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XMT® 350 Series

Multiprocess Welding Power Source

Quick Specs

Heavy Industrial Applications
- Construction
- Shipbuilding
- Railroad
- Truck/trailer manufacturing
- Fabrication
- Repair shops
- Rental fleets
- Power generation plants

Processes
- **MIG (GMAW)/Pulsed MIG (GMAW-P)***
- Stick (SMAW)
- TIG (GTAW)
- Flux-cored (FCAW)
- Air carbon arc cutting and gouging (CAC-A)
  - Rated: 1/4-inch carbons
  - Capable: 5/16-inch carbons

**Available on select models.*

Input Power Auto-Line™, 208–575 V, requires 3- or 1-phase power

Output Range 10–38 V, 15–425 A

Net Weight 80 lb. (36.3 kg)

Aux. Power (optional) 120 V, 10 amps

Portability and excellent arc performance make the XMT family the most popular in the industry.

With multiprocess capabilities and features like Auto-Line, the XMT 350 is portable and versatile for applications from jobsites to the factory floor.

XMT 350 CC/CV shown

Input power management for portability

Lightweight and portable

Best multiprocess capabilities

TRUE BLUE® 3YR. WARRANTY

Power source is warranted for three years, parts and labor.
Original main power rectified parts are warranted for five years.

Miller Electric Mfg. Co.
An ITW Welding Company
1635 West Spencer Street
P.O. Box 1079
Appleton, WI 54912-1079 USA

Equipment Sales US and Canada
Phone: 866-931-9730
FAX: 800-637-2315
International Phone: 920-735-4554
International FAX: 920-735-4125

MillerWelds.com

Certified System ISO 9001 Quality

Choosing the Correct XMT® 350

XMT 350 VS

This simplified XMT is ideal for construction or fabrication applications in which the 14-pin receptacle is not needed for remote control or 14-pin feeders.

Most Popular!

XMT 350 CC/CV

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

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

		XMT 350 VS	XMT 350 CC/CV	XMT 350 MPa
Input Power		Auto-Line™ 208–575 V, 3- or -1-phase		
Input Voltage Limits		190–630 V		
Weld Output		350 A at 34 VDC, 60% duty cycle		
Carbon Arc Gouging		Rated: 1/4-inch carbons, Capable: 5/16-inch carbons		
Net Weight		80 lb. (36.3 kg)		
Output Connections		Tweco®	Dinse or Tweco®	Dinse or Tweco®
Stick/TIG/MIG		●	●	●
Pulsed MIG				●
Available with ArcReach™ (recommended option)		●	●	
Compatible Accessories	Insight® Core™		○	○
	SuitCase X-TREME™ Feeders	○	○	○
	Bench Feeders		○	○
	Spool Guns		○	○
	Remote Controls		○	○

XMT® 350 Series Features

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 input power.

Multiprocess weld quality

High-quality performance in all welding processes.

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.

Reliability

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

Fan-On-Demand™ cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through machine.

Lightweight, aerospace-grade aluminum case offers protection with the benefit of reduced weight.

Welder friendly control panel

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

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

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

Portability

Jobsite mobility is made easy with a small, compact design and Auto-Line technology.

Additional XMT® 350 CC/CV Features

Auto Remote Sense™ enables unit to automatically use remote control if connected to remote control receptacle.

Dinse- or Tweco-style weld disconnects provide high-quality weld cable connections.

Note: Two Dinse connectors are supplied with each Dinse machine. Tweco cable connectors are not supplied with the unit and must be ordered separately.

14-pin receptacle has the flexibility to be used with spool guns, feeders, and remote controls.

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

Insight Core™

Optional Welding Intelligence™ system. XMT CC/CV and MPa models are Insight capable to monitor weld voltage, amperage, and arc-time and percentage.

Additional XMT® 350 MPa Features

Auto Remote Sense™ enables unit to automatically use remote control if connected to remote control receptacle.

Dinse- or Tweco-style weld disconnects provide high-quality weld cable connections. *Note: Two Dinse connectors are supplied with each Dinse machine. Tweco cable connectors are not supplied with the unit and must be ordered separately.*

14-pin receptacle has the flexibility to be used with spool guns, feeders, and remote controls.

Setup indicator lights
- Arc control indicator
- Wire type indicator
- Gas type indicator
- Setup button

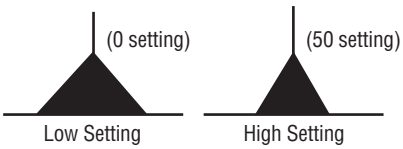
Optional 115-volt auxiliary power provides 10 amps of circuit-breaker-protected power for coolant systems, etc.

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

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

Advanced arc control enables an improved pulse welding arc. The operator has more control over puddle and bead characteristics using SharpArc.® In addition, the unit provides a more robust and stable arc at very low arc length, reducing heat input, and providing the ability to weld on a wider range of material thickness.

SharpArc® controls the arc in pulsed MIG mode and gives total control over the arc cone shape, puddle fluidity and bead profile. If a gas is used other than what is listed in the chart above, SharpArc® can be adjusted to help customize your arc to the gas being used. Lower SharpArc® settings widen the arc cone, increase puddle fluidity and flattens the weld bead.

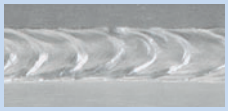


Built-in pulsed MIG programs provide reduced heat affected zone, weld in all positions, great for thick-to-thin metal, good gap filling ability and faster travel speeds and deposition. See the table below for the wide range of pulsed MIG (GMAW-P) welding applications the XMT MPa models can handle.

Wire Types — diameter in inches (mm)		Gas Types
Steel	.035 (0.9) STL .045 (1.2) STL	ARGN CO_2 (argon/carbon dioxide) 80 ARGN CO_2 (argon/carbon dioxide) ARGN OXY (argon/oxygen)
Steel 100S	.035 (0.9) STL, .045 (1.2) STL	100S C5 (95 argon/5 carbon dioxide)
Metal Core	.045 (1.2) MCOR, .052 (1.4) MCOR	ARGN CO_2 (argon/carbon dioxide)
Stainless Steel	.035 (0.9) SSTL .045 (1.2) SSTL	TRI MIX (tri-gas mixture) ARGN OXY (argon/oxygen) ARGN CO_2 (argon/carbon dioxide)
Aluminum	.035 (0.9) AL4X (4000 Series) .040 (1.0) AL4X (4000 Series) 3/64 (1.2) AL4X (4000 Series) 1/16 (1.6) AL4X (4000 Series)	ARGN (argon)
	.035 (0.9) AL49 (4943) .040 (1.0) AL49 (4943) 3/64 (1.2) AL49 (4943) 1/16 (1.6) AL49 (4943)	ARGN (argon)
	.035 (0.9) AL5X (5000 Series) .040 (1.0) AL5X (5000 Series) 3/64 (1.2) AL5X (5000 Series) 1/16 (1.6) AL5X (5000 Series)	ARGN (argon) HE AR25 (helium/argon)
Nickel	.035 (0.9) NI .045 (1.2) NI	ARGN HE (argon/helium) ARGN (argon)
Copper Nickel	.035 (0.9) CUNI, .045 (1.2) CUNI	HE ARGN (helium/argon)
Silicon Bronze	.035 (0.9) SIBR, .045 (1.2) SIBR	ARGN (argon)
Titanium	.035 (0.9) TI-5, .045 (1.2) TI-5	ARGN HE25 (75 argon/25 helium)
	.035 (0.9) TI-5, .045 (1.2) TI-5	ARGN HE50 (50 argon/50 helium)

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

Synergic pulsed MIG. As you increase/decrease the wire feed speed, the pulse parameters increase/decrease, matching the right amount of power output to match the wire speed, eliminating 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.

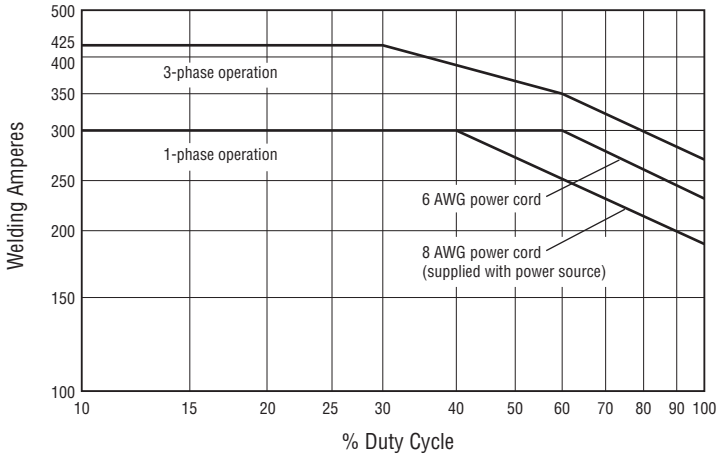
Specifications (Subject to change without notice.)

Input Power	Voltage Range in CV Mode	Amperage Range in CC Mode	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	Dimensions	Net Weight
Three-phase	10–38 V	5–425 A	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)
Single-phase	10–38 V	5–425 A	300 A at 32 VDC, 60% duty cycle	60.8	54.6	29.7	24.5	19.9	11.7	11.2			

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

Performance Data

Duty Cycle Chart



Genuine Miller® Accessories

MIGRunner™ Cart 195445

Running Gear Cylinder Rack 300408
(For dual feeders)

Small footprint and easily maneuverable, with cylinder rack low enough that you do not have to lift bottles.

Protective Cover 195478
Mildew and water resistant, odor-free cover protects your machine's finish. For 300/350-amp XMT inverters.

MIG kit 300405 shown.

Industrial MIG 4/0 Kit with Dinse Connectors
300405 For single feeders
300956 For dual feeders
Consists of flowmeter regulator with 10-foot (3 m) gas hose, 10-foot (3 m) 4/0 feeder weld cable, and 15-foot (4.6 m) work cable with 600-amp C-clamp. Dual kit comes with two flowmeter regulators and gas hoses.

Remote Controls

Wireless Remote Foot Control 300429
For remote current and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller machine. 90-foot (27.4 m) operating range.

Wireless Remote Hand Control 300430
For remote current and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller machine. 300-foot (91.4 m) operating range.

RFCS-14 Foot Control 043554
Foot current and contactor control. Includes 20-foot (6 m) cord and 14-pin plug.

RHC-14 Hand Control* 242211020
20-foot (6 m) cord
242211100
100-foot (30.5 m) cord
Miniature hand control for remote current and contactor control. Dimensions: 4 x 4 x 3.25 inches (102 x 102 x 82 mm). Includes cord and 14-pin plug.
**Custom lengths available in 5-foot increments up to 50 feet and 10-foot increments up to 100 feet.*

RCC-14 Remote Contactor and Current Control 151086
East/west rotary-motion fingertip control attaches to TIG torch using two hook-and-loop fasteners. Includes 26.5-foot (8 m) cord and 14-pin plug.

RCCS-14 Remote Contactor and Current Control 043688
North/south rotary-motion fingertip control attaches to TIG torch using two hook-and-loop fasteners. Includes 26.5-foot (8 m) cord and 14-pin plug.

Extension Cables for Remote Controls and 24 VAC Wire Feeders*
242208025 25 ft. (7.6 m)
242208050 50 ft. (15 m)
242208080 80 ft. (24.3 m)
14-pin plug to 14-pin socket. Not for use with XR-AlumaFeed or 70 Series MPa feeder.
**Custom lengths available in 5-foot increments up to 50 feet and 10-foot increments up to 100 feet.*

Cable Connectors and Adapters

Note: XMT 350 power sources are equipped with Dinse- or Tweco-style connectors for secondary connections.

Dinse-Style Connectors
042418 Accepts #4 to #1/0 AWG cable
042533 Accepts #1/0 to #2/0 AWG cable
Kits include one Dinse-style male plug which attaches to the work and/or weld cables and plugs into the Dinse-style receptacles on the power source.

Extension Kit for Dinse-Style Cable Connectors
042419 Accepts #4 to #1/0 AWG cable.
Used to adapt or extend weld and/or work cables. Kit includes one male Dinse-style plug and one in-line female Dinse-style receptacle.

Extensions for Dinse-Style Cable Connectors
134460 Male Dinse-style plug
136600 Female Dinse-style receptacle
Used to adapt or extend weld and/or work cables. Accepts #1/0 to #2/0 AWG cable.

Dinse/Tweco® Adapter 042465
Dinse/Cam-Lok Adapter 042466
One-piece adapter with Dinse-style male plug (to power source) on one end and Tweco or Cam-Lok female receptacle (for weld cable connection) on other end.

Wire Feeders/Guns

SuitCase® X-TREME™ 8VS 951582
SuitCase® X-TREME™ 12VS 951543
Lightweight, portable wire feeder for a variety of wires up to .062 inch. Holds up to an 8-inch (8VS) or 12-inch (12VS) spool of wire. Operates on open-circuit voltage eliminating the need for a control/power cord. See literature M/6.42.

SuitCase® 12RC 951580
Lightweight, portable wire feeder for a variety of wires up to .062 inch. Holds up to a 12-inch (12RC) spool of wire. Operates using 14-pin control receptacle. See literature M/6.5.

XR™-S Control 300601
XR™-D Control 300687
Controls offer unsurpassed performance and reliability for feeding aluminum and other difficult-to-feed wire types. Models include .035-inch and factory-installed 3/64-inch drive rolls. See literature M/1.7.

XR-AlumaFeed™ 300509
Advanced push-pull wire feeder designed for high-volume, high-production aluminum MIG welding where quality and consistency is a high priority. See literature DC/34.0.

70 Series
S-74S 951196
S-74D 951198
S-74DX 951200
Features Posifeed™ wire drive assembly and handles a variety of wires up to 1/8 inch. Includes Bernard™ BTB Gun 400 A. Dual-wire models also available. See literature M/3.0.

70 Series MPa Plus
S-74 MPa Plus 951291
D-74 MPa Plus 951292
Same features as traditional 70 Series plus more. Handles a variety of wires up to 5/64 inch. Includes Bernard™ BTB Gun 400 A. Works synergically with MPa power sources. See literature M/3.0.

Extension Cables*
247831025 25 ft. (7.6 m)
247831050 50 ft. (15.2 m)
247831080 80 ft. (24.4 m)
Eleven conductors to support contactor control and remote voltage control on all Miller electronic CV 14-pin power sources. Additional functions supported when using MPa power sources include synergic pulsed MIG, remote process select and side select capabilities.
**Custom lengths available in 5-foot increments up to 50 feet and 10-foot increments up to 100 feet.*

Spoolmatic® 30A 130831
WC-24 (137549) required for use with 14-pin receptacles, order separately. A one-pound, air-cooled spool gun that extends the weld process range by adding a handy portable system for small wire MIG. Rated 200 amps at 100% duty cycle. Includes 30-foot (9.1 m) cable assembly.

WC-24 Weld Control
137549
Required to use Spoolmatic 30A spool gun. Designed for use with Miller CV power sources with 14-pin receptacles and supplying 24 VAC.

Welding Intelligence™

Insight Core™ 14-pin Module 301072
Easy-to-install module brings Insight Core capabilities to your existing fleet. This simplified, Internet-based weld data solution collects, transmits and presents actionable information to any Web-connected device. Insight Core can help you increase productivity, improve weld quality and manage costs.

Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
XMT® 350 VS	**907224**	208 – 575 V with Auto-Line™ (without 14-pin, Tweco® connectors)		
XMT® 350 CC/CV	**907161** **907161011** **907161012** **907161014**	208 – 575 V with Auto-Line™ 208 – 575 V with Auto-Line™ and auxiliary power 230 – 460 V with Auto-Line™ and auxiliary power and **CE** 208 – 575 V with Auto-Line™ and Tweco® connectors		
XMT® 350 CC/CV MIGRunner™ Packages	**951327** **951314**	Power source 907161 with 22A feeder Power source 907161 with S-74D feeder *Packages also include MIGRunner cart, Bernard™ BTB Gun, drive roll kit, 10 ft. 2/0 work cable with clamp, 6 ft. 2/0 wire feeder to power source weld cable, 3 ft. gas hose, and regulator/flowmeter*		
XMT® 350 MPa	**907366** **907366011** **907366002** **907366014**	208 – 575 V with Auto-Line™ 208 – 575 V with Auto-Line™ and auxiliary power 230 – 460 V with Auto-Line™ and auxiliary power and **CE** 208 – 575 V with Auto-Line™ and Tweco® connectors		
Gas Valve Kit	**195286**	For XMT 350		
Accessories				
MIGRunner™ Cart	**195445**			
Running Gear Cylinder Rack	**300408**	For dual feeders		
Protective Cover	**195478**			
Industrial MIG 4/0 Kit with Dinse Connectors	**300405** **300956**	For single feeders For dual feeders		
Cable Connectors and Adapters		See page 6		
Remote Controls				
Wireless Remote Foot Control	**300429**	Foot control with wireless 90 ft. (27.4 m) operating range		
Wireless Remote Hand Control	**300430**	Hand control with wireless 300 ft. (91.4 m) operating range		
RFCS-14	**043554**	Foot control		
RHC-14	**242211020** **242211100**	Hand control with 20 ft. (6 m) cord Hand control with 100 ft. (30.5 m) cord		
RCC-14	**151086**	Fingertip control		
RCCS-14	**043688**	Fingertip control		
Extension Cables		See page 6		
Wire Feeders/Guns				
SuitCase® X-TREME 8VS	**951582**	See literature M/6.42		
SuitCase® X-TREME™ 12VS	**951543**	See literature M/6.421		
SuitCase® 12RC	**951580**	See literature M/6.5		
XR™-S Control	**300601**	Standard model with wire feed speed digital display, jog/purge, run-in control, and trigger hold. See literature M/1.7		
XR™-D Control	**300687**	Enhanced model has same features as XR-S model plus advanced digital and programming capabilities. See literature M/1.7		
XR-AlumaFeed™	**300509**	Advanced model adds Profile Pulse™, synergic control, trigger schedule select, lock capabilities and flow meter. See literature DC/34.0		
70 Series	**951196** **951198** **951200**	S-74S. See literature M/3.0 S-74D. See literature M/3.0 S-74DX. See literature M/3.0		
70 Series MPa Plus	**951291** **951292**	S-74 MPa (single-wire). Works synergically with MPa power sources D-74 MPa (dual-wire). Works synergically with MPa power sources		
Spoolmatic® 30A Spool Gun	**130831**	Requires WC-24 for use with 14-pin receptacles		
WC-24 Weld Control	**137549**	Required for use with Spoolmatic® 30A and power sources **with** 14-pin		
Bernard™ MIG Guns		See Bernard literature SP-BTB		
Welding Intelligence		See page 7		

Date:

Total Quoted Price:

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