PS SERIES PLASMA MACHINES

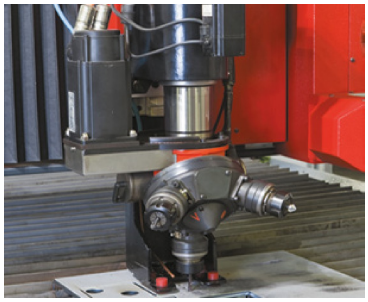
STANDARDS

- Welded Steel Construction
- X,Y axis travel on precision linear rail guides
- Axis speed 30m/min with AC Servo motors
- High accuracy 0,01mm
- High precision plasma cutting technology
- Cutting plate Alignment by laser
- Tecnos PC12 Control Unit
- Lantek Expert Cut II Software
- Plasma Torch
- Ignition Console
- Torch Height with ball screws on linear guides
- Torch Breakaway System

OPTIONS

- Hyperterm XD Plasma Models (from 130amp to 800amp)
- Ce Norm
- Automatic Gas Console
- Manual Gas Console
- Oxy Torch
- Filter Systems
- True Hole Technology
- CNC Bevelling
- Manual Beveling
- Drilling Head(Single or Multi)
- Tube Cutting
- Sectional Cutting Table with fume extraction system
- Water table
- Remote Control on large tables
- MICRO EDGE Pro Control Unit
  (When true hole choosen with drilling, bevel head, tube cutting)

CNC Bevelling

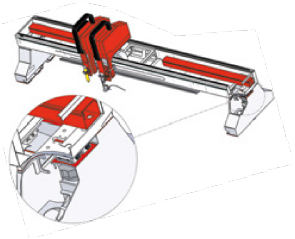


Drilling Head

Tube Cutting

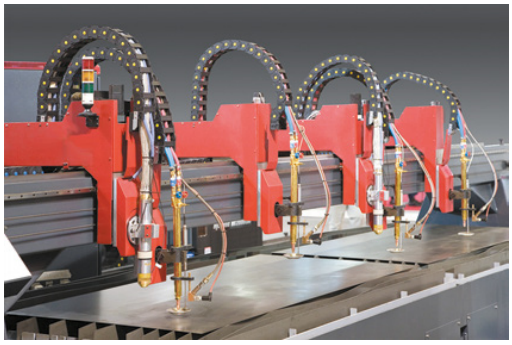
MASSIVE & MOST PRECISE CUTS

PS Series Plasma Machines are designed with fast and accurate positioning, with AC Brushless servo motors, to reach 30m/min axis positioning speeds, which is combined with hyperterm high definition plasma sources, to get high cut quality, excellent cutting speed, perfect surfaces for welding, medium heat input and low harding on cutting surface. PS Series Plasma Machines are designed for most medium fabrication shops and small service centres to large production plants. PS Series capabilities are availability of multi torch applications which are up to 4 pieces x plasma cutting heads.up to 8 pieces x oxy cutting heads. PS Series Plasmas are also able for specific optional equipments.



HIGH PRECISION DRIVE SYSTEM

The double sided drives are fitted with AC servos and very high precision (3 arc minute) planetary gearboxes. This ensures that the drive system is equal to or better than the highest precision systems available in the market. The unique floating drive arrangement allows constant pinion/rack mesh without the excessive wear or compliance associated with spring or pneumatically loaded backlash compensation systems. Particular attention has been given to minimizing runout, backlash and compliance in the drive train which means that we can run with higher gains and higher acceleration without overshooot or vibration. While many drive systems are selected for torque capacity, the JMT system is designed to minimize total lost motion by having high precision components, very high resolution (better than 1 micron) and stiff mechanical components.



PS series plasma machine with its special designed bridge construction have unlimited feature as multitorch and multi process application.

HyPerformance Hyperterm Plasma Systems

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

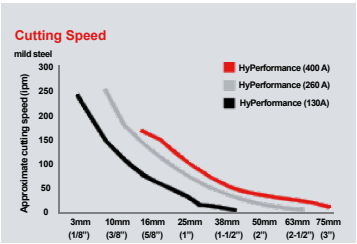
Hyperterm Manual Gas Consoles

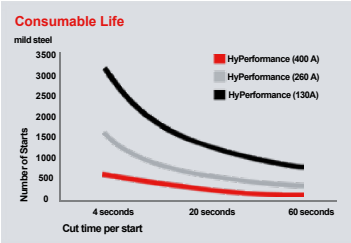
- Provides an intuitive and easy to use operator interface for the system
- Operators manually select gas types and set gas flows.
- Automatically adjusts for variations in incoming gas pressure to produce consistent cutting performance.

Hyperterm Automatic Gas Consoles

- Controls all of the plasma system settings from the CNC.
- Automatically changes processes on the fly to enable rapid switching.
- Automatically adjusts for variations in incoming gas pressure to produce the most consistent cutting performance.

HPR Specifications	Unit	HPR130XD	HPR260XD	HPR400XD
Plasma power source		Hyperterm	Hyperterm	Hyperterm
Max High Quality Cutting capacity (MS) (edge start)	mm	38	64	80
Max High Quality Cutting capacity (MS) (pierce capacity)	mm	16	38	50
Maximum Positioning Speed X/ Y	m/min	35	35	35
Maximum Cutting Speed	m/min	12	12	12
Positioning Accuracy	mm	+/- 0,1	+/- 0,1	+/- 0,1
Repeatability	mm	0,1	0,1	0,1
Output Current	A	130	260	400
Current Regulation Range	A	30-130	30-260	30-400
Gas Console - Automatic	-	O2,N2,H35,F5,Air	O2,N2,H35,F5,Air	O2,N2,H35,F5,Air
Cutting Angle	degree	2 - 4	2 - 4	2 - 4
Plasma Gas	-	O2,N2,H35,F5,Air	O2,N2,H35,F5,Air	O2,N2,H35,F5,Air
Plasma Shield Gas	-	O2,N2,Air,H35	O2,N2,Air,H35	O2,N2,Air,H35



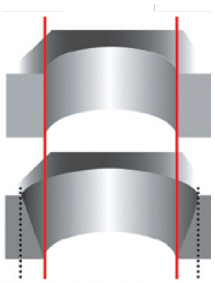


Operating Data

Material	Current (amps)	Thickness (mm)	Approximate Cutting Speed (mm/min)	Thickness (inches)	Approximate Cutting Speed (ipm)
Mild Steel O_2 Plasma O_2 Shield	30	0,5 3 6	5355 1160 665	.018 .135 1/4	215 40 25
O_2 Plasma Air Shield	80	3 6 20	6145 3045 545	.135 1/4 3/4	180 110 25
O_2 Plasma Air Shield	130	6 10 25	4035 2680 550	1/4 3/8 1	150 110 20
O_2 Plasma Air Shield	200	6 12 25 50	5248 3061 1167 254	1/4 1/2 1 2	200 115 45 10
O_2 Plasma Air Shield	260	10 20 64	4440 2170 195	3/8 3/4 2 1/2	180 90 8
O_2 Plasma Air Shield	400	12 25 50 80	4430 2210 795 180	1/2 1 2 3	170 85 30 10
Stainless Steel F5 Plasma N_2 Shield	45	1 2,5 6	5740 2510 845	.036 .105 1/4	240 90 30
F5 Plasma N_2 Shield	80	4 6 10	2180 1225 560	.135 1/4 3/8	105 45 25
H35 Plasma N_2 Shield	130	10 12 25	980 820 260	3/8 1/2 1	40 30 10
H35 Plasma N_2 Shield	260	12 20 25 50	1710 1085 785 270	1/2 3/4 1 2	65 45 30 10
H35 and N_2 Plasma N_2 Shield	400	20 40 80	1810 720 190	3/8 1 1/2 3	75 30 10
N_2 Plasma N_2 Shield	600	40 60 80	970 434 305	1 1/2 2 1/2 3	40 16 12
H35 Plasma N_2 Shield	800	75 125 160	464 155 100	3 5 6 1/4	18 6 4
Aluminium Air Plasma Air Shield	45	1,5 4 6	4420 2575 1690	.048 .135 1/4	220 110 60
H35 Plasma N_2 Shield	130	12 20 25	1455 940 540	1/2 3/4 1	55 40 20
H35 Plasma N_2 Shield	260	12 20 50	5160 2230 390	1/2 3/4 2	190 90 14
H35 Plasma N_2 Shield	400	20 40 80	2420 1190 210	3/4 1 1/2 3	100 50 10
H35 Plasma N_2 Shield	800	75 160	907 179	3 6 1/4	35 7

Hyperterm True Hole Technology

Patented True Hole® technology for mild steel produces significantly better hole quality than what has been previously possible using plasma. True Hole technology is delivered automatically without operator intervention, to produce unmatched hole quality.True Hole cutting technology for mild steel is exclusively available for use on Hypertherm's HPRXD auto gas plasma systems and is automatically applied by our cutting optimization and nesting software and CNC software to holes up to 1" with hole diameter to thickness ratios as low as 1:1.



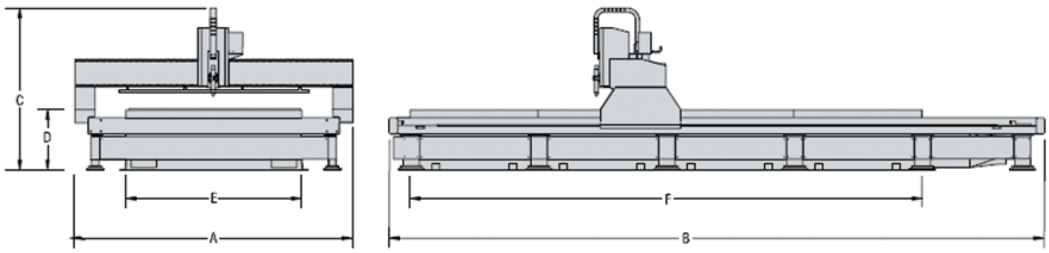
With true hole

Without true hole

Technical Data

TYPES	CUTTING TABLE (mm)	WIDTH (A)(mm)	LENGTH (B)(mm)	HEIGHT (C)(mm)	TABLE HEIGHT (D)(mm)	TABLE WIDTH (mm)	TABLE LENGTH (mm)	X AXIS STROKE (E)(mm)	Y AXIS STROKE (F)(mm)	WEIGHT (kg)
PS 2006	2200 x 6400	4250	8200	2200	750	2200	6400	2800	6200	8000
PS 2008	2200 x 8800	4250	10200	2200	750	2200	8800	2800	8200	8500
PS 2010	2200 x 11200	4250	12200	2200	750	2200	11200	2800	10200	11000
PS 2012	2200 x 12800	4250	14200	2200	750	2200	12800	2800	12200	13000
PS 2014	2200 x 14400	4250	16200	2200	750	2200	14400	2800	14200	15000
PS 2016	2200 x 16800	4250	18200	2200	750	2200	16800	2800	16200	17000
PS 2018	2200 x 19200	4250	20200	2200	750	2200	19200	2800	18200	19000
PS 2020	2200 x 20800	4250	22200	2200	750	2200	20800	2800	20200	21000
PS 2022	2200 x 22400	4250	24200	2200	750	2200	22400	2800	22200	23000
PS 2024	2200 x 24800	4250	26200	2200	750	2200	25600	2800	24200	25000
PS 2026	2200 x 27200	4250	28200	2200	750	2200	27200	2800	26200	27000
PS 2028	2200 x 28800	4250	30200	2200	750	2200	28800	2800	28200	29000
PS 2506	2700 x 6400	4750	8200	2200	750	2700	6400	3300	6200	9000
PS 2508	2700 x 8800	4750	10200	2200	750	2700	8800	3300	8200	9500
PS 2510	2700 x 11200	4750	12200	2200	750	2700	11200	3300	10200	12000
PS 2512	2700 x 12800	4750	14200	2200	750	2700	12800	3300	12200	14000
PS 2514	2700 x 14400	4750	16200	2200	750	2700	14400	3300	14200	16000
PS 2516	2700 x 16800	4750	18200	2200	750	2700	16800	3300	16200	18000
PS 2518	2700 x 19200	4750	20200	2200	750	2700	19200	3300	18200	20000
PS 2520	2700 x 20800	4750	22200	2200	750	2700	20800	3300	20200	22000
PS 2522	2700 x 22400	4750	24200	2200	750	2700	22400	3300	22200	24000
PS 2524	2700 x 24800	4750	26200	2200	750	2700	25600	3300	24200	26000
PS 2526	2700 x 27200	4750	28200	2200	750	2700	27200	3300	26200	28000
PS 2528	2700 x 28800	4750	30200	2200	750	2700	28800	3300	28200	30000
PS 3006	3200 x 6400	5250	8200	2200	750	3200	6400	3800	6200	10000
PS 3008	3200 x 8800	5250	10200	2200	750	3200	8800	3800	8200	10500
PS 3010	3200 x 11200	5250	12200	2200	750	3200	11200	3800	10200	13000
PS 3012	3200 x 12800	5250	14200	2200	750	3200	12800	3800	12200	15000
PS 3014	3200 x 14400	5250	16200	2200	750	3200	14400	3800	14200	17000
PS 3016	3200 x 16800	5250	18200	2200	750	3200	16800	3800	16200	19000
PS 3018	3200 x 19200	5250	20200	2200	750	3200	19200	3800	18200	21000
PS 3020	3200 x 20800	5250	22200	2200	750	3200	20800	3800	20200	23000
PS 3022	3200 x 22400	5250	24200	2200	750	3200	22400	3800	22200	25000
PS 3024	3200 x 24800	5250	26200	2200	750	3200	25600	3800	24200	27000
PS 3026	3200 x 27200	5250	28200	2200	750	3200	27200	3800	26200	29000
PS 3028	3200 x 28800	5250	30200	2200	750	3200	28800	3800	28200	31000
PS 3506	3200 x 6400	5750	8200	2200	750	3700	6400	4300	6200	11000
PS 3508	3700 x 8800	5750	10200	2200	750	3700	8800	4300	8200	11500
PS 3510	3700 x 11200	5750	12200	2200	750	3700	11200	4300	10200	14000
PS 3512	3700 x 12800	5750	14200	2200	750	3700	12800	4300	12200	16000
PS 3514	3700 x 14400	5750	16200	2200	750	3700	14400	4300	14200	18000
PS 3516	3700 x 16800	5750	18200	2200	750	3700	16800	4300	16200	20000
PS 3518	3700 x 19200	5750	20200	2200	750	3700	19200	4300	18200	22000
PS 3520	3700 x 20800	5750	22200	2200	750	3700	20800	4300	20200	24000
PS 3522	3700 x 22400	5750	24200	2200	750	3700	22400	4300	22200	26000
PS 3524	3700 x 24800	5750	26200	2200	750	3700	25600	4300	24200	28000
PS 3526	3700 x 27200	5750	28200	2200	750	3700	27200	4300	26200	30000
PS 3528	3700 x 28800	5750	30200	2200	750	3700	28800	4300	28200	32000
PS 4006	4200 x 6400	6250	8200	2200	750	4200	6400	4800	6200	12000
PS 4008	4200 x 8800	6250	10200	2200	750	4200	8800	4800	8200	12500
PS 4010	4200 x 11200	6250	12200	2200	750	4200	11200	4800	10200	15000
PS 4012	4200 x 12800	6250	14200	2200	750	4200	12800	4800	12200	17000
PS 4014	4200 x 14400	6250	16200	2200	750	4200	14400	4800	14200	19000
PS 4016	4200 x 16800	6250	18200	2200	750	4200	16800	4800	16200	21000
PS 4018	4200 x 19200	6250	20200	2200	750	4200	19200	4800	18200	23000
PS 4020	4200 x 20800	6250	22200	2200	750	4200	20800	4800	20200	25000
PS 4022	4200 x 22400	6250	24200	2200	750	4200	22400	4800	22200	27000
PS 4024	4200 x 24800	6250	26200	2200	750	4200	25600	4800	24200	29000
PS 4026	4200 x 27200	6250	28200	2200	750	4200	27200	4800	26200	31000
PS 4028	4200 x 28800	6250	30200	2200	750	4200	28800	4800	28200	33000

Other sizes are available on request. Design and specifications are subject to change without notice.



PC SERIES PLASMA MACHINES

STANDARDS
- Welded Steel Construction
- X,Y axes travel on linear guides
- High accuracy 0,01mm
- Cutting Plate Alignment by laser
- Tecnos PC12 Control Unit
- Lantek Expert Cut II Software
- Ignition Console
- Torch Breakaway System

OPTIONS
- Hyperterm XD 130amp
- Ce Norm
- Automatic Gas Console
- Manual Gas Console
- Filter System

COMPACT & SIMPLE

PC Series Plasma Machines are compact is fitted with a very simple control so that new or occasional users can be trained in minutes. PC Series Plasma Machines are designed for ducting and light cutting. A high rail machine ideal for HVAC ducting work and otherlight sheet work but built with extra strength and precision so it can be upgraded to high definition plasma cutting for material up to 40 mm.
Featuring a fully machined gantry and based with linear bearings on both longitudinal rails this machine is built to work hard and long. Because of its unitary design there is no need for a complicated installation and if necessary the machine can be readily moved around the workshop to suit changing workloads.

HyPerformance Hyperterm Plasma Systems

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

Hyperterm Manual Gas Consoles

- Provides an intuitive and easy to use operator interface for the system
- Operators manually select gas types and set gas flows.
- Automatically adjusts for variations in incoming gas pressure to produce consistent cutting performance.

Hyperterm Automatic Gas Consoles

- Controls all of the plasma system settings from the CNC.
- Automatically changes processes on the fly to enable rapid switching.
- Automatically adjusts for variations in incoming gas pressure to produce the most consistent cutting performance.

HPR Specifications	Unit	HPR130XD
Plasma power source		Hyperterm
Max High Quality Cutting capacity (MS) (edge start)	mm	38
Max High Quality Cutting capacity (MS) (pierce capacity)	mm	16
Maximum Positioning Speed X/ Y	m/min	35
Maximum Cutting Speed	m/min	12
Positioning Accuracy	mm	+/- 0,1
Repeatability	mm	0,1
Output Current	A	130
Current Regulation Range	A	30-130
Gas Console - Automatic	-	O2,N2,H35,F5,Air
Cutting Angle	degree	2 - 4
Plasma Gas	-	O2,N2,H35,F5,Air
Plasma Shield Gas	-	O2,N2,Air,H35

TYPE	Width (A)(mm)	Length (B)(mm)	Height (C)(mm)	Table Height (D)(mm)	X Axis Stroke (E)(mm)	Y Axis Stroke (F)(mm)	Weight (kg)
PC 1503	2140	4450	1750	750	3110	1600	2200

Other sizes are available on request.