



PythonX STRUCTURAL FineLine 300HD

THE MOST POWERFUL SINGLE-SOURCE SOLUTION IN THE MARKET

Lincoln Electric® advances cutting technology by adding the FineLine® High Definition Plasma Power Source to the PythonX® STRUCTURAL System. This powerful 300A, 100% duty cycle delivers 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.

SUPERIOR CUT QUALITY AND CONSISTENCY

Smallest Diameter 300A Torch in the Industry at 1.5" (38 mm)

Minimize secondary processing and maximize robotic cut capabilities with the Magnum Pro LC300M torch, the smallest diameter high-definition 300A plasma torch in the industry.

Maintain Cut Quality Throughout Consumable Life

In industries where every millimeter counts, we add an extra degree of precision and quality to your cut. This results in outstanding consumable life that maintains a consistent ISO 9013* Range 3 on mild steel in production.

Reduce Secondary Operations

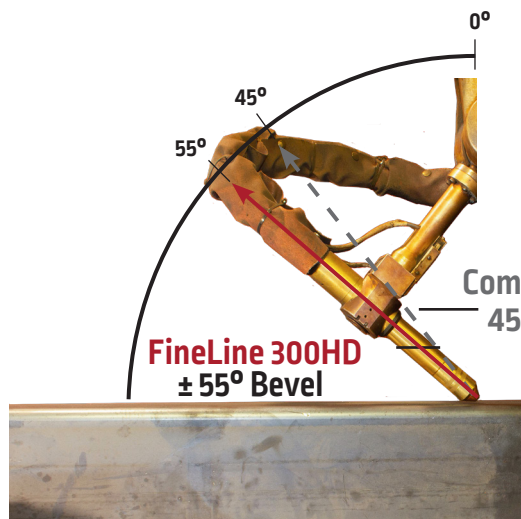
Engineering advancements in the FineLine 300HD system result in faster cut speeds, sharp edges, reduced kerf lines, and nearly dross-free cuts. The system supports oxygen, nitrogen, argon, air and H17 for cutting and marking. This produces cleaner and smoother edge finishes, which helps reduce the need for secondary processing such as grinding for weld preparation.

* The International Standards Organization (ISO) 9013 measures the quality of the cut surfaces of thermally cut materials in ISO 9013. Please review the standard for more information at www.ISO.org

33%
Smaller Diameter Torch

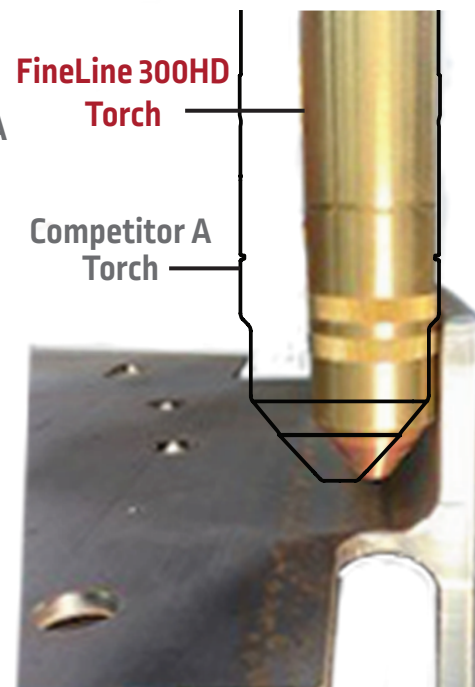
FineLine 300HD
1.5" (38 mm)
Diameter

Competitor A
2.23" (57 mm)
Diameter



FineLine 300HD
Torch

Competitor A
Torch



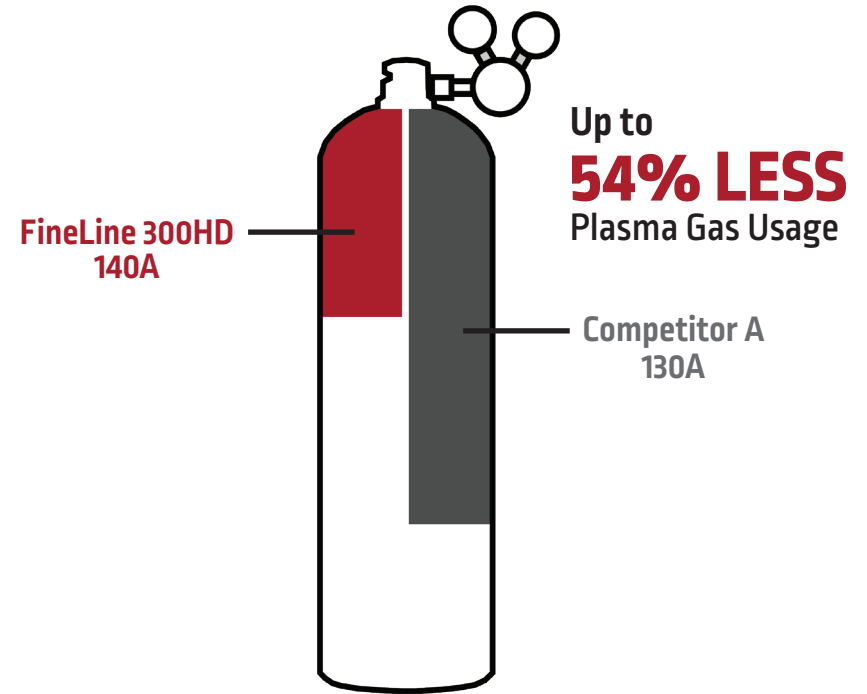
LOWER OPERATING COSTS

Cut More Using Less Gas

Lincoln Electric's advanced plasma torch technology does not vent plasma gas, providing efficient plasma gas consumption for given cutting parameters. Our patented plasma torch and consumables allow for consistent cuts, and our system uses up to 54% less plasma gas than competing technology when cutting at 140A.

Smart Consumable Design

FineLine 300HD technology controls operating costs by using the same set of consumables for all cutting needs including layout marking, bevel cutting and for processing grating. The system also uses a fast switch transferred arc for extended nozzle life. The User Interface will automatically select the optimal consumable setting providing a choice between production, quality or edge start cutting profiles.



EXCEPTIONAL RELIABILITY AND PRODUCTIVITY

Industry Proven Inverter Design

The FineLine power supply was built on the industry-proven inverter design elements of Lincoln Electric Welders that have been used for the last thirty years. Internal components are designed and tested to run cool for long life in high-temperature environments. Electronics are fully encapsulated and protected. In fact, FineLine 300HD power supply is IP-23 rated.

2X PLUS
Consumable Life*
VS Previous System



Industry Leading Warranty

When we say the FineLine 300HD system will outperform and outlast any competitive system, we're confident enough about that claim to back it up with a three-year Lincoln Electric warranty on the system. You can extend the duration by two years** with the Extended Warranty program. Competing companies will give you two years.



*Cutting at 140A on PythonX STRUCTURAL

**Available only in the United States and Canada. Visit www.lincolnelectric.com for more information.

PYTHONX
STRUCTURAL

FINELINE 300HD - SPECIFICATIONS

Product Name	Product Number	Input Power Voltage/Phase /Hertz	Rated Output: Current/ Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Plasma Gas Maximum Flow Rate	Shield Gas Maximum Flow Rate	Pre/ Post Gas Maximum Flow Rate	Inlet Gas Pressure	H x W x D in (mm)	Net Wt. lb (kg)
FINELINE 300HD Power Supply	K4900-1	380-415/ 460/575V/3Ph/ 50/60Hz	300A/210V/100%	3PH/100% /123/108/95	20-300A	92 SCFH (2605 SLPH) Oxygen	250 SCFH (7079 SLPH) Air	125 SCFH (3540 SLPH) Nitrogen	105-145 PSI (7.6-10 Bar)	50.40x33x36.93 (1280x838x938) Power Supply Only	750 (340.2) Power Supply Only

CUTTING CAPACITY - Mild Steel

Current	Thickness in. (mm)	Speed ipm (m/min.)	Cutting Gasses (Plasma/Shield)
30	0.036 (1)	105 (2625)	Oxygen/Oxygen
	0.078 (2)	65 (1625)	
	3/16 (5)	30 (725)	
80	0.135 (4)	180 (4300)	Oxygen/Air
	1/4 (6)	110 (3050)	
	1/2 (12)	50 (1400)	
140	0.135 (4)	260 (6000)	
	3/8 (10)	120 (2925)	
	1/2 (12)	86 (2375)	
	3/4 (20)	55 (1325)	
200	1/4 (6)	230 (6075)	
	1/2 (12)	120 (3200)	
	1 (25)	50 (1300)	
	2 (50)*	7 (200)	
300	1/2 (12.0)	135 (3550)	
	1 (25.0)	70 (1800)	
	2 (50)*	21 (550)	
	3 (75)*	6 (150)	

* 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



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CUSTOMER ASSISTANCE POLICY

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