Dimension[™] 650



Quick Specs

Heavy Industrial Applications

Fabrication and construction
Heavy manufacturing
MRO — maintenance/repair
Pressure tank/vessel fabrication
Shipbuilding
Refineries and foundries
Railcar manufacturing
Earth-moving equipment manufacturing

Processes

MIG (GMAW)
Flux-cored (FCAW)
Submerged arc (SAW)
Stick (SMAW)
TIG (GTAW)
Air carbon arc (CAC-A)
cutting and gouging
Rated: 3/8-inch carbons

Input Power 380/460 V, 50/60 Hz or 575 V, 60 Hz,

3-phase power

Rated Output 650 A at 44 VDC, 100% duty cycle

Output Range 15–815 A, 10–65 V

Net Weight 158 lb. (71.7 kg)

ArcReach (recommended option)

Remote voltage control without a control cable

Big capabilities in a smaller package.

Developed for harsh environmental conditions and output requirements that range from power-intensive to precise.

An unbeatable combination of durability, output, efficiency and capability — all in a smaller, easier-to-handle package. Inside its tough, corrosion-resistant, all-aluminum case is big power for heavy welding jobs and carbon arc gouging.

In addition to excellent stick and Lift-Arc™ TIG, the Dimension 650 also has excellent short-arc MIG characteristics for precise thinmetal welding performance.

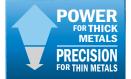




Power source is warrantied for three years, parts and labor. Original main power rectifier parts are warrantied for five years.



Rugged and durable inside and out



Power and precision



Improved weld quality



More portable and takes up less floor space



ArcReach® remote control without a cord



Miller Electric Mfg. LLC

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





Dimension™ 650 Advantages

Withstands harsh environments



Rugged and durable inside and out

All-aluminum construction helps the machine resist corrosion for long life.

Exclusive protection input inductor protects machine's performance and reliability from "dirty" input power.

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

Fan-On-Demand™ operates only when needed reducing noise, power consumption, and the amount of airborne contaminants pulled through the machine.

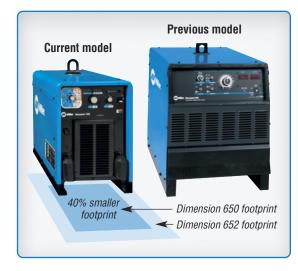


Smaller and lighter



More portable and takes up less floor space

Reduced size and weight results in an easier-to-handle package that exceeds the welding performance of larger, heavier machines. Weighing in at 158 pounds (71.7 kg), the Dimension 650 is 3.5 times lighter than the Dimension 652, making it easier to move around the shop, jobsite, or shipyard. It also uses 40 percent less floor space.

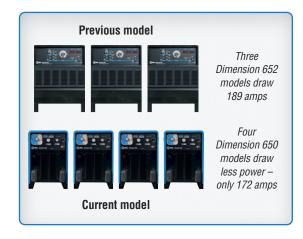


Power efficient



Uses 32% fewer amps than previous model

High electrical efficiency and excellent power factor mean that you can get more welding done using less power. On 460-volt input power, the Dimension 650 draws only 43 amps at rated load and can operate on a 50-amp service. Four machines can work at maximum loads simultaneously on a 200-amp service, drawing less amperage than three previous models.





Dimension™ 650 Advantages

Improved arc performance



Power and precision



Improved weld quality

High-quality performance from power-intensive to precise. Knowing quality welds begin with a quality arc, we've significantly improved the performance in all welding processes and made it easy to fine tune the arc to match your personal preferences and welding style.

Gouging mode provides 800 amps of usable power, a full 650 amps of power at 100 percent duty cycle. Perfect for heavy gouging with 3/8-inch carbons.

Three wire modes (GMAW/FCAW/SAW) for simplified setup and optimized arc performance.

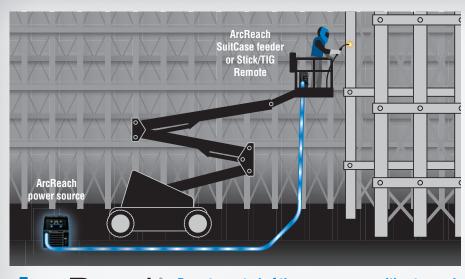
- Solid and flux-cored wires with gas offer exceptional short-arc MIG precision to weld thin metals with less risk of distortion or burn-through, and premium flux-cored welding with gas.
- Flux-cored (self-shielded) welding performance is exceptional, especially with wires commonly found in infrastructure construction.
- Sub arc mode provides capability to retrofit into non-digital sub arc applications.

Excellent stick and Lift-Arc™ TIG performance.

Arc control is beneficial when welding with stick and solid wires for easier fine-tuning of tough-to-weld materials and out-of-position applications.



Dimension 650 Recommended Option



ArcReach

Remote control of the power source without a cord.

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

ArcReach accessories



For MIG or flux-cored welding — ArcReach® SuitCase® feeders

- Remote voltage control
- Polarity indication
- Auto-Process Select[™]



For stick or TIG welding — ArcReach® Stick/TIG Remote

- Remote amperage control
- · Arc control for stick
- Polarity indication
- Auto-Process Select[™]



Dimension™ 650 Features



Digital meters with SunVision™ technology enable welding parameters to be viewed with greater clarity than analog meters — at virtually any angle. Meters can be seen clearly even in direct sunlight.

Meters display

- · Process settings for quick and easy setup
- Preset and actual amperage

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.

- Gouging mode is an optimized stick position for better gouging performance
- Three wire modes (GMAW/FCAW/SAW) for simplified setup and optimized arc performance
- Solid and flux-cored wires with gas
- Flux-cored (self-shielded)
- Sub arc
- · Stick mode for all electrode types
- Lift-Arc™ TIG

Standard 14-pin receptacle with -Auto-Remote Sense™ for simple connection of remote controls and wire feeders.



Durable weld cable connections

- Serrated hardware for single-wrench application
- Easy double weld cable installation
- Flexible, protective covers prevent incidental contact



Remote in use indicator. On standard Dimension 650 models the remote in use indicator means a device (remote control or wire feeder with a remote control) is connected to the 14-pin connector.



Back panel. 20 amps of 120-volt power to run power tools — like grinders, chop saws, drills and lights.

Dimension 650 ArcReach additional features

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.

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

Front-panel-mounted power switch is easy to access when in racks or manufacturing cells.



Arc control is active in the stick and solid-wire processes. It allows the operator to customize arc characteristics to match preference, electrode and joint design from a softer arc with more fluid puddle to a stiffer arc with an more controllable puddle. The Star setting is optimized for most applications and pointing the control at Soft or Stiff is optimal for most arc preferences. Control is fully adjustable from 0 to 25 Soft or 0 to 25 Stiff.

Specifications (Subject to change without notice.)







Amperage/Voltage Ranges	Rated Output	Amps I	nput at 460 V	Rated Ou 575 V*	tput, 50 KVA	/60 Hz KW	Max. Open- Circuit Voltage	Dimensions	Net Weight
10-815 A in CC mode 10-44 V in CV mode 10-65 V in SAW mode	650 A at 44 VDC, 100% duty cycle	53.2	42.8	34.3	34	30.7	87	H: 28.187 in. (716 mm) (including lift eye) W: 16.687 in. (424 mm) D: 31.625 in. (803 mm)	158 lb. (71.7 kg)

^{*}Dimension 650 with 575-volt input is 60 Hz only.



Wire Feeder Options

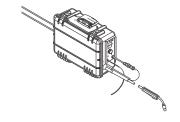
Portable Suitcase-Style Feeders

ArcReach® SuitCase® 8 and 12 See literature M/6.55

These voltage-sensing feeders are designed to run off of arc voltage from almost any welding power source. The ArcReach SuitCase 8 utilizes an 8-inch spool of wire and fits through a 14-inch manhole/manway, while the ArcReach SuitCase 12 adds the capability to utilize 12-inch spools and is more commonly used in structural steel and fabrication.

SuitCase® 12RC See literature M/6.45

Standard remote voltage control saves the operator a trip back to the power supply for welding adjustments. For applications where the feeder is within 100 feet of the power source and control cords are acceptable.



Bench-Style Feeders

20 Series Feeders See literature M/11.0

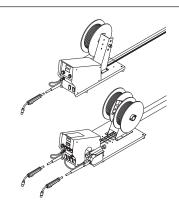
Simple and cost-effective feeders for industrial manufacturing and fabricating.

70 Series Feeders See literature M/3.0

74S — Standard, simple feeders for most heavy-industrial applications.

74D — Provides increased accuracy and control of the most common weld parameters.

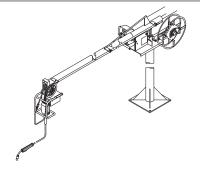
74 MPa Plus — Adds push-pull aluminum capabilities. Optimized for use with XMT® MPa, Invision™ MPa and Dimension™ 650 power sources.



Boom-Style Feeders

70 Series Swingarc™ See literature M/13.11

Swingarc single and dual boom-mounted wire feeders bring an extra dimension of flexibility and efficiency to weld stations dealing with large weldments, or wherever operator mobility is required.



Aluminum Push-Pull Feeders and Guns

XR-AlumaFeed® SuitCase® See literature DC/34.0

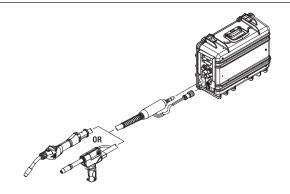
Cost-effective push-pull feeder for industrial applications.

XR-Aluma-Pro™ Gun See literature M/1.71

Robust professional grade gun has the highest duty-cycle rating in its class.

XR™-Pistol-Pro Gun See literature M/1.74

Exceptional aluminum welding results for heavy industrial applications.

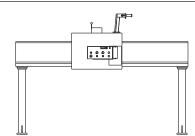


Hard Automation

70 Series Remote Configurations See literature M/3.0

Remote wire feeder control box and wire drive assembly for non-Miller boom applications.

Sub Arc mode provides capability to retrofit into non-digital sub arc applications. 115-volt adapter cord for legacy 14-pin accessories is required.





Genuine Miller® Accessories



Dimension™ 650 ArcReach® Rack 907701

Conveniently houses four Dimension 650 ArcReach 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



Running Gear Cylinder Rack 300408

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

Adapter Cord 301259

115-volt cord for legacy 14-pin accessories. Required to connect to HDC 1500.

Process Control Selector 042872

Allows you to easily change weld processes without changing cables—from TIG to MIG or TIG to stick. Also includes features of polarity control. Can be used with any constant-current, constant-voltage or multiprocess CC/CV welding power source.



Industrial MIG 4/0 Kit 300390

Consists of flowmeter regulator with 10-foot (3 m) gas hose, 10-foot (3 m) 4/0 feeder weld cable with lugs, and 15-foot (4.6 m) work cable with 600-amp C-clamp.

Remote Controls and Switches



ArcReach® Stick/TIG Remote 301325

When paired with an ArcReach power source, provides remote control of the power source without a cord —

saving time and money. See literature AY/14.5.



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 HD Foot Control 194744

Maximum flexibility is accomplished with a reconfigurable cord that can exit the front, back or either side of the pedal. Foot pedal provides remote current and contactor control. Includes 20-foot (6 m) cord and 14-pin plug.



RHC-14 Hand Control 242211020 20 ft. (6 m) cord 242211100

100 ft. (30.5 m) cord Miniature hand control for remote current and

contactor control. Dimensions: $4 \times 4 \times 3.25$ inches (102 x 102 x 83 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. Allows complete current and contactor control at operator's fingertips. 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. Great for applications that require a finer amperage control. Includes 26.5-foot (8 m) cord and 14-pin plug.



RMLS-14 129337

Momentary- and maintained-contact rocker switch for contactor control. Push forward for maintained contact and backward for momentary contact. Includes 26.5-foot (8 m) cord and 14-pin plug.

Extension Cables for 14-Pin Plugs to 14-Pin Sockets

242208025 25 ft. (7.6 m) **242208050** 50 ft. (15.2 m) **242208080** 80 ft. (24.4 m)

Extension cables make a direct connection between the power source and remote control or 24 V wire feeder. No messy splicing or adapting required.



Genuine Miller® Accessories (Continued)

Wire Feeders



ArcReach® SuitCase® 8
951726 With Bernard® BTB Gun 300 A
951728 With Bernard® Dura-Flux™ gun
ArcReach® SuitCase® 12

951729 With Bernard® BTB Gun 300 A **951731** With Bernard® Dura-Flux™ gun

Portable feeder designed to run off of arc voltage. 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.



70 Series Wire Feeders

S-74 MPa Plus 951291 Single-wire feeder **D-74 MPa Plus 951292** Dual-wire feeder

Order XR-Aluma-Pro™ Plus gun and U-grooved drive rolls separately to match your aluminum needs. Above models are optimized for Dimension™ 650 and have push-pull capability.

S-74S	951196	Single-wire feeder
S-74D	951198	Single-wire feeder
D-74S	951203	Dual-wire feeder
D-74D	951204	Dual-wire feeder

70 Series feeders feature Posifeed™ wire drive assembly and handle a variety of wires. Each includes a 15-foot Bernard® BTB Gun 400 A (two for dual feeders) and .035/.045-inch V-grooved drive rolls. See literature M/3.0.

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.

Coolant Systems

For more information see literature AY/7.2.



Coolmate™ 3 043007 115 V **043008** 230 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 115 V

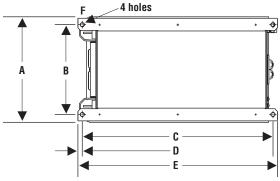
For use with water-cooled torches rated up to 600 amps. Tough molded polyethylene case with carrying handle.

Coolant 043810

Sold in cases of four one-gallon recyclable plastic bottles. Miller coolants contain a base of ethylene glycol and deionized water to protect against freezing to -37 degrees Fahrenheit (-38°C) or boiling to 227 degrees Fahrenheit (108°C). Also contains a compound that resists algae growth.

Mounting Specifications

Bottom View



- A. 16.687 in. (424 mm)
- **B.** 14.25 in. (362 mm)
- **C.** 30.25 in. (768 mm)
- **D.** .687 in. (44 mm)
- **E.** 31.625 in. (803 mm)
- F. .625 in. (17 mm) dia.

Height: 28.187 in. (716 mm) **Width:** 16.687 in. (424 mm) **Depth:** 31.625 in. (803 mm)



Ordering Information

Dimension* 650 Power Source Only 907617 380/460 V, 50/60 Hz 380/460 V, 50/60 V, 50/	Equipment and Options	Stock No.	Description	Qty.	Price
	Dimension™ 650 Power Source Only	907617	380/460 V, 50/60 Hz		
Dimension" 650 ArcReach" 907617001 380/460 V, 50/60 Hz 575 V, 60 Hz 907809 575 V, 60 Hz 907809 575 V, 60 Hz 907809 907809 575 V, 60 Hz 907809	Dimension™ 650 Stationary Package 951638				
Power Source Only 907809 575 V, 60 Hz	Dimension™ 650 MIGRunner™ Package	951637	380/460 V, 50/60 Hz. Includes stationary package plus running gear cylinder rack		
Dimension" 650 ArcReach" Rack 907701 4-pack rack Options and Accessories 8 Running Gear Cylinder Rack 300408 Adapter Cord 301259 115-volt cord for legacy 14-pin accessories. Required to connect to HDC 1500 Process Control Selector 042872 Industrial MIG 4/0 Kit 300390 Includes flowmeter regulator with 10 ft. (3 m) gas hose, 10 ft. (3 m) ArcReache" Stick/TIG Remote 301325 Point-of-use control for stick or TIG welding and gouging with Dimension 650 ArcReach Wireless Remote Foot Control 300429 Foot control with wireless 90 ft. (27.4 m) operating range Wireless Remote Hand Control 300430 Hand control with 20 ft. (6 m) cord and 14-pin plug RFCS-14 HD 194744 Foot control with 20 ft. (6 m) cord and 14-pin plug RFC-14 24221109 Hand control with 20 ft. (6 m) cord and 14-pin plug RCC-14 151086 Fingertip control (east/west) RMLS-14 129337 Rocker switch Sce page 6 Wire Feeders Point-of-use control for MIG or flux-cored welding with Dimension 650 ArcReach. See page 7 and literature M/6.5 See literature M/6.5 70 Series <td>Dimension™ 650 ArcReach™</td> <td>907617001</td> <td>380/460 V, 50/60 Hz</td> <td></td> <td></td>	Dimension™ 650 ArcReach™	907617001	380/460 V, 50/60 Hz		
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Running Gear Cylinder Rack Adapter Cord 301259 115-volt cord for legacy 14-pin accessories. Required to connect to HDC 1500 Process Control Selector 1042872 116dustrial MIG 4/0 Kit 300390 11cludes flowmeter regulator with 10 ft. (3 m) gas hose, 10 ft. (3 m) 4/0 feeder weld cable with lugs, and 15 ft. (4.6 m) work cable with 600-amp C-clamp Remote Controls ArcReach® Stick/TIG Remote 301325 ArcReach® Stick/TIG Remote 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 Wireless Remote Hand Control 300430 Hand control with wireless 300 ft. (91.4 m) operating range RFCS-14 HD 194744 Foot control with 20 ft. (6 m) cord and 14-pin plug Hand control with 20 ft. (6 m) cord and 14-pin plug RCC-14 151086 Fingertip control (east/west) RCCS-14 151086 Fingertip control (east/west) RCCS-14 129337 Rocker switch Extension Cables See page 6 Wire Feeders ArcReach® SuitCase® 8 and 12 Point-of-use control for MIG or flux-cored welding with Dimension 650 ArcReach. See page 7 and Isterature M/6.55 See page 7 and See literature M/6.55 See literature M/6.55 See literature M/6.55 See literature M/6.55 See literature M/1.71 and M/1.74 Swingarc® Boom Feeders Welding Intelligence® See literature M/3.11 Welding Intelligence® See page 7	Dimension™ 650 ArcReach™ Rack	907701	4-pack rack		
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RFCS-14 HD 194744 Foot control with 20 ft. (6 m) cord and 14-pin plug RHC-14 242211020 Hand control with 20 ft. (6 m) cord and 14-pin plug RCC-14 151086 Fingertip control (east/west) RCCS-14 043688 Fingertip control (east/west) RCCS-14 129337 Rocker switch Extension Cables See page 6 Wire Feeders ArcReach® SuitCase® 8 and 12 Point-of-use control for MIG or flux-cored welding with Dimension 650 ArcReach. See page 7 and See literature M/6.5 See page 7 and See literature M/3.0 SuitCase® 12RC See literature M/6.5 See literature M/1.0 XR-AlumaFeed® SuitCase® See literature M/3.0 See literature M/3.11 Welding Intelligence™ See page 7	Wireless Remote Foot Control	300429	Foot control with wireless 90 ft. (27.4 m) operating range		
RHC-14 24221100 Hand control with 20 ft. (6 m) cord and 14-pin plug Hand control with 100 ft. (30.5 m) cord and 14-pin plug RCC-14 151086 Fingertip control (east/west) RCCS-14 043688 Fingertip control (north/south) RMLS-14 129337 Rocker switch Extension Cables Wire Feeders ArcReach® SuitCase® 8 and 12 Point-of-use control for MIG or flux-cored welding with Dimension 650 ArcReach. See page 7 and literature M/6.55 70 Series See page 7 and See literature M/3.0 SuitCase® 12RC See literature M/6.5 See literature M/11.0 XR-AlumaFeed® SuitCase® See literature DC/34.0 XR™ Push-Pull Guns See literature M/1.71 and M/1.74 Swingarc™ Boom Feeders See page 7	Wireless Remote Hand Control	300430	Hand control with wireless 300 ft. (91.4 m) operating range		
RCC-14 151086 Fingertip control (east/west) RCCS-14 043688 Fingertip control (east/west) RCCS-14 129337 Rocker switch Extension Cables See page 6 Wire Feeders ArcReach® SuitCase® 8 and 12 Point-of-use control for MIG or flux-cored welding with Dimension 650 ArcReach. See page 7 and literature M/6.55 70 Series See page 7 and See literature M/6.5 See literature M/11.0 XR-AlumaFeed® SuitCase® See literature M/1.71 and M/1.74 Swingarc™ Boom Feeders Welding Intelligence™ See page 7	RFCS-14 HD	194744	Foot control with 20 ft. (6 m) cord and 14-pin plug		
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Extension Cables See page 6 Wire Feeders ArcReach® SuitCase® 8 and 12 Point-of-use control for MIG or flux-cored welding with Dimension 650 ArcReach. See page 7 and literature M/6.55 See page 7 and See literature M/3.0 SuitCase® 12RC See literature M/6.5 See literature M/11.0 XR-AlumaFeed® SuitCase® See literature DC/34.0 XR™ Push-Pull Guns See literature M/1.71 and M/1.74 Swingarc™ Boom Feeders See page 7 See page 7	RCCS-14	043688	Fingertip control (north/south)		
Wire Feeders ArcReach® SuitCase® 8 and 12 Point-of-use control for MIG or flux-cored welding with Dimension 650 ArcReach. See page 7 and literature M/6.55 70 Series See page 7 and See literature M/3.0 SuitCase® 12RC See literature M/6.5 20 Series See literature M/11.0 XR-AlumaFeed® SuitCase® See literature DC/34.0 XR™ Push-Pull Guns See literature M/1.71 and M/1.74 Swingarc™ Boom Feeders See literature M/13.11 Welding Intelligence™ See page 7	RMLS-14	129337	Rocker switch		
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See page 7 and literature M/6.55 70 Series See page 7 and See literature M/3.0 SuitCase® 12RC See literature M/6.5 20 Series See literature M/11.0 XR-AlumaFeed® SuitCase® See literature DC/34.0 XR™ Push-Pull Guns See literature M/1.71 and M/1.74 Swingarc™ Boom Feeders See literature M/13.11 Welding Intelligence™ See page 7	Wire Feeders				
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XR-AlumaFeed® SuitCase® See literature DC/34.0 XR™ Push-Pull Guns See literature M/1.71 and M/1.74 Swingarc™ Boom Feeders See literature M/13.11 Welding Intelligence™ See page 7	SuitCase® 12RC		See literature M/6.5		
XR™ Push-Pull Guns See literature M/1.71 and M/1.74 Swingarc™ Boom Feeders See literature M/13.11 Welding Intelligence™ See page 7	20 Series		See literature M/11.0		
Swingarc™ Boom Feeders See literature M/13.11 Welding Intelligence™ See page 7	XR-AlumaFeed® SuitCase®		See literature DC/34.0		
Welding Intelligence™ See page 7	XR™ Push-Pull Guns		See literature M/1.71 and M/1.74		
	Swingarc [™] Boom Feeders		See literature M/13.11		
Coolant Systems See page 7	Welding Intelligence™		See page 7		
	Coolant Systems		See page 7		

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