



P.O. Box 67 | 715 Chapel Street | Baldwin City | Kansas | 66006

Mark Dodge, Superintendent
Michelle Patterson, Board Clerk • Payroll Specialist
Nathian Oehlert, Director of Financial Operations • Board Treasurer

Phone: (785) 594-2721 Fax: (785) 594-3408
<http://www.usd348.com>

July 17, 2026

NOTICE OF INVITATION TO BID

Written sealed bids will be received by the Board of Education of Unified School District No. 348, Douglas County, Kansas at the district office in Baldwin City, Kansas for seven Miller welders, one Miller plasma cutter, and fifteen welding helmets for the new CTE Facility at the Baldwin High School. See specifications attached.

Pre-bid meeting:	No pre-bid meeting. For more information please call: Michael Elliott, Director of Facilities 620-842-2874.
Required information:	Payment bond (public works bond) if project exceeds \$100,000.00 Specify lead time Preferred delivery date will be no later than October 1, 2026
Mail or Hand Deliver Bids to:	USD 348, Director of Financial Operations- CTE Welders PO Box 67, 715 Chapel Street, Baldwin City, KS 66006 Emailed bids will not be accepted.
Bid Deadline/Opening:	Monday, August 10, 2026-10:00 am USD 348 District Office 715 Chapel Street Baldwin City Ks 66006
Payment Terms:	Payment will be made upon satisfactory completion of the project. Invoices are paid once a month after board approval. Submit invoice to: Accounts Payable PO Box 67 Baldwin City KS 66006.
Contacts:	Michael Elliott, Director of Facilities Office-785-594-2721 Cell-620-842-2874 melliott@usd348.com Nathian Oehlert, Director of Finance Office 785-594-2721 x104 noehlert@usd348.com



P.O. Box 67 | 715 Chapel Street | Baldwin City | Kansas | 66006

Mark Dodge, Superintendent
Michelle Patterson, Board Clerk • Payroll Specialist
Nathian Oehlert, Director of Financial Operations • Board Treasurer

Phone: (785) 594-2721 Fax: (785) 594-3408
<http://www.usd348.com>

Bids must be sealed, marked and addressed to the Director of Finance, USD 348. **CTE Welders** must also be marked on the packaging for identification. Failure to do so may result in premature opening of or failure to open such bids. No bids will be received after the date and hour specified in the Invitation for Bids. Bids submitted prior to the time of bid opening may be withdrawn by written requests. Bids which are withdrawn, may be changed and resubmitted, provided they are received prior to the time set for opening of the bids.

All bids will be publicly opened at the time set for opening specified in the Notice. Each bid shall be subject to acceptance or rejection by the board within thirty (30) days following the bid opening. The Board retains the right to refuse any or all bids.

Teaching and Learning for Excellence

CTE Welding Supplies Specifications

USD 348 is seeking bids for the following shop equipment for a new CTE addition to be finished in the fall of 2026. The equipment is listed below and all bids should include the Miller Educational Discount. Delivery for the equipment should be **No Later than October 1, 2026**.

- | | |
|---|-------------|
| 1. 907579 Spectrum 625 X-Treme w/12' cable | Quantity 1 |
| 2. 951846 Multimatic 235 w/Running Gear pkg | Quantity 4 |
| 3. 907709 Maxstar 161S 120-240 pkg without case | Quantity 3 |
| 4. 287803 Classic Series Helmet-Black (VS) | Quantity 15 |

Bids must be sealed, marked **CTE Welders** and addressed as follows:

USD 348-Director of Financial Operations
PO Box 67
715 Chapel St
Baldwin City Ks 66006

Failure to do so may result in premature opening of or failure to open such bids. No bids will be accepted after the date and hour specified in the Invitation for Bids. Bids submitted prior to the time of bid opening may be withdrawn by written requests. Bids which are withdrawn, may be changed and resubmitted, provided they are received prior to the time set for opening of the bids. All bids will be publicly opened at the time set specified in the Notice. Each bid shall be subject to acceptance or rejection by the board within thirty (30) days following the bid opening. The Board retains the right to refuse any or all bids.

Please include lead time and possible delivery date below along with your bid.

Base Bid: Welders, Plasma Cutter and Helmets_____

Lead time and or possible delivery date_____

Compliance With Fair Labor Standards: The undersigned attests that the bidder is complying with and will continue to comply with fair labor standards in the pursuit of their business and in the execution of the contract which is being bid.

Disqualification of Contractors: The undersigned certifies that this person/firm/corporation is not currently barred from bidding on contracts by any Agency of the State of Kansas by signing this contract. Owner, USD 348 Board of Education has full discretion to review, negotiate, accept, disqualify, or decline any and all bids.

Bidder:_____
Name of Firm

By: _____
Signature _____
Date

Spectrum® 625 X-TREME™

**Air Plasma Cutting
and Gouging**



Quick Specs

Industrial Applications

Maintenance
Light construction
Prototyping
Body shops
Fabrication

Process

Air plasma cutting and gouging

Rated Output

40 A at 140 VDC, 60% duty cycle
27 A at 91 VDC, 35% duty cycle

Cutting Capability

Rated: 5/8 in. (16 mm)

Net Weight

With 12 ft. hand-held torch: 21 lb. (9.5 kg)
With 20 ft. hand-held torch: 23 lb. (10.4 kg)

Required Input Pressure/Flow

6.0 scfm (170 L/min.)
at 90 psi minimum
(621 kPa), 120 psi
maximum (828 kPa)

X-TREME versatility — Auto-Line™ circuitry automatically connects to 120–240 V, single-phase power, 60 Hz, without making internal changes. (Output amperage is automatically reduced to 27 A for 120 V input.)

X-TREME protection — X-CASE™ provides ultimate protection and additional space for MVP adapters, consumable box, gloves, and eye protection, etc.

X-TREME portability — at just 21 pounds the shoulder strap allows the end user to easily move from location to location.

Auto postflow calculates the optimum length of postflow time to optimize consumable life and eliminate excessive air usage.

Heavy-duty work clamp with flexible cable and quick connect.

LVC™ line voltage compensation provides peak performance power under variable conditions (power fluctuations up to ±15 percent) for steady cuts and cleaner ending cuts.

Auto-Refire™ technology provides ultimate customer convenience by automatically controlling the pilot arc when cutting expanded metal or multiple pieces of metal. The pilot arc will switch in and out as fast as needed when cutting expanded metal and provides maximum power for cutting thicker metal — all automatically! No need for manual re-triggering which reduces user hand fatigue.



Comes complete with:

- XT40 hand-held torch with 12 ft. (3.7 m) or 20 ft. (6.1 m) cable — torch includes a complete set of 40 A consumables
- Heavy-duty work clamp with flexible cable and quick connect
- 12 ft. (3.7 m) power cord with 240 V L6-30P twist lock plug for MVP™ adapters
- MVP™ adapters with 240 V, 50A (6-50P) plug and 120 V, 15 A (5-15P) plug
- X-CASE™ provides protection during transport and storage
- Shoulder strap
- Consumables box with 2 electrodes, 2 tips (40 A), one tip (30 A), drag shield (30 A), deflector and air fitting

MVP™ adapters allow connection to 120 or 240 V receptacles without tools — choose the adapter cord with the right plug that fits the receptacle and connect it to the power cord with the L6-30R twist lock.

LED indicators for power, pressure, cup and temperature allow faster troubleshooting, eliminating unnecessary downtime.



Ultra-Quick Connect™ XT40 torch with an ergonomic handle to help prevent operator fatigue and a flexible cable that makes maneuvering easier (see page 4 for more detail).

Compatible with engine-driven welders. Complete cutting capability when powered by an engine-driven welder/generator with a 240 V receptacle of 4 kW or more.

Automatic air regulation compensates for input pressure variation to provide constant recommended torch pressure for optimum cutting performance.

Automatic gouging consumable detection adjusts gas pressure to optimize performance, eliminating the need for a manual regulator.



Power source is warranted for three years, parts and labor.
XT torch is warranted for one year, parts only.



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



Specifications (Subject to change without notice.)



Input Power	Rated Output	Amps Input at Rated Output, 60 Hz, 1-Phase	KVA	KW	Plasma Gas	Dimensions	Net Weight with Torch*
240 V	40 A at 140 VDC, 60% duty cycle	27.6	6.6	6.5	Air or nitrogen only	H: 9 in. (229 mm) W: 5.5 in. (140 mm) D: 13.25 in. (337 mm)	12 ft. (3.7 m): 21 lb. (9.5 kg) 20 ft. (6.1 m): 23 lb. (10.5 kg)
120 V (20 A)	27 A at 91 VDC, 35% duty cycle	25.0	3.0	3.0			
120 V (15 A)	20 A at 88 VDC, 60% duty cycle	17.7	2.1	2.1			

*Add 18 lb. (8.2 kg) for shipping weight.



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

Mild Steel Cutting Capability (Thickness to scale.)

Cutting at 40 Amps (240 V)



1/4 in. (6.4 mm) at 64 ipm



5/8 in. (15.9 mm) at 13 ipm

Note: Recommended maximum piercing capacity for hand-held applications is 5/16 inch (7.9 mm).

Maximum sever cut of 7/8 inch (22.2 mm) at approximately 5 ipm.

For aluminum and other metals with high thermal conductivity, cutting capacities may be reduced as much as 30%.

Mild Steel Recommended Cut Speeds at 40 Amps

Thickness	Approximate Travel Speeds*
1/8 in. (3.2 mm)	156 ipm (3,963 mm/min.)
1/4 in. (6.4 mm)	64 ipm (1,626 mm/min.)
3/8 in. (9.5 mm)	36 ipm (915 mm/min.)
1/2 in. (12.7 mm)	22 ipm (559 mm/min.)
5/8 in. (15.9 mm)	13 ipm (330 mm/min.)

*Travel speeds are approximately 80% of maximum.

Cutting at 27 Amps (120 V)

Output amperage is automatically reduced to 27 A for 120 V input.



1/8 in. (3.2 mm) at 88 ipm



3/8 in. (9.5 mm) at 15 ipm

Note: Recommended maximum piercing capacity for hand-held applications is 1/8 inch (3.2 mm).

For aluminum and other metals with high thermal conductivity, cutting capabilities will be derated as much as 30%.

Mild Steel Recommended Cut Speeds at 27 Amps

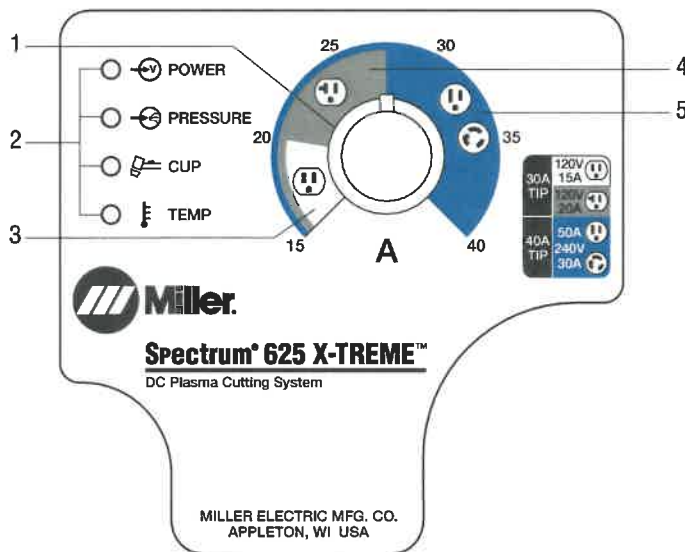
Thickness	Approximate Travel Speeds*
12 ga. (2.8 mm)	115 ipm (2,921 mm/min.)
1/8 in. (3.2 mm)	88 ipm (2,235 mm/min.)
3/16 in. (4.8 mm)	50 ipm (1,280 mm/min.)
1/4 in. (6.4 mm)	28 ipm (711 mm/min.)
3/8 in. (9.5 mm)	15 ipm (386 mm/min.)
1/2 in. (12.7 mm)	8 ipm (203 mm/min.)
5/8 in. (15.9 mm)	5 ipm (126 mm/min.)

*Travel speeds are approximately 80% of maximum.

Rated cut capacity is based on traveling approximately 15 inches per minute to achieve a steady, precise cut.

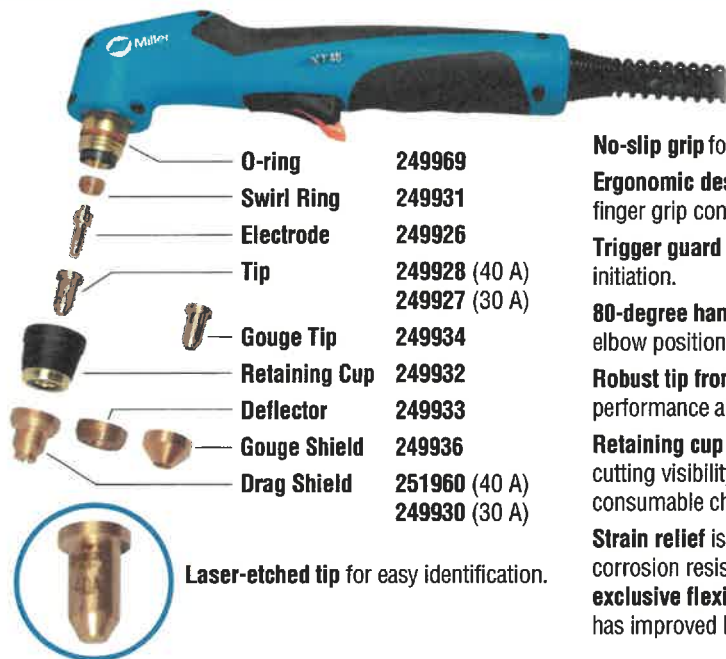
This is the key rating that should meet or exceed your typical cutting thickness requirements.

Control Panel



1. Output Control
2. Status and Troubleshooting Lights
3. Range for 30 A Tip, 120 V/15 A, 5-15P MVP™ Adapter
4. Range for 30 A Tip, 120 V/20 A, 5-20P MVP™ Adapter
5. Range for 40 A Tip, 240 V/30 A/50 A, 6-50P MVP™ Adapter

XT40 Replacement Torches and Consumables



XT40 Hand-Held Torch

260633 12 ft. (3.7 m)

260635 20 ft. (6.1 m)

No-slip grip for easy control and torch dexterity.

Ergonomic design with unique thumb guide and finger grip contours.

Trigger guard protects against inadvertent arc initiation.

80-degree handle provides natural arm and elbow positioning while cutting.

Robust tip front end design optimizes arc performance and tip life.

Retaining cup design provides increased cutting visibility and quick turn for easy consumable change.

Strain relief is durable and corrosion resistant, and **exclusive flexible cable** has improved bend radius.

Laser-etched tip for easy identification.

Note: The XT40 can be configured for cutting at either 30 A or 40 A by installing the appropriate cutting tip and drag shield. Replacing drag shield with deflector offers improved arc visibility while maintaining 1/16-inch standoff. For gouging, replace the tip and drag shield with gouge tip and gouge shield. The rest of the XT40 consumables are common.

Ordering Information

Power Source	Stock No.	Description	Qty.	Price
Spectrum® 625 X-TREME™ with X-CASE™ 120–240 V, 60 Hz, 1-Phase	907579 907579001	With 12 ft. (3.7 m) XT40 hand-held torch and X-CASE With 20 ft. (6.1 m) XT40 hand-held torch and X-CASE		
Replacement Torches and Consumables				
XT40 Hand-Held Torch	260633 260635	12 ft. (3.7 m) 20 ft. (6.1 m)		
Consumables		See above		
Accessories				
X-CASE™ (only)	300184	Carrying case for Spectrum 625 X-TREME		
Full KVA Adapter Cord	300517	Adapts engine drive 120/240 V plug to Spectrum 240 V plug		
XT40 Consumable Kit	253521	See page 3 for contents		
Plasma Standoff Roller Guide	253054			
Plasma Circle-Cutting Guide	253055			
Suction/Magnetic Pivot Base	195979			
In-Line Air Filter Kit	228926			
In-Line Air Filter Replacement Element	228928			
Torch Cable Covers	239642 231867	20 ft. (6.1 m) 25 ft. (7.6 m)		
Flexible Work Cable w/Heavy-Duty Clamp	263799 263800	12 ft. (3.7 m) cable with quick connect 20 ft. (6.1 m) cable with quick connect		
Safety Glasses		See page 3		
MVP™ Adapters		See page 3		

Date:

Total Quoted Price:

Distributed by:



Genuine Miller® Accessories



X-CASE™ 300184

Sturdy case provides ultimate protection for transport and storage. Also features convenient top carrying handle and side recessed hand grips. Store the Spectrum 625 X-TREME, accessories and gear in this generous case to be ready to go at any time. Dimensions (H x W x D): 13 x 10.5 x 30.625 in. (330 x 267 x 778 mm).



Female Receptacle

Full KVA Adapter Cord 300517 Field
NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240 V plug to Spectrum® 240 V plug.



XT40 Consumable Kit 253521

Consumable kit includes 5 electrodes, 5 tips (40 A), 3 tips (30 A), 1 drag shield (40 A), 2 drag shields (30 A),

1 deflector, 1 o-ring, 1 swirl ring, 1 retaining cup, 1 gouge tip (40 A), 1 gouge shield and silicone grease.



Plasma Standoff Roller Guide 253054

Helps maintain recommended standoff distance to maximize cutting performance and improve tip life.



Plasma Circle-Cutting Guide 253055

Cut straight lines or circles up to 12-inch diameter with ease.



Suction/Magnetic Pivot Base 195979

Add this to your cutting guide for convenient attachment to all flat surfaces. The extended arm accommodates holes up to 30-inch diameter.



In-Line Air Filter Kit 228926

Mounts to the back of the Spectrum 625 X-TREME. Includes male and female 1/4-inch NPT quick disconnect fittings and hose for easy on/off connection. The replaceable filter element filters

to .85 microns for removal of 99.9 percent of water, dirt and oil.

In-Line Air Filter Replacement Element 228928

For in-line filter 228926.



Torch Cable Covers

239642 20 ft. (6.1 m)

231867 25 ft. (7.6 m)



Flexible Work Cable

263799 12 ft. (3.7 m)

263800 20 ft. (6.1 m)

Work cable with quick connect and heavy-duty clamp.

Safety Glasses (shade 5 lenses, recommended)



235658 Black frame

235657 Blue frame

235659 Orange frame



272205 Slag™ black frame

272209 Slag™ white frame

Form-fitting orbital eye coverage with increased comfort and style. Meets ANSI Z87.1 standards.

MVP™ Adapters



Female Receptacle

254328 For connection to 6-50P receptacle (240 V/50 A). Included with machine.



254330 For connection to 5-15P receptacle (120 V/15 A). Included with machine.



254331 For connection to 5-20P receptacle (120 V/20 A). Optional.

Multimatic® 235

MIG/Multiprocess Power Source,
Wire Feeder and Gun Package



QUICK SPECS

Industrial Applications

Manufacturing and fabrication
Plant maintenance shops
Construction fabrication
Education

Processes

MIG (GMAW)
Flux-cored (FCAW)
DC stick (SMAW)
DC Lift-Arc™ TIG (GTAW)
Pulsed TIG (GTAW-P)

Input Power 240 V, single-phase

Rated Output **MIG:** 170 A at 22.5 V, 60% duty cycle
Stick: 150 A at 26 V, 60% duty cycle
TIG: 180 A at 17.2 V, 60% duty cycle

Amperage Range 20–235 A

Net Weight **Machine only:** 63 lb. (29 kg)
Machine with running gear: 127 lb. (58 kg)

Easy to Use. Versatility. Portability.

Built for professionals in the manufacturing/fabrication, MRO and construction fabrication segments, the Multimatic 235 allows welders of all skill levels to be more efficient for all their MIG, flux-cored, stick and DC TIG welding needs. Setup is quick and easy, letting operators have faster uptime and weld with confidence.

Machine only



Machine with
running gear



Quick and easy setup



Multiple processes
with only one machine



Easier to get to the work



Welder is warranted for three years, parts and labor.
Gun warranted for 90 days, parts only.



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
International Phone: 920-735-4554

MillerWelds.com



Multimatic® 235 Features and Benefits

All in One



Multiprocess capabilities include MIG, flux cored, DC stick, DC Lift-Arc™ TIG and pulsed TIG welding.

MIG: 24 ga.–3/8 in. steel
18 ga.–3/8 in. aluminum
DC stick: 16 ga.–3/8 in. steel
DC Lift-Arc™ TIG: 24 ga.–1/4 in. steel

Easy to Use



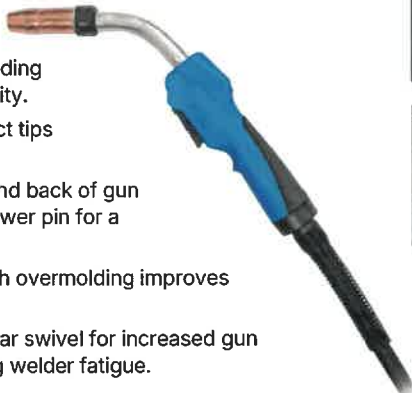
Auto-Set™ offers predefined weld settings to increase ease of use and ensure that the job is done right for operators of all skill levels.

- Available for MIG, stick and DC TIG processes with the ability to fine-tune your settings.
- Set weld parameters by selecting:
 - MIG (shown) — wire and gas type, wire diameter and material thickness
 - Stick — electrode type, electrode diameter and material thickness
 - DC Lift-Arc™ TIG — remote on/off, tungsten diameter and material thickness



MDX™-250 MIG gun with MDX™ MIG gun consumables features a dual-locked, front-loading liner that optimizes wire feedability.

- Coarse threads on MDX contact tips speed up tip replacement.
- Front load liner locks at front and back of gun to align with contact tip and power pin for a flawless wire feed path.
- Durable, ergonomic handle with overmolding improves grip and comfort.
- Ball-and-socket handle with rear swivel for increased gun maneuverability while reducing welder fatigue.



Large wire drive compartment to house 12-inch wire spool to increase productivity by reducing frequency of changing smaller wire spools.



Angled heavy-duty aluminum two-drive-roll system significantly improves wire feeding through a 15-foot gun from a 12-inch spool of wire.



Two shielding gas connections (one for MIG and one for TIG) so both gases can be left connected to the machine — no switching needed.



4.3-inch color LCD display with easy-to-understand interface and intuitive connection setup images.

Multimatic® 235 Features and Benefits

Versatility



Auto-Gun Detect™ automatically adjusts voltage, wire speed and timers for faster switching between MIG and spool guns.



Optional wireless foot control shown.

14-pin controlled operator alternatives. Using the 10-pin connector on your Multimatic 235 in conjunction with the 10-pin to 14-pin adapter cord lets you choose your control for a customized experience, whether it's a foot control, fingertip control or wireless foot control.

Note: Multimatic 235 is not compatible with wireless hand control.



Wide range of TIG adjustability.

- DC pulse — adjustable from Off–150 pulses per second (PPS)
- TIG postflow — adjustable from Auto–25 seconds (accessible through service menu screen 13)
- DC Lift-Arc™
- Tungsten size selection



Generator compatible. The Multimatic 235 will be able to operate and provide full output when powered by generators with 10,000-watt (10 kW) output or higher, such as a Miller Bobcat™ or Trailblazer® series generator. Limited output will occur when used with smaller generators.

Portability



Weighing only 63 pounds, the Multimatic 235 can go where the work is, plus the added convenience of one machine versus two or more.

Optional EZ-Latch™ running gear

EZ-Latch running gears are available in single cylinder and dual cylinder models (included with package or can be ordered separately). Operators no longer need to lift machine AND running gear into the truck. Latches secure machine to running gear. Simply loosen the latch retaining knob and rotate latches to disengage machine from running gear for easy portability. Cylinder racks feature bottle forward technology for increased stability when moving along an incline and running gears have built-in storage for accessories. Dual cylinder model includes an elevated gun and cable rack to keep cables off the floor and tangle free.



Storage solution



Single cylinder running gear



Latches shown in open position without machine and in closed position securing the machine



Bottle forward technology



Dual cylinder model includes elevated gun and cable rack

Dual cylinder running gear

Specifications (Subject to change without notice.)

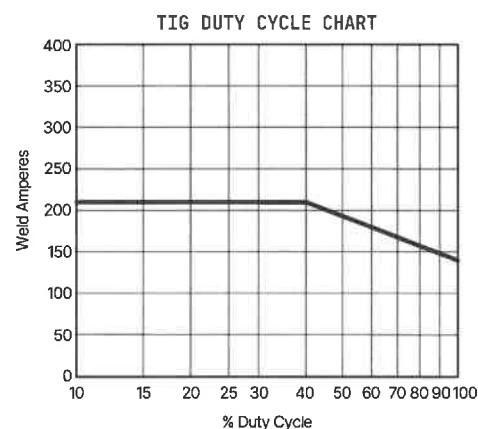
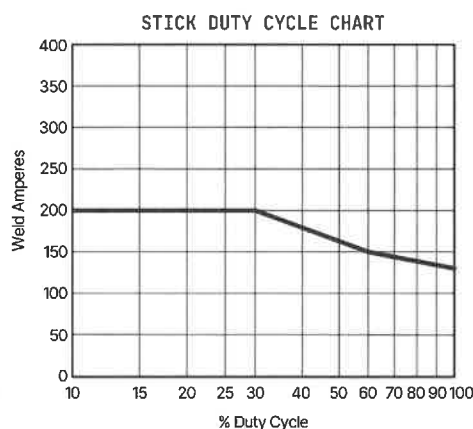
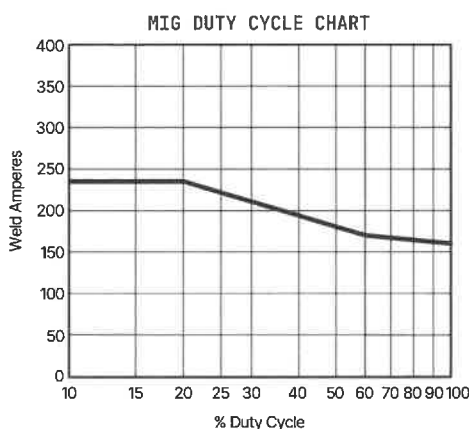


WELDING MODE/PROCESS	WELDING AMPERAGE RANGE	RATED OUTPUT	AMPS INPUT AT RATED OUTPUT, 50/60 HZ 240 V KVA KW			WIRE FEED SPEED	MAX. OPEN-CIRCUIT VOLTAGE	DIMENSIONS	NET WEIGHT
CV: MIG/flux-cored	30–235 A	170 A at 22.5 V, 60% duty cycle	20.0	5.0	4.9	60–600 ipm (1.5–15.2 m/min.)	54 VDC	Machine only: H: 19.25 in. (489 mm) W: 13.75 in. (349 mm) D: 24.25 in. (616 mm) Machine with running gear: H: 32 in. (813 mm) W: 13.75 in. (349 mm) D: 45 in. (1,143 mm)	Machine only: 63 lb. (29 kg) Machine with running gear: 127 lb. (58 kg)
CC: Stick*	30–200 A	150 A at 26 V, 60% duty cycle	20.2	5.0	4.8	—			
CC: DC TIG	20–210 A	180 A at 17.2 V, 60% duty cycle	17.0	4.2	4.1	—			

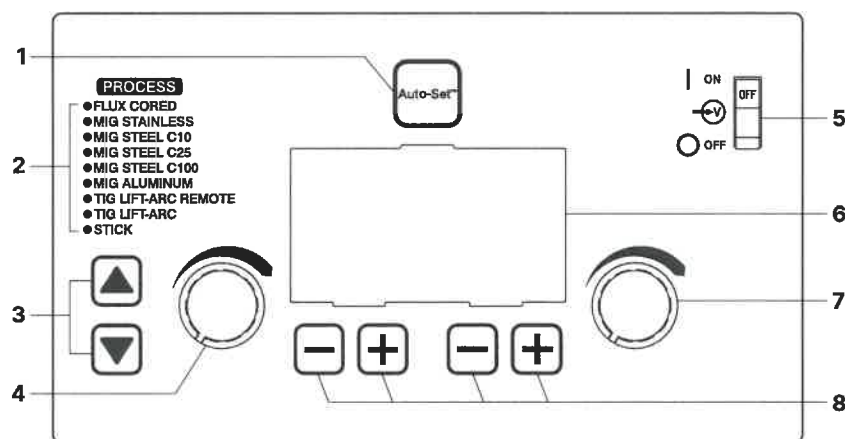
*Not recommended for 6010 electrodes.

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

Performance Data



Control Panel



1. Auto-Set™ Button
2. Process Indicator Lights
3. Process Selection Button
4. Left Adjustment Knob
(adjusts voltage, pulse frequency or parameter values depending on mode)
5. Power On/Off Switch
6. Color LCD Display
7. Right Adjustment Knob
(adjusts wire feed speed, amperage or parameter values depending on mode)
8. Soft Keys

Multimatic® 235 Packages



907780

Machine only comes complete with:

- Power source with 7 ft. (2.1 m) industrial power cord
- 15 ft. (4.6 m) 250-amp MDX™-250 MIG gun with MDX™ standard duty consumables for .030/.035 in. (0.8/0.9 mm) wire
- 10 ft. (3 m) cable with electrode holder and 50 mm Dinse-style connector
- 10 ft. (3 m) work cable with clamp and 50 mm Dinse-style connector
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
- .030/.035 in. (0.8/0.9 mm) reversible drive rolls
- Extra contact tips
- Material thickness gauge



951846

Machine with running gear package comes complete with

- Power source with 7 ft. (2.1 m) industrial power cord
- 15 ft. (4.6 m) 250-amp MDX™-250 MIG gun with MDX™ standard duty consumables for .030/.035 in. (0.8/0.9 mm) wire
- 10 ft. (3 m) cable with electrode holder and 50 mm Dinse-style connector
- 10 ft. (3 m) work cable with clamp and 50 mm Dinse-style connector
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
- .030/.035 in. (0.8/0.9 mm) reversible drive rolls
- Extra contact tips
- Material thickness gauge
- EZ-Latch™ single cylinder running gear
- Chain to secure gas cylinder



951847

Machine with dual cylinder/TIG kit package comes complete with

- Power source with 7 ft. (2.1 m) industrial power cord
- 15 ft. (4.6 m) 250-amp MDX™-250 MIG gun with MDX™ standard duty consumables for .030/.035 in. (0.8/0.9 mm) wire
- 10 ft. (3 m) cable with electrode holder and 50 mm Dinse-style connector
- 10 ft. (3 m) work cable with clamp and 50 mm Dinse-style connector
- Flow gauge regulator and gas hose for argon or AR/CO₂ mix
- .030/.035 in. (0.8/0.9 mm) reversible drive rolls
- Extra contact tips
- Material thickness gauge
- EZ-Latch™ dual cylinder running gear with elevated gun and cable rack
- Two chains to secure gas cylinders
- Multimatic 235/255 TIG kit

Genuine Miller® Accessories



EZ-Latch™ Single Cylinder Running Gear 301449
Running gear with a single cylinder rack and storage compartment. Latches secure machine to cart.

Simply rotate latches to disengage machine from cart for easy portability.

EZ-Latch™ Dual Cylinder Running Gear 951769

Similar to above, but with dual cylinder rack which allows operator to easily store two gas cylinders. Includes elevated gun and cable rack (shown at right) to keep cables off the floor and tangle free.



EZ-Latch™ Dual Cylinder Rack with Elevated Gun and Cable Rack 301481
Converts an EZ-Latch single cylinder running gear into a dual cylinder rack to easily store two gas cylinders. Gun and cable rack keeps cables off the floor and tangle free. (Included with EZ-Latch dual cylinder running gear.)



Protective Cover 301521
Features side pocket.

Argon/Mixed Gas Regulator and Gas Hose 195050

MIG Guns

MDX™-250 MIG Gun with MDX™ Standard Duty Consumables

1770035 10 ft. (3 m)

1770037 15 ft. (4.6 m)

Industrial 250-amp MIG gun with consumables for .030/.035 in. (0.8/0.9 mm) wire.

MDX™-250 MIG Gun with MDX™ Heavy Duty Consumables

1770043 15 ft. (4.6 m)

Industrial 250-amp MIG gun with consumables for .035/.045 in. (0.9/1.2 mm) wire.



Spoolmatic® Spool Guns 195156
15 ft. (4.6 m)
130831
30 ft. (9.1 m)

Ideal for aluminum welding jobs. Air-cooled, one-pound spool gun with 15-foot (4.6 m) or 30-foot (9.1 m) cable assembly. Rated at 200 amps at 100 percent duty cycle. For detailed information, see Spoolmatic literature M/1.73.



Spoolmate™ 200 Spool Gun 300497
Reliable and economical spool gun perfect for hobbyists and

light fabricators who weld aluminum. Handles .030-.035 inch (0.8-0.9 mm) aluminum wires and .023-.035 inch (0.6-0.9 mm) steel/stainless steel wires. Rated at 160 amps, 60 percent duty cycle with 20-foot cable assembly. For detailed information, see Spoolmate literature M/1.47.

Optional Spoolmate™ 200 Head Tubes

300591 45-degree head tube

300592 9-inch extension head tube

243385 5-inch head tube



Spoolmate™ 150 Spool Gun 301272
Direct-connect spool gun handles .030-.035 inch (0.8-0.9 mm) 4000/5000 series

aluminum and .023-.035 inch (0.6-0.9 mm) steel/stainless steel wires. Rated at 150 amps, 60 percent duty cycle. Includes 20-foot (6.1 m) cable assembly.



Spoolmate™ 100 Spool Gun 300371
Direct-connect spool gun handles .030-.035 inch (0.8-0.9 mm) aluminum (4043

only) and .023-.035 inch (0.6-0.9 mm) steel/stainless steel wires. Rated at 135 amps, 30 percent duty cycle. Includes 12-foot (3.7 m) cable assembly and custom carrying case.

TIG Accessories



Multimatic® 235/255 TIG Kit 301518

Kits comes complete with everything needed to TIG weld with the Multimatic 235. Includes 25-foot (7.6 m) Weldcraft™ A-150 TIG torch, RFCS-14 HD foot control, 10-pin to 14-pin adapter cord, flow gauge regulator with 5-foot (1.5 m) gas hose, and AK3C torch accessory kit.



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.

Note: Multimatic 235 is not compatible with wireless hand control.



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.



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 with 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 with 14-pin plug.



10-Pin to 14-Pin Adapter Cord 301545

Allows standard 14-pin TIG remote controls to be used with the Multimatic 235.

TIG Torch Connector 195378

50 mm Dinse-style for one-piece air-cooled TIG torch.

Gas Hose 269816

5-foot (1.5 m) reinforced PVC gas hose with fittings.

Consumables

For MDX™-250 MIG Guns

MDX™ Standard Duty Consumables

Smaller consumables and components to access hard-to-reach weldments.

Contact Tips (10 per package)

T-M023 .023 in. (0.6 mm)
T-M030 .030 in. (0.8 mm)
T-M035 .035 in. (0.9 mm)
T-M045 .045 in. (1.2 mm)
T-M047 3/64 in. (1.2 mm)

Nozzles

N-M1200C Copper, 1/2 in. ID, flush, standard
N-M1218C Copper, 1/2 in. ID, 1/8 in. recess
N-M5800C Copper, 5/8 in. ID, flush
N-M5818C Copper, 5/8 in. ID, 1/8 in. recess
N-M58XTC Copper, 5/8 in. ID, 1/8 in. stickout

Diffuser D-M250

Monocoil Replacement Liners

10 ft. Liner

LM1A-10 .023/.025 in. (0.6 mm)
LMD2A-10 .030/.035 in. (0.8/0.9 mm)
LMD3A-10 .035/.045 in. (0.9/1.2 mm)

15 ft. Liner

LM1A-15 .023/.025 in. (0.6 mm)
LMD2A-15 .030/.035 in. (0.8/0.9 mm)
LMD3A-15 .035/.045 in. (0.9/1.2 mm)

MDX™ Heavy Duty Consumables

Consumables for increased durability and longer life when guns are used in industrial applications.

Contact Tips (10 per package)

T-A023CHM .023 in. (0.6 mm)
T-A030CHM .030 in. (0.8 mm)
T-A035CHM .035 in. (0.9 mm)
T-A039CHM .039 in. (1.0 mm)
T-A045CHM .045 in. (1.2 mm)

Nozzles

N-M5800CM Copper, 5/8 in. ID, flush, standard
N-M5818CM Copper, 5/8 in. ID, 1/8 in. recess
N-A5814CM Copper, 5/8 in. ID, 1/8 in. stickout

Diffuser D-MA250M

Note: Miller® FasTip™, M-Series and Bernard® Centerfire™ diffusers and consumables are NOT compatible with MDX Series guns.

For Spoolmatic® Spool Guns

For Aluminum Wire

Fastip™ Contact Tips (25 per package)

206186 Heavy-duty, .030 in. (0.8 mm)
206187 Heavy-duty, .035 in. (0.9 mm)
206188 Heavy-duty, .040 in. (1.0 mm)
206189 Heavy-duty, 3/64 in. (1.2 mm)
206191 Heavy-duty, 1/16 in. (1.6 mm)
209026 Tapered, .030 in. (0.8 mm)
209027 Tapered, .035 in. (0.9 mm)
209029 Tapered, 3/64 in. (1.2 mm)
209030 Tapered, 1/16 in. (1.6 mm)

Screw-On Nozzles

199610 Brass, 1/2 in. orifice, tapered
199613 Brass, 5/8 in. orifice, tapered
199614 Brass, 5/8 in. orifice, tapered HD
199611 Brass, 3/4 in. orifice, straight
199612 Brass, 3/4 in. orifice, straight HD
209035 Copper, 3/8 in. orifice, tapered
199615 Copper, 1/2 in. orifice, tapered
209036 Copper, 1/2 in. orifice, tapered HD
198855 Copper, 5/8 in. orifice, tapered
199618 Copper, 5/8 in. orifice, tapered HD
207313 Copper, 5/8 in. orifice, tapered 15/16 OD
199616 Copper, 3/4 in. orifice, straight
199617 Copper, 3/4 in. orifice, straight HD

For Spoolmate™ 200 Spool Gun

For Standard Heavy-Duty Head Tube

Contact Tips (5 per package)

199387 .030 in. (0.8 mm)
199388 .035 in. (0.9 mm)

Nozzle 050622

For Optional Head Tubes

Note: The same consumables are used on 45-degree, 5-inch, and 9-inch extension head tubes.

Contact Tips (5 per package)

199730 .024 in. (0.6 mm)
(requires V-knurled drive roll **136135**)
186419 .030 in. (0.8 mm)
186406 .035 in. (0.9 mm)

Nozzle 186405

For Spoolmate™ 150 Spool Gun

Contact Tips (5 per package)

199387 .030 in. (0.8 mm)
199388 .035 in. (0.9 mm)

Nozzle 050622

For Spoolmate™ 100 Spool Gun

Contact Tips (5 per package)

199730 .024 in. (0.6 mm)
186419 .030 in. (0.8 mm)
186406 .035 in. (0.9 mm)

Nozzle 186405

For Multimatic® 235

Note: Machine drive roll kits include two drive rolls and an inlet guide.

V-Grooved Drive Roll Kits (solid wire)

204579 .030 and .035 in. (0.8 and 0.9 mm)
combination (reversible)
087131 .024 in. (0.6 mm)
079594 .030 in. (0.8 mm)
079595 .035 in. (0.9 mm)
079596 .045 in. (1.2 mm)

V-Knurled Drive Roll Kits

(flux-cored or difficult-to-feed wire)

079606 .035 in. (0.9 mm)
079607 .045 in. (1.2 mm)
079608 .052 in. (1.3 mm)

U-Grooved Drive Roll Kits (aluminum wire)

044749 .035 in. (0.9 mm)
079599 .047 in. (1.2 mm)

Ordering Information

EQUIPMENT AND OPTIONS	STOCK NO.	DESCRIPTION	QTY.	PRICE
Multimatic® 235	907780	240 V, 50/60 Hz		
Multimatic® 235 with Running Gear	951846	Includes Multimatic® 235 (907780) and single cylinder running gear (301449)		
Multimatic® 235 with Dual Cylinder/TIG Kit	951847	Includes Multimatic® 235 (907780) and dual cylinder running gear (951769) and TIG kit (301518)		
Accessories				
EZ-Latch™ Single Cylinder Running Gear	301449	Running gear with single cylinder rack		
EZ-Latch™ Dual Cylinder Running Gear	951769	Running gear with dual cylinder rack and elevated gun and cable rack		
EZ-Latch™ Dual Cylinder Rack with Elevated Gun and Cable Rack	301481	Upgrade single cylinder rack to dual (included with EZ-Latch dual cylinder running gear)		
Protective Cover	301521	Features side pocket		
Argon/Mixed Gas Regulator and Gas Hose	195050			
MIG Guns				
MDX™-250 MIG Gun with MDX™ Standard Duty Consumables	1770035 1770037	10 ft. (3 m), 250 A, .030/.035 in. (0.8/0.9 mm) wire 15 ft. (4.6 m), 250 A, .030/.035 in. (0.8/0.9 mm) wire		
MDX™-250 MIG Gun with MDX™ Heavy Duty Consumables	1770043	15 ft. (4.6 m), 250 A, .035/.045 in. (0.9/1.2 mm) wire		
Spoolmatic® Spool Guns	195156	15 ft. (4.6 m), 200 A, .030-.047 in. (0.8-1.2 mm) for aluminum wire		
	130831	30 ft. (9 m), 200 A, .030-.047 in. (0.8-1.2 mm) for aluminum wire		
Spoolmate™ 200 Spool Gun	300497	20 ft. (6 m), 160 A, .030-.035 in. (0.8-0.9 mm) for aluminum wire, .023-.035 in. (0.6-0.9 mm) for steel/stainless steel wire		
Optional Spoolmate™ 200 Head Tubes		See page 6		
Spoolmate™ 150 Spool Gun	301272	20 ft. (6.1 m)		
Spoolmate™ 100 Spool Gun	300371	12 ft. (3.7 m). Includes custom carrying case		
TIG Accessories				
Multimatic 235/255 TIG Kit	301518	See page 6 for contents		
Wireless Remote Foot Control	301580	Foot control with wireless 90 ft. (27.4 m) operating range		
RFCS-14 HD	301589	Heavy-duty foot control (included with TIG kit and TIG package)		
RCC-14	151086	Fingertip control		
RCCS-14	043688	Fingertip control		
10-Pin to 14-Pin Adapter Cord	301545	Allows standard 14-pin TIG remote controls to be used with the Multimatic 235		
TIG Torch Connector	195378	50 mm Dinse-style for one-piece air-cooled TIG torch		
Gas Hose	269816	5 ft. (1.5 m)		
Consumables				
Contact Tips		See page 7		
Nozzles		See page 7		
Diffuser		See page 7		
Monocoil Replacement Liners		See page 7		
Drive Rolls		See page 7		

DATE:

TOTAL QUOTED PRICE:

Distributed by:



Maxstar® 161 S

**Stick Welding
Power Source** 

Quick Specs

Light Industrial Applications

Maintenance repair
Shipboard installation/repair
Farm/ranch
Hobbyist

Process

Stick (SMAW)

Input Power

120–240 V, 1-phase power

Amperage Range 120 V: 20–90 A (DC)
240 V: 20–160 A (DC)

Max. Open-Circuit Voltage 48

Net Weight 13 lb. (5.9 kg)



Allows for any input voltage hookup (120–240 V) with no manual linking, providing convenience in any job setting. Ideal solution for dirty or unreliable power.

Portable in the shop or at the jobsite — at 13 pounds, the handle/shoulder strap allows the end user to easily move from location to location.

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

Thermal overload protection helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.

Digital meter for more precise control when presetting or monitoring welding amperage.



Single amperage range allows operator to accurately set amperage on both 120- or 240-volt primary power.

Hot Start™ adaptive control provides positive arc starts without sticking.

Low OCV stick is a simple design that reduces the open-circuit voltage to 12–16 volts when the welding power source is not in use. This circuit design is now built into the Maxstar 161 S eliminating the need for add-on voltage reducers.

Power factor corrected (PFC) for optimum performance especially on 120 volts — reduces nuisance breaker tripping.

Stick-Stuck detects if the electrode is stuck to the part and turns the welding output off to safely and easily remove the electrode. Menu selectable.

Superior stick arc performance even on the difficult-to-run electrodes like E6010.

Maxstar® 161 S with X-CASE™ (907709001) comes complete with:

- Maxstar 161 S (stick only) power source
- 6.5 ft. (2 m) 120-volt and 240-volt power cords
- X-CASE™ — provides protection in transport and storage
- Stick electrode holder with 13 ft. (4 m) cable and 25 mm Dinse-style connector
- Work clamp with 10 ft. (3 m) cable and 25 mm Dinse-style connector
- Handle/shoulder strap



Power source is warranted for three years, parts and labor.
Original main power rectifiers 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



Specifications (Subject to change without notice.)

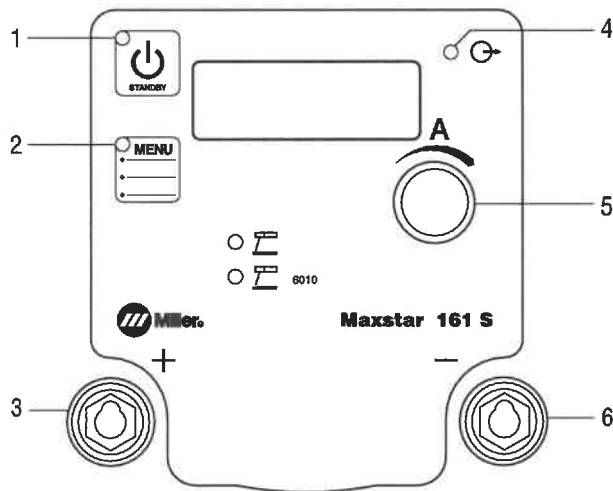


Input Power	Welding Amperage Range	Rated Output	Amps Input at Rated Output, 50/60 Hz	KVA at Duty Cycle	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
120 V, 20 A	20–90 A	60 A at 22.4 VDC, 100% duty cycle	14.68	1.75	1.71	48 VDC (12–16 VDC*)	H: 10.3 in. (262 mm) W: 5.6 in. (142 mm) D: 13.5 in. (343 mm)	13 lb. (5.9 kg)
		90 A at 23.6 VDC, 30% duty cycle	23.16	2.78	2.76			
240 V	20–160 A	110 A at 24.4 VDC, 100% duty cycle	14.31	3.43	3.30			
		160 A at 26.4 VDC, 20% duty cycle	22.55	5.41	5.25			

*Sense voltage for stick.

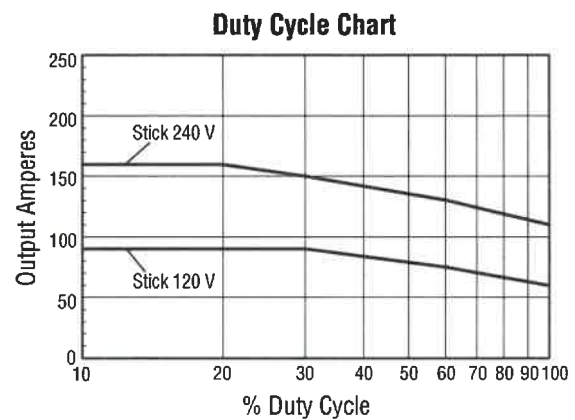
Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

Control Panel



1. Power Switch
2. Menu Button
3. Positive Weld Output Receptacle
4. Ready Light
5. Amperage Adjustment Control
6. Negative Weld Output Receptacle

Performance Data



Ordering Information

Power Source and Options	Stock No.	Description	Qty.	Price
Maxstar® 161 S (only)	907709	Includes electrode holder, work clamp, and 120-volt and 240-volt power cords		
Maxstar® 161 S with X-CASE™	907709001	Includes 907709 plus X-CASE™		
Accessories				
X-CASE™ (only)	301429	Carrying case for Maxstar 161		

Date:

Total Quoted Price:

Distributed by:



Classic Series

Auto-Darkening Welding Helmets

Welding Safety
and Health 

QUICK SPECS

Viewing Area

FS#10 Flip-Up: 5.07 sq. in. (32.71 sq. cm)
VS: 6 sq. in. (38.71 sq. cm)
VSi: 5.9 sq. in. (37.94 sq. cm)

Operating Modes and Shades

FS#10 Flip-Up: Weld (10), Grind Shield
VS: Weld (8–13), Cut (5–8), Grind (3)
VSi: Weld (8–13), Grind Shield, X-Mode™ (8–13)
(FS#10 Flip-Up and VSi have integrated grind shields)

Light State 3.0

Sensors

FS#10 Flip-Up: 2
VS: 2
VSi: 3

TIG Rating

FS#10 Flip-Up: 20 amps
VS: 5 amps and below
VSi: 5 amps and below

Switching Speed

FS#10 Flip-Up: 1/3,600 second
VS: 1/23,000 second
VSi: 1/20,000 second

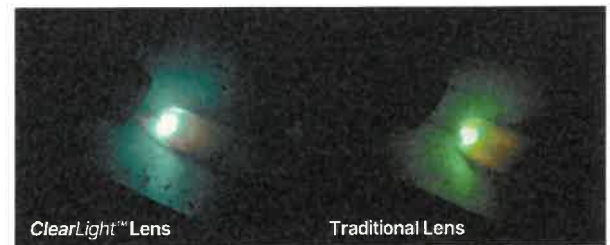
Weight

FS#10 Flip-Up: 14 oz. (396 g)
VS: 16 oz. (454 g)
VSi: 23 oz. (652 g)

Certifications ANSI Z87.1+, CSA, CE



Black (VS)
287803 shown.



ClearLight™ Lens Technology provides advanced high-definition optics for precise arc recognition.

Two independent arc sensors (three on VSi) provide dependable arc detection.

VSi™ features X-Mode which electromagnetically senses the weld to reduce sunlight interference and continuously detects the arc even if sensors are blocked.

VSi and FS#10 Flip-Up feature integrated grinding shields. Provides impact protection and a clear view for grinding.

Auto-on/off power control triggers lens at the strike of an arc.



Optional helmet lighting accessory kit includes two lights (one for each side) and all required mounting hardware.



Auto-darkening lens is warrantied for three years.



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
International Phone: 920-735-4554

MillerWelds.com



Design Options



Ordering Information

AUTO-DARKENING WELDING HELMETS	STOCK NO.	DESCRIPTION	QTY.	PRICE
Classic Series		See above		
Consumables				
Battery, CR2450	217043	For VS and VSi		
Cover Lens, Front	231411 / 231411B 235628	For VS. 5 pack or 50 pack (bulk) For VSi. 5 pack		
Cover Lens, Inside	770237 / 770237B 231410	For FS#10 Flip-Up. 5 pack or 50 pack (bulk) For VS and VSi. 5 pack		
Grinding Shield	261830 245818	For FS#10 Flip-Up For VSi		
Grinding Shield Tear-Away	254278	For VSi. 5 pack		
Replacement Parts/Accessories				
ClearLight™ Auto-Darkening Lens	287806 200541	For VS For VSi		
2x4 Auto-Darkening Lens for FS#10 Flip-Up	287830 770660 287828 287833	Shade 10 with ClearLight™ (standard) Shade 8 Shade 9 with ClearLight™ Shade 11 with ClearLight™		
Headgear	770246			
Helmet Bib	253882			
Hard Hat Adapter, Slotted	259637	Compatible with most slotted hard hats		
Hard Hat Adapter, Universal	222003	Compatible with MSA, Fibre Metal and most hard hats		
Helmet Hook	251018			
Helmet Lighting Accessory Kit	282013			
Magnifying Lens	212235 212236 212237 212238 212239 212240 212241 212242	0.75 1.00 1.25 1.50 1.75 2.00 2.25 2.50		

DATE :

TOTAL QUOTED PRICE:

Distributed by:

