400V, 50Hz, 6 bar air</td>
<td>400V, 50Hz, 6 bar air</td>
<td>400V, 50Hz, 6 bar air</td>
<td>400V, 50Hz, 6 bar air</td>
</tr>
<tr>
<td>9100</td>
<td>16850</td>
<td>9850</td>
<td>400V, 50Hz, 6 bar air</td>
<td>11350</td>
</tr>
</tbody>
</table>

**TECHNICAL FEATURES**

- **EPL 1530**
- **EPL 2040**
- **EPL 2060**
- **EPL 20120**
- **EPL 2560**
- **EPL 25120**
- **EPL 3060**
- **EPL 30120**
- **EPL 4060**
- **EPL 40120**
HEB Profile Cutting Technology.

Ermaksan EPL Plasma series enables to cut between 100mm - 600mm with high precision cutting on the IPN, IPE, IPB, HEA and HEB type of profiles. Optionally, the desired custom sizes and applications can be worked. These machines have a wide range of usage area like construction industry, machinery and defense industry.
Extremely reliable

In Ermaksan EPL plasma series, filter unit is an option. The heavy particles emerging during the cut should be taken away as much as possible. Filtering unit is designed specially for filtering the gas and particles. With this unit the dirty dust is removed, leaning a safe & clean working environment.

Advantages+

- Clean working ambiance
- Integrated burr separator inhibiting sparks and heavy particles to Reach into the filtering unit during cutting.
- 99.9% filtration efficiency according to EN 60335/2/69.
- Synchronized automatic start and stop from CNC cutting frame as command
Oxygen Cutting Technology

Station Characteristics

- With Messer-Tanaka oxygen torch; 10 to 120 mm cutting potentiality (300 mm as optional).
- IHT automation capacitive distance and height control.
- IHT automation collision sensor.
- 220 mm standard stroke.
- 350 mm stroke.
- 500 mm stroke.
- 60 mm circle sensor.
- 35 mm circle sensor (optional).
- 75 mm circle sensor (optional).
- Ermaksan auto ignition system.
- Flame is blocked to return to hose from the edge of torch thanks to Messer rebound safety valves.
- Oxygen cutting gas adjustments are done with free of problems thanks to regulator block of cutting, LPG, low and high annealing gases.
- The annealing duration decreases thanks to high annealing valves and thus cutting period is minimised.
- +/- 45 degree manual angled cutting apparatus for oxygen (optional).
Diverse Production Solutions
Pipe Cutting EPL Plasma

Impressive Integration : Pipe Cutting EPL Plasma
Ermaksan is continually developing to meet current demands. It can offer practical tailored solutions to suit special requests.

The pipe cutting EPL Plasma Series, is designed for cutting pipes with 12 m length and 600 mm diameter. It enables loading with the Automation System, accurate cutting with advanced technology.