SPIRIT[®] II 150

FINELINE[™] HIGH DEFINITION PLASMA CUTTING TECHNOLOGY





Spirit II 150 shown with Automatic Gas Console (AGC) configuration

KEY FEATURES

The Spirit[®] II series plasma cutting power sources with FineLine[™] High Definition Plasma Cutting Technology delivers the best cut quality in the industry. Our combination of patented processes, torch and consumable design ensures a precise gas flow that creates a consistent shape in the plasma arc.

Exceptional pierce, cut and marking capabilities, virtually dross free, with high definition edge quality of 2 degrees or less of a cut edge bevel

Designed to use up to 78% less plasma gas than the competition for lower operating costs

Robust design components with rigorous manufacturing and testing standards for exceptional product reliability and productivity

Processes » Plasma Cutting and Marking

Output » 150A DC @ 100% Duty Cycle

Product Number » See literature E15.17

	Cutting Capacity			
Туре	Production Pierce	Max. Thickness Edge Start with Dross		
Mild Steel	1.25 (32 mm)	1.50 in. (38 mm)		



OPERATING DATA

		Mild Steel				
Amp	Gas	Speed ipm (m/min.)	Thickness in. (mm)	Атр		
30	O_2 Plasma O_2 Shield	105 (2.615) 65 (1.615) 40 (1.285)	0.036 (1.0) 0.075 (2.0) 0.135 (3.0)	30		
50		200 (4.885) 180 (4.660) 75 (2.075)	0.075 (2.0) 0.125 (3.0) 1/4 (6.0)	50		
70 		190 (4.995) 120 (3.265) 75 (3.105)	0.125 (3.0) 1/4 (5.0) 3/8 (6.0)	70		
150	O ₂ Plasma Air Shield	150 (3.950) 65 (1.850) 35 (0.800)	1/4 (6.0) 1/2 (12.0) 3/4 (20.0)	100		
70 100 150		165 (4.305) 90 (2.485) 40 (1.040) 25 (0.625) 15 (0.385)	1/4 (6.0) 1/2 (12.0) 1 (25.0) 1-1/4 (32.0) 1-1/2 (38.0)*	150		
		inum	Alum			
* Requires edg		150 (3.885)	0.040 (1.0)	30		
		90 (2.360)	0.080 (2.0)	50		
	Air Plasma	250 (6.400) 80 (1.920) 30 (0.820)	0.080 (2.0) 3/16 (5.0) 1/2 (12.0)	70		
	N ₂ Shield	105 (2.710) 90 (2.210) 70 (1.890)	1/4 (6.0) 3/8 (10.0) 1/2 (12.0)	100		
		145 (3.770) 90 (2.430) 45 (0.990)	1/4 (6.0) 1/2 (12.0) 3/4 (20.0)	150		

Stainless Steel						
Атр	Thickness in. (mm)	Speed ipm (m/min.)	Gas			
30	0.036 (1.0) 0.075 (2.0)	200 (4.855) 90 (3.260)	Air Plasma Air Shield			
50	0.075 (2.0) 0.120 (3.0) 1/4 (6.0)	105 (2.565) 65 (1.685) 40 (1.075)				
70	0.135 (3.0) 3/8 (6.0)	120 (3.210) 50 (2.050)	Air Plasma			
100	3/8 (10.0) 1/2 (12.0)	80 (1.935) 55 (1.540)	N ₂ Shield			
150	1/4 (6.0) 1/2 (12.0) 3/4 (20.0)	150 (3.910) 85 (2.330) 45 (1.030)				
70	3/16 (5.0)	80 (2.030)				
100	1/4 (6.0)	100 (2.625)	H17 Plasma			
150	1/2 (12.0) 3/4 (20.0)	60 (1.610) 40 (0.940)	N ₂ Shield			

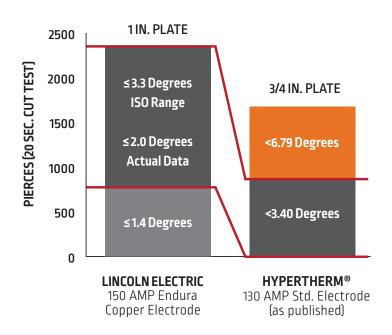
* Requires edge start or moving pierce

CUT QUALITY OVER CONSUMABLE LIFE



Spirit II 150 » 150A, 3/8 in. (10 mm) Mild Steel

Based on testing performed in lab conditions in 2014





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SPIRIT[®] II 275

FINELINE[™] HIGH DEFINITION PLASMA CUTTING TECHNOLOGY





Spirit II 275 shown with Automatic Gas Console (AGC) configuration

KEY FEATURES

The Spirit[®] II series plasma cutting power sources with FineLine[™] High Definition Plasma Cutting Technology delivers the best cut quality in the industry. Our combination of patented processes, torch and consumable design ensures a precise gas flow that creates a consistent shape in the plasma arc.

Exceptional pierce, cut and marking capabilities, virtually dross free, with high definition edge quality of 2 degrees or less of a cut edge bevel

Designed to use up to 78% less plasma gas than the competition for lower operating costs

Robust design components with rigorous manufacturing and testing standards for exceptional product reliability and productivity

Processes » Plasma Cutting and Marking

Output » 275A DC @ 100% Duty Cycle

Product Number » See literature E15.17

Cutting Capacity

Туре	Production Pierce	Max. Thickness Edge Start with Dross
Mild	1.50 in.	2.50 in.
Steel	(38 mm)	(60 mm)



OPERATING DATA

Stainless Steel					
Amp	Thickness in. (mm)	Speed ipm (m/min.)	Gas		
30	0.036 (1.0) 0.075 (2.0)	200 (4.855) 90 (3.260)	Air Plasma Air Shield		
50	0.075 (2.0) 0.120 (3.0) 1/4 (6.0)	105 (2.565) 65 (1.685) 40 (1.075)			
70	0.135 (3.0) 3/8 (6.0)	120 (3.210) 50 (2.050)			
100	3/8 (10.0) 1/2 (12.0)	80 (1.935) 55 (1.540)			
150	1/4 (6.0) 1/2 (12.0) 3/4 (20.0)	150 (3.910) 85 (2.330) 45 (1.030)	Air Plasma N ₂ Shield		
200	1/4 (6.0) 5/8 (16.0) 1 (25.0)	200 (5.220) 75 (1.890) 40 (1.050)			
275	1/2 (12.0) 3/4 (20.0) 1 (25.0) 1-1/4 (32.0)* 1-1/2 (38.0)*	120 (3.220) 80 (1.940) 55 (1.435) 35 (0.880) 25 (0.640)			
70	3/16 (5.0)	80 (2.030)			
100	1/4 (6.0)	100 (2.625)	_		
150	1/2 (12.0) 3/4 (20.0)	60 (1.610) 40 (0.940)			
200	3/8 (10.0) 5/8 (16.0) 1 (25.0)	80 (2.010) 60 (1.515) 35 (0.915)	H17 Plasma N ₂ Shield		
260	3/8 (10.0) 3/4 (20.0) 1 (25.0) 1-1/4 (32.0)*	85 (2.140) 55 (1.315) 33 (0.875) 26 (0.650)			

* Requires edge start or moving pierce

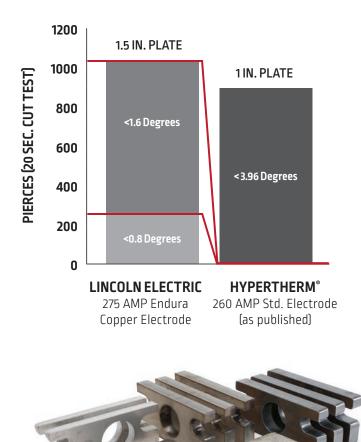
Mild Steel					
Amp	Thickness in. (mm)	Speed ipm (m/min.)	Gas		
30	0.036 (1.0) 0.075 (2.0) 0.135 (3.0)	105 (2.615) 65 (1.615) 40 (1.285)	$O_2 Plasma O_2 Shield$		
50	0.075 (2.5) 0.125 (3.0) 1/4 (6.0)	200 (4.885) 180 (4.660) 75 (2.075)			
70	0.125 (3.0) 1/4 (5.0) 3/8 (6.0)	190 (4.995) 120 (3.265) 75 (3.105)			
100	1/4 (6.0) 1/2 (12.0) 3/4 (20.0)	150 (3.950) 65 (1.850) 35 (0.800)			
150	1/4 (6.0) 1/2 (12.0) 1 (25.0)	165 (4.305) 90 (2.485) 40 (1.040)	O₂ Plasma Air Shield		
200	1/4 (6.0) 1/2 (12.0) 3/4 (20.0) 1 (25.0)	230 (6.100) 120 (3.160) 75 (1.810) 50 (1.310)			
275	1/2 (12.0) 3/4 (20.0) 1 (25.0) 1-1/4 (32.0) 1-1/2 (38.0) 2 (50.0)* 2.5 (65.0)*	125 (3.290) 90 (2.190) 65 (1.690) 45 (1.120) 25 (0.645) 15 (0.395) 9 (0.202)			
	Alum	inum			
30	0.040 (1.0)	150 (3.885)			
50	0.080 (2.0))	90 (2.360)			
70	0.080 (2.0) 3/16 (5.0) 1/2 (12.0)	250 (6.400) 80 (1.920) 30 (0.820)			
100	1/4 (6.0) 3/8 (10.0) 1/2 (12.0)	105 (2.710) 90 (2.210) 70 (1.890)			
150	1/4 (6.0) 1/2 (12.0) 3/4 (20.0)	145 (3.770) 90 (2.430) 45 (0.990)	Air Plasma N ₂ Shield		
200	1/4 (6.0) 1/2 (12.0) 3/4 (20.0)	190 (4.995) 110 (2.995) 65 (1.575)			
275	3/8 (10.0) 1/2 (12.0) 3/4 (20.0) 1 (25.0)* 1-1/4 (32.0)* 1-1/2 (38.0)*	160 (3.930) 125 (3.375) 85 (2.055) 60 (1.565) 45 (1.120) 25 (0.645)			

CUT QUALITY OVER CONSUMABLE LIFE



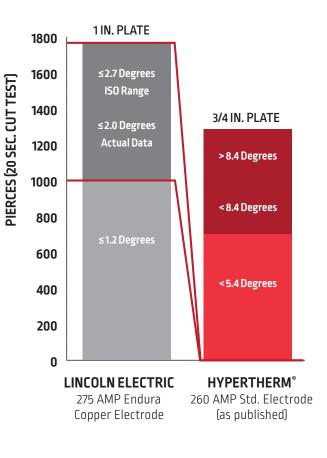
Spirit II 275 » 275A, 1.5 in. (38.1 mm) Mild Steel

Based on testing performed in lab conditions in 2012



Spirit II 275 » 200A, 1 in. (25.4 mm) Mild Steel

Based on testing performed in lab conditions in 2014



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SPIRIT[®] II 400

FINELINE[™] HIGH DEFINITION PLASMA CUTTING TECHNOLOGY



KEY FEATURES

The Spirit[®] II series plasma cutting power sources with FineLine[™] High Definition Plasma Cutting Technology delivers the best cut quality in the industry. Our combination of patented processes, torch and consumable design ensures a precise gas flow that creates a consistent shape in the plasma arc.

- Exceptional pierce, cut and marking capabilities, virtually dross free, with high definition edge quality of 2 degrees or less of a cut edge bevel
- Designed to use up to 78% less plasma gas than the competition for lower operating costs
- Robust design components with rigorous manufacturing and testing standards for exceptional product reliability and productivity.

Processes » Plasma Cutting and Marking

Output » 400A DC @ 100% Duty Cycle

Product Number » See literature E15.17

Cutting Capacity			
Туре	Production Pierce	Max. Thickness Edge Start, No Dross	
Mild Steel	2.0 (50 mm)	3.0 in. (75 mm)	

OPERATING DATA

1-1/2 (38.0)

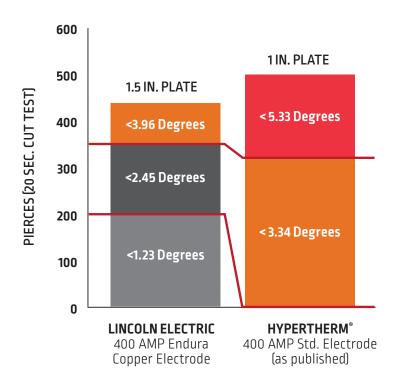
35 (0.895)

Mild Steel			Stainless Steel				
Amp	Thickness in. (mm)	Speed ipm (m/min.)	Gas	Атр	Thickness in. (mm)	Speed ipm (m/min.)	Gas
30	0.036 (1.0) 0.075 (2.0) 0.135 (3.0)	105 (2.615) 65 (1.615) 40 (1.285)	$O_2 Plasma O_2 Shield$	50	0.075 (2.5) 0.120 (3.0) 1/4 (6.0)	105 (2.565) 65 (1.685) 40 (1.075)	
50	0.075 (2.5) 0.125 (3.0) 1/4 (6.0)	200 (4.885) 180 (4.660) 75 (2.075)		70	0.135 (3.0) 3/8 (6.0)	120 (3.210) 50 (2.050)	Air Plasma
	0.125 (3.0)	190 (4.995)	-	100	3/8 (10.0) 1/2 (12.0)	80 (1.935) 55 (1.540)	N ₂ Shield
70	1/4 (5.0) 3/8 (6.0)	120 (3.265) 75 (3.105)		150	1/4 (6.0) 1/2 (12.0) 3/4 (20.0)	150 (3.910) 85 (2.330) 45 (1.030)	
100	1/4 (6.0) 1/2 (12.0) 3/4 (20.0)	150 (3.950) 65 (1.850) 35 (0.800)	_	200	1/4 (6.0) 5/8 (16.0) 1 (25.0)	200 (5.220) 75 (1.890) 40 (1.050)	
150	1/4 (6.0) 1/2 (12.0) 1 (25.0)	165 (4.305) 90 (2.485) 40 (1.040)	- O Plasma	275	1/2 (12.0) 3/4 (20.0) 1 (25.0)	120 (3.220) 80 (1.940) 55 (1.435)	H17 Plasma N ₂ Shield
200	1/4 (6.0) 1/2 (12.0) 3/4 (20.0) 1 (25.0)	230 (6.100) 120 (3.160) 75 (1.810) 50 (1.310)	O, Plasma Air Shield	400	1/2 (12.0) 1 (25.0) 1-1/2 (38.0) 2 (50.0)*	105 (3.415) 50 (1.690) 30 (0.895) 18 (0.410)	
	1/2 (12.0) 3/4 (20.0)	125 (3.290) 90 (2.190)		70	3/16 (5.0)	80 (2.030)	
275	1 (25.0) 1-1/4 (32.0)	65 (1.690) 45 (1.120)		100	1/4 (6.0)	100 (2.625)	
	1/2 [12.0] 3/4 [20.0]	160 (4.205) 110 (2.700)	-	150	1/2 (12.0) 3/4 (20.0)	60 (1.610) 40 (0.940)	
400	1 (25.0) 1-1/2 (38.0) 2 (50.0) 2-1/2 (65.0)*	85 (2.200) 50 (1.275) 33 (0.860) 15 (0.381)		200	3/8 (10.0) 5/8 (16.0) 1 (25.0) 3/8 (10.0)	80 (2.010) 60 (1.515) 35 (0.915) 85 (2.140)	H17 Plasma N ₂ Shield
	3 (75.0)*	8 (0.203)		260	3/4 (20.0) 1 (25.0)	55 (1.315) 33 (0.875)	
50	0.080 (2.0)	90 (2.360)			1/2 (12.0)	105 (2.750)	
70	0.080 (2.0) 3/16 (5.0) 1/2 (12.0)	250 (6.400) 80 (1.920) 30 (0.820)		400	1 (25.0) 1-1/2 (38.0) 2 (50.0)*	50 (1.310) 30 (0.7765) 18 (0.470)	
100	1/4 (6.0) 3/8 (10.0) 1/2 (12.0)	105 (2.710) 90 (2.210) 70 (1.890)		* Requires edge sta	art or moving pierce		
150	1/4 (6.0) 1/2 (12.0) 3/4 (20.0)	145 (3.770) 90 (2.430) 45 (0.990)	Air Plasma N ₂ Shield				
200	1/4 (6.0) 1/2 (12.0) 3/4 (20.0)	190 (4.995) 110 (2.995) 65 (1.575)					
275	3/8 (10.0) 1/2 (12.0) 3/4 (20.0)	160 (3.930) 125 (3.375) 85 (2.055)					
400	1/2 (12.0) 1 (25.0) 1-1/2 (38.0)	150 (3.950) 75 (1.945) 35 (0.895)					

CUT QUALITY OVER CONSUMABLE LIFE



Spirit II 400 » 400A, 1.5 in. (38.1 mm) Mild Steel Based on testing performed in lab conditions in 2012





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