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55" x 98" CNC Plasma Machine

PLASMA-5598C China Generator (20 ~100A)

PLASMA-5598HP Hypertherm Powermax 85 Generator (20 ~ 85A)

59" x 118" CNC Plasma Machine

PLASMA-59118C China Generator (20 ~100A)

PLASMA-59118HP Hypertherm Powermax 85 Generator (20~85A)

General Information

Model	PLASMA-5598 / PLASMA-59118 CNC Plasma Machine
Six Inspection Services	<ol style="list-style-type: none"> 1. Machine Gantry X Axis square rails Parallel vertical accuracy 0.001" (0.03mm) 2. Y Axis square rails Parallel vertical accuracy 0.001" (0.03mm) 3. Z Axis ball screw Parallel vertical accuracy 0.001" (0.03mm) 4. Machine Re position accuracy 0.001" (0.02mm) 5. Machine working accuracy 0.002" (0.05mm) 6. Grating ruler travel accuracy 0.002" (0.05mm)



Features:

- **All “servo motor” driving system: All axes are driven by brush-less type, high torque AC servo motors.**
- Working mode; Untouched arc striking. Auto cutting Height adjustment by system for the best cutting result
- Auto Height protection for safety & fast production
- A variety of Hypertherm Powermax torch styles provide exceptional versatility for hand cutting or gouging, portable automation, X-Y table and robotic cutting or gouging
- Finish jobs faster with cut speeds two and a half times greater than oxy / fuel on 1/2" mild steel.
- Spend less time on grinding and edge preparation due to superior cut and gouge quality.
- No need to change the air pressure. Smart Sense technology ensures that it is always correctly set.
- Drag cut at full output with a patented shield that reduces dross buildup for smoother cutting.
- Tackle different jobs with multiple, easy-to-use torch styles.
- Reduce costs with long consumable life and more up time.
- High power efficiency lowers energy consumption.
- Spring Start technology ensures consistent starting and a more reliable torch.
- Low maintenance for maximum up time.
- DSP CNC controller is setup to accept standard G-code programming formats along with on board conversational applications.
- Optional CAD/CAM system can create and edit part programs then send to machine for easy cutting. DXF files can be imported, modified and edited from here to create a G-code.
- Moving gantry construction for space saving.
- The rigid steel frame construction has been stress relieved prior to finish machining to provide repeat-ability and accuracy.
- Linear guides and sliding blocks are prismatic pre-loaded with recirculation bearings to ensure maximum rapid traverse and precision.
- The X & Y axis are equipped with a precision rack & pinion driving system.
- The Z axis utilizes a ball screw assembly complete with the pre-loaded and ground screw for long life and optimum accuracy.

Specifications

1	Control system	DSP control with USB Interface
2	Command Language	G Code
3	Lathe frame	Heavy duty metal welding
4	Driving system	Japan Yaskawa servo drive & motor
5	X, Y Axis structure	Helical rack and pinion drive
6	Z Axis Structure	Taiwan TBI or HIWIN ball screw
7	X Y Z Axis Square rails	Taiwan HIWIN brand linear rails
8	Electric parts	France Schneider
9	Limited switch	Japan Omron
10	Machine working size	PLASMA-5598 : X*55", Y*98", Z*4" / PLASMA-59118 : X*59", Y*118", Z*4"
11	Machine Size (L x W x H)	PLASMA-5598 : 126" x 84" x 56" / PLASMA-59118 : 131" x 104" x 56"
12	Machine Max. travel speed	590 ipm
13	Machine Max. cutting speed	196 ipm
14	Machine power	3 PH ,220 V
15	Machine weight	PLASMA-5598 : 3,510 lbs. / PLASMA-5598: 3,960 lbs.
16	CAD / CAM Drawing Software	Option



Machine Apply Industry

Applications for cutting various metallic material, such as metal, stainless, galvanize, aluminum, cooper, electrolytic sheet / plate and many more.



China Generator



Hypertherm Powermax 85 Generator

Production Cut Chart

Material	Thickness		Current amps	Production Cut	
	inches	mm		ipm	mm/min
Mild Steel	¼"	6	85	160	4400
	½"	12	85	56	1600
	¾"	20	85	29	680
Stainless Steel	¼"	6	85	164	4600
	½"	12	85	48	1400
	¾"	20	85	24	570
Aluminum	¼"	6	85	172	4900
	½"	12	85	68	1930
	¾"	20	85	37	880

Machine Processing Samples





PLASMA-PCM Portable NC Flame Cutting Machine

Controller & Driving System Only Without Rail & Generator

Moving Rail with Base Per 4 FT each

China Generator Only (20 ~100A)

Hypertherm Powermax 85 Generator Only (20 ~ 85A)



- **Portable for easy to operate at job site or large project**
- **DSP CNC controller is setup to accept standard G-code programming formats along with on board conversational applications.**
- **Rapid Speed 295 ipm**
- **Cutting Speed variable by controller**

