

UMMAK CNC PLASMA CUTTING MACHINE



UMMAK

CNC PLASMA CUTTING SYSTEMS

Hypertherm®

Değerli Müşterilerimiz,

Ummak Makina firması olarak 2012 yılından beri CNC plazma makinalarının servis, yedek parça ve sarf malzeme tedarikçiliğinin yanında makina onarım ve revizyon işlerinde de sizlere hizmet vermekteyiz. Siz değerli müşterilerimizin de desteği ile 2018 Yılından itibaren bu hizmetlere ek olarak yeni yerimizde HYPERTHERM firmasının yetkili OEM tedarikçisi olarak hizmet vereceğimizi duyurmaktan mutluluk duyarız. Tüm Hypertherm ürünlerine ait yedek parça ve sarf malzeme satışımızı stoktan teslim olacak şekilde hizmetinize sunacağız. Yeni yerimizde sizlerden gelecek olan yeni CNC makine taleplerinizi karşılayıp en iyi makinayı en uygun fiyatlar ile siz değerli müşterilerimize sunacağız. Zamanında teslimat, kaliteli ve işinde uzman servis ekibimizle sizlere hizmet vermeye devam etmekten gurur duyar çalışmalarınızda başarılar dileriz

Saygılarımızla

Dear customers,

As Ummak Machinery Company, We have been servicing the CNC plasma machines since 2012 , as well as machine repair,revision Works and spare part supplier. We are pleased to announce that from 2018 we will serve as an authorized OEM supplier of HyperTherm in addition to these services in our new place. We will deliver Hypertherm spare parts and consumables from our stock. We would also like to mention that will provide technical service to Hypertherm products. We are happy to receive your precious CNC machine order and produce it for you in our new place. We are proud to continue to serve you with our timely delivery,quality and professional team.

With our kind regards

ÜRÜNLERİMİZ HİZMETLERİMİZ:

- *CNC PLASMA KESİM MAKİNASI İMALATI
- *HYPERTHERM SARF MALZEME VE YEDEK PARÇA SATIŞI
- *SERVİS ,KURULUM VE RETROFİT İŞLERİ

Products and Services:

- * CNC Plasma Cutting machine manufacturing
- * Hypertherm spare parts and consumable sales
- * Service, installation, training and retrofit



CNC plazma kesim makinası özellikleri



CNC plasma cutting machine features



GENEL ÖZELLİKLER

Windows tabanlı CNC Kontrol Ünitesi

Hazır parça programlayabilme

Otomatik Torch yükseklik kontrolü

Manuel yada otomatik kesim seçeneği

Otomatik havalandırma ve duman tahliye sistemi

Sağlam ve yüksek mekanik hassasiyeti : $\pm 0,1\text{mm}$.

Çarpmaya karşı Torch koruma sistemi

Eksen konumlandırma hassasiyeti : $\pm 0,02\text{mm}$.

Eksen konumlandırma hızı : 20m/dk (Max.)

OPSİYONLAR

5 Eksen otomatik açılı kesim

Sulu masa dizaynı

Otomatik Nesting Yazılımı

GENERAL FEATURES

Windows based CNC unit.

Simple parts programmable Feature

Automatic Torch height control

Manual or Automatic cut selection.

Automatic Air-conditioning and smoke extraction system

Strong and high mechanical accuracy $0,1\text{ mm}$.

Torch protection system for any crash

Axis positioning accuracy $0,02\text{mm}$.

Axis positioning Speed 20m/min (Max.)

OPTIONS

5 axis bevel cutting.

Water table design.

Automatic Nesting software

HYPERTHERM CNC CONTROLLERS

Hypertherm

EDGE® Connect Shape cutting control



Easy, reliable, customizable performance

EDGE Connect

EDGE Connect is the next generation of Hypertherm's industry leading automated control systems. This new platform is built upon 50 years of experience and commitment to develop, build, and sell products that improve your cutting operation.

EDGE Connect uniquely combines Hypertherm's embedded expertise with OEM customization. Cutting-machine OEMs can create greater

differentiation leveraging Hypertherm's embedded cutting expertise foundation.

EDGE Connect offers many new software features, enhanced hardware, and field based system configuration capabilities.



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 405 mm (16.5") projected capacitive touchscreen 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 (Soft OpCon) for easy setup and operation of cutting station and manual motion



Phoenix 10 with Soft Operator's Console

- 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 charts 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

ProNest CNC nesting

ProNest® CNC software enables users to obtain optimal cut quality for nested part programs created using EDGE® Connect.

- Through the touch screen interface, machine operators can conveniently create nested part programs without extensive training.
- Empowers the machine operator for higher productivity and is an excellent companion package to offline ProNest software.
- Directly import DXF, DWG and CNC simple shapes.
- Embedded SureCut® technology to maximize performance through embedded expertise.
- Patented True Hold® technology with process verification ensures all operator variables are properly set.
- Pattern Array Nesting for a single part with process optimization included.
- Optional True Shape Nesting module for multiple parts available for purchase.



Reliable

The EDGE Connect line of CNCs significantly enhances overall system reliability.

- High-speed digital EtherCAT machine interface and communications with single wire connectivity
- Low power, fan-less quad core processor PC requires no active cooling
- Solid state hard drive with no moving parts for increased data access speed and reliability
- Projected Capacitive (PCAP) touch technology offers pristine optical clarity, high-touch durability, resistance to water, and long-term stability over temperature in industrial applications
- Designed and stress tested to ensure reliable and consistent operation in harsh cutting environments
- 2-year factory warranty



Point-of-use configuration

EDGE® Connect CNCs are configured in the field with software specific to the cutting machine application. This allows for easy set up, change, and upgrades.

- Basic and advanced process control for plasma, oxyfuel, and waterjet
- Integrated Sensor® THC and bevel
- ProNest® CNC True Shape Nesting
- PLC Connect (Programmable Logic Controller)
- Optional Sensor plasma torch height control mechanics (Sensor THC)

OEM customization

- PLC Connect is embedded in the CNC for additional capabilities tied to I/O signals, position, cutting state, and error conditions. IEC61131 compliant
- OEM customization of the on-screen software operator's console for control of unique system tools and features through use of a C-Sharp (C#) Application Program Interface (API)
- Machine-specific user manuals can be added for easy access to critical information

Servisability

- Remote Help® quickly enables CNC, plasma system and cutting machine diagnosis and repair over the internet reducing the need for on-site visits.
- Hypertherm® plasma, CNC, and THC manuals are available in multiple languages at the touch of a button.
- Worldwide network of Hypertherm service engineers available as needed to support cutting machine manufacturer service personnel.

Customizable performance

- Hardware and software designed for a broad range of processes such as plasma (including cutting, marking, bevel, pipe/tube), oxyfuel (including bevel), and waterjet applications.

Flexible configurations

EDGE Connect is available in two hardware configurations to best align with cutting machine manufacturer needs. Each configuration provides the power, performance and features of Phoenix® CNC control software. The EtherCAT digital machine interface provides smooth optimized motion for up to 12 axes.

EDGE Connect



The smallest of the CNC configurations, the EDGE Connect offers the greatest flexibility for machine integration. Cutting machine OEMs provide the touch screen and any operator switches.

EDGE Connect TC



Integrate the EDGE Connect CNC line in industrial environments with a 405 mm (16.5") touchscreen. A hardware operator's console with switches for start, stop, program and manual speed control, callout/speed search and jogstick is included for easy operation.

Ease of installation

- Utilizing EtherCAT connectivity, the EDGE Connect requires only a single EtherCAT cable for all motion and I/O signals from the CNC, drastically simplifying the system wiring and reducing costly installation time and labor.
- Communication to Hypertherm's HyperPerformance® Plasma systems is accomplished through EtherCAT connectivity directly to the cutting system.



Optional Sensor plasma torch height control mechanics

Hypertherm provides lift mechanisms and an optional magnetic breakaway to pair with the Sensor THC software on Hypertherm CNCs. This lift mechanism, based on the proven AutoGlide® design, provides exceptional performance in the harsh plasma cutting environment. The slide pairs with both digital and analog drives and motors, which are supplied by the cutting machine manufacturer and connect to one of two motor coupling options.

- Robust mechanics for the harsh cutting environment
- Ability to be used on plasma systems up to 800 amps
- Side shields protect the slide from debris for multi-torch systems
- Magnetic breakaway protects the torch from damage during collisions, and allows for quick, repeatable recovery should a collision occur
- The integrated laser point allows for easy plate alignment



Sensor Torch Height Control is an integrated torch positioning system to provide optimized plasma cut performance using Hypertherm's embedded process algorithms.

Visit www.hypertherm.com/EDGEConnect

HYPERTHERM NESTING SOFTWARE

Accomplish more with ProNest

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

ProNest offers all of the standard features you'll need to complete your jobs, plus optional modules for more advanced functionality.

Users agree this powerful software is surprisingly easy to learn and use. Your team will be up and running faster, and completing jobs more quickly.



ProNest workflow ... customizable to meet your needs



The CAD/CAM software family

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



ProNest® 2019

Nesting software for advanced mechanized cutting in enterprise and production environments.



ProNest® 2019 LT

Nesting software for light industrial mechanized cutting in production environments.



ProNest® 2019 LTS

Nesting software for light industrial mechanized cutting in job shop environments.



Hypertherm Power source

Air plasma: Powermax®

Light industrial single gas (air, nitrogen, or F5) cutting systems, great for duct cutting, pipe cut-off, beveling and robotic 3-D cutting.



		Powermax45 XP	Powermax65	Powermax85	Powermax105	Powermax125
Capacity	Mild steel	Production (Pierce)* Severance	12 mm (1/2") 32 mm (1-1/4")	16 mm (5/8") 38 mm (1-1/2")	20 mm (3/4") 50 mm (2")	25 mm (1") 57 mm (2-1/4")
	Stainless steel	Production (Pierce)*	12 mm (1/2")	16 mm (5/8")	20 mm (3/4")	25 mm (1")
	Aluminum	Production (Pierce)*	10 mm (3/8")	12 mm (1/2")	16 mm (5/8")	20 mm (3/4")
Speed		12 mm (1/2") 540 mm/m (18 ipm)	12 mm (1/2") 850 mm/m (30 ipm)	12 mm (1/2") 1280 mm/m (45 ipm)	12 mm (1/2") 1680 mm/m (62 ipm)	12 mm (1/2") 2050 mm/m (75 ipm)
	Cut angle	ISO 9013 range**	5	5	5	5
Weldability			Preparation required	Preparation required	Preparation required	Preparation required
Process gases by material (plasma/shield)	Mild steel	Air	Air	Air	Air	Air
	Stainless steel	Air, N ₂ , F5	Air, N ₂ , F5	Air, N ₂ , F5	Air, N ₂ , F5	Air, N ₂ , F5
	Aluminum	Air, N ₂	Air, N ₂	Air, N ₂	Air, N ₂	Air, N ₂
Process amps (cutting)		10-45	20-65	25-85	30-105	30-125

* Capacity for mechanized systems with automatic torch height control.

** ISO 9013 is a standard that defines cut quality of thermally cut parts. The lower the range (range 1 is the lowest), the smaller the angle on the cut face. Cut angle in range 4 is better than in range 5.

LongLife® air and oxygen plasma: MAXPRO200®

Engineered to deliver heavy-duty, high capacity mechanized and handheld cutting and gouging across a wide range of industrial applications.



		MAXPRO200
Capacity	Mild steel	Dross free* (O ₂ /Air)
		Production pierce
		Severance
	Stainless steel	Production pierce
		Severance
	Aluminum	Production pierce
		Severance
Speed* (mild steel)		Book specification at highest output current
		12 mm (1/2") 3415 mm/m (130 ipm)
Cut angle		ISO 9013 range**
Weldability		Ready to weld
Process gases by material (plasma/shield)	Mild steel	Air/Air, O ₂ /Air
	Stainless steel	Air/Air, N ₂ /N ₂
	Aluminum	Air/Air, N ₂ /N ₂
Process amps (cutting)		Not all processes available for all materials
		50-200 beveling (200)

Hypertherm Power source

HyPerformance® Plasma

HyPerformance Plasma systems deliver HyDefinition® cut quality at a fraction of the operating costs. By incorporating Hypertherm's proven HyDefinition, LongLife®, PowerPierce®, HDi® and True Hole® technologies, HyPerformance Plasma boosts overall performance, productivity and profitability. The systems offer unmatched process flexibility to cut, bevel and mark metals, including 3D shapes, up to 160 mm (6-1/4") thick.



			HPR130XD	HPR250XD	HPR400XD	HPR800XD
Capacity	Mild steel	Dross free*	16 mm (5/8")	32 mm (1-1/4")	38 mm (1-1/2")	38 mm (1-1/2")
		Production pierce	32 mm (1-1/4")	38 mm (1-1/2")	50 mm (2")	50 mm (2")
		Maximum cutting capacity	38 mm (1-1/2")	64 mm (2-1/2")	80 mm (3.2")	80 mm (3.2")
	Stainless steel	Production pierce	20 mm (3/4")	32 mm (1-1/4")	45 mm (1-3/4")	75 mm (3")
		Maximum cutting capacity	25 mm (1")	50 mm (2")	80 mm (3.2")	160 mm (6-1/4")
		Maximum pierce**	—	—	75 mm (3")	100 mm (4")
	Aluminum	Production pierce	20 mm (3/4")	25 mm (1")	45 mm (1-3/4")	75 mm (3")
		Maximum cutting capacity	25 mm (1")	50 mm (2")	80 mm (3.2")	160 mm (6-1/4")
Speed* (Mild steel)		Book specification at highest output current	12 mm (1/2") 2200 mm/m (80 ipm)	12 mm (1/2") 3850 mm/m (145 ipm)	12 mm (1/2") 4430 mm/m (170 ipm)	12 mm (1/2") 4430 mm/m (170 ipm)
Cut angle		ISO 9013 range***	2-4	2-4	2-4	2-5
Weldability			Ready to weld	Ready to weld	Ready to weld	Ready to weld
Process gases by material (Plasma/shield)	Mild steel		O ₂ /Air, O ₂ /O ₂	O ₂ /Air, O ₂ /O ₂	O ₂ /Air, O ₂ /O ₂ , Ar/Air	O ₂ /Air, O ₂ /O ₂ , Ar/Air
	Stainless steel		H35/N ₂ , N ₂ /N ₂ , H35-Ar/N ₂ , F5/N ₂ , Ar/Air, Ar/N ₂	H35/N ₂ , N ₂ /N ₂ , H35-Ar/N ₂ , F5/N ₂ , Ar/Air, Ar/N ₂	H35/N ₂ , N ₂ /N ₂ , H35-Ar/N ₂ , F5/N ₂ , Ar/Air, Ar/N ₂	H35/N ₂ , N ₂ /N ₂ , H35-Ar/N ₂ , F5/N ₂ , Ar/Air, Ar/N ₂
	Aluminum		H35/N ₂ , Ar/Air, H35-N ₂ /N ₂	H35/N ₂ , Ar/Air, H35-N ₂ /N ₂	H35/N ₂ , Ar/Air, H35-N ₂ /N ₂ , Ar/Air, Ar/N ₂	H35/N ₂ , Ar/Air, H35-N ₂ /N ₂ , Ar/Air, Ar/N ₂
Process amps (Cutting)		Not all processes available for all materials	30-130	30-260	30-400	30-800

* Feature and material type can influence dross free performance.

** Maximum pierce requires use of an autogas console and controlled motion process. See technical documentation for details.

*** ISO 9013 is a standard that defines cut quality of thermally cut parts. The lower the range (range 1 is the lowest), the smaller the angle on the cut face. Cut angle in range 4 is better than in range 5.

XPR™

The new XPR300 represents the most significant advance in mechanized plasma cutting technology, ever. This next generation system redefines what plasma can do by expanding its capabilities and opportunities in ways never before possible. With unmatched X-Definition™ cut quality on mild steel, stainless steel and aluminum, the new XPR300 increases cut speed, dramatically improves productivity and slashes operating costs by over 50%. New ease-of-use features and engineered system optimization make the XPR300 easier to run with minimal operator intervention, while also ensuring optimal performance and unmatched reliability.



Maximum output power		63 kW
100% duty arc voltage		210 V
Cut chart thickness		mm inches
Pierce capacity	Mild steel (argon-assist)	50 2
	Mild steel (standard O ₂)	45 1-3/4
	Stainless steel	38 1-1/2
	Aluminum	38 1-1/2
Severance capacity	Mild steel	80 3-1/8
	Stainless steel	75 3
	Aluminum	50 2
Cut angle	ISO 9013 range	2-4

Process control and delivery

Three gas connect console options offer unmatched mild steel cut quality with each console delivering successively enhanced cutting capabilities on stainless steel and aluminum. All consoles can be fully controlled through the CNC for high productivity and ease of use.



Core™ console



Vented Water Injection™ (VWI) console



Hypertherm Power source

Consumables

Hypertherm consumables are designed in conjunction with the cutting system to provide optimal performance throughout the life of your plasma system. It is the only way to guarantee that you are using the latest performance-enhancing consumable technologies, machined to the highest quality standards and backed by the combined service resources of Hypertherm and its worldwide network of channel partners.

Technology

- Superior cut quality and reduced or eliminated secondary operations
- Faster cutting speeds and greater thickness capabilities
- Dramatically longer consumable life
- Lower operating cost and higher productivity



Quality

- ISO 9001:2008 registration ensures consistent manufacturing excellence
- Six-sigma manufacturing processes guarantee repeatable machining of critical-to-function dimensions for consistent consumable performance
- Manufactured with state-of-the-art, precision equipment that consistently maintains the high tolerances required by Hyperform's high-performance consumable parts

Service

- Worldwide product support provided in conjunction with our network of channel partners
- Customized process/system application solutions
- Preventive maintenance, world-class service and operator training
- Included open access to Hypertherm's cutting expertise with no additional charge

System components

Nesting software



ProQuest®

Computer numerical controllers (CNCs)



EDGE® Connect



EDGE® Pro 70



EDGE® Pro



MicroEDGE® Pro

Terch height controls (THCs)



Sensor® T1 T140



Sensor® THC



ArmEMU® THC

Capabilities and technology benefits

Plasma capabilities chart

Systems	Cut quality	Mild steel weldability	Q-Alloy mild steel weldability	Productivity	Operating cost	Consumable life	Process flexibility	Application ranges	Price
Air plasma									
Powermax45® XP									
Powermax65®								Light- to medium-duty cutting.	
Powermax85®	● ¹	●	NA	●	●	●	●	Light- to medium-duty mechanized and handheld cutting and gouging.	\$
Powermax105®									
Powermax125®									
LongLife® air and oxygen plasma									
MAXPRO200®	○ ²	●	●	○	○	○	○	Light- to heavy-duty mechanized and handheld cutting and gouging.	\$
HyPerformance® Plasma									
HPR130XD®								Precision cutting, light- to heavy-duty cutting.	
HPR260XD®	○ ³	●	●	○	○	○	○	Precision, light- to heavy-duty mechanized cutting.	\$
HPR400XD®								PowerPierce® technology for extreme mechanized	\$
HPR800XD®								piercing capability	
XPR™									
XPR300™	● ⁴	●	●	●	●	●	●	Highest definition cutting on mild and non-ferrous materials. Precision heavy duty mechanized cutting. Argon Assist technology for thicker piercing capability	\$

Technology benefits of Hypertherm plasma

Systems	XPR plasma	HyPerformance plasma	LongLife air and oxygen plasma	Air plasma
XPR	● X-Definition™ cut quality	● Patented True Hole® technology	● 100% duty cycle	● Lower operating cost with LongLife® process
HPRXD	● Verted Water Injection®	● True Bevel™ technology	● Quick-disconnect torch assembly	● Serial communications enable full control from the CNC
MAXPRO200	● Arc response technologies™	● Patented PowerPierce® technology for extreme piercing capability	● Thicker cutting capability	● Bevel capability up to 45°
Powermax	● 3 Plasma gas mixing for non ferrous	● HDI+ thin stainless technology	● Oxygen and multi-gas capability for improved cut quality, faster cut speeds, and improved wetability	● Automatic gas technology minimizes operator intervention
	● Cool nozzle	● Remote CNC gas switching capability	● Lower operating cost with LongLife® process	● Built and tested to withstand the harshest conditions
	● 50 degree True Bevel™	● More process options for optimizing cut quality	● Thickener cutting capability	● Good wetability
	● Argon-assist	● Highest cut speeds	● Dugan and multi-gas capability for improved cut quality, faster cut speeds, and improved wetability	● Fast cut speeds per recommended thickness
	● WiFi	● Mark, cut, and bevel with same consumables	● Lower operating cost with LongLife® process	● Good cut quality
	● Lowest operating cost	● Hydrofiner™ technology - Hypertherm's leading cut quality	● Serial communications enable full control from the CNC	●
	● Patented True Hole® technology	● Can be used on the largest machine frames	● Bevel capability up to 45°	●
	● True Bevel™ technology	● 100% duty cycle	● Automatic gas technology minimizes operator intervention	●
	● Patented PowerPierce® technology for extreme piercing capability	● Quick-disconnect torch assembly	● Built and tested to withstand the harshest conditions	●
	● HDI+ thin stainless technology	● Thicker cutting capability	● Good wetability	●
	● Remote CNC gas switching capability	● Dugan and multi-gas capability for improved cut quality, faster cut speeds, and improved wetability	● Fast cut speeds per recommended thickness	●
	● More process options for optimizing cut quality	● Lower operating cost with LongLife® process	● Good cut quality	●
	● Highest cut speeds	● Serial communications enable full control from the CNC	●	●
	● Mark, cut, and bevel with same consumables	● Bevel capability up to 45°	●	●
	● Hydrofiner™ technology - Hypertherm's leading cut quality	● Automatic gas technology minimizes operator intervention	●	●
	● Can be used on the largest machine frames	● Built and tested to withstand the harshest conditions	●	●
	● 100% duty cycle	● Good wetability	●	●
	● Quick-disconnect torch assembly	● Fast cut speeds per recommended thickness	●	●
	● Thicker cutting capability	● Good cut quality	●	●
	● Oxygen and multi-gas capability for improved cut quality, faster cut speeds, and improved wetability	●	●	●
	● Lower operating cost with LongLife® process	●	●	●
	● Serial communications enable full control from the CNC	●	●	●
	● Bevel capability up to 45°	●	●	●
	● Automatic gas technology minimizes operator intervention	●	●	●
	● Built and tested to withstand the harshest conditions	●	●	●
	● Good wetability	●	●	●
	● Fast cut speeds per recommended thickness	●	●	●
	● Good cut quality	●	●	●

- Best
- Excellent
- Very good
- Good

¹ Some secondary operations and dress.

²Some secondary operations with virtually no dross.

³ Minimal to no secondary operations with virtually no dress. True Hole® enabled for best hole quality.

⁴ Industry leading cut quality with X-Definition™ technology

HYPERTHERM CONSUMABLE

MAXPRO200® consumables – machine torch

Technologies

Chambered swirl ring

Conical Flow™

CoolFlow™

LongLife®

TrueFlow™

Vented shield

Tool free lead connection

Tool free nozzle

In-line valve process

Mild steel/stainless steel/aluminum consumables

	Amperage	Shield	Shield cap	Nozzle	Swirl ring	Electrode	Water tube
Ar	50 A	220632	220636	220890	220629	220629	220621
			220636 without tab				
	130 A	220636	220636	220892	220488	220467	220621
			220636 without tab				
200 A		420045	220636	420044	220488	220937	220621
			220636 without tab				

Mild steel consumables

	Amperage	Shield	Shield cap	Nozzle	Swirl ring	Electrode	Water tube
O ₂	50 A	220632	220636	220891	220629	220629	220621
			220636 without tab				
	130 A	220481	220636	220893	220488	220467	220621
			220636 without tab				
200 A		220832	220636	220831	220834	220937	220621
			220636 without tab				

Stainless steel/aluminum consumables

	Amperage	Shield	Shield cap	Nozzle	Swirl ring	Electrode	Water tube
N ₂	130 A	220636	220636	220892	220629	020415	220621
			220636 without tab				
	200 A	420045	220636	420044	220629	020415	220621
			220636 without tab				



HyPerformance® HPR800/400/260/130XD® consumables

Technologies

Advanced Axial Swirl Ring

Chambered Swirl Ring

Conical Flow™

CoolCore®

CoolFlow™

HyDefinition®

HyLife®

LongLife®

PowerPierce®

SilverPlus®

TrueFlow™

Vented Shield

HD®

Aluminum consumables

HPR XD				Amperage	Shield cap	Shield	Nozzle retaining cap	Nozzle	Swirl ring	Electrode	Water tube
800	400	260	130								
•	•	•	•	45 A	220747	220202	220756	220201	220180	220308	220340
•	•	•	•	130 A	220747	220198	220756 (H35)	220197	220179	220307 (H35)	220340
•	•	•	•				220756 (Air)			220181 (Air)	
•	•	•	•	200 A	220637	220752	220756	220346	220342	220307	220340
•	•	•	•	260 A	220637	220753	220756	220406	220405	220307	220340
•	•	•	•	400 A	220637	220707	220712	220708	220405	220706	220571
•	•	•	•	600 A	220637	220707	220712 (H35)	220859	220353 (H35)	220706	220571
•	•	•	•				220856 (N ₂)		220405 (N ₂)		
•	•	•	•	800 A <100 mm (F)	220637	220886	220865	220884	220353	220682	220881
•	•	•	•	800 A >100 mm (F)	220637	220886	220712	220884	220350	220682	220881



OXY-FUEL TANAKA TORCH And AUTO TORCH HEIGHT CONTROL SYSTEM (IHT - GERMANY)



GENERAL FEATURES

CNC unit.
Tanaka - Japon oxy Torch.
IHT Sensor OHC
Cutting UP TO 300 MM
Special designed table for oxy cut
Auto Height Control
Torch Protection System for any crash
Auto ignition system
Manual or Auto cut selection
Low or High Preheat Selection
Plasma and oxy combine option.
Oxy Torch unit can be added

OPTIONS

Automatic Nesting software

GENEL ÖZELLİKLER

CNC ünitesi
Tanaka - Japon oksijen Torch
Hypertherm yükseklik kontrol ünitesi
300 mm. ye kadar kesim yapabilme
Oksijen kesime uygun kesim masası
Otomatik yükseklik kontrolü
Çarpmaya karşı Torch koruma sistemi
Otomatik ateşleme sistemi
Manuel yada otomatik kesim seçeneği
Düşük ve yüksek tavlama seçeneği
Plazma ile birleştirme opsiyonu
Arttırılabilir Oxy Torch ünitesi

OPSİYONLAR

Otomatik Nesting (Parça Yerleştirme) yazılımı

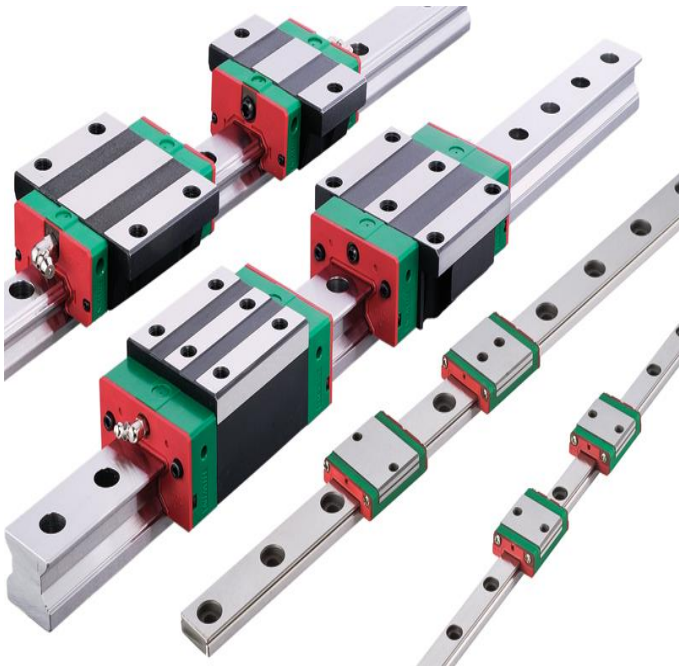




Hiwin Linear Guideways

Linear guideways provides linear motion by re-circulating rolling elements between a profiled rail and a bearing block. The coefficient of friction on a linear guideway is only 1/50 compared to a traditional slide and they are able to take loads in all directions. With these features, a linear guideway can achieve high precision and greatly enhanced moving accuracy.

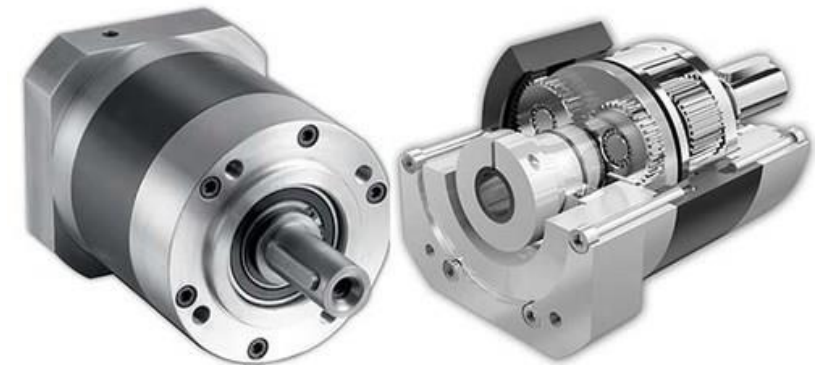
Hiwin Corporation offers multiple linear guideway series, each featuring different options for sizes, loading capabilities, accuracies, and more



MOD 2 ,MOD2,5 Helisal Rack and Pinion
High sensitivity



Servo Planetary Gearbox
Low backlash
Low noise compact gearbox
High sensitivity



Panasonic servo motor and drivers in all axes



Panasonic servo driver (EtherCAT type)

- Real-time communication: 100Mbit/s via CAN application protocol over EtherCAT (CoE)
- Supports position (pp, csp, hm), velocity (pv, csv) and torque control (tq, cst)
- Manual and automatic damping filters
- Complete set of commands for up to 65535 axes per network
- Supported cycle time of 125µs
- Easy wiring using standard Ethernet cables (CAT5e, up to 100m between units)
- Conforms to the following safety standards: ISO13849-1(PL e, CAT3), EN61508(SIL3), EN62061(SILCL3), EN61800-5-2(SIL3, STO), IEC61326-3-1, IEC60240-1

Beckhoff Ethercat I/O Modules

EtherCAT Terminals – Ultra high-speed communication



In analogy to the Beckhoff Bus Terminals, the EtherCAT Terminal system is a modular I/O system consisting of electronic terminal blocks. In contrast to Bus Terminals, where the fieldbus signal is implemented within the Bus Coupler on the internal, fieldbus-independent terminal bus, the EtherCAT protocol remains fully intact down to the individual terminal. In addition to EtherCAT Terminals with E-bus connection, the proven standard Bus Terminals with K-bus connection can also be connected via the BK1120 EtherCAT Bus Coupler. This ensures compatibility and continuity with the existing system. Existing and future investments are protected

ECO JET-PULSE COMPACT CARTRIDGE DUST COLLECTOR

GENERAL FEATURES



COMPACT

Bomaksan branded ECO Series Jet-Pulse Dust Collector takes up less place thanks to its' compact design. It is a plug&play device that contains all accessories on its own.



ECONOMICAL

Bomaksan branded ECO Series Jet-Pulse Dust Collector decreases your installation expenses thanks to its easy setup and your air duct expenses due to its special design suitable to work indoors.



DURABLE & LEAK-PROOF

Side and upper doors of cabin, makeup profile, chassis and carrying legs are produced with sufficient plate thickness and leak-proof is ensured by press inflection unifying with a nut.



SILENT

Bomaksan branded ECO Series Jet-Pulse Dust Collector enhances the air quality of your factory without reasoning noise pollution thanks to its specially designed deadening ventilator and its cabin.



AUTO CLEANING

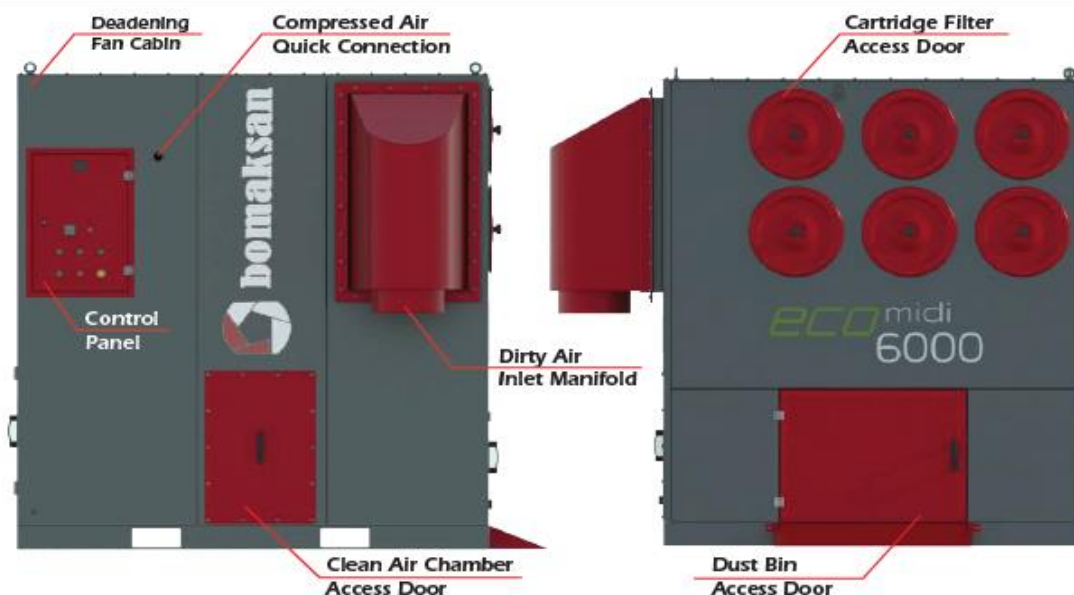
Thanks to its' high yielded automatic cleaning system designed by Bomaksan engineers as part of an R&D project of TUBITAK, while the consumption of compressed air is decreasing, the life and performance of filter increase.



EASY MAINTENANCE

Bomaksan branded ECO Series Jet-Pulse Dust Collector decreases your time and labor expenses minimum due to its custom-engineered cartridge filter and dust bin.

GENERAL OVERVIEW

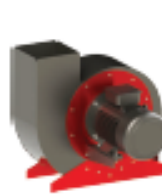


ACCESSORIES

STANDARD ACCESSORIES

FAN

Targeted to satisfy requested flow and pressure, centrifuge type, conforming the standards and with its' direct drive motor its' produced to work quite and vibration free. Fan motor are made by steel as standard and balanced dynamically and statically on specialized plants.



CARTRIDGE FILTER

In ECO series dust collectors; Nanofiber coated, flame retardant, 80/20 blend cartridge filters are standard. In ECO+ series dust collectors, high efficient ePTFE membrane, 100% synthetic cartridge filter are standard. (See pg.4 for more details)



PULSE-VALVE AND AIR TANK

Pulse Valves are made by aluminum cast block and 1" sized. They perform with 24V DC standard voltage as standard. Air tank is produced conforming to compressed container technique and adequate to store the air between two valves.



COMPRESSED AIR REGULATOR

It regulates the pressure of the compressed air coming from compressor and ensures it has been forwarded to air tank as dry, thus the filter cleaning pressure is kept under control and safety of filters is guaranteed.



CONTROL PANEL & dP SEQUENCER

The panel containing thermal switch controlling ventilator engine, contactor, engine protection relay, working/warning lights, emergency stop button and fan start/stop button. dP controlled sequencer is integrated to the control panel



DUST BIN

Dust bin accumulates the dust filtered by cartridge filters. Bomaksan branded dust bins are easy to plug and remove thanks to their brand new fitting equipment. Also ECO series dust collectors contains dust bin ramp as standard to remove the dust bin more easily.



DEADENING FAN CABINET

Specially designed fan cabinet reduces noise of ECO series dust collector and make them run super silent.

INTEGRATED SPARK ARRESTOR

Integrated spark arrestors are designed to capture risky sparks and reduce fire risk of dust collector.

OPTIONAL ACCESSORIES

INLET MANIFOLD

Special designed input manifolds keep duct and entrance velocity as it's best and your filtration unit works the most efficient way. Symmetric design lets you install your manifold either upward or downward.



AUTO START SWITCH

ECO series dust collectors are able to synchronised with your plasma/laser cutting machinery. If you want to start your

SMOKE DETECTOR & FIRE ALARM

ECO series dust collectors can be equipped with smoke detector and fire alarm.

EX-PROOF ACCESSORIES

EXPLOSION VENT

ATEX certified, stainless steel explosion vents are selected with required calculations



PILOT BOX and EX-PROOF COILS

Remote box keep electrical equipments of pulse valves out from explosive and dangerous areas. It also prevents electronic equipments from harsh environment.



EX-PROOF FAN & MOTOR

ATEX certified exproof motor and fan are used, which are suitable for different capacity requirements



UMMAK
CNC PLASMA CUTTING SYSTEMS

Hypertherm®

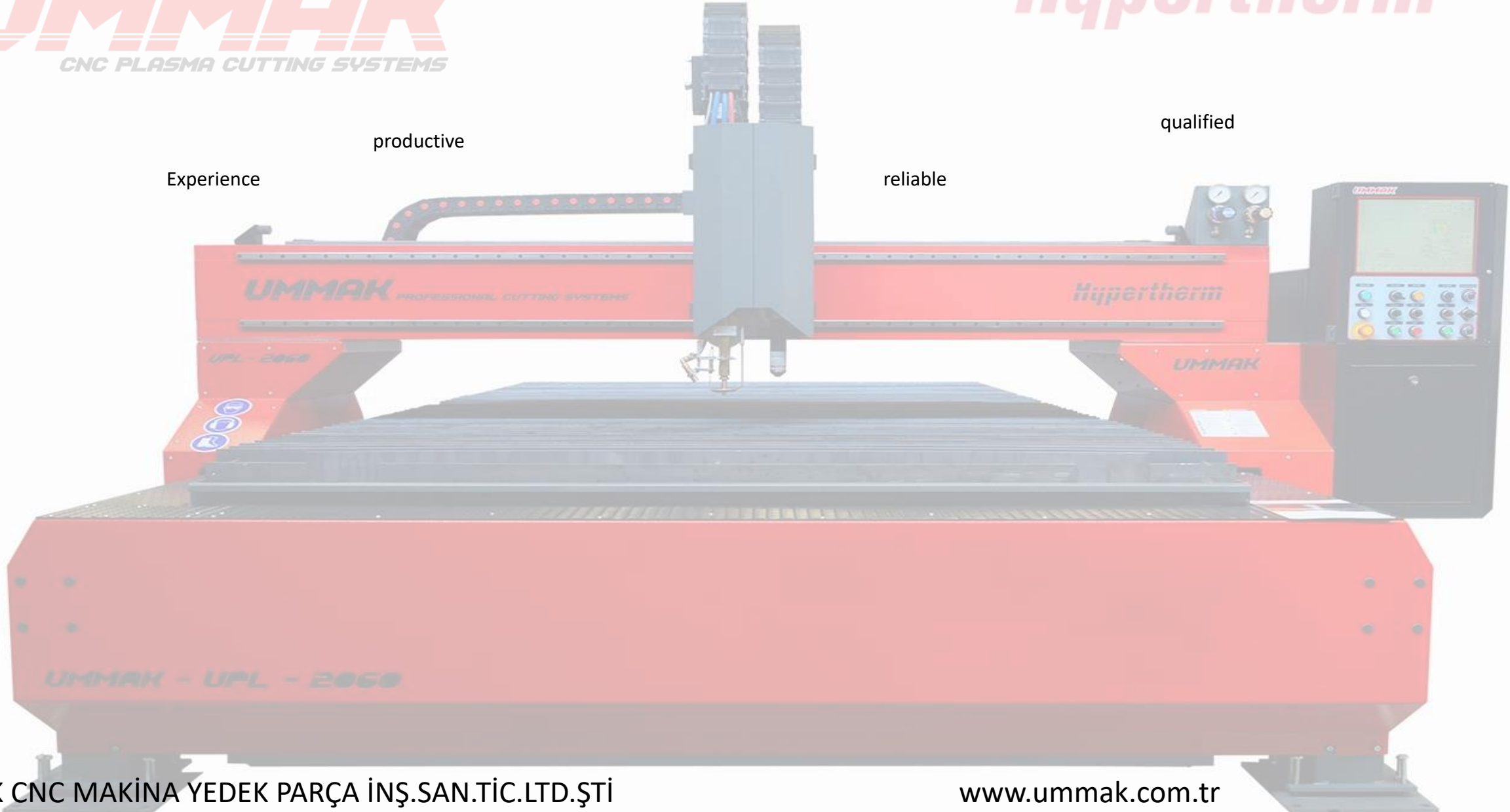
fast

productive

qualified

Experience

reliable



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