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)	H17 Plasma N ₂ Shield			
200	3/8 (10.0) 5/8 (16.0) 1 (25.0)	80 (2.010) 60 (1.515) 35 (0.915)				
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

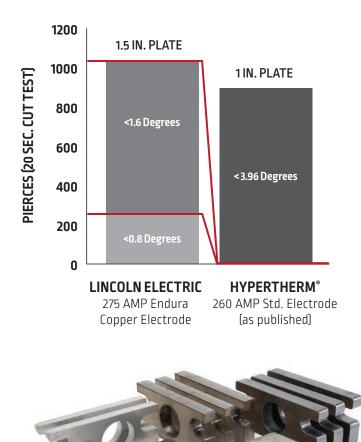
Mild Steel						
Amp	Thickness in. (mm)	Speed ipm (m/min.)	Gas			
30	0.036 (1.0) 0.075 (2.0) 0.135 (3.0)	105 (2.615) 65 (1.615) 40 (1.285)	$O_2 Plasma O_2 Shield$			
50	0.075 (2.5) 0.125 (3.0) 1/4 (6.0)	200 (4.885) 180 (4.660) 75 (2.075)				
70	0.125 (3.0) 1/4 (5.0) 3/8 (6.0)	190 (4.995) 120 (3.265) 75 (3.105)	O ₂ Plasma Air Shield			
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)				
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)				
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



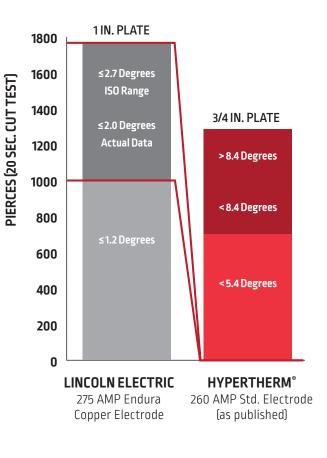
Spirit II 275 » 275A, 1.5 in. (38.1 mm) Mild Steel

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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