PythonX PLATE



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+ 63

FINELINE



The next evolutionary step in robotic plasma plate cutting

PythonX[®] PLATE from Lincoln Electric[®] is the next generation robotic cutting table that will power up your production and versatility. PythonX PLATE offers better reliability and ease of use when compared to non-robotic plate cutting tables.

Integrated Downdraft and Water tables are available in various sizes. The standard size is 10ft. (5.8m) by 24ft. (7.3m) and custom lengths up to 100ft. (30.5m) are also available.

The PythonX PLATE features a Fanuc Robot that provides easy operation and best in class service from an expansive support network.

FAMILIAR SHOP SETTINGS AND CONTROLS

PythonX PLATE strengths include sensible integration of standard plate-cutting methods, shop terminology, and reliance on standard controls. The PythonX PLATE shares the same operating system as the PythonX SPG. The key differences between a conventional plasma CNC cutting table and the PythonX PLATE lets you go beyond traditional plate cutting with 3D capability.

ROBOTIC SOFTWARE THAT HELPS CUT TIME AND MONEY

Processing all types of profiles quickly is mainly due to Full Circle[®] robotic cutting software suite. Full Circle makes administration time—inventory tracking, part detailing, production, efficiency, and quality control—much less costly.





6-AXIS ROBOTIC CONTROL

An industrial robotic arm coupled with a Swiss-made linear guideway and rack and pinion provides reliable precision and flexibility.

FINELINE® HIGH DEFINITION PLASMA SYSTEM

This powerful 300A, 100% duty cycle helps deliver exceptional cut quality and consumable life for all day production. The combination of our proven inverter technology with our patented 1.5" (38 mm) diameter Magnum[®] PRO plasma torch and consumables allow for repeatable cuts, fast gas response, arc stability & less secondary processing reducing operating costs.

INTEGRAL PRESSURE BOOSTER SYSTEM

Run your compressor at normal psi (100) without exerting your shop air. AirPack comes standard to supply clean, dry, 220+ psi air to the machine.

CAMERA NEST SQUARING

A high-precision camera locates the nest and can move the entire nest or parts within the nest. Also, it reduces manual setup and plate repositioning. Cuts bevels, grating, and bolt holes with minimal operator intervention.

OPERATOR STATION

Controls, monitors, and communicates all machine functions. Comes standard with industrial PC and Full Circle robotic plasma software suite to administer batch operations and real-time control. Multilingual HMI allows product standardization.

INTEGRATED DOWNDRAFT OR WATER TABLE*

Multi-zone downdraft tables pull fume into the material bed to facilitate dry cutting operation and fume control via a secondary ventilation system. Water tables allow the capture of a portion of the fume, particulate, and debris from the cutting process.

INKJET MARKING*

Inkjet layout capability is ideal for stair treads, connection angles/ gusset, part identification and connection weldment layouts for channels, HSS sections and plate. Key features include a customizable "dot" size and frequency. Path optimization for inkjet applications automatically minimizes processing times.











PythonX PLATE

FROM THE INDUSTRY LEADERS IN PLASMA CUTTING Lincoln Electric presents PythonX PLATE, advanced plate cutting technology



MATERIAL CAPACITY

PROFILE	MINIMUM IN (MM)	MAXIMUM IN (MM)	
BEAM (Width)	4 (101)	44 (1016)*	
BEAM (Flange Height)*	4 (101)	8 (203)	
HSS TUBE	3x3 (76x76)	20x8 (508x203)	
CHANNEL (Flange Height)*	1.25 (31.75)	8 (203)	
CHANNEL (Width)	3 (76.2)	18 (457) FT (M)	
PLATE		10x64 (3.04x19.51)**	

* Based on the use of 4" (101.6mm) Stand-offs used to support material on the table bed.

**Custom sizes can be accomodated up to indicated maximum.



MATERIAL BED SIZE

TABLE LENGTH FT(MM)	RAIL LENGTH FT(MM)	FLOORSPACE FT (MM)	
16 (4877)	24.6 (7500)	28.2 (8610)	
24 (7315)	32.8 (10000)	36.5 (11110)	
32 (9754)	41 (12500)	44.7 (13610)	
40(12192)	49.2 (15000)	52.9 (16110)	
48(14630)	57.4 (17500)	61.1 (18610)	
56 (17069)	65.6 (20000)	69.3 (21110)	
64 (19507)	73.8 (22500)	77.5 (23610)	



PLASMA CUTTING SPECIFICATIONS

MILD STEEL	MATERIAL THICKNESS(MM)	TRAVEL SPEED(MM/MIN)	MATERIAL THICKNESS (IN)	TRAVEL SPEED(IPM)	CUTTING GASES (PLASMA/SHEILD)
Pierce capacity	45	750	1.75	30	Oxygen/Air
Sever capacity*	75	150	3	б	Oxygen/Air
STAINLESS STEEL	MATERIAL THICKNESS(MM)	TRAVEL SPEED(MM/MIN)	MATERIAL THICKNESS (IN)	TRAVEL SPEED(IPM)	CUTTING GASES (PLASMA/SHEILD)
Pierce capacity	35	825	1.25	38	Air/Nitrogen
Sever capacity*	50	300	2	11	Air/Nitrogen
ALUMINUM	MATERIAL THICKNESS(MM)	TRAVEL SPEED(MM/MIN)	MATERIAL THICKNESS (IN)	TRAVEL SPEED(IPM)	CUTTING GASES (PLASMA/SHEILD)
Pierce capacity	30	1375	1	65	Air/Nitrogen
Sever capacity*	50	300	2	11	Air/Nitrogen

* Edge start recommended.

This is not a complete list of thickness and process that are available. Please reference the cut charts for complete cutting specifications.



SOFTWARE + CONTROLS





An easy solution to resolve torch misalignment that can arise in real-world manufacturing. In just a few minutes, you can automatically recalibrate your PythonX PLATE and return to producing the best cut quality.

FEATURE-RICH CNC SOFTWARE SUITE DRIVES REAL TIME CONTROL AND BATCH OPERATIONS

Lincoln Electric makes it easy to connect your PythonX PLATE with your PythonX SPG with Full Circle robotic CNC software to help improve your bottom line. Optimize efficiency, adjust settings, cuts and track inventory. Help improve productivity with seamless cloud connectivity that allows real-time analytics to improve operational efficiency.

BUILDER Quickly, easily detail parts from scratch.

NESTER

Save material by processing with our enchanced nesting capability.

DIRECTOR

More easily produce parts and control all aspects of the production process.

TRACKER

Help improve productivity with seamless cloud connectivity, that allows real-time analytics to increase operational efficiency.

PYTHONX

Connect with PythonX:

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