

CPL 2040 with
3D - 5 axis cutting head



Uzma CPL Series Plasma Cutting Machines has a double side gear drive and it's designed for positioning capability at high speeds. You will have a precise cutting ability at X-Y axis with linear guide ways and 20m/min speed. It has ability to maintain constant at the same height and the quality, with the Arc control sensor.

Standard Accessories

- Infinity Wesbus CNC Control Unit
- Lantek Expert Cut software with auto nesting
- Plasma Power Source Hypertherm
- Manual Gas Consol- Hypertherm
- Cutting plate alignment function with Laser
- Torch positioning with laser light
- Plasma ignition consol
- Torch Hight Control (THC)
- Two side motion contro system (with rack / pinion)
- Dual side rack, pinion and AC digital Servo motors on X axis.
- Rack, pinion and AC digital Servo motor on Y axis.
- Rotative CNC control panel
- CNC control outputs/inputs for vacum table & filtering unit
- High vacuming capability with lower energy consaption
- Independent cutting table system (table is optional)
- Speed control device
- Multi head oxy fuel cutting possibilities.

MODEL		CPL - Plasma Cutting Machine
Machine Speed	mm/min	20.0000
Positioning Accuracy	mm	0,1
Repeatability	mm	0,05
Torch	Piece	1 (or maximum 2 as option)
Distance Control		Arc Height Control Unit Command THC
Control System		Infinity Wesbus (Linatrol –Canada)
Plasma System		HYPERTERM HPR Series
Cutting Table		• Pneumatic working • Automatic smoke suction table



Main Features

- Visual opportunity to cut comfortable with 19" TFT LCD Touch Screen Monitor
- Positioning capability at high speeds through double-sided gear drive
- Ability to maintain constant at the same height and the quality with arc contour sensor
- 20.000 mm / min speed with linear guide ways. Linear and precise cutting ability at X and Y Axis
- Possibility of sorting hundreds of pieces on the plate with single click
- Opportunity to see the duration of the cut and the percentage of the waste on the screen
- Bridging System; cutting dozens of pieces with a single blasting
- Ability to cut different sizes with minimum space and without any quality losses

Mechanical System

- Machine can be manufactured on requested dimensions from 3 x 6 meter till 6 x 24 meter
- 1 piece of plasma cutting head (as option can be 2 plasma cutting head) and additionally Oxy torches can be added
- Sensitive and rigid body resistance to high speeds
- Y motion system : Rail system and precision gear racks on the H platform
- Double driver rack linear rails
- X Axis : Parallel connected to the surface with rack and linear rails



Gear Box & Motors

- Digital Motors
- Working with 220 V AC, 3 kW total power
- Resolver controlled motors
- 1 kW Motor Power (Minimum)
- Cable Standards EU60 204 (DIN VDE 0113 VDC 0100)
- Planet Type gear box; 6 RAC/min



Standard Capacities with HPR 130

Virtually dress-free production cutting capacity (mild steel) : 16 mm

Maximum piercing capacity (mild steel) : 25 mm

Maximum cutting capacity - edge start (mild steel) : 38 mm

Virtually dress-free production cutting capacity (stainless steel) : 12 mm

Maximum piercing capacity (stainless steel) : 20 mm

Maximum cutting capacity - edge start (stainless steel) : 25 mm

Standard Capacities with HPR 260

Virtually dress-free production cutting capacity (mild steel) : 32 mm

Maximum piercing capacity (mild steel) : 32 mm

Maximum cutting capacity - edge start (mild steel) : 64 mm

Virtually dress-free production cutting capacity (stainless steel) : 20 mm

Maximum piercing capacity (stainless steel) : 25 mm

Maximum cutting capacity - edge start (stainless steel) : 50 mm



Plasma Unit Features

- The outstanding reliability. Hi-Performance plasma systems use a long life and low maintenance cost advantage
- Hi-performance plasma systems have been tested by hyperterm's own labs.
- Between 0° C - 40° C, in a 95% humidity environment the machine can work 100% performance
- The system is simple easy to use design interface contains fewer parts
- Hi-performance Plasma Systems have CSA, NRTL/C,CCC and CE certificate
- Hyperterm has an ISO 9001:2000 certification
- All setting can be made directly from CNC

Plasma Station

- The System working with Arc Height Control
- 120 mm – 150 mm Plasma Station Stroke with torch brake system
- Plasma Power Supply HYPERTERM HPR Series
- Plasma Torch cooled with water and air.

ARC Height Control

Traditional torch height controls require operators to periodically adjust arc voltage to ensure proper cut height. Using Hypertherm's proprietary techniques, The Arc Glide THC continuously samples arc voltage and automatically adjusts arc voltage for proper torch height over the life of the consumables without requiring operator input.





Table System

- Strong Steel construction and slag discharging containers
- Pneumatic working
- Automatic Smoke Suction System
- Opens the area where cutting process is performed.

CNC Unit

- Industrial type PC appeals to today's technology and related hardware
- High level software that contains all cutting processes
- Full automatic nesting system
- The CNC programs, LOS, ESSI, EIA, etc ... to register and run this type of files
- Halt during the cutting operation; rewind and forward. Changing the position of the machine and resume the cutting where it left off.
- Changing the shapes during the cutting then turn back to first shape where you left
- It is possible to see and intervene all process during the cutting (Blasting time, Blasting height cutting speed, etc ...)
- Simulation on the Screen for follow up the actual cutting with the cutting program



Hardware Specifications

- Single Board computer with Intel Celeron 2GHz processor (or Better)
- 4 USB Interfaces – Peripheral devices/File transfer/ Software key
- 3 Serial Interfaces COM1, COM2, COM3, SXGA Graphics
- 2 PS/2 interface for keyboard and mouse
- 1 Parallel interface – LPT1
- Network interface – PJ 45 Ethernet 10/100
- 80 Gb Hard Drive (Minimum)
- 4 Axes motion Control CCA with analog output
- 48 inputs / 32 outputs (2 x 24 / 16 out CCA)
- Industrial stainless steel computer tower
- 19" Touch Screen Display – TFT LCD





3D – 5Axis Cutting Head

Take the out of costly secondary operations such as grinding weld preparation with 5-axis Cutting Head.

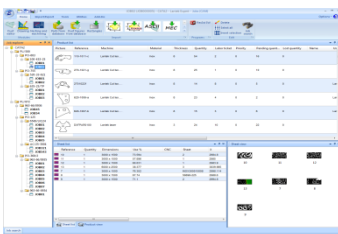
This plasma cutting bevel system is capable of cutting all bevel preparation as bevel pipe hole, sharp bottom & top Blind bevel, cone bevel, V, X, Y and K bevel cuttings.



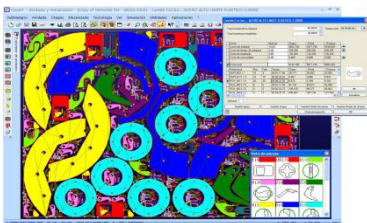
Filter

- Capacity: 4000 - 6000 - 8000 m³/h.
- Filter unit assembled and ready to work with motor, fan, control panel and automatic cleaning system.
- Spark separator that minimizes the fire risk is standart for every model.
- Automatic jet-pulse cleaning (4-5bar) is controlled by differential pressure gauge.
- Filter panel with PTFE membrane.
- Filter efficiency %99.9.
- Average lifetime 20.000 hours.

lantek Expert Cut Software

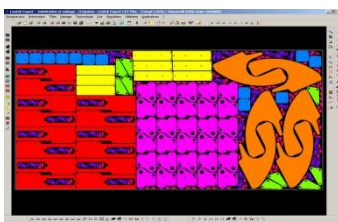


- Lantek Expert cut is a CAD/CAM system specially designed to automate the programing of plasma cutting machines. It is the result of over 25 years experience and close colloboration with manufacturers and users of plasma machines.
- It perfectly combines machine technology with the customer's programing and management needs. Lantek expert Cut offers an advanced, intuitive and friendly interface able to improve the user's efficiency when it comes to programing.



Nesting

- Automatic and manual nesting provides great flexibility and optimum performance.
- The perfect combination of automatic and semi automatic nesting along with powerful manual nesting functions like: copying, moving, rotating, etc.
- The automatic nesting of Lantek Expert optimizes the utilization of parts on any sheet remnant.



Plasma Technology

- Lantek Expert Cut supports technological elements such as : chamfers, loops and bridges. It perfectly manages different types of heads/torches and handles any changes between them.