Sales@weldfabulous.com Weldfabulous.com

# Spectrum<sup>®</sup> 375 X-TREME<sup>™</sup>

Issued Nov. 2012 • Index No. PC/9.2





### Quick Specs

### **Industrial Applications**

Maintenance **Light Construction** Prototyping **Body Shops** Fabrication **HVAC Ductwork** 

#### Process

Air Plasma Cutting

### **Rated Output**

30 A at 92 VDC. 35% Duty Cycle

#### **Cutting Capability**

Rated: 3/8 in. (9.5 mm) Sever: 5/8 in. (15.9 mm)

With torch: 19 lb. (8.6 kg)

### **Required Input Pressure/Flow**

5.0 SCFM (142 L/min.) at 90 PSI minimum (621 kPa) 120 PSI maximum (828 kPa)

## The Power of Blue®

X-TREME Versatility — Auto-Line™ provides state-ofthe-art flexibility to the end user. The Auto-Line circuitry automatically connects to 120-240 VAC, single-phase power, 50/60 Hz, without removing the covers to relink the power source. No longer is there a concern if you have the correct machine for the shop or jobsite.

#### X-TREME Protection — X-CASE™

provides ultimate protection during transport and storage. Additional space ideal for MVP plugs, consumable box, as well as gloves, eye protection, etc.

X-TREME Portability — Portable in the shop or at the jobsite—at 19 pounds the shoulder strap allows the end user to easily move from location to location.

Auto-Refire™ technology provides ultimate customer convenience by automatically controlling the pilot arc when cutting expanded metal or multiple pieces of metal. The pilot arc will switch in and out as fast as needed when cutting expanded metal and provides maximum power for cutting thicker metal — all automatically! No need for manual re-triggering which reduces user hand fatigue.

**Heavy-duty** clamp included.

XT30 torch with ergonomic handle to help prevent operator fatigue while the flexible cable makes maneuvering easier.

Can be powered by any Miller engine **drive** with generator power (e.g. Bobcat<sup>™</sup>) or equivalent competitive equipment. See page 3 for engine drive compatibility and recommended settings.

### **Comes Complete With:**

- XT30 hand-held torch with 12-ft. (3.7 m) cable
- Heavy-duty work clamp with 12-ft. (3.7 m) cable
- X-CASE<sup>™</sup> provides protection in transport and storage
- 10-ft. (3 m) MVP<sup>™</sup> power cord
- MVP plugs 5-15P (120 V, 15 A), 6-50P (240 V, 50 A)
- Shoulder strap
- Consumables box with 2 electrodes, 2 tips, deflector, and air fitting



power, cup and temperature allow faster troubleshooting. eliminating unnecessary downtime.

LVC™ line voltage compensation provides peak performance power under variable conditions (power fluctuations up to ±15 percent) for steady cuts and cleaner ending cuts.

**Automatic air regulation** 

automatically compensates for input pressure variation to provide constant recommended torch pressure for optimum cutting performance.



Multi-voltage plug (MVP™) allows connection to 120 or 240 V receptacles without tools—choose the plug that fits the receptacle and connect it to the power cord.



Power source is warranted for 3 years, parts and labor. XT torch is warranted for 1 year, parts and labor.



#### Miller Electric Mfg. Co.

An Illinois Tool Works Company 1635 West Spencer Street Appleton, WI 54914 USA

#### **Equipment Sales US and Canada**

Phone: 866-931-9730 FAX: 800-637-2315 International Phone: 920-735-4554 International FAX: 920-735-4125

### Website

MillerWelds.com



Weldfabulous.com Sales@Weldfabulous.com

### **Specifications** (Subject to change without notice.)





Input Power	Rated Output	Amps Input at Rated Output, 50/60 Hz, 1-Phase	KVA	KW	Plasma Gas	Dimensions	Weight with Torch
240 V	30 A at 92 VDC, 35% duty cycle	13.6	3.3	3.1	Air or	H: 9 in. (229 mm)	Net: 19 lb. (8.6 kg)
120 V (20 A)	27 A at 92 VDC, 20% duty cycle	25.6	3.1	3.0	Nitrogen only	W: 5.5 in. (140 mm) D: 13.25 in. (337 mm)	Ship: 24 lb. (10.9 kg)
120 V (15 A)	20 A at 88 VDC, 35% duty cycle	18.1	2.2	2.1	only		

<sup>\*</sup>Recommended 30 A branch circuit for maximum performance. Performance on 20 A branch service may be limited due to breaker/line fuse. Reducing unit output amperage will minimize nuisance breaker/line fuse tripping.

Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

### Mild Steel Cutting Capability (Thickness to scale.)

Cutting at 30 Amps (120 V, 30 A service with 5-20P MVP or 240 V 6-50P MVP)





3/8 in. (9.5 mm) at 18 IPM

Note: Recommended maximum piercing capacity for hand-held applications is 3/16 inch (4.8 mm). Maximum sever cut of 5/8 inch (15.9 mm) at 6 IPM.

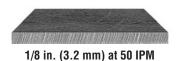
For aluminum and other metals with high thermal conductivity, cutting capabilities will be derated as much as 30%.

#### Mild Steel Recommended Cut Speeds at 30 Amps

Thickness	Approximate Travel Speeds*
1/16 in. (1.6 mm)	240+ IPM (6096+ mm/min.)
1/8 in. (3.2 mm)	100 IPM (2540 mm/min.)
3/16 in. (4.8 mm)	63 IPM (1605 mm/min.)
1/4 in. (6.4 mm)	36 IPM (914 mm/min.)
3/8 in. (9.5 mm)	18 IPM (467 mm/min.)
1/2 in. (12.7 mm)	10 IPM (264 mm/min.)
5/8 in. (15.9 mm)	6 IPM (163 mm/min.)

<sup>\*</sup> Travel speeds are approximately 80% of maximum.

### Cutting at 20 Amps (120 V, 15 A service with 5-15P MVP)





1/4 in. (6.4 mm) at 17 IPM

Note: Recommended maximum piercing capacity for hand-held applications is 1/8 inch (3.2 mm). Maximum sever cut of 3/8 inch (9.5 mm) at 6 IPM.

For aluminum and other metals with high thermal conductivity, cutting capabilities will be derated as much as 30%.

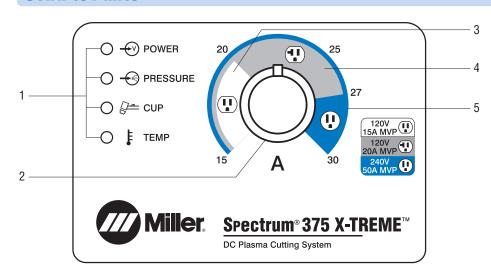
#### Mild Steel Recommended Cut Speeds at 20 Amps

Thickness	Approximate Travel Speeds*		
1/16 in. (1.6 mm)	158 IPM (4014 mm/min.)		
1/8 in. (3.2 mm)	50 IPM (1260 mm/min.)		
3/16 in. (4.8 mm)	33 IPM (833 mm/min.)		
1/4 in. (6.4 mm)	17 IPM (427 mm/min.)		
5/16 in. (7.9 mm)	8 IPM (203 mm/min.)		
3/8 in. (9.5 mm)	6 IPM (163 mm/min.)		

<sup>\*</sup> Travel speeds are approximately 80% of maximum.

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.

### **Control Panel**



- 1. Status and Troubleshooting Lights
- 2. Output Control
- 3. Range for 120 V, 15 A, 5-15 P, MVP<sup>™</sup>
- 4. Range for 120 V, 20 A, 5-20 P, MVP<sup>™</sup>
- **5.** Range for 240 V, 50 A, 6-50 P, MVP<sup>™</sup>

### **Engine Drive Compatibility**

Equipment	Generator Power	Steel Quality Cut (Approximate)	Spectrum Output Amp Setting	
Wildcat® 200	6.5 KW	3/8 in.	30 A, 240 V, full KVA plug	
Bobcat <sup>™</sup> , Trailblazer <sup>®</sup>	11 kW	3/8 in.	30 A, 240 V, full KVA plug	
Big Blue® 300 Pro, Big Blue® 350 PipePro®	12 kW	3/8 in.	30 A, 240 V, full KVA plug	
Big 40 <sup>®</sup> CC/CV	15 kW (optional)	3/8 in.	30 A, 240 V, full KVA plug	
Big Blue® 500 CC/CV	20 kW (optional)	3/8 in.	30 A, 240 V, full KVA plug	

### **Genuine Miller® Accessories**



### X-CASE<sup>™</sup> #300 184

Sturdy case provides ultimate protection for transport and storage. Also

features convenient top carrying handle and side recessed hand grips. Store the Spectrum® 375 X-TREME™, accessories and gear in this generous case to be ready to go at any time. Dimensions (H x W x D): 13 x 10.5 x 30.625 in. (330 x 267 x 778 mm).



Female Receptacle



**Adapter Cord, Full KVA #300 517** Field NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240 V plug to Spectrum® 240 V plug.

### Miller Service Parts Accessories

The following accessories must be ordered from Miller Service Parts.



### XT30 Consumable Kit #253 520

Consumable kit includes 5 electrodes, 5 tips, 1 swirl ring, 1 retaining

cup, 1 o-ring and silicone grease.



### Plasma Standoff Roller Guide #253 054

Helps maintain recommended standoff distance to maximize

cutting performance and improve tip life.



Plasma Circle-Cutting Guide #253 055 Cut straight lines or circles up to 12-inch diameter with ease.





### Suction/Magnetic Pivot Base #195 979

Add this to your cutting guide for convenient attachment to all flat surfaces. The extended arm accommodates holes up to 30-inch diameter.



### In-Line Air Filter Kit #228 926

Mounts to the back of the Spectrum® 375 X-TREME™, 375, 625 X-TREME™, 875 and 875 Auto-Line™. Includes male and female 1/4-inch NPT

quick disconnect fittings and hose for easy on/off connection. The replaceable filter element filters to .85 microns for removal of 99.9 percent of water, dirt and oil.

### In-Line Air Filter Replacement Element #228 928

For in-line filter #228 926.



### Safety Glasses

#235 662 Blk, shade 3.0 #235 661 Blue, shade 3.0 #235 663 Orng, shade 3.0 #235 658 Blk, shade 5.0 #235 659 Orng, shade 5.0

Form fitting orbital eye coverage with increased comfort and style. Choice of black, blue or orange frame. Meets ANSI Z87.1 standards.



### MIG Gloves #249 175 Medium

**#249 176** Large **#249 177** X-Large

Breathable pigsplit back with genuine American deerskin

palm for ultimate comfort. Moisture-wicking fleece lining provides additional protection.



### Multi-Purpose Gloves #249 184 Medium

#249 185 Large

**#249 186** X-Large
Breathable pigsplit back with top grain cowhide palm for

excellent heat protection. Moisture-wicking mesh lining and padded palm.

### MVP™ Plugs

Order from Miller Service Parts.



### #219 258

For power cable 6-50P (240 V/50 A). Included with machine.



#### #219 261

For power cable 5-15P (120 V/15 A). Included with machine.



#### #219 259

For power cable 5-20P (120 V/20 A). Optional.

Weldfabulous.com Sales@Weldfabulous.com

### **XT Torch and Consumables**



### **Ordering Information**

Power Source	Stock No.	Description	Qty.	Price
Spectrum® 375 X-TREME™ with X-CASE™	#907 529	120-240 VAC, 50/60 Hz, with 12-ft. (3.7 m) XT30 hand-held torch and X-CASE™	$\Box$	
Replacement Torch and Consumables				
XT30 Hand-Held Torch	#249 949	12 ft. (3.7 m). Order from Miller Service Parts		
Consumables		See above. Order from Miller Service Parts		
Accessories				
X-CASE™ (only)	#300 184	Carrying case for Spectrum® 375 X-TREME™		
Adapter Cord, Full KVA	#300 517	Adapts engine drive 120/240 V plug to Spectrum® 240 V plug		
XT30 Consumable Kit	#253 520	Includes 5 electrodes, 5 tips, 1 swirl ring, 1 retaining cup, 1 o-ring and silicone grease. Order from Miller Service Parts		
Silicone Grease	#252 951	Order from Miller Service Parts		
Plasma Standoff Roller Guide	#253 054	Order from Miller Service Parts		
Plasma Circle-Cutting Guide	#253 055	Order from Miller Service Parts		
Suction/Magnetic Pivot Base	#195 979	Order from Miller Service Parts		
In-Line Air Filter Kit	#228 926	Order from Miller Service Parts		
In-Line Air Filter Replacement Element	#228 928	Order from Miller Service Parts		
Safety Glasses		See page 3. Order from Miller Service Parts		
MIG Gloves		See page 3. Order from Miller Service Parts		
Multipurpose Gloves		See page 3. Order from Miller Service Parts		
MVP™ Adapter Plugs		See page 3. Order from Miller Service Parts		

Date: Total Quoted Price:



Distributed by: Weldfabulous.com

Phone: 1-507-494-5169

Email: Sales@weldfabulous.com