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information, visit

MillerWelds.com/plasmacutters

# Plasma Cutters



## Product Guide

	Page	Class	Gouging	Piercing	Rated Output/ Duty Cycle	Rated Cutting Thickness*			Max. Sever Thickness Mild Steel	Special Features	Typical Applications	
						Mild Steel	Stainless Steel	Aluminum				
<b>Spectrum® 375 X-TREME™</b>	94	●	●	●	30 A at 40%	3/8 in.	3/8 in.	1/4 in.	5/8 in.	Auto-Line™ (120-240 V), MVP™ plugs, Auto-Refire™, automatic air regulation, only 19 lb., XT30 torch	HVAC, maintenance, light construction, hobbyist, auto restoration, fabrication	1-Phase
<b>Spectrum® 625 X-TREME™</b>	94	●	●	●	40 A at 60%	5/8 in.	1/2 in.	3/8 in.	7/8 in.	Auto-Line™ (120-240 V), MVP™ adapters, Auto-Refire™, automatic air regulation, only 21 lb., XT40 torch	Maintenance, light construction, body shops, prototyping	
<b>Spectrum® 875</b>	94	●	●	●	60 A at 50%	7/8 in.	7/8 in.	5/8 in.	1-1/4 in.	Auto-Refire™, automatic air regulation, only 49 lb., XT60 or XT60M torch	Construction, maintenance/repair, fabrication	
<b>Spectrum® 875 Auto-Line™</b>	94	●	●	●	208: 60 A at 40% 230-380 V: 60 A at 50% 380-575 V: 60 A at 60%	7/8 in.	7/8 in.	5/8 in.	1-1/4 in.	Auto-Line™ (208-575 V), Auto-Refire™, automatic air regulation, only 54 lb., XT60 or XT60M torch	Construction, maintenance/repair, fabrication	1&3-Ph

## Engine-Driven Welder/Generator

## Continuous Generator Power

## Spectrum 375 X-TREME Steel Cut / Output Amp Setting\*\*

## Spectrum 625 X-TREME Steel Cut / Output Amp Setting\*\*

## Spectrum 875 / 875 Auto-Line Steel Cut / Output Amp Setting\*\*

<b>Fusion 160 and Blue Star® 185</b>	6,200 watts	3/8 in. / 30 A	Not recommended	Not recommended	Cutting w/Engine Drive
<b>Bobcat™ 200 Air Pak™</b>	6,500 watts	3/8 in. / 30 A	Not recommended	Not recommended	
<b>Bobcat™ 225, 260, 3 Phase</b>	9,500 watts	3/8 in. / 30 A	5/8 in. / 40 A	1/2 in. / 45 A	
<b>Trailblazer® Series</b>	10,500 watts	3/8 in. / 30 A	5/8 in. / 40 A	1/2 in. / 45 A	
<b>Big Blue® 400 Pro, 400 PipePro® and 450 Duo CST™</b>	10,000 watts	3/8 in. / 30 A	5/8 in. / 40 A	1/2 in. / 45 A	
<b>Big Blue® 500 Pro, 600 Series and 800 Series</b>	1-phase: 12,000 watts 3-phase: 20,000 watts	3/8 in. / 30 A	5/8 in. / 40 A	7/8 in. / 50 A	

**\*Note on cut capacity ratings:** The Spectrum Series rating system is designed to provide a guide to help our customers choose the right machine for their application. Rated cut capacity is based on traveling approximately 15 inches per minute to achieve a steady, precise cut. This is the key rating that should meet or exceed your typical cutting thickness requirements. Sever cut is the maximum cut achieved in ideal conditions. Some factors that dictate actual cut speeds, thickness capacity and duty cycles are: types of thermally conductive material being cut, available input power, output power settings and operator technique. For highly thermal conductive metals such as aluminum, cutting capacities may be reduced up to 30 percent compared to mild steel.

## Product Key

Class: ● Light industrial ● Industrial ● Heavy industrial Capability: ● Designed for this process ● Capable of this process

\*See note on cut capacity ratings above. \*\*240 V, full KVA plug. Derate cut capacity with less generator power.

For more detailed information, see individual literature sheets.

## Spectrum® Series Plasma Cutters

Our Spectrum line of plasma cutters provides big cutting power in portable packages and with features like flexible cables and Auto-Refire technology they are better than ever. Step up to Spectrum 625 X-TREME™ or 875/875 Auto-Line™ models to add Ultra-Quick Connect hand-held torches. Machine torch capabilities are available with Spectrum 875/875 Auto-Line™ models only.

### Spectrum Features

Feature	375 X-TREME	625 X-TREME	875	875 Auto-Line
Auto-Line (120-240 V)	●	●		●
Auto-Line (208-575 V)	●	●		●
MVP™ plugs/adapters	●	●	●	●
Ultra-Quick Connect™ torch with flexible cable		●	●	●
Quick connect flexible work cable with clamp	●	●	●	●
Built-in gas/air filter and regulator	●	●	●	●
Auto-Refire™	●	●	●	●
Auto postflow	●	●	●	●
Auto air regulation	●	●	●	●
X-CASE™	●	●		
Machine torch capable			●	●

### Steel/Stainless/Aluminum Rated Cutting Capacity

	375 X-TREME	625 X-TREME	875/ 875 Auto-Line
Steel/ Stainless	3/8 in. (9.5 mm)	5/8 in. (15.9 mm)*	7/8 in. (22.2 mm)
Aluminum	1/4 in. (6.4 mm)	3/8 in. (9.5 mm)	5/8 in. (15.9 mm)

\*Stainless: 1/2 in. (12.7 mm) for Spectrum 625 X-TREME.

Cut capacity ratings are based on traveling speed of approximately 15 inches per minute to achieve a precise cut. This is the key rating that should meet or exceed your typical cutting thickness requirements. Factors that can affect actual cut speeds, thickness capacity and duty cycles are: types of thermally conductive material being cut, available input power, output power settings and operator technique. For highly thermal conductive metals such as aluminum, cutting capacities may be reduced up to 30 percent compared to mild steel.



**Power factor correction (PFC).** Uses less energy by utilizing input power more efficiently.

**LED indicators for easy troubleshooting.**

**Non-high-frequency arc starting** does not interfere with or damage controls or computers.

**Postflow cooling circuitry** extends life of the consumable and torch by cooling them with postflow air after trigger is released.

**Auto-Refire™** provides ultimate convenience by automatically controlling the pilot arc when cutting expanded metal or multiple pieces of metal.

**Automatic air regulation** compensates for input pressure variation to provide constant recommended torch pressure for optimal cutting performance.

**Built-in gas/air filter and regulator.** Provides air filtration of airborne particles five microns and larger. Additional filtration and water separation recommended.

**LVC™ line voltage compensation** provides peak performance power under variable input voltage conditions for clean, steady cuts.

**Wind Tunnel Technology™** prevents abrasive dust and particles from damaging internal components.

**Fan-On-Demand™** cooling system only operates when needed, reducing power consumption and keeping internal components cleaner.

**Quick connect flexible work cable with heavy-duty clamp.**

### Spectrum 625 X-TREME and 875/875 Auto-Line hand-held torches



**Ultra-Quick Connect™ hand-held torches with flexible cables.**

XT40 hand-held torch for Spectrum 625 X-TREME and XT60 hand-held torch for both Spectrum 875 models

feature quick torch connection, ergonomic handles to help prevent operator fatigue and flexible cables that make maneuvering easier.

### Spectrum 875/875 Auto-Line machine torches



**Long and short body machine torches.**

XT60M machine torches for both Spectrum 875 models come in long or short body configurations in either 25- or 50-foot cable lengths. Only long body torches are available in packages, but both bodies can be ordered separately (see page 122).

### Models/ packages

Spectrum 375  
X-TREME hand-held  
torch package shown.

Spectrum 875  
Auto-Line long body  
machine torch  
package shown.

Model	Hand-Held Torch Packages			Long Body Machine Torch Packages	
	12 ft. (3.7 m)	20 ft. (6.1 m)	50 ft. (15.2 m)	25 ft. (7.6 m)	50 ft. (15.2 m)
Spectrum 375 X-TREME	(907529)	—	—	—	—
Spectrum 625 X-TREME	(907579)	(907579001)	—	—	—
Spectrum 875	—	(907583)	(907583001)	(907583002)	—
Spectrum 875 Auto-Line	—	(907584)	(907584001)	(907584002)	(907584004)