

# XMT® Series

Portability and excellent multiprocess arc performance make the XMT family the most popular in the industry. With many models to choose from the XMT family has the right solution for your business.



## Input power choices

**AUTO-LINE TECHNOLOGY** XMT 350 models allow for any input voltage hookup (208–575 V, single- or three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable input power.

**Standard hookup** on XMT 450 models. 230/460 V manual link or 575 V, three-phase only.

## Advanced features for the professional welder

**Adaptive Hot Start™** makes starting stick electrodes easy without creating an inclusion.

**Infinite arc control** available in the stick and wire modes for easier fine tuning of tough-to-weld materials and out-of-position applications.

**Lift-Arc™** provides arc starting that minimizes contamination of the electrode and without the use of high frequency.

**Insight Core™ Welding Intelligence™ system.** XMT 14-pin models are Insight Core capable to monitor weld voltage, amperage, and arc-time and percentage.

## Reliability

**Wind Tunnel Technology™** Internal air flow that protects components, greatly improving reliability.

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

## Welder-friendly control panel

**Process selector switch** reduces the number of control setup combinations without reducing any features.

**Ultra-tough, polycarbonate-blended cover** protects front controls from damage.

**Large, dual digital meters** are easy to view and presettable to ease setting weld output.

## Output connector choices

**Dinse- or Tweco®-style weld receptacles** (350 models) provide high-quality weld cable connections.

*Note: Two Dinse connectors are supplied with Dinse machines. Tweco connectors must be ordered separately.*

**Weld studs** (450 models).

**14-pin receptacle** provides a quick, direct connection to Miller® wire feeders. Capable of remote voltage control.

## Choose the Right XMT


	350 Amp		450 Amp	
	XMT 350 CC/CV	XMT 350 MPa	XMT 450 CC/CV	XMT 450 MPa
Input Power	3- or 1-phase power		3-phase	
Primary Operating Range	Auto-Line (208–575 V)		Manual link (230/460 V) or 575 V	
Weld Output	350 A at 34 VDC (3-phase input power at 60% duty cycle)		450 A at 38 VDC (3-phase input power at 100% duty cycle)	
Carbon Arc Gouging	Rated: 1/4 in. (6.4 mm)		Rated: 5/16 in. (7.9 mm)	
Net Weight	80 lb. (36.3 kg)		122 lb. (55.3 kg)	
Output Connector	Dinse-style	Dinse- or Tweco-style	1/2 in. stud	
Pulsed MIG	–	Yes	–	Yes
14-pin Compliant	Yes		Yes	
Insight Core Capable (requires Insight Core 14-pin module)	Yes (page 70)		Yes (page 70)	
<b>ArcReach™</b>	Factory option (page 44)	–	Factory option (page 45)	–

## XMT® 350 CC/CV and 450 CC/CV

See literature DC/18.93 (350) and DC/18.94 (450)

**Flexibility and simplicity make this the most popular model. It has the core multiprocess capabilities along with the flexibility of a 14-pin for spool guns, feeders and remote controls.**



**Heavy industrial**  XMT 450  
Phase Phase is 3-phase only.

### Processes

- MIG (GMAW) ▪ Pulsed MIG (GMAW-P)\*
- Stick (SMAW) ▪ TIG (GTAW)
- Flux-cored (FCAW)
- Air carbon arc cutting and gouging (CAC-A) (carbons – 350: 1/4 in., 450: 5/16 in.)

\*XMT MPa models only.

### Most popular accessories

- XR-AlumaFeed® SuitCase® 301567 (pg 11)
- SuitCase® Feeders (pg 18)
- 20 and 70 Series Feeders (pg 20)
- Spoolmatic® WC-24 (pg 28/126)
- MIGRunner™ Cart 195445 (pg 119)
- Running Gear Cylinder Rack 300408 (pg 119)
- Coolmate™ Coolant System (pg 119)
- Industrial MIG 4/0 Kits (pg 121) 300405 For XMT 350 300390 For XMT 450
- Gas Valve Kit See literature DC/18.93 (350) and DC/18.94 (450)

Visit [MillerWelds.com](http://MillerWelds.com) or your distributor for other Miller® options and accessories.

## XMT® 350 MPa and 450 MPa

See literature DC/18.93 (350) and DC/18.94 (450)

**Built-in pulse programs for manufacturing and fabrication applications that have benefits for standard steels, high-strength steels and aluminum.**

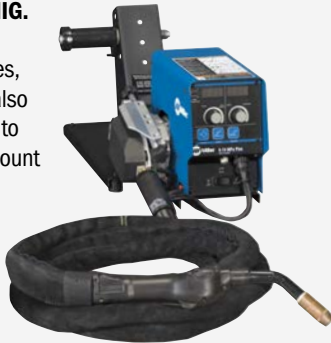
**Pulse programs** provide a reduced heat-affected zone and good gap filling ability, and are great for thick to thin metal. They allow welding in all positions, as well as faster travel speeds and deposition.

**SharpArc®** controls the arc in pulsed MIG mode and gives total control over the arc cone shape, puddle fluidity and bead profile.

### Additional features when using a 70 Series MPa Plus feeder or XR-AlumaFeed® SuitCase® feeder.

#### Synergic pulsed MIG.

As wire speed increases/decreases, pulse parameters also increase/decrease to match the right amount of power needed, reducing the need to make additional adjustments.



**Profile Pulse™** provides TIG appearance with MIG simplicity and productivity. Achieve “stacked dimes” without gun manipulation. Profile Pulse frequency can be changed to increase or decrease the spacing between the ripple pattern to achieve the desired weld appearance.



**Added capabilities with Insight Core.™** When using an MPa Plus feeder, wire deposition is added to the Insight Core capabilities.

<sup>1</sup> Optional 115-volt auxiliary power provides 10 amps of circuit-breaker protected power for coolant systems, etc.

<sup>2</sup> Feeders include gun and drive rolls. MIGRunner adds 2/0 weld cable and 2/0 work cable with clamp, flowmeter regulator with gas hose and MIGRunner cart.

<sup>3</sup> Duty cycle rating below achieved with 6-gauge input power cord (8-gauge cord supplied with unit).

	Model/Stock Number Most Popular Models ◀	Input Power	Amperage/ Voltage Ranges	Rated Output	Amps Input at Rated Load Output, 60 Hz 208 V 230 V 400 V 460 V 575 V KVA KW	Max. Open-Circuit Voltage	Power Source Dimensions	Power Source Net Weight
350 A	<b>XMT 350 CC/CV</b> (Dinse) <b>(907161)</b> ◀ 208-575 V power source only <b>(907161011)</b> 208-575 V w/auxiliary power <sup>1</sup> <b>(951786)</b> 208-575 V MIGRunner w/20 Series Basic <sup>2</sup> <b>(951314)</b> 208-575 V MIGRunner w/S-74D <sup>2</sup> <b>XMT 350 MPa</b> (Dinse except where noted) <b>(907366)</b> ◀ 208-575 V power source only <b>(907366011)</b> 208-575 V w/auxiliary power <sup>1</sup> <b>(907366014)</b> 208-575 V w/Tweco®	3-phase	5-425 A 10-38 V	350 A at 34 VDC, 60% duty cycle	40.4 36.1 20.6 17.8 14.1 14.2 13.6	75 VDC	H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	80 lb. (36.3 kg)
		1-phase	5-425 A 10-38 V	300 A at 32 VDC, 60% duty cycle <sup>3</sup>	60.8 54.6 29.7 24.5 19.9 11.7 11.2			
450 A	<b>XMT 450 CC/CV</b> (1/2 in. stud) <b>(907481)</b> ◀ 230/460 V power source only <b>(907482)</b> 575 V w/ArcReach <b>XMT 450 MPa</b> (1/2 in. stud) <b>(907479)</b> ◀ 230/460 V power source only <b>(907479001)</b> 230/460 V w/auxiliary power <sup>1</sup> <b>(907480)</b> 575 V power source only	3-phase	15-600 A 10-38 V	450 A at 38 VDC, 100% duty cycle	— 51 — 27.6 24.4 22 18.9	90 VDC	H: 17.25 in. (438 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)	122 lb. (55.3 kg)
					— 51 — 27.6 23.6 21.6 18.3 (KVA is 23.5 on 575 V)			

# XMT® 350 FieldPro™ Systems

See literature DC/18.96



Top row left to right: ArcReach SuitCase 12 feeder, XMT 350 FieldPro power source, XMT 350 FieldPro with Polarity Reversing power source, and ArcReach Smart Feeder. Bottom row left to right: ArcReach Stick/TIG Remote and ArcReach Stick/TIG Remote with Polarity Reversing. Feeders include gun and drive rolls (see page 18 for details).

## ArcReach®

Every year, outdated welding equipment wastes hundreds of productive work hours – and thousands of dollars in profit – by forcing operators to make numerous walks from the weld joint to the welder. Welding systems with ArcReach technology let operators adjust welding parameters right at the weld joint without a control cord using the wire feeder or remote – maximizing arc-on time, improving safety and impacting the bottom line. See pages 18/47 for ArcReach feeders and page 47 for the Stick/TIG Remotes.

**Don't walk. Weld!** Learn more at [MillerWelds.com/arcreach](http://MillerWelds.com/arcreach)

### More jobsite productivity and efficiency

**Cable Length Compensation (CLC™)** ensures that the voltage a weld operator sets is the voltage they get by automatically adjusting voltage based on weld cable length, even hundreds of feet away from the power source.

**Polarity reversing models of power source and remote** are ideal for pipe and module assembly where changing polarity happens frequently.

**AUTO-LINE TECHNOLOGY** For portability and reliability, Auto-Line allows for any input voltage hookup (208–575 V, single- or three-phase) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

**Auto-Bind™** automatically establishes exclusive communication between the power source and the wire feeder, using the existing weld cables upon system power up.

### Exceptional arc performance

**Common weld failures can be minimized** with stick stops that are specifically programmed to eliminate arc strikes outside of the heat-affected zone.

**Regulated Metal Deposition (RMD®) and pulsed MIG** are fully supported, enabling operators to use these advanced processes in the field for faster, more-efficient welds.

### Increased uptime

**Delivers the performance you need.** XMT 350 FieldPro welders and ArcReach feeders and remotes have been extensively proven in the field.

**Wind Tunnel Technology™:** Internal air flow that protects electrical components and PC boards from dirt, dust, debris... greatly improving reliability.

**Eliminate expenses related to maintaining or replacing easily damaged control cords** because the weld cables are used to communicate weld parameters between the wire feeder and power source.

### Improved jobsite safety

**ArcReach® technology decreases the chances of slip, trip or fall injuries** by allowing weld operators to make parameter changes at the wire feeder or remote instead of having to travel through multistory and cluttered jobsites back to the power source.

### Maximum fleet compatibility

**Maximize fleet compatibility** and get the benefits of ArcReach when you pair XMT 350 FieldPro welders and ArcReach feeders with other ArcReach compatible products.

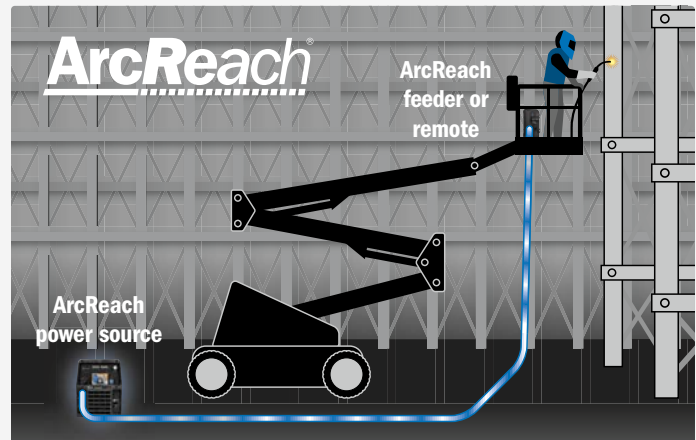
### More operator control

**Adjust While Welding (AWW™)** allows weld operators to change weld parameters while the arc is on.

**Inadvertent parameter changes by other jobsite workers can be easily avoided** because connecting an ArcReach accessory from the power source automatically locks out the power source's panel controls.

**Return to a previous weld process faster** because the power source is restored to its previous settings once the ArcReach accessory is removed.

**Auto-Process Select™ decreases the chance of an incorrect weld process being used** because it automatically sets the power source to the correct weld process based on the polarity applied to the weld accessory.



# XMT® 450 CC/CV ArcReach®

See literature DC/18.94



Note: XMT 450 CC/CV ArcReach does not support the Cable Length Compensation (CLC™) and Adjust While Welding (AWW™) features or the ArcReach Smart Feeder.


**Auto-Process Select.™** System automatically changes to MIG/FCAW (with gas) if electrode positive polarity is detected or FCAW (no gas) if electrode negative polarity is detected, when ArcReach communication is established between the feeder and the XMT – reducing the need to access the power supply.

**Automatic return to panel settings.** System automatically returns to XMT setting when ArcReach communication is terminated. For example, if the XMT is set to gouging at 550 amps and an ArcReach feeder is connected, the XMT will go to a MIG/FCAW process. If the feeder is disconnected, the XMT will go back to its previous setting (gouging at 550 amps).

**Auto-Bind™** automatically establishes exclusive communication between the power source and the wire feeder, using the existing weld cables upon system power up.

**Operator can precisely set arc voltage at the feeder** and monitor the actual arc voltage and current delivered to the weld using the digital meters on the feeder. This removes guesswork when it comes to adhering to weld procedures.

**Remote override of XMT.** When an ArcReach feeder is connected to an XMT 450 ArcReach the feeder has full control and the XMT controls are disabled, preventing accidental changes by personnel other than the welding operator.

**Heavy industrial**  XMT 450  
Phase Phase is 3-phase only.

**Processes**

- MIG (GMAW) ▪ Stick (SMAW)
- TIG (GTAW) ▪ Flux-cored (FCAW)
- RMD\* ▪ Pulsed MIG (GMAW-P)\*
- Air carbon arc cutting and gouging (CAC-A) (carbons – 304: 1/4 in., 350: 1/4 in., 450: 5/16 in.)

\*XMT 350 FieldPro only with ArcReach Smart Feeder.

**Stick/TIG system includes**

- XMT 350 FieldPro power source
- ArcReach Stick/TIG Remote

**MIG/flux-cored system includes**

- XMT 350 FieldPro power source
- ArcReach SuitCase 12 feeder with drive rolls and Bernard® BTB Gun 300 A

**RMD/pulse system includes**

- XMT 350 FieldPro power source
- ArcReach Smart Feeder with drive rolls and Bernard® PipeWox 300-15 MIG gun

**Most popular accessories**

- XR-AlumaFeed® SuitCase® 301567 (pg 11)
- ArcReach® SuitCase® Feeders (pg 18/47)
- ArcReach® Smart Feeder (pg 18/47) (for XMT 350 FieldPro power sources only)
- ArcReach® Heater (pg 47/92) (for XMT 350 FieldPro power sources only)
- 20 and 70 Series Feeders (pg 20)
- Spoolmatic®/WC-24 (pg 28/126)
- ArcReach® Stick/TIG Remote 301325 (pg 47)
- ArcReach® Stick/TIG Remote with Polarity Reversing 300934 (pg 47) (for XMT 350 FieldPro with Polarity Reversing power source only)



Visit [MillerWelds.com](http://MillerWelds.com) or your distributor for other Miller® options and accessories.

## XMT Racks

All the benefits of an individual XMT in an easy-to-transport package for multiple arcs in the field.



XMT 350 FieldPro Rack shown.

**Flexible solution.** The flexibility of the XMT makes it ideal for multiple system racks. Every system in a rack can be used for different tasks on-site, increasing fleet utilization and making the best use of equipment budgets.

**Easy installation.** The power distribution system on the rack allows the entire rack to be wired into a single power drop, isolating high-voltage power in the field.

Model	Stock Number	Input Power to Rack
XMT 350 FieldPro	4-Pack Rack (907739)	230-575 V, three-phase (fused for 460/575 V)
	6-Pack Rack (907740)	230-575 V, three-phase (fused for 460/575 V)
XMT 350 FieldPro with Polarity Reversing	4-Pack Rack (907742)	230-575 V, three-phase (fused for 460/575 V)
	6-Pack Rack (907741)	230-575 V, three-phase (fused for 460/575 V)
XMT 450 CC/CV ArcReach	4-Pack Rack (907700)	230/460 V, three-phase (fused for 460 V)

\*Optional 115-volt auxiliary power provides 10 amps of circuit-breaker protected power for coolant systems, etc.  
 \*\*Duty cycle rating below achieved with 6-gauge input power cord (8-gauge cord supplied with unit).

Model/Stock Number Most Popular Models	Input Power	Amperage/Voltage Ranges	Rated Output	Amps Input at Rated Load Output, 60 Hz							Max. Open-Circuit Voltage	Dimensions	Net Weight
				208 V	230 V	400 V	460 V	575 V	KVA	KW			
350 A XMT 350 FieldPro System (Tweco®) (951736) Stick/TIG (951734) MIG/flux-cored (951738) RMD/pulse XMT 350 FieldPro Power Source only (907730) 208-575 V with Tweco® (907730002) 208-575 V with Dinse XMT 350 FieldPro with Polarity Reversing System (Tweco®) (951737) Stick/TIG (951735) MIG/flux-cored (951739) RMD/pulse XMT 350 FieldPro with Polarity Reversing Power Source only (907731) 208-575 V with Tweco® (907731001) 208-575 V with Dinse	3-phase	5-425 A 10-38 V	350 A at 34 VDC, 60% duty cycle	40.4	36.1	20.6	17.8	14.1	14.2	13.6	75 VDC	H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	93 lb. (42.2 kg)
	1-phase	5-425 A 10-38 V	300 A at 32 VDC, 60% duty cycle**	60.8	54.6	29.7	24.5	19.9	11.7	11.2			
	3-phase	5-425 A 10-38 V	350 A at 34 VDC, 60% duty cycle	40.4	36.1	20.6	17.8	14.1	14.2	13.6	75 VDC	H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	93 lb. (42.2 kg)
	1-phase	5-425 A 10-38 V	300 A at 32 VDC, 60% duty cycle**	60.8	54.6	29.7	24.5	19.9	11.7	11.2			
450 A XMT 450 CC/CV ArcReach (1/2 in. stud) (907481003) 230/460 V (907481004) 230/460 V w/auxiliary power* (907482) 575 V	3-phase	15-600 A 10-38 V	450 A at 38 VDC, 100% duty cycle	–	51	–	27.6	24.4	22	18.9	90 VDC	H: 17.25 in. (438 mm) W: 14.5 in. (368 mm) D: 27.125 in. (689 mm)	122 lb. (55.3 kg)