

XMT[®] 304 CC/CV

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Multiprocess Welding Power Source 

Quick Specs

Heavy Industrial Applications

Construction
Shipbuilding
Railroad
Truck/trailer manufacturing
Fabrication
Repair shops
Rental fleets

Processes

MIG (GMAW)
Pulsed MIG (GMAW-P)
Stick (SMAW)
TIG (GTAW)
Flux-cored (FCAW)
Air carbon arc cutting
and gouging (CAC-A)

Input Power Requires 3- or 1-phase power

Output Power 10–35 V, 5–400 A

Weight Net: 79.5 lb. (36.1 kg)
Ship: 88.6 lb. (40.2 kg)

Wind Tunnel Technology™ protects electrical components and PC boards from contamination.

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

Lift-Arc™ allows TIG starting without the use of high-frequency. Starts the arc without contaminating the weld with tungsten.

Line voltage compensation keeps welding output constant even if input power varies by +/-10 percent.

Adaptive Hot Start™ increases the output amperage at the start of a weld if necessary, eliminating electrode sticking.



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

Inverter arc control technology provides greater puddle control for superior 6010 stick electrode performance.

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

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

Specifications (Subject to change without notice.)



Input Power	Rated Output at 60% Duty Cycle	Voltage Range in CV Mode	Amperage Range in CC Mode	Max. Open-Circuit Voltage	Amps Input at Rated Load Output, 60 Hz,						Dimensions	Weight	
					208 V	230 V	400 V	460 V	575 V	KVA			KW
Three-Phase	300 A at 32 VDC	10–35 V	5–400 A	90 VDC	33.7	30.5	17	18.9	15.2	12.2	11.6	H: 17 in. (432 mm) W: 12.5 in. (318 mm) D: 24 in. (610 mm)	79.5 lb. (36.1 kg)
Single-Phase	225 A at 29 VDC	10–35 V	5–400 A	90 VDC	52.4	47.4	—	24.5	—	11.3	7.6		

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



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



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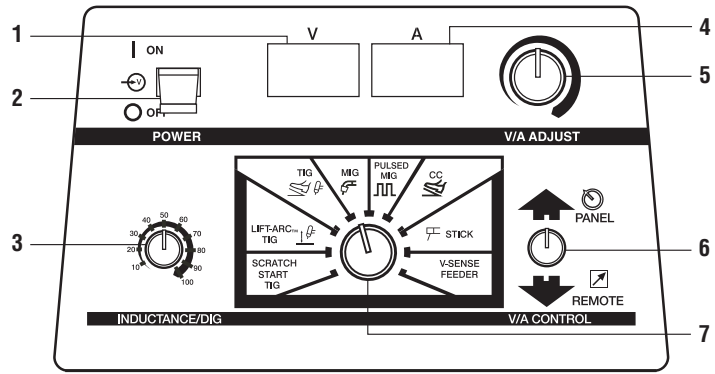

Control Panel

Additional Features

Auto-Link® circuit automatically links the power source to primary voltage being applied (230/460 V, single- or three-phase).

Ultra-tough polycarbonate-blended cover for control panel protects front controls from damage.

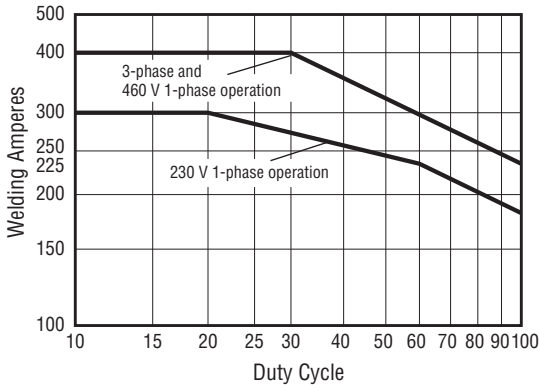
Dinse-style weld disconnects provide high-quality weld cable connections.



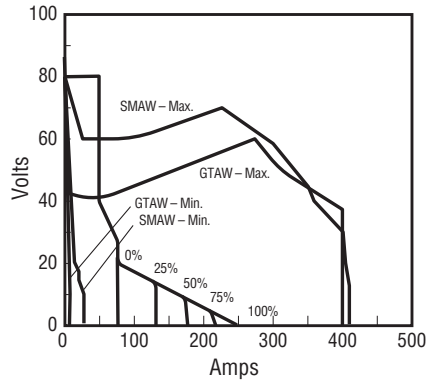
1. Voltmeter
2. Power On/Off Switch
3. Inductance/Dig Control
4. Ammeter
5. Voltage/Amperage Adjustment Control
6. Voltage/Amperage Control Switch
7. Process Selector Switch (Rotary Switch)

Performance Data

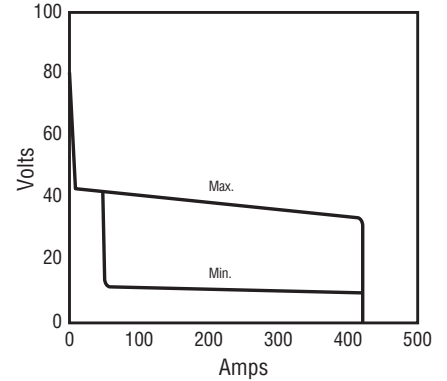
Duty Cycle Chart



CC Volt/Amp Curve



CV Volt/Amp Curve



XMT® MIGRunner Components

XMT® 304 MIGRunner™ 951343

Comes complete with:

- XMT 304 CC/CV power source
- 22A wire feeder
- Bernard™ BTB Gun 400 A
- Consumables
- .035/.045-inch drive roll kit
- Regulator/flow gauge with gas hose
- MIGRunner cart with cylinder rack
- Bottom tray will hold optional Coolmate™ 3 (sold separately)



Genuine Miller® Accessories

Process Selector Control 042872

Designed for use with dual wire feeders, applications where electrical isolation and/or polarity reversing of weld current is required, and for welding process changes. Includes 115-volt 2-amp receptacle, two 14-pin receptacles and a 10-foot (3 m) 14-pin cord.



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.



RMLS-14 129337

Momentary- and maintained-contact rocker switch for contactor control. Push forward for maintained contact and back for momentary contact. Includes 20-foot (6 m) 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 Cords 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.



MIGRunner™ Cart 195445

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

Wire Feeders/Guns



70 Series

S-74S 951196
S-74D 951198

Heavy-duty, industrial, constant-speed 24 VAC semiautomatic wire feeders with available digital meters. Ideal for high-duty-cycle MIG (GMAW) and flux-cored (FCAW) welding. Accommodates a wide variety of wire sizes and types. Includes Bernard™ BTB Gun. See literature M/3.0.



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 percent duty cycle. Includes 30-foot (9.1 m) cable assembly. **WC-24 Control (137549)** required with 14-pin receptacles.



WC-24 Weld Control 137549

Designed for use with Miller CV power sources supplying 24 VAC and 14-pin receptacles. For use with Spoolmatic 30A spool gun.

Coolant Systems

For more information, see the Coolant™ Series literature AY/7.2.



Coolmate™ 3

043007 120 V
043008 240 V

For use with water-cooled torches rated up to 500 amps. Unique paddle-wheel indicator, external filter and easy-fill spout.



Coolmate™ 4 042288 120 V

For use with water-cooled torches rated up to 600 amps. Tough molded polyethylene case with carrying handle.



Low-Conductivity TIG Coolant 043810

Sold in multiples of four one-gallon recyclable plastic bottles. Miller coolants contain a base of ethylene glycol and deionized water to protect against freezing to -37° Fahrenheit (-38° C) or boiling to 227° Fahrenheit (108° C).

Genuine Miller® Accessories (Continued)

Note: XMT 304 power sources are equipped with Dinse-style connectors for secondary connections.



Dinse/Tweco® Adapter
042465

Dinse/Cam-Lok Adapter
042466

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

Dinse-Style Connectors

042418

Accepts #4 to #1/0 AWG size cable.

042533

Accepts #1/0 to #2/0 AWG size cable.

Kit includes 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 size 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.

Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
XMT® 304 CC/CV	903471	208-230/460 V with Auto-Link®		
XMT® 304 MIGRunner™ Package	951343	208-230/460 V with Auto-Link®		
Accessories				
Process Selector Control	042872			
RFCS-14	043554	Foot control		
RHC-14	242211020	Hand control		
RMLS-14	129337	Rocker switch		
RCC-14	151086	Fingertip control		
RCCS-14	043688	Fingertip control		
Extension Cords (For 24 VAC wire feeders and remote controls)		See page 3		
Running Gear				
MIGRunner™ Cart	195445			
Wire Feeders/Guns				
70 Series		See page 3		
Spoolmatic® 30A Spool Gun	130831	Requires WC-24 for use with 14-pin receptacles		
WC-24	137549	For use with Spoolmatic 30A and power sources with 14-pin		
WC-115A	137546011	For use with Spoolmatic 30A and power sources without 14-pin		
Bernard® BTB MIG Guns		See Bernard literature SP-BTB		
Coolant Systems				
		See page 3. See literature AY/7.2		
Cable Connectors and Adapters				
		See above		

Date:

Total Quoted Price:

Distributed by:

