

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)	
ArcReach™	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.



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.

Heavy industrial ● **DC 3 1** 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 or your distributor for other Miller® options and accessories.

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

² 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.

³ 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	XMT 350 CC/CV (Dinse) (907161) ◀ 208-575 V power source only (907161011) 208-575 V w/auxiliary power ¹ (951786) 208-575 V MIGRunner w/20 Series Basic ² (951314) 208-575 V MIGRunner w/S-74D 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)	80 lb. (36.3 kg)
		1-phase	5-425 A 10-38 V	300 A at 32 VDC, 60% duty cycle ³	60.8	54.6	29.7	24.5	19.9	11.7	11.2			
450 A	XMT 350 MPa (Dinse except where noted) (907366) ◀ 208-575 V power source only (907366011) 208-575 V w/auxiliary power ¹ (907366014) 208-575 V w/Twoce®	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)			
450 A	XMT 450 CC/CV (1/2 in. stud) (907481) ◀ 230/460 V power source only (907482) 575 V w/ArcReach	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)			
450 A	XMT 450 MPa (1/2 in. stud) (907479) ◀ 230/460 V power source only (907479001) 230/460 V w/auxiliary power ¹ (907480) 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)			