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)

Auxiliary 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

AUTO-LINE™
Input power management
for portability

CONVENIENT HANDLES
LESS SPACE
Lightweight and portable

QA
BETTER WELDS WITH LESS REWORK
Best multiprocess
capabilities

TRUE BLUE® 3YR. WARRANTY

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

Choosing the Correct XMT® 350

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 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		Dinse-style	
Stick/TIG/MIG		●	●
Pulsed MIG			●
Compatible Accessories	Insight Core™	●	●
	ArcReach® SuitCase® Feeders	●	●
	Bench Feeders	●	●
	Spool Guns	●	●
	Remote Controls	●	●

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XMT® 350 Series Features

Versatility

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 input power.

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.

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.

XMT 350 CC/CV panel shown

Reliability

Wind Tunnel Technology™ Internal air flow that protects electrical components and PC boards from dirt, dust and 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.

Dinse-style weld disconnects provide high-quality weld cable connections.
Note: Two Dinse-style connectors are supplied with each Dinse machine.

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.

Primary voltage display shows what primary voltage the power source is linked for without removing the side panels. Saves time and assures you that the power source has been correctly linked for available input voltage.

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

Portability

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

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Additional XMT® 350 MPa Features

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

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

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.

(0 setting)   (50 setting)

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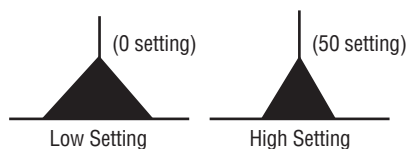
Built-in pulsed MIG programs provide reduced heat affected zone, weld in all positions, great for thick-to-thin metal, good gap filling ability and faster travel speeds and deposition. See the table below for the wide range of pulsed MIG (GMAW-P) welding applications the XMT MPa models can handle.

| 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 74 MPa Plus feeder or XR-AlumaFeed® SuitCase® 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.
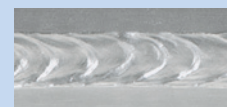
Added capabilities with Insight Core.™ When using an MPa Plus feeder, wire deposition is added to the Insight Core capabilities.

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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							Max. Open-Circuit Voltage	Dimensions	Net Weight
				208 V	230 V	400 V	460 V	575 V	KVA	KW			
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
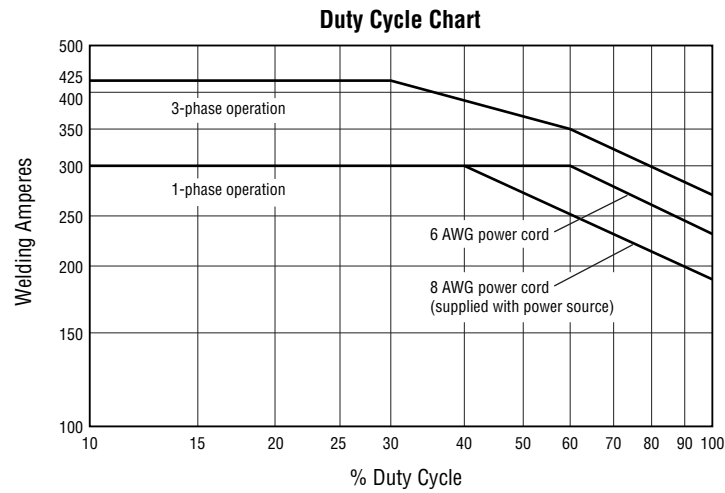
MIGRunner™ Cart
195445 For single feeders
Small footprint and easily maneuverable, with dual-cylinder rack low enough that you do not have to lift bottles. Durable ergonomic handles are designed for comfort.
Note: Not compatible with dual wire feeders.

Running Gear Cylinder Rack
300408 For single or dual feeders
Holds two large gas cylinders and has gun cable hangers and a consumable drawer in front. A convenient handle allows the cart to be pulled easily through doorways. Power source and single or dual feeders can be mounted to cart and secured.

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   301580
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   301582
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 HD Foot Control   301589
Heavy-duty foot pedal current and contactor control provides increased stability and durability from larger base and heavier cord. Includes 20-foot (6 m) cord with 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.

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.

Cable Connectors and Adapters

Note: XMT 350 power sources are equipped with Dinse-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

ArcReach® SuitCase® 8
951726001 With Bernard® BTB Gun 300 A
951728 With Bernard® Dura-Flux™ gun

ArcReach® SuitCase® 12
951729001 With Bernard® BTB Gun 300 A
951731 With Bernard® Dura-Flux™ gun
Portable feeder designed to run off of arc voltage. Includes BTB Gun gun with AccuLock™ consumables, or Dura-Flux™ gun with Centerfire™ consumables. When paired with an ArcReach power source, provides remote control of the power source without a control cord — saving time and money. See literature M/6.55.

SuitCase® 12RC   951580001
Lightweight, portable wire feeder for a variety of wires up to .062-inch diameter. Holds up to a 12-inch spool of wire. Includes remote voltage control, drive roll kit and Bernard® BTB Gun 300 A with AccuLock™ consumables. See literature M/6.5.

XR-AlumaFeed® SuitCase®   301567
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.

74 MPa Plus
S-74 MPa Plus   951291001
D-74 MPa Plus   951292001
Heavy-duty industrial feeder with features for weld control and programs, plus push-pull aluminum capabilities. Handles a variety of wires up to 5/64 inch. Includes Bernard® BTB Gun 400 A with AccuLock™ consumables. 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.

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

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 Most popular models◄Most popular models◄

Power Source and Options	Stock No.	Description	Qty.	Price
XMT® 350 CC/CV	**907161◄** **907161011** **907161012**	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**		
XMT® 350 CC/CV MIGRunner™ Packages	**951786001◄**	Power source **907161** with 20 Series Basic feeder *Packages also include MIGRunner cart, Bernard® BTB Gun 400 A with AccuLock™ consumables, drive roll kit, 10 ft. 2/0 work cable with clamp, flowmeter regulator with 3 ft. gas hose, and 6 ft. 2/0 weld cable for wire feeder to power source*		
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	For single feeders		
Running Gear Cylinder Rack	300408	For dual feeders		
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	301580	Foot control with wireless 90 ft. (27.4 m) operating range		
Wireless Remote Hand Control	301582	Hand control with wireless 300 ft. (91.4 m) operating range		
RFCS-14 HD	301589	Foot control with 20 ft. (6 m) cord and 14-pin plug		
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 (8-conductor)		See page 6		
Wire Feeders/Guns				
ArcReach® SuitCase® 8	951726001 951728	With drive rolls and Bernard BTB Gun 300 A with AccuLock™ consumables With drive rolls and Bernard Dura-Flux™ gun with Centerfire™ consumables		
ArcReach® SuitCase® 12	951729001 951731	With drive rolls and Bernard BTB Gun 300 A with AccuLock™ consumables With drive rolls and Bernard Dura-Flux™ gun with Centerfire™ consumables		
SuitCase® 12RC	951580001	With drive rolls and Bernard BTB Gun 300 A with AccuLock™ consumables		
XR-AlumaFeed® SuitCase®	300509	Advanced push-pull feeder with Profile Pulse™, synergic control, trigger schedule select and lock capabilities. See literature DC/34.0		
70 Series MPa Plus	951291001 951292001	S-74 MPa. With drive rolls and Bernard BTB Gun 400 A with AccuLock™ consumables D-74 MPa. With drive rolls and Bernard BTB Gun 400 A with AccuLock™ consumables		
Extension Cables (11-conductor)		See page 7		
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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