

PLASMA CUTTING
TECHNOLOGIES

PLASMA CUTTING



• SMART PLASMA

• EPL 3/5 AXIS PLASMA



ERMAKSAN
INNOVATIVE TECHNOLOGIES

www.ermaksan.com.tr

"Ermaksan is a global technology company that offers innovative solutions to industrial life."



Who are we ?

Ermaksan produces innovative, high-quality, and high value-added products and solutions with its brands. In its journey exceeding half a century, it has been taking determined steps towards the future by maintaining its strong stance in the fields of sheet metal processing, additive manufacturing, optoelectronics, and advanced defence technologies.

Continuing its investments on the path of sustainable growth without slowing down, Ermaksan contributes to efficient production in more than 120 countries through ERMAKUSA in the USA, ERMAK Deutschland GmbH in Germany and its various other distinguished dealers around the world. In order to meet the customer expectations of today's rapidly changing world and to offer the manufacturing technologies of the future today, the company produced Turkey's first metal 3D printer with the brand ERMAKSAN ADDITIVE and offered it to the additive manufacturing industry. EON PHOTONICS brand, which has Turkey's first private sector semiconductor Optoelectronic R&D centre, continues its production and development activities of high-tech products such as laser technologies, FBG sensors, CNC controllers, and Industry 4.0 applications.

With the innovative perspective of 21st century, Ermaksan continues its activities with the aim of being among the world's leading manufacturers in the fields of technology and R&D. By constantly monitoring new trends and customer expectations, Ermaksan designs and manufactures advanced technology, high value-added, environmentally friendly and energy-saving machines, and takes firm steps towards a more sustainable future by using resources effectively and efficiently.

Plasma Cutting Technologies

Ermaksan plasma cutting machines are engineered to excel under the most demanding production conditions, combining advanced technologies with robust performance. Designed for longevity, our machines deliver high precision and efficiency with both oxygen and plasma cutting heads, making them versatile tools for various applications.

At Ermaksan, we understand that each operation has unique requirements. That's why our plasma cutting machines are customizable, offering special sizes, cutting capabilities, and automation adaptations tailored to your specific needs. Whether you're working in a sheet metal processing workshop or a shipyard, our machines are designed to meet the highest standards of performance and productivity.

Our commitment to quality ensures that Ermaksan plasma cutting machines are built with durable components, providing reliability and exceptional results even in the toughest cutting tasks. Trust Ermaksan to be your partner in achieving maximum efficiency and superior performance in all your cutting operations.



EPL 3/5 AXIS PLASMA

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SMART PLASMA

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EPL 3/5 AXIS PLASMA

Next Generation
Plasma Technology



XPR/HPR
plasma power
supplies

True Bevel™
technology

True Hole™
technology

PlateSaver™
technology

Pipe and profile
cutting technology

Oxygen cutting
station

Unmatched Precision, Maximum Productivity

Discover the excellence of the EPL Plasma series cutting systems, engineered for exceptional performance and longevity. Built with a robust structure that combines dynamic and static rigidity, these machines are designed to deliver reliable cutting capabilities for many years.

Our EPL Plasma machines are powered by advanced Hypertherm technologies, available with XPR and HPR series options tailored to your needs. Experience a remarkable improvement in operational efficiency with over 40% longer consumable life and more than 50% reduction in operating costs. Elevate your cutting capabilities with our optional 5-axis cutting technology, which allows for bevel cuts at multiple angles. This advanced feature ensures precision in vertical and bevel cuts, while the automatic angle adjustment minimizes operator errors and maximizes time savings. Even in the most demanding production environments, the EPL Plasma series stands out, providing you with the power and efficiency needed to excel.



HIGH CUTTING QUALITY

The XPR series integrates cutting-edge technology with advanced cutting processes to deliver next-generation X-Definition™ quality. Whether cutting black sheet metal, stainless steel, or aluminum, the XPR takes HyDefinition™ cutting quality to new heights, ensuring superior precision and excellence in every cut.



LONG-TERM SAVINGS

With advanced power supply technology and real-time system feedback, our cutting machines automatically adjust to optimize performance and extend the life of consumables. This proactive approach ensures that inefficiencies are addressed immediately, leading to significant long-term savings on both operational costs and maintenance.

LOW ENERGY CONSUMPTION

Designed with energy efficiency and minimal resource use in mind, our cutting machines maximize productivity and savings while minimizing environmental impact. By focusing on reducing energy consumption, we ensure that our equipment not only performs efficiently but also contributes to a more sustainable future.

LOW OPERATING COST

Achieve over 40% longer consumable life and reduce operating costs by more than 50%. Our advanced technology not only extends the lifespan of your consumables but also significantly cuts down on overall operational expenses, providing you with exceptional cost-efficiency and value.

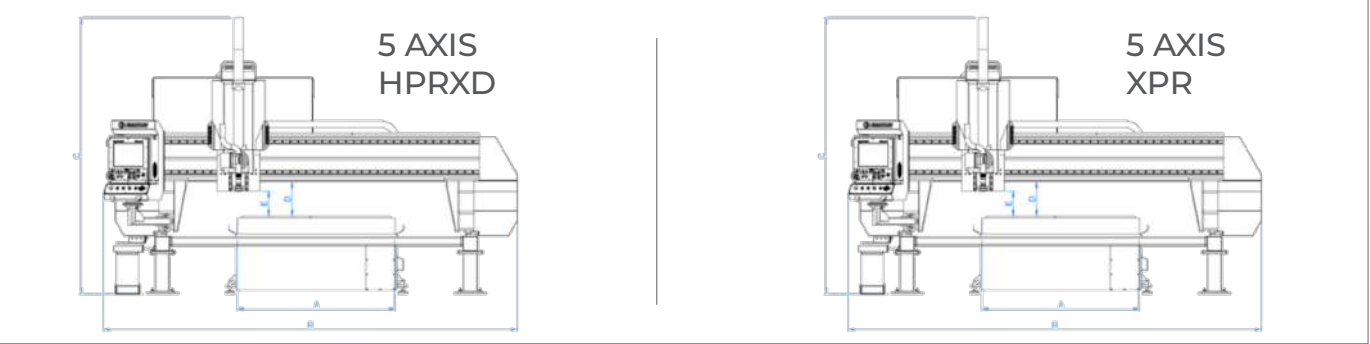
EASY OPERATION

Our system simplifies operation by automatically setting and controlling optimized cutting parameters with just a single step. This approach ensures consistent, high-quality results and minimizes the need for operator intervention, streamlining your workflow and enhancing efficiency.

FLEXIBLE SOLUTIONS

Our system provides versatile solutions tailored to your needs, accommodating various automation requirements while ensuring ease of use for operators. Its adaptable design allows for seamless integration with automated processes, enhancing both flexibility and user convenience.

GENERAL SPECIFICATIONS



STANDARD EQUIPMENT
• Hypertherm EDGE Connect TC CNC
- 19" LCD Industrial Type Touch Screen
- Hypertherm Operator Panel
- Safety Module Input and Output
- Ethercat Communication System
- Remote Connection Interface
- Phoenix Interface
- Metric and Inch Gauges
• Hypertherm XPR300 Plasma Source
- Hypertherm Core Gas Console
- Plasma Marking
• ERMAK THC Automatic High Control System
- Ethercat Communication System
- Safety Input-Output Interface Module
- Nozzle Sensor
- Collision Sensor
- 300 mm Standard Stroke
- Laser Pointer
- Plasma Marking
• 5 Axis Cutting Head IMATECHNO
• ProNest® CAD / CAM Software
• 5 Axis (X, Y, Z, A, B)
- 5 Pieces Mitsubishi AC Servo Motor and Driver
- 5 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
• 2 Emergency Buttons
• 6 Mechanical Stops
• True Bevel™ Technology
• True Hole™ Technology

OPTIONAL EQUIPMENT
• Hypertherm HPR400XD Automatic Gas Console
• Hypertherm HPR800XD Automatic Gas Console
• Hypertherm XPR 170/300/460 Core Automatic Gas Console
• Hypertherm XPR 170/300/460 Core Plus Automatic Gas Console
• Hypertherm XPR 170/300/460 VWI Automatic Gas Console
• Hypertherm XPR 170/300/460 Optimix Automatic Gas Console
• Oxy-fuel Cutting System
• Filter Unit
• -/+45° Manuel Bevel Cutting Adaptor for Oxy-Fuel & Plasma
• 350 mm & 500 mm Changeble Stroke for Oxy-Fuel & Plasma
• Light Barrier
• Air Drier
• According to the Working Conditions Cooling Fan or Heater
Can Be Add to the Electrical Panel
• Optional Electrical Voltage

5 AXIS HPRXD TECHNICAL SPECIFICATIONS

PLASMA CUTTING UNIT		EPL 1530	EPL 2040	EPL 2060	EPL 20120	EPL 2560	EPL 25120	EPL 3060	EPL 30120	EPL 4060	EPL 40120
CUTTING WIDTH (A)	mm (inch)	1500 (59)	2000 (79)	2000 (79)	2000 (79)	2500 (98)	2500 (98)	3000 (118)	3000 (118)	4000 (157)	4000 (157)
TOTAL WIDTH (B)	mm (inch)	4200 (165)	4700 (185)	4700 (185)	4700 (185)	5200 (205)	5200 (205)	5700 (224)	5700 (224)	6400 (252)	6400 (252)
TOTAL HEIGHT (C)	mm (inch)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)
WEIGHT (D)	mm (inch)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)
TORCH DISTANCE (E)	mm (inch)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)	300 (12)
CUTTING LENGHT	mm (inch)	3000 (118)	4000 (157)	6000 (236)	12000 (472)	6000 (236)	12000 (472)	6000 (236)	12000 (472)	6000 (236)	12000 (472)
TABLE HEIGHT	mm (inch)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)
SPEED	m/ min.	20	20	20	20	20	20	20	20	20	20
MACHINE AXIS	-	X, Y, Z, A, B									
POSITIONING ACCURACY	mm (inch)	± 0,01 DIN 28206 (± 0,0039 DIN 28206)									
POSITION REPEATABILITY ACCURACY	mm (inch)	± 0,05 DIN 28206 (± 0,0019 DIN 28206)									
PLASMA CUTTING UNIT		Hypertherm HPR400XD									
TORCH HEIGHT CONTROL		Ermak THC									
CUTTING CAPACITY	mm (inch)	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")
ENERGY		400V, 50Hz, 8 Bar Air									
WEIGHT	kg (lbs)	5150 (11369)	6650 (14680)	8150 (17991)	13550 (29912)	9200 (20309)	15850 (34989)	9950 (21965)	16900 (37307)	13400 (29581)	23500 (51876)

5 AXIS XPR TECHNICAL SPECIFICATIONS

PLASMA CUTTING UNIT		Hypertherm XPR 300									
CUTTING CAPACITY	mm (inch)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)	1-80 (.039-3,14)
WEIGHT	kg (lbs)	5500 (12141)	7000 (15453)	8500 (18764)	13900 (30684)	9550 (21082)	16200 (35762)	10300 (22737)	17250 (38079)	13750 (30353)	23850 (52649)

* All specifications subject to change without notice.

5 AXIS CUTTING HEAD

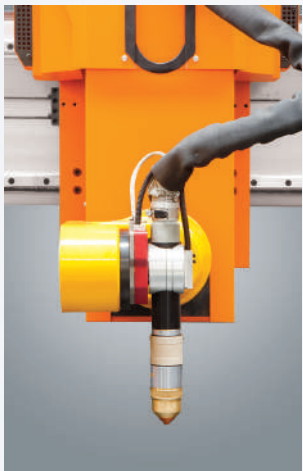
All angles are calculated automatically with 5 axis cutting technology. During the cutting process, it composes the angle value automatically, which the operator needs to enter. 5 axis cutting technology is a perfect solution for vertical and angular cuts.

Automatic angle adjustment provides time saving to the operator and removes the issues which could be caused by operator errors.



TRUE BEVEL TECHNOLOGY

As part of Hypertherm's SureCut™ technology, True Bevel™ technology for HPRXD® and XPR™ plasma systems is a performance application for mild steel. Factory tested and easily implemented, it takes the guesswork out of the plasma bevel-cutting process. With True Bevel, setups for new jobs are quick and results are accurate and consistent.



• Cutting head moves up and down with Z axis right and left with x axis.



• Can move totally +50 and 60° degrees at A axis.



• Can move totally +50 and 60° degrees at B axis.

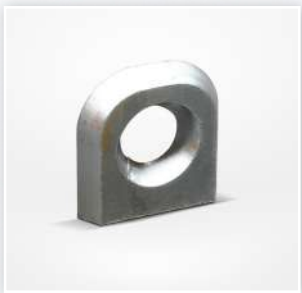


BEVEL ANGLE & LAND DENSITY COVERAGE

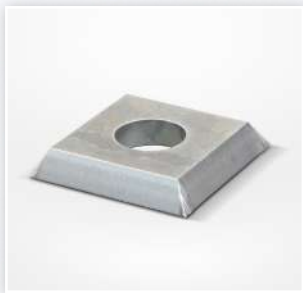
True Bevel™ for XPR300® has angle coverage for V and Top Y cuts up to 50° and A cuts up to 45°. The tables contain values for lands ranging from 20% to 50% of the material thickness for Y Top cuts. You can add other angles and land dimensions within the specified ranges into the bevel process parameter tables for more flexibility. The tables automatically provide newly calculated output values for angle compensation, kerf, cut height, cut speed, and arc voltage.



• 25 mm Mild Steel



• 25 mm Mild Steel



• 25 mm Mild Steel



BENEFITS

- Automatically bolt hole without operator intervention quality offered
- Close the gap between the laser hole quality and the plasma process. Makes it a convenient option for many laser-cut jobs
- Completely eliminates hole taper
- Resonant is minimal and deflected out of the hole
- Provides true bolt hole “quality”

XPR 460

An unrivaled range of cutting versatility and power

Part of the Hypertherm XPR® family, the XPR460 delivers the most consistent cut quality, thicker cutting capability, and faster cutting speeds in its class increasing productivity and lowering operating costs.



Widest versatility expands capabilities

- Provides superior cutting versatility for mild steel, stainless steel, and aluminum
- Offers the widest range of cutting power for various metals and thicknesses
- Delivers high-quality, consistent cutting on imperfect metal surfaces, including paint and rust

Optimized productivity drives lower operating costs

- Maximum power optimizes productivity by delivering higher cut quality, thicker cutting capability, and faster cutting speeds
- Argon-assist technology enables piercing and edge-starting on the thickest mild steel and stainless steel
- Cuts with oxygen up to 460 amps, delivering the best cutting outcomes on mild steel
- Exclusive Arc Response Technology™ intervenes in adverse events to preserve consumable life and prevent torch damage

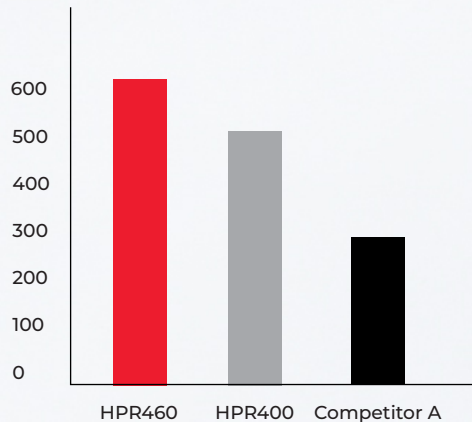
Precision cutting reduces secondary operations

- Delivers excellent part-to-part consistency over consumable life from the first cut to the last
- Provides a smooth surface, low angularity, and minimal to no dross for clean parts off the table
- XPR embedded technology improves 45° bevel cut quality on thick material making the welding process more efficient
- Exclusive SureCut™ technology delivers improved outcomes by automatically embedding advanced cutting capabilities into our plasma cutting process

Mild steel	mm	inches
Production pierce capacity	50	2
Enhanced pierce capacity (argon-assist piercing)*	64	2.5
Production severance	90	3.5
Enhanced severance (argon-assist cutting)*	102	4
Stainless steel		
Production pierce capacity	38	1.5
Enhanced pierce capacity (argon-assist piercing)*	63	2.5
Production severance	90	3.5
Enhanced severance (argon-assist cutting)*	130	5
Aluminum		
Production pierce capacity (N2 shield gas)	38	1.5
Enhanced pierce capacity (argon-assist piercing)*	63	2.5
Production severance	80	3

* Delivers excellent part-to-part consistency over consumable life from the first cut to the last

Number of 20-second starts with 5% ramp-down errors 25 mm (1") mild steel



POWER YOUR
PROFITABILITY



XPR 300

The most significant advance in mechanized plasma cutting technology redefines what plasma can do.

Widest versatility expands capabilities

Industry leading cut quality–X-Definition The XPR advances HyDefinition® cut quality by blending new technology with refined processes for next generation, X-Definition™ cutting on mild steel, stainless steel and aluminum.

- Consistent ISO range 2 results on thin mild steel and extended range 3 cut quality on thicker mild steel and stainless steel
- Superior results on aluminum using Vented Water Injection™ (VWI)
- Optimized productivity and reduced operating costs
- Significantly reduced operating costs than previous generation technology
- Increased cut speeds on thicker materials
- Dramatic improvement in consumable life on mild steel applications
- Thicker piercing capability than competitive plasma systems

Engineered system optimization and ease of use

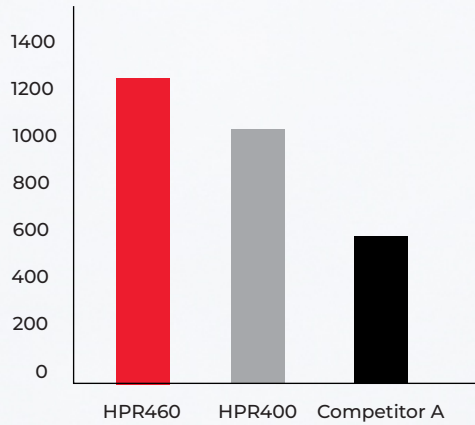
- Ramp down error protection significantly increases realized consumable life
- Reduces the impact of catastrophic electrode blow-outs which can damage the torch at high current levels
- Automatic system monitoring and specific troubleshooting codes for improved maintenance and service prompts
- EasyConnect™ torch lead and one hand torch-to-receptacle connection for fast and easy change-outs
- QuickLock™ electrode for easy consumable replacement
- WiFi in the power supply can connect to mobile devices and network mode for multiple system monitoring and service



Mild steel	mm	inches
Production pierce capacity (air shield gas)	45	1-3/4
Enhanced pierce capacity (argon-assist shield gas)*	50	2
Severance	80	3-1/8
Stainless steel		
Pierce capacity	38	1-1/2
Severance	75	3
Aluminum		
Pierce capacity	38	1-1/2
Severance	50	2

*Argon-assist technology for thicker piercing is available with CorePlus, VWI and OptiMix gas consoles.

Number of 20-second starts with 5% ramp-down errors 20 mm (3/4") mild steel



XPR 170

The XPR170 delivers next generation X-Definition processes from very thin up to mid-range thicknesses.

Widest versatility expands capabilities

Industry leading cut quality–X-Definition The XPR advances HyDefinition® cut quality by blending new technology with refined processes for next generation, X-Definition™ cutting on mild steel, stainless steel and aluminum.

- Superior stainless steel cut quality
- Consistent ISO range 2 results on thin mild steel and extended range 3 cut quality on thicker mild steel and stainless steel
- Superior results on aluminum using Vented Water Injection™ (VWI)
- Optimized productivity and reduced operating costs
- Significantly lower operating costs than previous generation technology
- Dramatic improvement in consumable life on mild steel applications
- Thicker piercing capability than competitive plasma systems

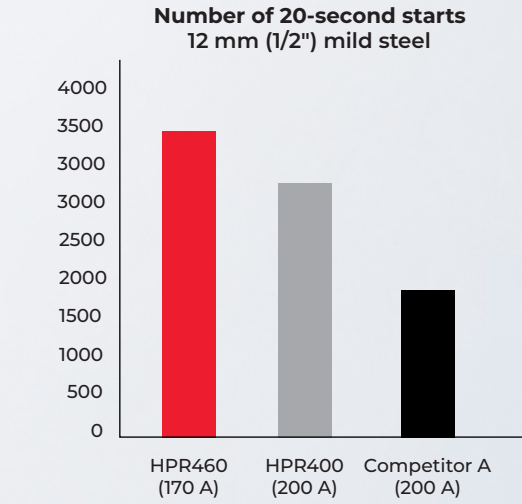
Engineered system optimization and ease of use

- Ramp down error protection significantly increases realized consumable life
- Automatic system monitoring and specific troubleshooting codes for improved maintenance and service prompts
- EasyConnect™ torch lead and one hand torch-to-receptacle connection for fast and easy change-outs
- QuickLock™ electrode for easy consumable replacement
- WiFi in the power supply can connect to mobile devices and network mode for multiple system monitoring and service



Mild steel	mm	inches
Production pierce capacity (air shield gas)	35	1-3/8
Enhanced pierce capacity (argon-assist shield gas)*	40	1-9/16
Severance	60	2-3/8
Stainless steel		
Pierce capacity	22	7/8
Severance	38	1-1/2
Aluminum		
Pierce capacity	25	1
Severance	38	1-1/2

*Argon-assist technology for thicker piercing is available with CorePlus, VWI and OptiMix gas consoles.



POWER SOURCE AND CHILLER

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



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.

HPR400XD® OPERATING DATA

MILD STEEL CUT CAPACITY

Dross free	38 mm (1-1/2")
Production pierce	50 mm (2")
Maximum cutting capacity	80 mm (3/2")

STAINLESS STEEL CUT CAPACITY

Production pierce	45 mm (1-3/4")
Maximum cutting capacity	80 mm (3,2")

ALUMINUM CUT CAPACITY

Production pierce	45 mm (1-3/4")
Maximum cutting capacity	80 mm (3,2")

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.

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 slowercutting 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.

HPRXD PLASMA SELECTIONS WORKING DATA

MILD STEEL CUTTING CAPACITY

	HPR400XD (30-400 amp)	HPR800XD (30-800 amp)
• Dross Free	38 mm (1-1/2")	38 mm (1-1/2")
• Production pierce	50 mm (2")	50 mm (2")
• Maximum cutting capacity	80 mm (3,2")	80 mm (3,2")

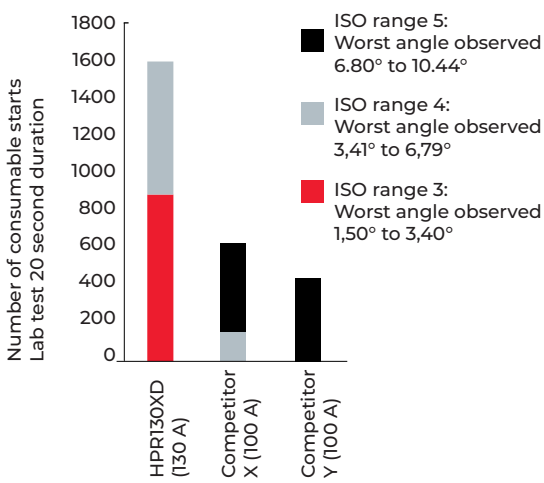
STAINLESS STEEL CUTTING CAPACITY

• Production pierce	45 mm (1-3/4")	75 mm (3")
• Maximum cutting capacity	80 mm (3,2")	160 mm (6-1/4")

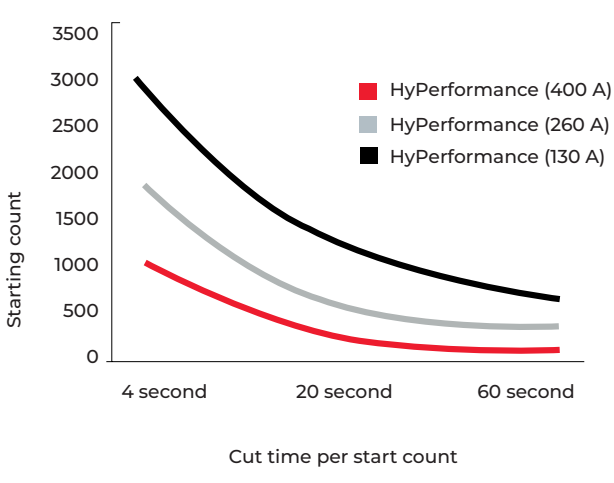
ALUMINIUM CUTTING CAPACITY

• Production pierce	45 mm (1-3/4")	75 mm (3")
• Maximum cutting capacity	80 mm (3,2")	160 mm (6-1/4")

Life long cut quality (130 A)



Longer consumable life



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.

XPR SERIES



CORE™ CONSOL

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.

CORE PLUS™ CONSOL

Like the Core, the CorePlus console offers full X-Definition capability on mild steel and entry-level capability on stainless steel and aluminum with nitrogen as its plasma gas. This includes particularly good results on thin stainless steel through the Hypertherm HDi cutting process. As the other XPR gas consoles, the CorePlus console can be fully controlled through the CNC for high productivity and ease of use.

VENTED WATER INJECTION™ (VWI) CONSOL

True Bevel™ for XPR300® has angle coverage for V and Top Y cuts up to 50° and A cuts up to 45°. The tables contain values for lands ranging from 20% to 50% of the material thickness for Y Top cuts. You can add other angles and land dimensions within the specified ranges into the bevel process parameter tables for more flexibility. The tables automatically provide newly calculated output values for angle compensation, kerf, cut height, cut speed, and arc voltage.

OPTIMIX™ CONSOL

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.

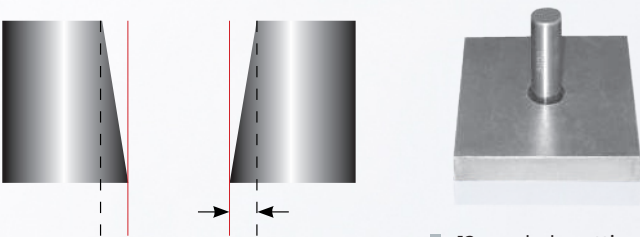
True Hole™ Technology

Standard

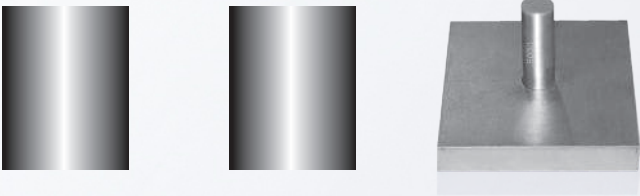
True Hole Technology, which has been developed for carbon steel, comes as standard with XPR 300 and automatic gas consolded of HPRXD® plasma system. Patented True Hole™ technology which was developed for carbon sheet, is a specific combination of cutting parameters which were optimised according to different 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.



12 mm hole cutting without True Hole Technology



12 mm hole cuts with True Hole Technology

PRECISE HOLES WITH TRUE HOLE™ TECHNOLOGY...



How is True Hole™ Technology obtained?

Achieved with EDGE® Connect Controller, Ermak THC, HPRXD®, XPR, 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

Gas-connect console gases/fluids				
	Core	Core Plus	Vented Water Injection (VWI)	OptiMix
O ₂ /N ₂ /Hava	●	●	●	●
O ₂ /N ₂ /Hava/Ar		●	●	●
O ₂ /N ₂ /Hava/Ar/F5/H ₂ O ₂			●	●
O ₂ /N ₂ /Hava/Ar/ F5/H ₂ O ₂ / H ₂ -N ₂ -Ar Mix				●

Gelişmiş Torç Geometrisi

Superior bevel capability and performance thanks to an enhanced tapered torch design that features a 76° included angle and bevel rotation of up to 52°.



EDGE[®] Connect CNC



New with EDGE[®] Connect CNC

- Hypertherm's Phoenix[®] version 10 CNC software
- Microsoft Windows 10 embedded operating system
- ProNest[®] CNC automatic nesting with process optimization
- Internal Programmable Logic Controller (PLC) and software-based operator's console that enable unique cutting machine features
- EtherCAT machine interface for easy connectivity and superior motion
- Integrated 495 mm projected capacitive touch screen available on some models

Easy to Use

Hypertherm's proprietary Phoenix software is common across the entire family of CNCs. This software is designed specifically for the X-Y and bevel cutting market. Through years of cutting experience, Hypertherm[®] engineers have learned the critical parameters to achieve superior cut quality on every part.

Phoenix CNC software improves cut quality and productivity by delivering our expertise directly to your factory, making it as if you have your best operator on every shift.

- Using the patented CutPro[®] Wizard, even new operators can be ready to cut production parts in less than five minutes
- On-screen Software Operator's Console (SoftOpCon) for easy setup and operation of cutting station and manual motion
- One touch access to supporting documentation including cutting optimization tips, consumable change instructions and diagnostic tools in multiple languages
- Integrated communications with plasma and torch height control systems deliver automated and expert control using installed factory or custom cut charts
- Custom cut chart scan can be created and controlled in the part program or made available to the CutPro Wizard
- Configurable Watch Windows[™] enable on-screen real-time monitoring of key process performance parameters while cutting



■ Edge connect TC



■ Integrates the EDGE Connect CNC into an industrial enclosure with a 495 mm (19.5") touchscreen.



■ A hardware operator's console with switches for start, stop, program and manual speed control, raise/lower torch and joystick is included for easy operation.

For a Better Quality Performance at Any Point

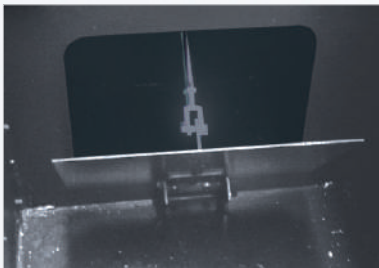
Ermaksan's high-quality and high-precision cutting machine, never compromising on quality, manufactured with the customer in mind, right down to the smallest detail.



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.



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.

ERMAK THC

- 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.



ERMAK THC (Torch High Control)

STANDARD EQUIPMENT	OPTIONAL EQUIPMENT
• Hypertherm EDGE Connect TC CNC	• Hypertherm HPR400XD Automatic Gas Console
- 19" LCD Industrial Type Touch Screen	• Hypertherm HPR800XD Automatic Gas Console
- Hypertherm Operator Panel	• Hypertherm XPR 170/300/460 Core Automatic Gas Console
- Safety Module Input and Output	• Hypertherm XPR 170/300/460 Core Plus Automatic Gas Console
- Ethercat Communication System	• Hypertherm XPR 170/300/460 VWI Automatic Gas Console
- Remote Connection Interface	• Hypertherm XPR 170/300/460 Optimix Automatic Gas Console
- Phoenix Interface	• Oxy-fuel Cutting System
- Metric and Inch Gauges	• Filter Unit
• Hypertherm XPR170 Plasma Source	• -/+45° Manuel Bevel Cutting Adaptor for Oxy-Fuel & Plasma
- Hypertherm Core Automatic Gas Console	• 350 mm & 500 mm Changeble Stroke for Oxy-Fuel & Plasma
- Plasma Marking	• Light Barrier
• ERMAK THC Automatic High Control System	• Air Drier
- Ethercat Communication System	• According to the Working Conditions Cooling Fan or Heater
- Safety Input-Output Interface Module	Can Be Add to the Electrical Panel
- Nozzle Sensor	• Optional Electrical Voltage
- Collision Sensor	
- 220 mm Standard Stroke	
- Laser Pointer	
• ProNest® 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	
• Pilz Safety PLC Module	
• 2 Emergency Buttons	
• 6 Mechanical Stops	

SMART PLASMA

Affordable
Plasma Technology



MaxPro/Powermax
plasma power supplies

Auto gas
console opt.

ProNest LT
software

Compact
structure

Oxygen cutting
option

Filter unit

High Productivity, Economical Solutions

The EPL Smart Plasma Series stands out as a top-tier, cost-effective solution for plasma cutting needs, utilizing advanced plasma and oxygen cutting technologies. Equipped with Hypertherm's MAXPRO power unit, the EPL Smart Plasma Series excels in high tonnage and high-capacity applications. For tasks demanding faster cutting speeds, the POWERMAX unit is the ideal choice. Designed to maximize production efficiency, the EPL Smart Plasma Series combines high-quality components with economical operation. It ensures superior performance while offering significant savings on both investment and operational costs, making it a smart choice for boosting productivity and maintaining budgetary control.



LOW COSTS

Achieve exceptional precision while minimizing costs by utilizing only oxygen gas for cutting. The EPL Smart Plasma Series is designed to lower your cutting expenses, making it a cost-effective choice for high-quality results.

EASY OPERATION

Simplify your workflow with automatic, optimized cutting parameters. The EPL Smart Plasma Series adjusts settings in a single step without requiring operator intervention, guaranteeing consistent and reliable results.

ADVANCED TECHNOLOGY

Incorporates state-of-the-art plasma technology for superior cutting precision and efficiency. The EPL Smart Plasma Series integrates the latest advancements, offering cutting-edge performance and innovation.



HIGH PRODUCTIVITY

Maximize your production efficiency with unmatched cutting speeds and rapid transitions. The EPL Smart Plasma Series delivers superior cutting quality, even in the most demanding applications, ensuring peak productivity.

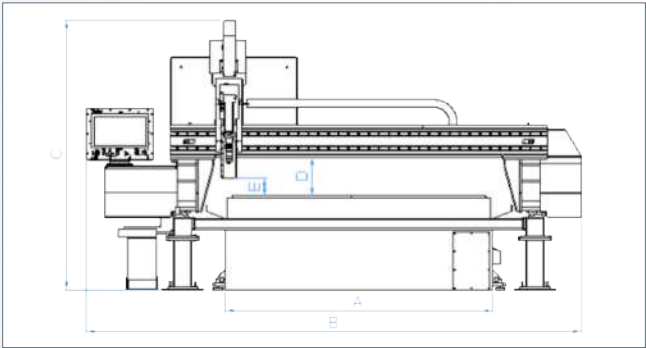
ENHANCED DURABILITY

Constructed with robust components and advanced materials, the EPL Smart Plasma Series is built to withstand rigorous use. This durability ensures long-lasting performance and reduces maintenance needs, providing dependable operation over time.

VERSATILE APPLICATIONS

Adaptable to a wide range of materials and thicknesses, the EPL Smart Plasma Series excels in various cutting tasks. Its versatility makes it suitable for diverse industrial applications, from intricate designs to heavy-duty projects.

GENERAL SPECIFICATIONS



STANDARD EQUIPMENT
• Hypertherm EDGE Connect TC CNC
- 19" LCD Industrial Type Touch Screen
- Hypertherm Operator Panel
- Safety Module Input and Output
- Ethercat Communication System
- Remote Connection Interface
- Phoenix Interface
- Metric and Inch Gauges
• Hypertherm MaxPro200® Plasma Source
- Hypertherm Automatic Gas Console
• ERMAK THC Automatic High Control System
- Ethercat Communication System
- Safety Input-Output Interface Module
- Nozzle Sensor
- Collision Sensor
- 220 mm Standard Stroke
- Laser Pointer
• ProNest® LT 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
• Pilz Safety PLC Module
• 2 Emergency Buttons
• 6 Mechanical Stops

OPTIONAL EQUIPMENT
• Hypertherm PowerMax125 Automatic Gas Console
• Hypertherm PowerMax105 SYNC Automatic Gas Console
• Hypertherm PowerMax85 SYNC Core Automatic Gas Console
• Hypertherm PowerMax65 SYNC Automatic Gas Console
• Hypertherm PowerMax45XP Optimix Automatic Gas Console
• Oxy-Fuel Cutting System
• Filter Unit
• -/+45° Manuel Bevel Cutting Adaptor for Oxy-fuel & Plasma
• 350 mm & 500 mm Changeble Stroke for Oxy-Fuel & Plasma
• ProNest® CAD / CAM Software
• Light Barrier
• Air Drier
• According to the Working Conditions Cooling Fan or Heater
can be add to the Electrical Panel
• Optional Electrical Voltage

PLASMA CUTTING UNIT		EPL 1530 COMPACT	EPL 2040 COMPACT	EPL 2060	EPL 20120	EPL 2560	EPL 25120	EPL 3060	EPL 30120	EPL 4060	EPL 40120
CUTTING WIDTH (A)	mm (inch)	1500 (59)	2000 (79)	2000 (79)	2000 (79)	2500 (98)	2500 (98)	3000 (118)	3000 (118)	4000 (157)	4000 (157)
TOTAL WIDTH (B)	mm (inch)	3250 (128)	3750 (148)	3950 (156)	3950 (156)	4450 (175)	4450 (175)	4950 (195)	4950 (195)	6150 (242)	6150 (242)
TOTAL HEIGHT (C)	mm (inch)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)
WEIGHT (D)	mm (inch)	220 (8,6)	220 (8,6)	220 (8,6)	220 (8,6)	220 (8,6)	220 (8,6)	220 (8,6)	220 (8,6)	220 (8,6)	220 (8,6)
TORCH DISTANCE (E)	mm (inch)	100 (4)	100 (4)	100 (4)	100 (4)	100 (4)	100 (4)	100 (4)	100 (4)	100 (4)	100 (4)
CUTTING LENGHT	mm (inch)	3000 (118)	4000 (157)	6000 (236)	12000 (472)	6000 (236)	12000 (472)	6000 (236)	12000 (472)	6000 (236)	12000 (472)
TABLE HEIGHT	mm (inch)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)
SPEED	m/ min.	35	35	35	35	35	35	35	35	35	35
MACHINE AXIS	-	X, Y, Z									
POSITIONING ACCURACY	mm (inch)	± 0,01 DIN 28206 (± 0,0039 DIN 28206)									
POSITION REPEATABILITY ACCURACY	mm (inch)	± 0,05 DIN 28206 (± 0,0019 DIN 28206)									
PLASMA CUTTING UNIT		Hypertherm Maxpro200									
TORCH HEIGHT CONTROL		Ermak THC									
CUTTING CAPACITY	mm (inch)	1-50 (,04-1,96)	1-50 (,04-1,96)	1-50 (,04-1,96)	1-50 (,04-1,96)	1-50 (,04-1,96)	1-50 (,04-1,96)	1-50 (,04-1,96)	1-50 (,04-1,96)	1-50 (,04-1,96)	1-50 (,04-1,96)
ENERGY		400V, 50Hz, 6 Bar Air									
WEIGHT	kg (lbs)	3050 (6733)	4500 (9934)	6750 (14901)	12150 (26821)	7650 (16887)	14100 (31126)	8600 (18985)	15000 (33113)	12000 (26490)	22100 (48786)

* All specifications subject to change without notice.

MAXPRO 200

The MAXPRO200® LongLife® plasma cutting system is engineered for heavy-duty, high capacity automated and handheld cutting and gouging applications. The easy-to-use system operates with either air or oxygen plasma gas, and combines fast cutting speeds and quick process changes to maximize productivity. Advanced Hypertherm consumable designs including LongLife® technology improve cut consistency and significantly increase consumable life to lower your cost per part.



POWERMAX 85 SYNC

The premier system for cutting 25 mm (1"), the Powermax85® has the same features and options as the Powermax65®, but with more power from an output current of 85 amps. Designed to maximize uptime and productivity, the system offers the latest technological innovations, such as Smart Sense™ technology to automatically adjust the gas pressure. With a variety of Duramax™ torch styles, operators can easily select exactly the right tool for the job: hand cutting or gouging, portable automation, X-Y table, and robotic cutting or gouging.



POWERMAX 125

Delivering maximum power and performance for air plasma, the Powermax125® plasma system cuts thick metals fast. Able to make short work of the toughest cutting and gouging jobs, the system offers a 100% duty cycle, a 25 mm (1") mechanized pierce capability, and fast gouging metal removal. It also gives you the latest technological innovations, such as Smart Sense™ technology to automatically adjust the gas pressure. Eleven Duramax® Hyamp™ torch styles provide versatility for hand cutting, portable automation, X-Y table cutting, extended reach cutting, and robotic cutting and gouging.



POWERMAX 65 SYNC

The Powermax65® plasma system is a versatile machine for heavy-duty cutting and gouging in demanding environments. Designed to maximize uptime and productivity, the system offers the latest technological innovations, such as Smart Sense™ technology to automatically adjust the gas pressure. With a variety of Duramax™ torch styles, operators can easily select exactly the right tool for the job: hand cutting or gouging, portable automation, X-Y table, and robotic cutting or gouging.



POWERMAX 105 SYNC

The Powermax105® plasma system has the duty cycle and performance needed for tough industrial cutting and gouging jobs. Delivering superior cut capabilities on 32 mm (1-1/4") thick metals, it also offers the latest technological innovations, such as Smart Sense™ technology to automatically adjust the gas pressure. Seven Duramax™ torch styles provide versatility for hand cutting, portable automation, X-Y table cutting, and robotic cutting and gouging.



POWERMAX 45 XP

Meet the newest member of our best-selling line of Powermax® portable plasma systems. The Powermax45® XP delivers increased cut capacity up to 16 mm (5/8") metal as well as faster cut speeds, and automatic gas adjustment for quick, simple setup and operation. New Duramax® Lock torches support handheld and mechanized cutting of a wider range of metal thicknesses, along with precision gouging such as spot weld removal, and marking capabilities.

OXY-FUEL (Optional)

Users of ProNest advanced nesting software gain an advantage when able to program for more than one cutting process. Using a single software solution to program for plasma, laser, waterjet, and oxyfuel machines can result in:

- Reduced cost of software ownership (upgrade charges, maintenance fees, etc)
- Reduced employee (programmer) training requirements
- Reduced business risk by making it easy for any employee to program any cutting machine using a single software product
- Increased flexibility allowing NC output for alternate cutting processes during a machine failure

ProNest assists companies that cut parts by providing the above benefits and delivering programming capability for virtually all plasma, laser, waterjet, oxyfuel and punch combination machines, regardless of machine brand or model.

ProNest, ProNest LT & ProNest LTS oxy-fuel process support overview

ProNest offers complete support for the oxyfuel cutting process. ProNest also supports virtually all brands of these machines, regardless of manufacturer.



- Bridge cutting
- Bevel support
- Multi-head support with fixed and variable spacing
- Plate cropping
- Plate machine support for plate processing machines, including spindle processes
- Process parameters
 - Material type, thickness, grade and class-based process parameters including advanced kerf and feedrate commands, piercing, etc
 - Material type and thickness-based lead parameters including various lead styles (lock, edge start, etc.), angles, extensions and over-travels
 - Automatic and interactive separations for part, plate, and pierce spacing
 - User defined variables–numerous parameter configurations
- Skeleton cut-up

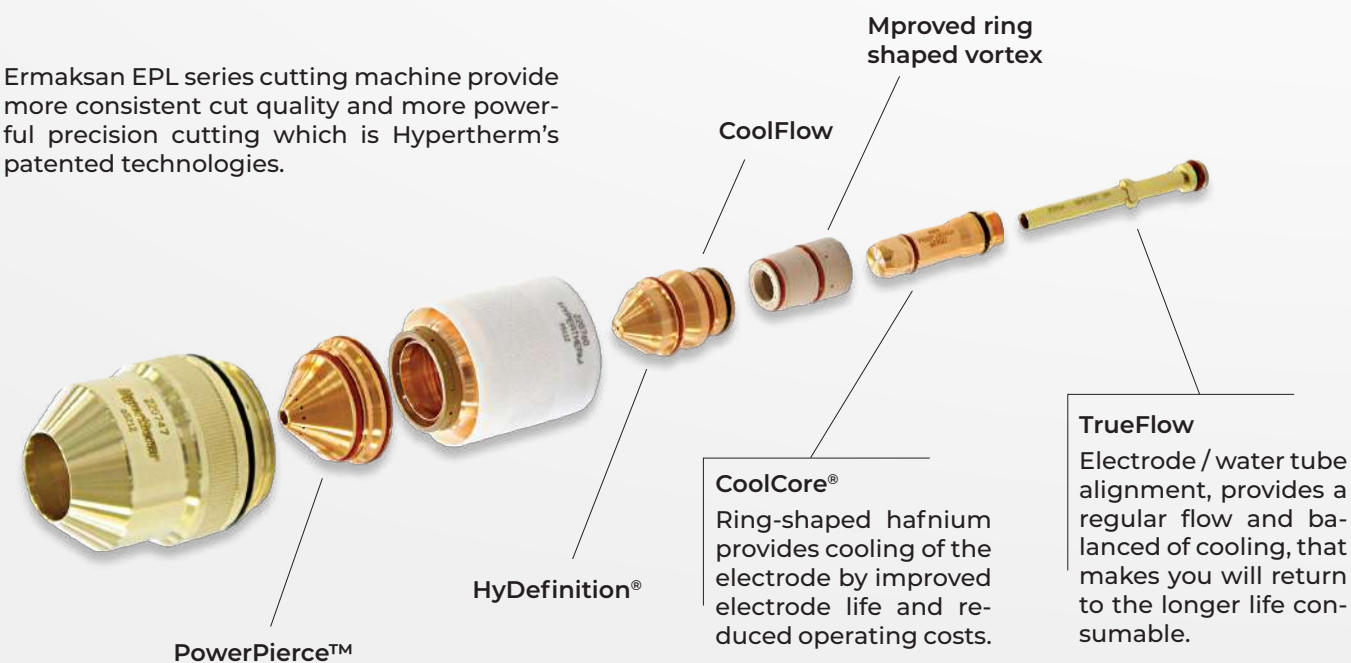


WASTE GAS, DUST & FUME FILTERING UNIT (Optional)

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

- 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

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.

LOGLIFE® TECHNOLOGY

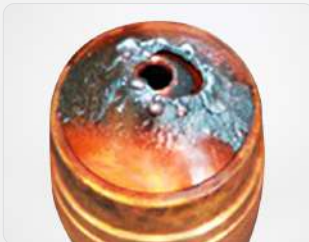
- Hypertherm's patented LongLife® technology increase and decrease gas flow and gradually to reduce electrode and nozzle erosion in extremely controlled manner.
- By reducing erosion of electrode and nozzle with LongLife®, longer period with more consistent quality of a cut while offers a significant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

300 Pierces at 50 mm



With PowerPierce technology
HPR400XD

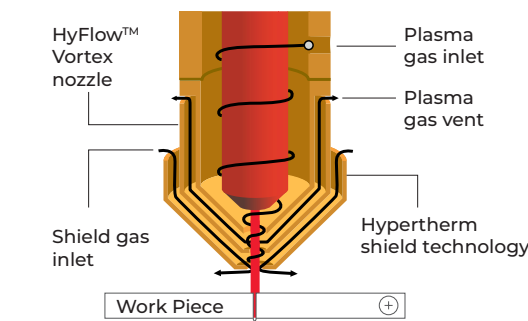
41 Pierces at 45 mm



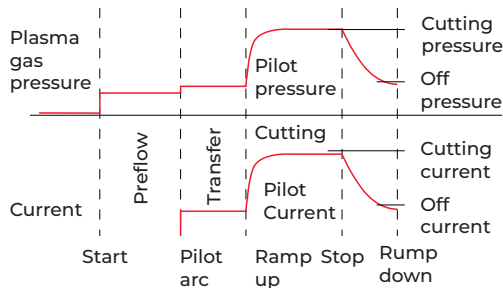
Without PowerPierce
technology

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

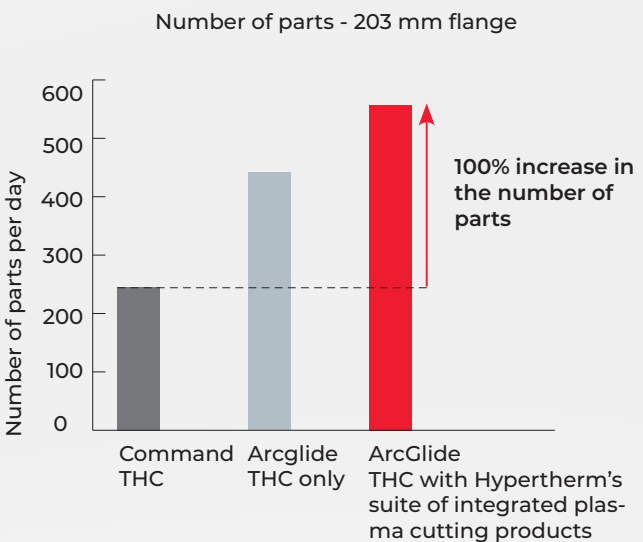
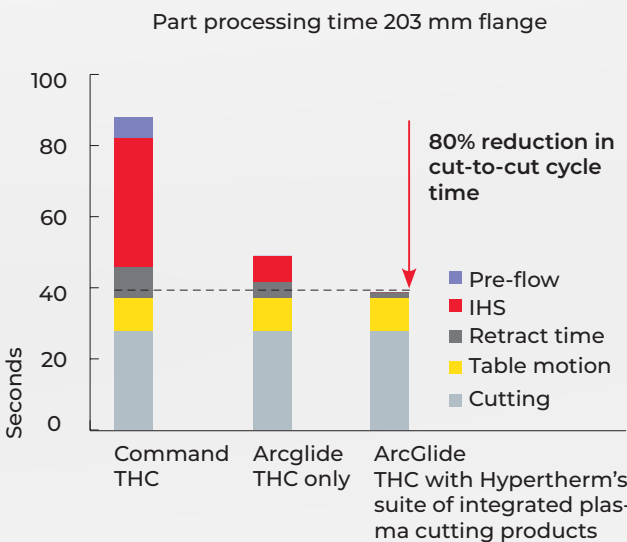


LOGLIFE TIMING DIAGRAM



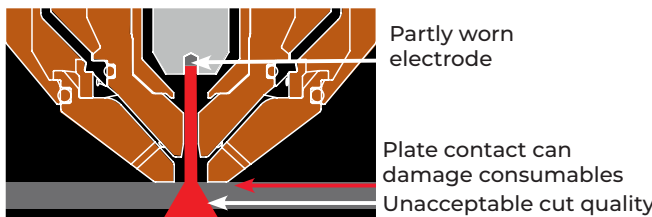
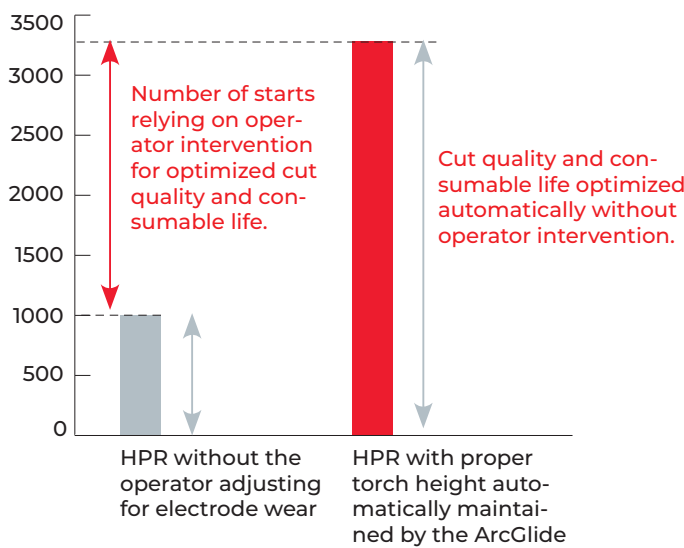
INCREASE PARTS PER HOUR

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

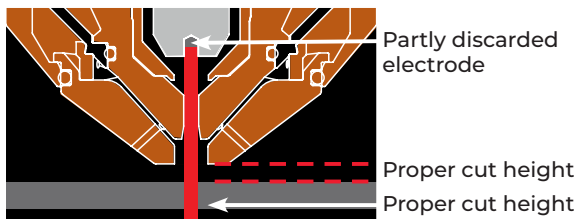


DECREASE COST PER PART

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.



Consumables discarded prematurely



Consumable life and cut quality optimized

IMPRESSIVE SOLUTIONS FOR TUBE CUTTING...

Ermaksan has designed EPL Plasma series to cut tubes from 50 to 400 mm in diameter precisely with its tube cutting technology. Cuts profiles between 100 and 600 mm. Tube cutting has a wide range of application such as tanks, pipe lines, power plants, etc. Profile cutting is used for construction, defence industries, and it provides angled cuts with the 5-axis cutting head provided optionally if desired.

It is designed to meet the tube cutting requirements of the industry on steel construction in the best way. These machines are used in a wide range from construction industry to defence and machinery industries.

TUBE AND PROFILE CUTTING TECHNOLOGY

LOW CUTTING COST

ERGONOMIC DESIGN

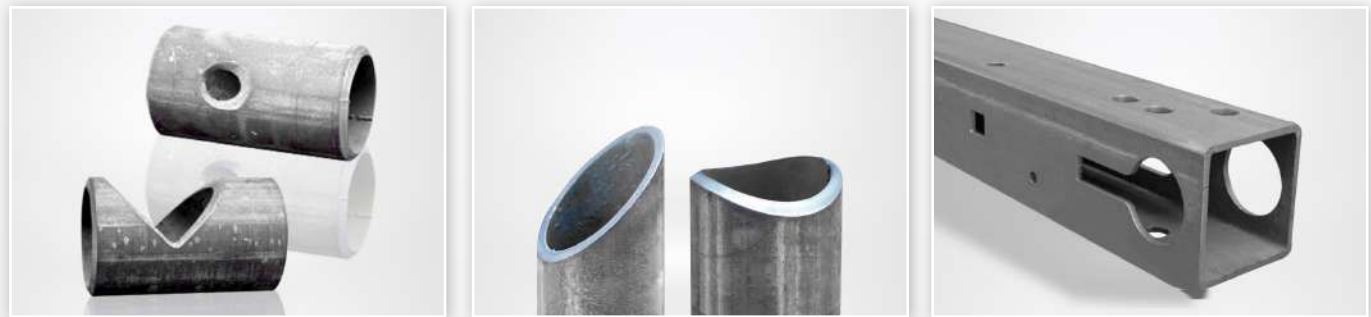
SIMPLE OPERATION

FILTERING SYSTEM

MARKING







Rotary Tube Pro™ provides a complete design and cutting solution for tube and pipe parts without the need for 3D CAD experience. Using standard parameters, tubes and branches can be easily identified within the software interface. Side wall silhouettes can be added from CAD or from a list of pre-defined shapes.

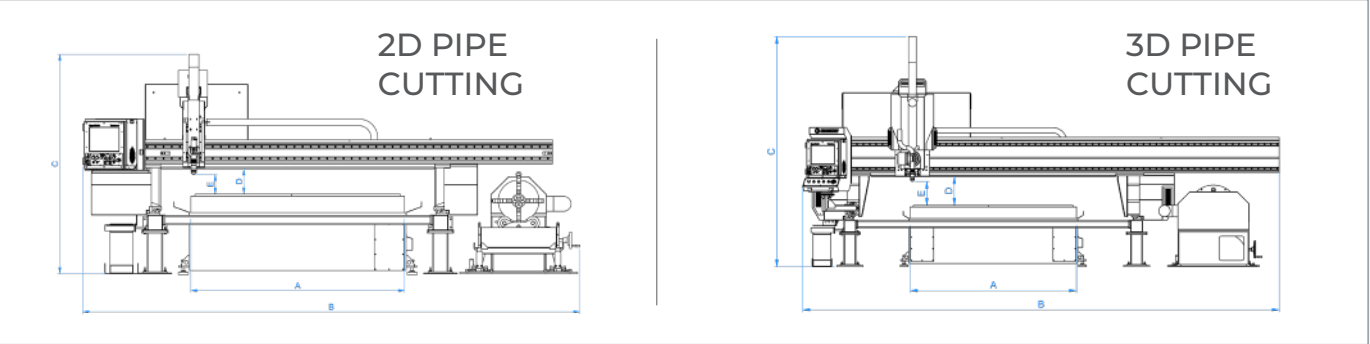
- Sensitive and qualified cuts with Hypertherm XD® plasma source
- Meeting the high speed plasma cutting standards with impeccable filtration system thanks to inner pipe suction design.
- High precision for edge cuts and round cuts with the milled teeth helical rack and pinion.
- Manual support system 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.
- EDGE Connect CNC control unit is easy to use and efficient
- Software Rotary TubePro Cad/Cam
- Marking speciality
- Feature of returning backward and continue to cut where ever needed.
- Large utilization area like tank manufacturing, pipe line etc.



Rotary Tube Pro™ supports almost all tube cutting machine brands, including stand-alone units and cutting table add-ons. The software supports bevel cutting as a standard feature and bevel cutting as an optional module.



GENERAL SPECIFICATIONS



STANDARD 2D PIPE CUTTING EQUIPMENT
• Hypertherm EDGE Connect TC CNC
- 19" LCD Industrial Type Touch Screen
- Hypertherm Operator Panel
- Safety Module Input and Output
- Ethercat Communication System
- Remote Connection Interface
- Phoenix Interface
- Metric and Inch Gauges
• Hypertherm XPR170 Plasma Source
- Hypertherm Core Gas Console
- Plasma Marking
• ERMAK THC Automatic High Control System
- Ethercat Communication System
- Safety Input-Output Interface Module
- Nozzle Sensor
- Collision Sensor
- 400 mm Standard Stroke
- Laser Pointer
• Chuck and Centering Mechanism
• Rotary Tube Pro™ CAD / CAM Software
• ProNest® CAD / CAM Software
• 4 Axis (X, Y, Z, D)
- 4 Pieces Mitsubishi AC Servo Motor and Driver
- 4 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
• Pilz Safety PLC Module
• 2 Emergency Buttons
• 6 Mechanical Stops
• True Hole™ technology

OPTIONAL EQUIPMENT
• Hypertherm HPR400XD Automatic Gas Console
• Hypertherm HPR800XD Automatic Gas Console
• Hypertherm XPR 170/300/460 Core Automatic Gas Console
• Hypertherm XPR 170/300/460 Core Plus Automatic Gas Console
• Hypertherm XPR 170/300/460 VWI Automatic Gas Console
• Hypertherm XPR 170/300/460 Optimix Automatic Gas Console
• Oxy-fuel Cutting System
• Filter Unit
• -/+45° Manuel Bevel Cutting Adaptor for Oxy-Fuel & Plasma
• 350 mm & 500 mm Changeble Stroke for Oxy-Fuel & Plasma
• Light Barier
• Air Drier
• According to the Working Conditions Cooling Fan or Heater
Can Be Add to the Electrical Panel
• Optional Electrical Voltage
• True Bevel™ technology
• 5 Axis Bevel Head IMATECHNO

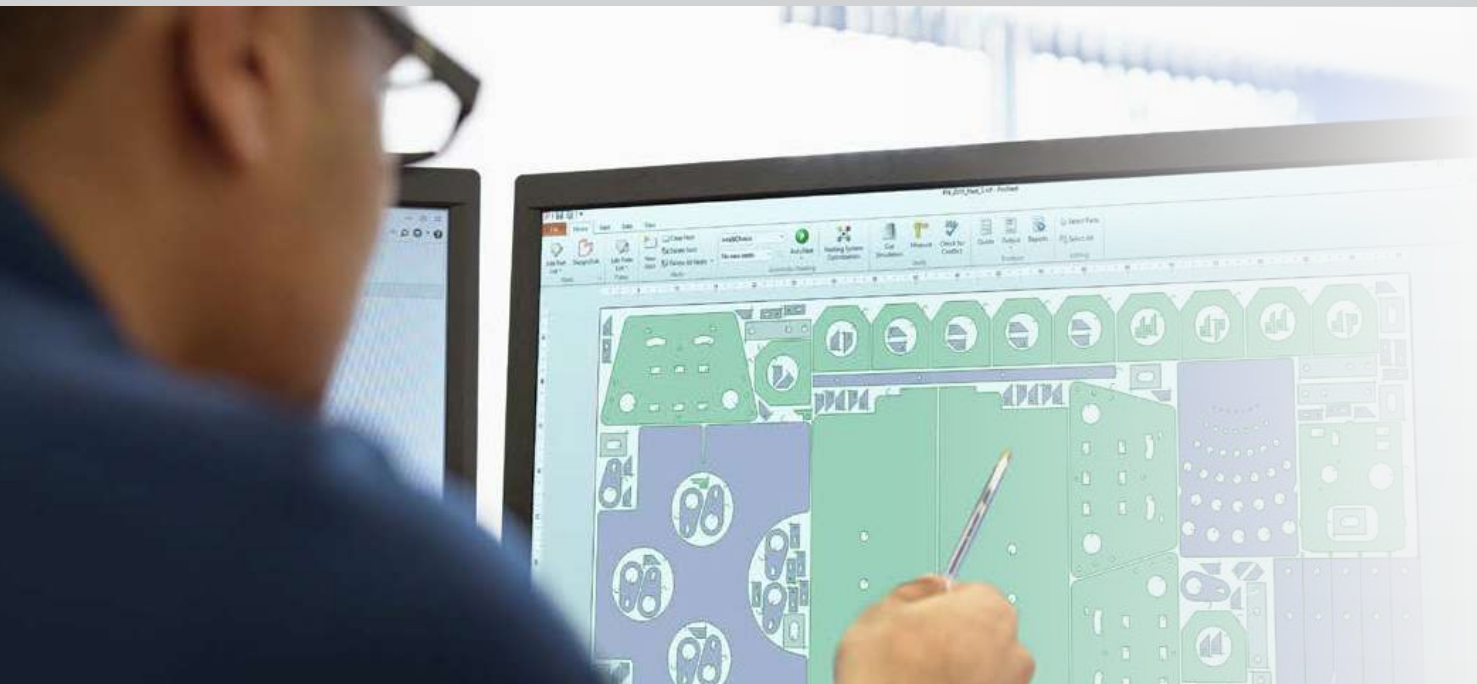
TECHNICAL SPECIFICATIONS OF 2D PIPE CUTTING

		EPL 1530	EPL 2040	EPL 2060	EPL 20120	EPL 2560	EPL 25120	EPL 3060	EPL 30120	EPL 4060	EPL 40120
CUTTING WIDTH (A)	mm (inch)	1500 (59)	2000 (79)	2000 (79)	2000 (79)	2500 (98)	2500 (98)	3000 (118)	3000 (118)	4000 (157)	4000 (157)
TOTAL WIDTH (B)	mm (inch)	4400 (173)	4900 (193)	4900 (193)	4900 (193)	5400 (213)	5400 (213)	5900 (232)	5900 (232)	6900 (272)	6900 (272)
TOTAL HEIGHT (C)	mm (inch)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)	2280 (90)
WEIGHT (D)	mm (inch)	250 (10)	250 (10)	250 (10)	250 (10)	250 (10)	250 (10)	250 (10)	250 (10)	250 (10)	250 (10)
TORCH DISTANCE (E)	mm (inch)	0-400 (0-15,7)	0-400 (0-15,7)	0-400 (0-15,7)	0-400 (0-15,7)	0-400 (0-15,7)	0-400 (0-15,7)	0-400 (0-15,7)	0-400 (0-15,7)	0-400 (0-15,7)	0-400 (0-15,7)
CUTTING LENGHT	mm (inch)	3000 (118)	4000 (157)	6000 (236)	12000 (472)	6000 (236)	12000 (472)	6000 (236)	12000 (472)	6000 (236)	12000 (472)
TABLE HEIGHT	mm (inch)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)	750 (30)
SPEED	m/ min.	20	20	20	20	20	20	20	20	20	20
MACHINE AXIS	-	X, Y, Z, D									
PIPE CUTTING DIAMETER MIN. MAX.	mm (inch)	Ø50-Ø400 (1,9-15,7)									
PIPE CUTTING MAX. THICKNESS (MILD STEEL)	mm (inch)	20 (.79)	20 (.79)	20 (.79)	20 (.79)	20 (.79)	20 (.79)	20 (.79)	20 (.79)	20 (.79)	20 (.79)
POSITIONING ACCURACY	mm (inch)	± 0,01 DIN 28206 (± 0,0039 DIN 28206)									
POSITION REPEATABILITY ACCURACY	mm (inch)	± 0,05 DIN 28206 (± 0,0019 DIN 28206)									
PLASMA CUTTING UNIT		Hypertherm XPR300									
TORCH HEIGHT CONTROL		Ermak THC									
CUTTING CAPACITY	mm (inch)	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")	1-80 (.039- 3.2")
ENERGY		400V, 50Hz, 8 Bar Air									
WEIGHT	kg (lbs)	5200 (11479)	6600 (14570)	8800 (19426)	15350 (33885)	9700 (21413)	17200 (37969)	10600 (23400)	18650 (41170)	14200 (31347)	25350 (55960)

TECHNICAL SPECIFICATIONS OF 3D PIPE CUTTING

TOTAL WIDTH (B)	mm (inch)	5200 (205)	5700 (224)	5700 (224)	5700 (224)	6200 (244)	6700 (264)	6700 (264)	6700 (264)	7700 (303)	7700 (303)
WEIGHT (D)	mm (inch)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)	290 (11)
SPEED	m/ min.	20	20	20	20	20	20	20	20	20	20
MACHINE AXIS	-	X, Y, Z, A, B, D									
WEIGHT	kg (lbs)	6600 (14570)	8000 (17660)	10400 (22958)	16750 (36976)	11100 (24503)	18600 (41060)	12000 (26490)	20000 (44150)	15600 (34437)	26750 (59051)

* All specifications subject to change without notice.



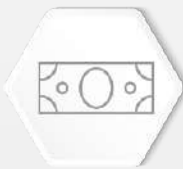
Hypertherm Associates offers several CAD/CAM software products designed to drive your machines and improve your business productivity and profitability.

-  **PRONEST®**
Nesting software for advanced mechanized cutting in enterprise and production environments.
-  **PRONEST® LT**
Nesting software for light industrial mechanized cutting in production environments.
-  **ROTARY TUBE PRO™**
Pipe and tube cutting software for stand-alone tube cutting machines or cutting table add-ons.
-  **DESIGN2FAB®**
Sheet metal layout software for HVAC, duct work, mechanical, kitchen, industrial, roofing, and more.

PRONEST®

Material cost savings
ProNest CAD/CAM part nesting software for advanced mechanized cutting is designed to supercharge your cutting operation, helping you achieve greater automation, efficiency, and profitability. Brought to you by the cutting experts at Hypertherm Associates, ProNest can optimize performance for plasma, and oxyfuel cutting machines. More than just a nesting software, ProNest includes powerful features to help manage your entire cutting operation. You'll be able to quote jobs, manage work orders, and monitor machine status, all in one place.

Optimized for XPR and HPR XD Series
ProNest is engineered in close alignment with Hypertherm's world-famous XPR® and HPR XD® plasma systems. This advanced integration ensures that you get the absolute best in cut quality, productivity, and efficiency, pushing your machine's capabilities to the highest level.



MATERIAL COST SAVINGS
Powerful, high yield nesting reduces your material costs and increases profitability.



INCREASED PRODUCTIVITY
Modules like Common Line Cutting and Chain and Bridge Cutting can increase efficiency, and reduce cutting time and consumable wear.



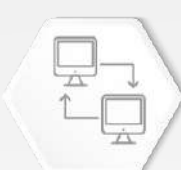
EASE OF USE
Incredibly easy to learn and use, with intuitive screens, and a wide variety of helpful features.



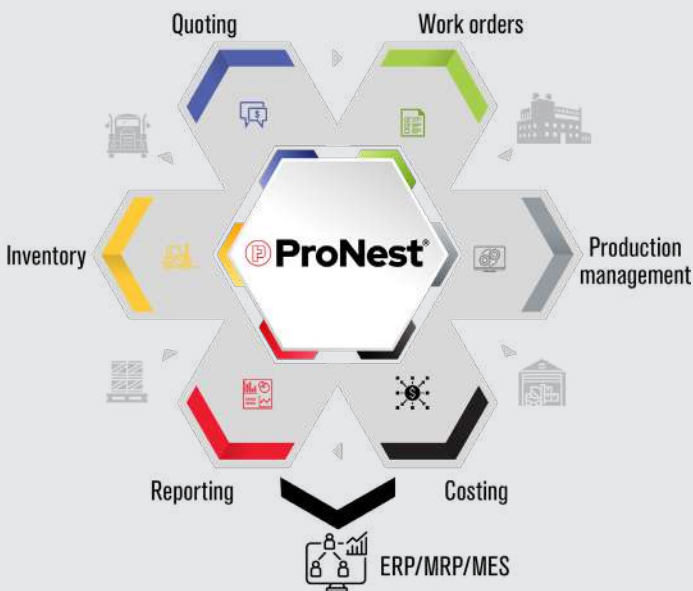
UNLIMITED TECHNICAL SUPPORT
Unlimited access to technical support, training, and software updates is included with your purchase.



BREAKTHROUGH TECHNOLOGIES
ProNest is the only software that provides full support for our Sure-Cut™ technologies including True Hole®, Rapid Part™, and PlateSaver™ which are delivered automatically without operator intervention, and True Bevel™ which greatly reduces bevel set up time.



CONNECTED SYSTEMS
Allows integration to your existing business systems to deliver and access manufacturing data in real-time.



PRONEST®LT

Jumpstart your business and your profitability today!

ProNest LT is a powerful CAD/CAM software that allows you to design, nest, and cut with ease. It's designed for light industrial, mechanized cutting and provides professional grade cut quality at an affordable price, allowing doers, makers, and fabricators of all sizes to get the most out of their conventional plasma and oxyfuel cutting machines.

Powermax and MAXPRO Ready

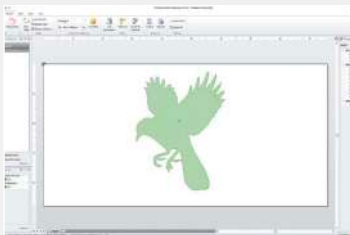
ProNest LT is designed in close collaboration with Hypertherm's renowned Powermax® and MAXPRO® plasma systems, as well as HPR with a manual gas console. This ensures you achieve exceptional cut quality, productivity, and efficiency, maximizing your machine's performance.

BENEFITS



EASE OF USE

Incredibly easy to learn and use, with intuitive screens, and a wide variety of helpful features.



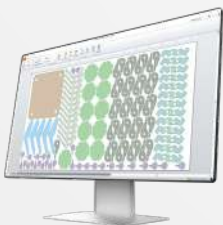
BUILT-IN DESIGN TOOLS

Import CAD files, artwork, and signs, or create your own designs using powerful built-in tools.



BETTER PART QUALITY

Hypertherm's built-in expertise means the best possible cutting parameters are applied for each job's unique needs, resulting in sharper corners, cleaner edges, and improved hole quality.



AUTOMATIC NESTING

Nest jobs even more quickly and efficiently using intelligent auto nesting strategies.



UNLIMITED TECHNICAL SUPPORT

Unlimited access to technical support, training, and software updates is included with your purchase.



ROTARY TUBE PRO™

An easier way to design and cut tubes

Rotary Tube Pro™ offers a complete design and cut solution for tube and pipe parts in mechanized cutting applications including plasma, laser, and oxyfuel. There is no 3D CAD experience required. Tubes and branches are easily created using parametric input. Side-wall cut outs can be selected from a list of pre-defined shapes, or added from CAD. And, if necessary, users can import 3D CAD files. This flexibility allows fabricators and manufacturers to work more efficiently, boost productivity, and reduce operating costs.

In addition, Rotary Tube Pro supports virtually all brands of tube cutting machine, including stand-alone units and cutting table add-ons. It supports perpendicular cutting as a standard feature and bevel cutting as an optional module.

Standard feature highlights:

- Cut process support for plasma, and oxyfuel
- Part creation and development
- Automatic nesting
- Common line cutting
- SureCut™ technology capable including True Hole®
- Reporting with detailed job information
- Simplified costing
- Output with advanced post-processor
- Bevel cutting option



DESIGN2FAB®

Sheet metal layout made fast and efficient

Design2Fab® sheet metal layout software makes it easy to create HVAC duct, mechanical, kitchen, industrial, roofing, and other specialty fitting layouts. Engineered to dramatically reduce the time it takes to develop and lay out flat patterns, Design2Fab provides sheet metal fabricators, HVAC shops, and MEP contractors with the ability to create complex custom fitting layouts in minutes, rather than hours. Design2Fab also helps ensure perfect fit-up when installing parts in the field, contributing to increased productivity and lower operating costs so you'll be able to accomplish more, while increasing profitability!

Standard feature highlights:

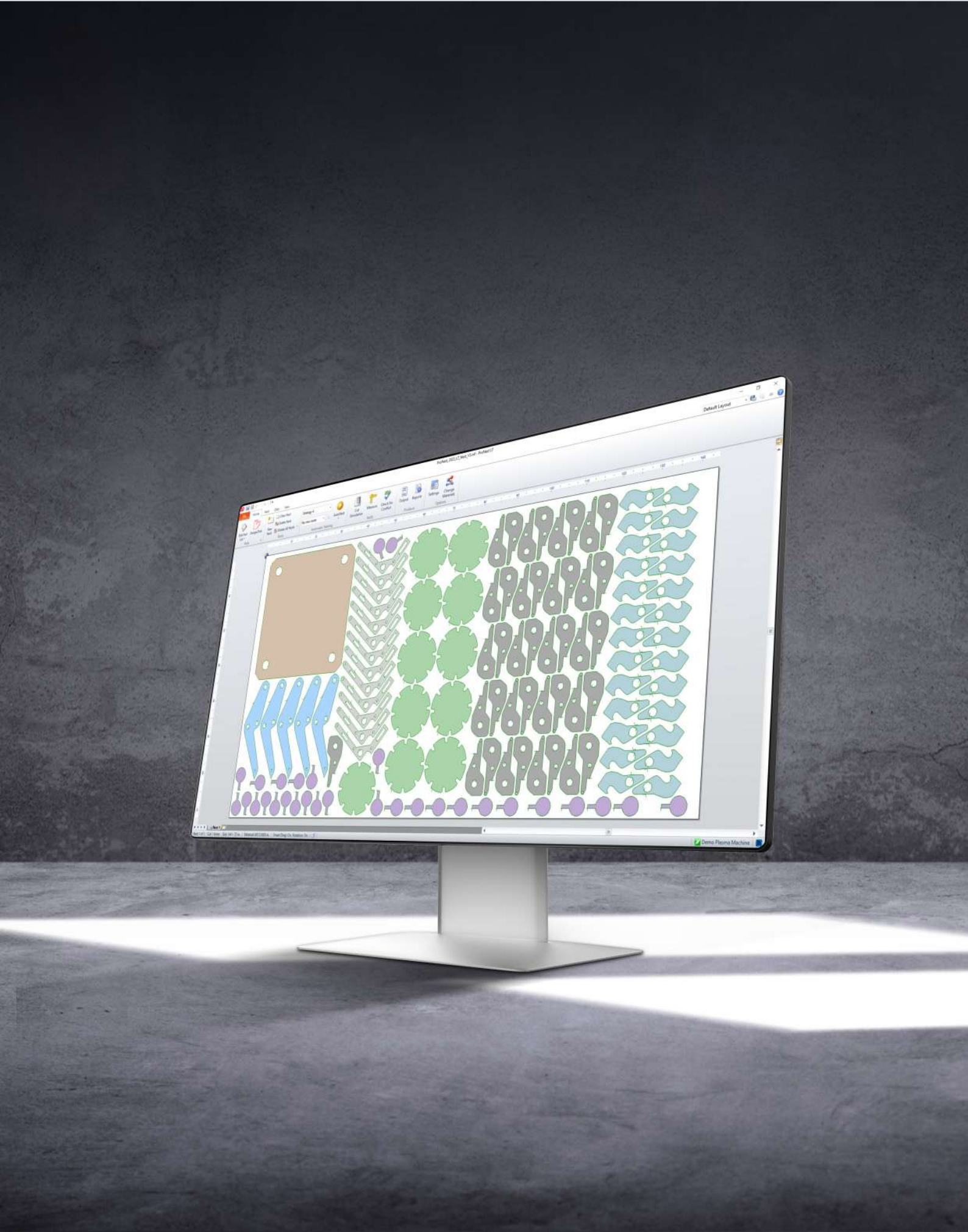
- Comprehensive fittings library with unlimited customization
- 3D view verification of fittings
- 2D layout view of pattern fitting
- Copy fitting or zone
- Apply SMACNA or DIN standards
- DXF export for nesting and automated cutting
- HPGL export for printing and manual cutting



	PRONEST®	PRONEST® LT
CUT PROCESS SUPPORT		
Plasma – conventional air / oxygen (ex. Powermax®, MAXPRO®)	●	●
Plasma – high definition (ex. XPR®, HyPerformance®)	●	
Oxyfuel	●	●
STANDARD FEATURES		
Part design	●	●
CAD import	●	●
Manual nesting	●	○
Reporting	●	○
Costing	●	○
Quoting	●	
A single job can contain sheets for different material types, thicknesses, and classes	●	
SURECUT™ TECHNOLOGY		
True Hole® technology capable*	●	
Rapid Part™ technology capable*	●	
Plate Saver™ technology capable*	●	
True Bevel™ technology capable*	●	
Advanced process support and job set up on the CNC*	●	
MODULE HIGHLIGHTS		
Automatic Nesting	●	○
Productivity modules	●	○
Enterprise modules (including ERP/MRP/MES integration)	●	
3D CAD modules	●	

● Advanced ○ Intermediate

*Certain hardware and software requirements may apply.





HIGH PERFORMANCE MAXIMUM PRODUCTIVITY

Provides an optimum solution for all your requirements with its advanced precision cutting quality, and conformance to the production lines and automation. User-friendly CNC control unit with a wide range of software designed for plasma provide great convenience for the operator.

R&D engineering calculations are meticulously applied on the main body and the moving bridge of the EPL plasma cutting machine, which provide high cutting quality.

EPL Plasma Series is the machine with the best consumption of consumables available in the market. In terms of consumables and spare parts, Ermaksan offers very special advantages in prices for its customers of Hypertherm materials.

PRECISE CUTTING QUALITY

OPTIMUM EFFICIENCY

LOW OPERATING COST

RIGID BODY



SPECIAL PLASMA CUTTING SOLUTIONS

Beyond our standard plasma cutting product portfolio, ERMAKSAN is proud to offer turnkey solutions tailored to your specific needs. Our large-format plasma cutting machines are meticulously designed to meet customer demands, handling extensive sheets in a single pass and efficiently processing multiple small workpieces. These robust machines not only maximize productivity but also provide a significant competitive edge by saving time and reducing labor costs. Our advanced plasma cutting solutions ensure optimum performance with superior precision cutting quality, seamlessly integrating into your production lines and automation systems. With over 50 years of technological investment and an innovative R&D department, ERMAKSAN stands by your side, delivering durable, value-added solutions that enhance your production efficiency. Our professional technical team is dedicated to providing you with customized plasma cutting machines that perfectly align with your requirements.

100 - ... - 600 PROFILE CUTTING

3 X 14 METER

260 XD

EPL PLASMA

TURKEY



DIVERSE PRODUCTION SOLUTIONS

Ermaksan is continually developing to meet current demands. It can offer practical taylored 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.

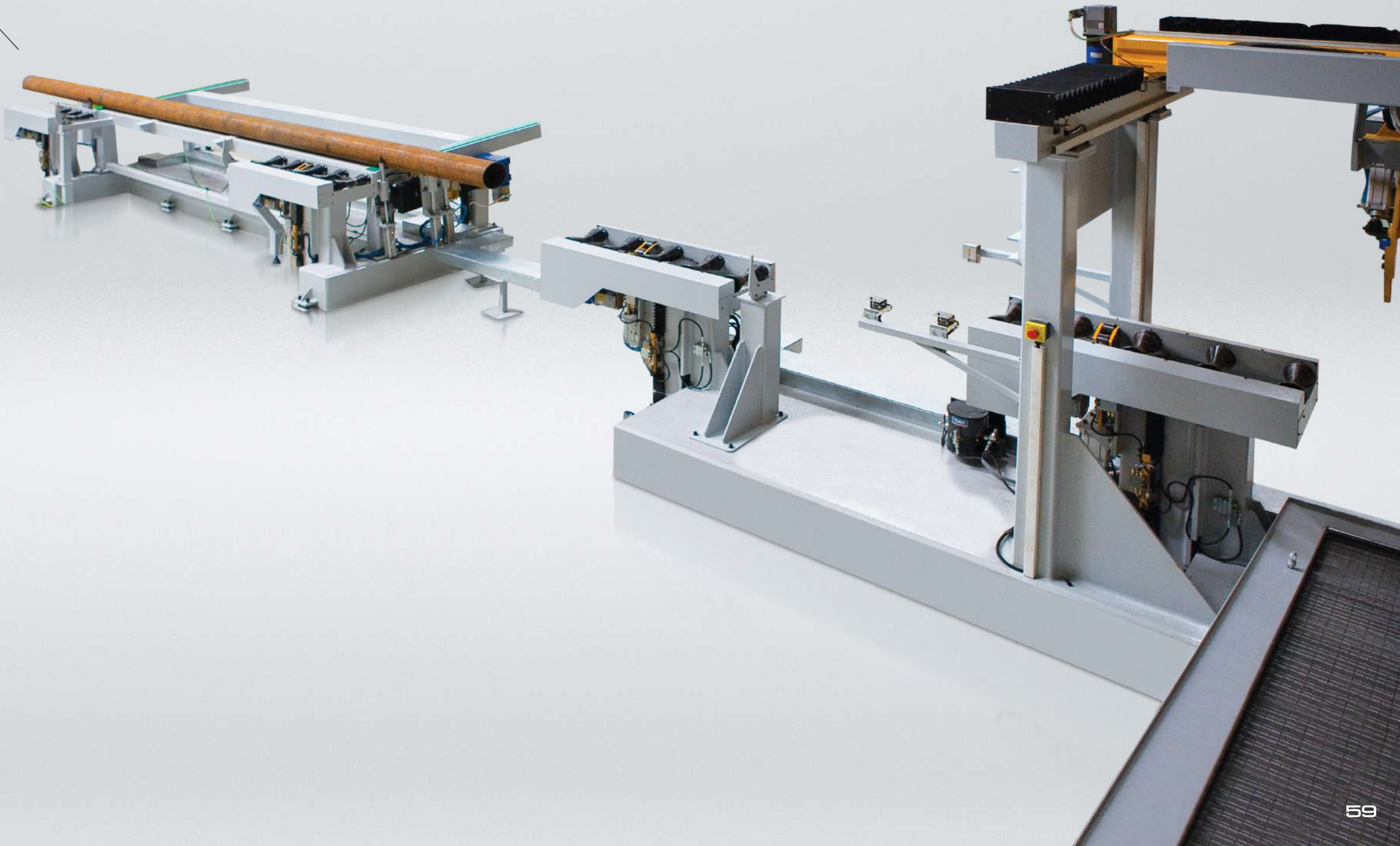
FULL AUTOMATION LOADING - UNLOADING

12 METER LENGHT

Ø 600 MM PIPE CUTTING

EPL PLASMA

IRANIAN





FAST, ACCURATE AND COMPLETE SERVICE

Ermaksan employees always put themselves in place of their customers and act according to this idea. Thus, spare parts or technical service are provided as soon as possible. This is because the fact that the machine shall be down for a day if the the product/service is delayed even for a day. With the awareness of this condition, spare parts and service processes are followed through a schedule in order to provide products/services as fast as possible. Thanks to Ermaksan's competent and experienced staff, you shall be able to get all the spare parts and consumables you require for your machine in a fast and accurate way independent of your location in the world.



REMOTE SUPPORT SERVICE

Ermaksan strongly encourages its customers to use original spare parts under any circumstances. This allows you to achieve high quality, long service life and maximum performance with your machine. Choose original spare parts and consumables to keep your Ermaksan machine always in the same condition as it was the first day.



OPERATOR TRAININGS WITH ERMAKSAN ACADEMY

One of the most important activities of Ermaksan Academy is to contribute to the theoretical and practical infrastructure of the customers by providing the necessary trainings in order to increase their competencies. In order to ensure that you may use your Ermaksan machine better and more correctly, our expert engineers in Ermaksan Academy provide the necessary training for your operators and engineers and ensure that they may use the machine in the most efficient way.



ADVANTAGES OF USING ORIGINAL SPARE PARTS

Ermaksan strongly encourages its customers to use original spare parts under any circumstances. This allows you to achieve high quality, long service life and maximum performance with your machine. Choose original spare parts and consumables to keep your Ermaksan machine always in the same condition as it was the first day.



WE ARE ALWAYS RIGHT THERE FOR YOU

Our greatest goal is to ensure that you are satisfied with the after sales services of Ermaksan. With our qualified Ermaksan technical service engineers and after sales team, we are always right there for you whenever you need with services from periodical maintenance to repairs. We offer you the unique Ermaksan service with best quality for requirements of your spare parts and consumables besides the repair and maintenance of your machine.

"We produce the most suitable solutions for your needs with our advanced engineering approaches"



CONSULTANCY

With our competent and friendly staff, we provide guidance to our customers in their journey from pre-sales to after-sales, from proposing the right solution to using the offered solution effectively and efficiently. Your business needs, solutions that will meet the highest efficiency with the most appropriate budget are determined with the advanced engineering studies on the customized machinery and equipment. We will present you an offer after the most suitable model for you is determined.

Promising to offer you the most suitable solutions before sales, Ermaksan also promises to provide you the highest quality support service in sales, installation, training, and after-sales processes.



ermaksanTV

ermaksanmachine

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ermaksanmachine

ermaksanmachine

ALL CATALOGS



ERMAKSAN
INNOVATIVE TECHNOLOGIES

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* EN * FL V1.1 / 23 / Catalogue information is subject to change without notice.