

XMT® 450 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: 5/16-inch carbons
Capable: 3/8-inch carbons

*Available on select models.

Input Power 230/460 V or 575 V
Requires 3-phase power

Output Range 10–38 V, 15–600 A

Net Weight 122 lb. (55.3 kg)

Aux. Power (optional) 120 V, 10 amps

ArcReach (recommended option)
Remote voltage control without a control cable

Excellent arc performance make the XMT family the most popular in the industry.

With multiprocess capabilities and more welding output, the XMT 450 is versatile for applications from jobsites to the factory floor.



XMT 450 CC/CV shown



Uses fewer amps for cost savings



Best multiprocess capabilities



ArcReach™ — remote control without a cord



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

Especificaciones del modelo Deltaweld® 302/402 (Sujetas a cambio sin previo aviso.)



Corriente nominal de salida	Rango de Voltaje de soldadura	Rango de soldadura recomendado	Voltaje máx. a circuito abierto	Entrada en Amp., 50/60 Hz, a la carga nominal de salida								Dimensiones	Peso neto	
				200 V	230 V	380 V	400 V	440 V	460 V	575 V	KVA			KW
300 Amp. a 32 VCD, ciclo de trabajo 100%	10-32 V	15-32 V	42 VCD	48	42	27	25	23	21	17	16.9	12.9	Altura: 30" (762 mm) incluye al ojal de izado Ancho: 23" (585 mm) Profundidad: 30-1/2" (775 mm) incluye al prensacable	323 libras (147 kg)

Nota: Para información acerca del cable de alimentación y el tamaño de los fusibles consulte el manual del propietario.

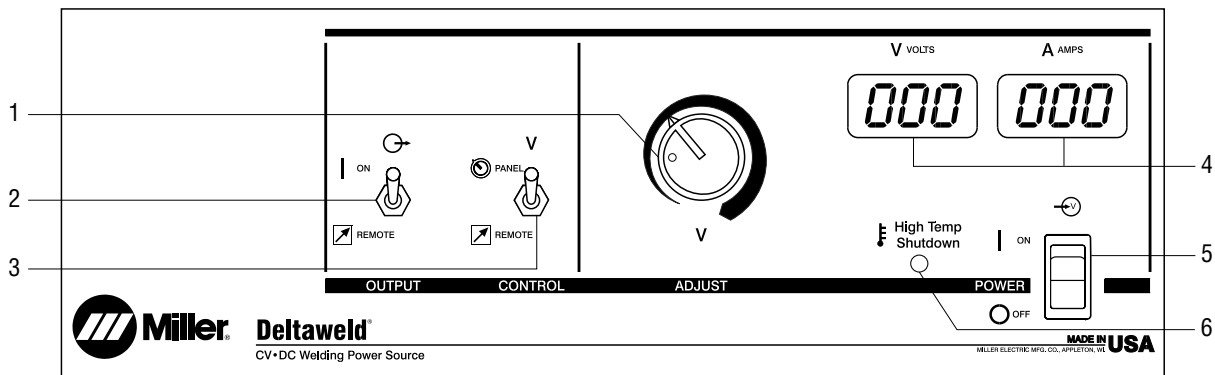


Homologado según normas para equipos de soldadura canadienses y norteamericanas.



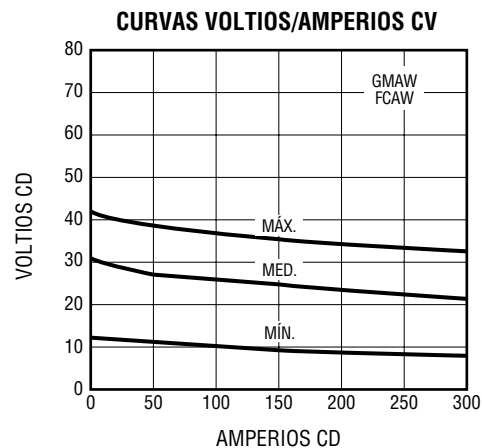
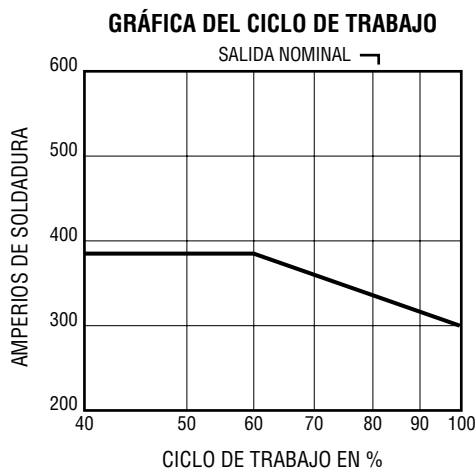
Los modelos para 50 Hz con especificaciones CE están fabricados según las normas IEC-974-1 y EN-60974-1.

Panel de Control

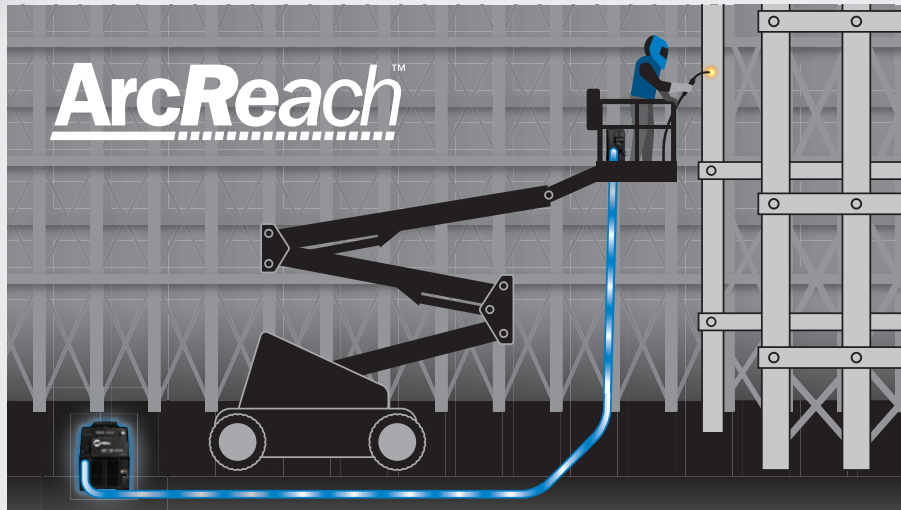


1. Control de ajuste del Voltaje
2. Selector de control (panel/remoto) de la salida
3. Selector de control (panel/remoto) del voltaje
4. Medidores digitales
5. Interruptor de encendido con luz indicadora
6. Luz indicadora de apagado por sobretemperatura

Datos de Desempeño



Nota: CD indica "corriente directa" o "corriente continua"



Remote control of the power source without a cord

ArcReach technology uses the existing weld cable to communicate welding control information between the feeder and power source. This technology eliminates the need for control cords, and their associated problems and costs.

XMT® 450 Series Features

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.

Versatility

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.



XMT 450 CC/CV panel shown

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.

Unique case design helps protect internal components from dirt and dust. To connect input power cord and/or set unit up for correct input power, remove the easy-to-handle panel (1/3 case). The remaining two-thirds of the case never needs to be removed!

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.

Additional XMT® 450 MPa Features

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

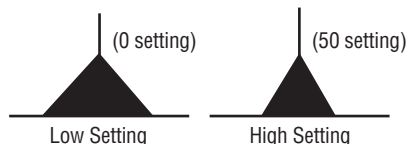


- Setup indicator lights**
- Arc control indicator
 - Wire type indicator
 - Gas type indicator
 - Setup button

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

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, .052 (1.4) STL, 1/16 (1.6) 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, 1/16 (1.6) STL	100S C5 (95 argon/5 carbon dioxide)
Metal Core	.045 (1.2) MCOR, .052 (1.4) MCOR, 1/16 (1.6) MCOR	ARGN CO ₂ (argon/carbon dioxide)
Stainless Steel	.035 (0.9) SSSL, .045 (1.2) SSSL	TRI MIX (tri-gas mixture) ARGN OXY (argon/oxygen) ARGN CO ₂ (argon/carbon dioxide)
	1/16 (1.6) SSSL	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)
	1/16 (1.6) NI	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, 1/16 (1.6) TI-2	ARGN HE50 (50 argon/50 helium)
	1/16 (1.6) TI-2	HE100 (100 helium)

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



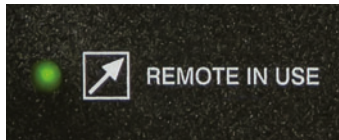
Synergic pulsed MIG. As you increase/decrease the wire feed speed, the pulse parameters increase/decrease, matching the right amount of power output to match the wire speed, eliminating the need to make additional adjustments.

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.

ArcReach™ Features and Advantages (Available on select CC/CV models.)

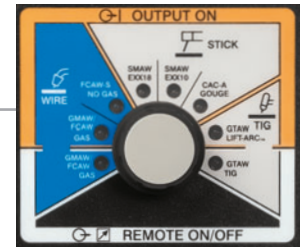


Remote in use indicator provides convenient feedback indicating an ArcReach wire feeder is controlling the power source. While under ArcReach control, process and voltage/amperage adjustments are locked out, preventing accidental changes by personnel other than the welding operator.

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



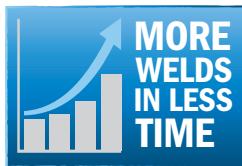
Fleet compatibility. ArcReach-equipped power sources and wire feeders work with non-ArcReach equipment; however, the complete ArcReach benefit is only realized with the ArcReach system.



LED process indicator. Front panel process selections are illuminated with an LED that identifies the active process. This enables the selected weld process to be seen at a distance from the power source.

Includes new carbon arc gouging mode for enhanced arc stability and control, and two new stick modes (EXX10 and EXX18) designed to reduce spatter and enhance arc starts.

ArcReach provides remote voltage control at the wire feeder without needing a control cable.



Increased productivity

More arc-on time and reduced exposure to workplace hazards for operators can be realized using ArcReach because less time is spent going back to the welding power supply to set process and arc voltage.

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 350 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 350 amps).

Less operator fatigue by not needing to move or reposition both heavy secondary weld leads bundled with control cords on the jobsite. Control cables are not used.



Improved weld quality

Remote override of XMT. When an ArcReach feeder is connected to an XMT the feeder has full control and the XMT controls are disabled. While under ArcReach control, process and voltage/amperage adjustments are locked out, preventing accidental changes by personnel other than the welding operator.

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.



Reduced maintenance

Save time by no longer needing to troubleshoot welding system problems that result from damaged control cords.

Eliminate costly control cord repairs because control cords are not used.

Specifications (Subject to change without notice.)



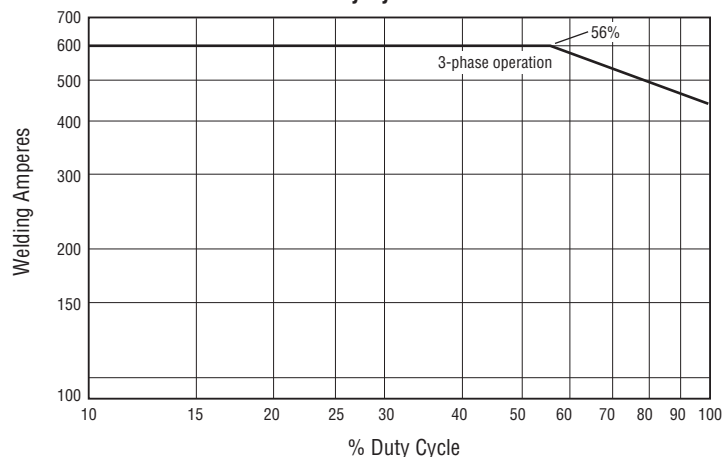
Model	Input Power	Voltage Range in CV Mode	Amperage Range in CC Mode	Rated Output	Amps Input at Rated Load Output, 60 Hz						Max. Open-Circuit Voltage	Dimensions	Net Weight
					230 V	400 V	460 V	575 V	KVA	KW			
XMT 450 CC/CV	Three-phase	10–38 V	15–600 A	450 A at 38 VDC, 100% duty cycle	51	32.1	27.6	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)
XMT 450 MPa					51	—	27.6	23.6	21.6*	18.3			

*KVA is 23.5 on 575 V.

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

Performance Data

Duty Cycle Chart



Genuine Miller® Accessories



XMT 350 6-pack shown.



MIGRunner™ Cart

#195 445 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

#300 408 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.

XMT 450 CC/CV Rack

#907 607 4-pack rack, fused 460 V
#907 608 4-pack rack, fused 575 V

XMT 450 CC/CV ArcReach Rack

#907 700 4-pack rack, fused 460 V

Conveniently houses multiple XMT power sources for multiple welders. Features include:

- Provision to parallel power sources on common work connections
- Two lifting eyes for transportation
- Rugged skids for dragging or pushing

For detailed information on customized inverter rack systems see Lit. Index No. DC/18.81.

Remote Controls



Wireless Remote Foot Control #300 429
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 #300 430
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 #043 554
Foot current and contactor control. Includes 20-foot (6 m) cord and 14-pin plug.



RHC-14 Hand Control* #242 211 020
20-foot (6 m) cord
#242 211 100
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 #151 086
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 #043 688
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*

#242 208 025 25 ft. (7.6 m)

#242 208 050 50 ft. (15 m)

#242 208 080 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.*

Wire Feeders/Guns



SuitCase® X-TREME™ 8VS #951 582

SuitCase® X-TREME™ 12VS #951 543

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 Lit. Index No. M/6.41.



SuitCase® X-TREME™ 8VS ArcReach #951 588

With Bernard™ S-Gun™

#951 584 With Bernard™ Q300

SuitCase® X-TREME™ 12VS ArcReach #951 589

With Bernard™ S-Gun™

#951 581 With Bernard™ Q300

Portable feeder designed to run off of arc voltage. ArcReach provides remote control of the power source without a cord — saving time and money.



SuitCase® 12RC #951 580

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 Lit. Index No. M/6.5.



XR™-S Control #300 601

XR™-D Control #300 687

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 Lit. Index No. M/1.7.



XR-AlumaFeed™ #300 509

Advanced push-pull wire feeder designed for high-volume, high-production aluminum MIG welding where quality and consistency is a high priority. See Lit. Index No. DC/34.0



70 Series

S-74S #951 196

S-74D #951 198

S-74DX #951 200

Features Posifeed™ wire drive assembly and handles a variety of wires up to 1/8 inch. Includes Bernard™ Q-Gun™. Dual-wire models also available. See Lit. Index No. M/3.0.



70 Series MPa Plus

S-74 MPa Plus #951 291

D-74 MPa Plus #951 292

Same features as traditional 70 Series plus more. Handles a variety of wires up to 5/64 inch. Includes Bernard™ Q-Gun™. Works synergically with MPa power sources. See Lit. Index No. M/3.0.

Extension Cables*

#247 831 025 25 ft. (7.6 m)

#247 831 050 50 ft. (15.2 m)

#247 831 080 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

#130 831

WC-24 (#137 549) 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 #137 549

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 #301 072

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® 450 CC/CV	#907 481	230/460 V		
	#907 482	575 V		
	#907 525	400 V with auxiliary power and CE		
XMT® 450 MPa	#907 479	230/460 V		
	#907 479 001	230/460 V with auxiliary power		
	#907 480	575 V		
	#907 480 001	575 V with auxiliary power		
XMT® 450 CC/CV ArcReach™	#907 481 003	230/460 V		
	#907 481 004	230/460 V with auxiliary power		
	#907 482 002	575 V		
XMT® 450 Rack		See page 6. For more information, see Lit. Index No. DC/18.81		
Gas Valve Kit	#300 928	For XMT 450		
Accessories				
MIGRunner™ Cart	#195 445	For single feeders		
Running Gear Cylinder Rack	#300 408	For single or dual feeders		
Remote Controls				
Wireless Remote Foot Control	#300 429	Foot control with wireless 90 ft. (27.4 m) operating range		
Wireless Remote Hand Control	#300 430	Hand control with wireless 300 ft. (91.4 m) operating range		
RFCS-14	#043 554	Foot control		
RHC-14	#242 211 020 #242 211 100	Hand control with 20 ft. (6 m) cord Hand control with 100 ft. (30.5 m) cord		
RCC-14	#151 086	Fingertip control		
RCCS-14	#043 688	Fingertip control		
Extension Cables		See page 7		
Wire Feeders/Guns				
SuitCase® X-TREME 8VS	#951 582	See Lit. Index No. M/6.41		
SuitCase® X-TREME™ 12VS	#951 543	See Lit. Index No. M/6.41		
SuitCase® X-TREME 8VS ArcReach™	#951 588	With Bernard™ S-Gun™		
	#951 584	With Bernard™ Q300 Gun		
SuitCase® X-TREME™ 12VS ArcReach™	#951 589	With Bernard™ S-Gun™		
	#951 581	With Bernard™ Q300 Gun		
SuitCase® 12RC	#951 580	See Lit. Index No. M/6.5		
XR™-S Control	#300 601	Standard model with wire feed speed digital display, jog/purge, run-in control, and trigger hold. See Lit. Index No. M/1.7		
XR™-D Control	#300 687	Enhanced model has same features as XR-S model plus advanced digital and programming capabilities. See Lit. Index No. M/1.7		
XR-AlumaFeed™	#300 509	Advanced model adds Profile Pulse™, synergic control, trigger schedule select, lock capabilities and flow meter		
70 Series	#951 196	S-74S. See Lit. Index No. M/3.0		
	#951 198	S-74D. See Lit. Index No. M/3.0		
	#951 200	S-74DX. See Lit. Index No. M/3.0		
70 Series MPa Plus	#951 291 #951 292	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	#130 831	Requires WC-24 for use with 14-pin receptacles		
WC-24 Weld Control	#137 549	Required for use with Spoolmatic® 30A and power sources with 14-pin		
Bernard™ MIG Guns		See Welding Components and Parts Guide		
Welding Intelligence		See page 7		

Date:

Total Quoted Price: