Deltaweld Systems



Quick Specs

Heavy Industrial Manufacturing

General manufacturing General fabrication Structural steel fabrication Transportation Sheet metal fabrication Light-gauge tube and sheet

Processes

MIG (GMAW-P)
Flux-cored (FCAW)
Accu-Pulse® MIG (GMAW-P)
(with Intellx™ Pro feeder)
Air carbon arc (CAC-A)
Rated: 3/8-inch carbons
(500 model only)

Input Power

350: 208/230/460 V, 3-phase, 60 Hz **500:** 208/230/460 V or 575 V, 3-phase, 60 Hz

Rated Output

350: 350 A at 60% duty cycle **500:** 500 A at 100% duty cycle

Output Range

350: 20–400 A, 10–38 V **500:** 30–650 A, 10–44 V

Make Your Move

The new standard in manufacturing provides the solution for welders of all skill levels, plus pulsed MIG capabilities with Intellx Pro integrated packages.

Ready to weld

Reduce the time and hassle of setting up welding systems. Make your move to a weld-ready Deltaweld MIGRunner™:

Dedicated wire feeder options

- Intellx feeder New arc control feature means welders can produce better welds with minimal parameter adjustments.
- Intellx Pro feeder Adds Accu-Pulse®, EZ-Set, steel weld programs, and memory buttons.

Legacy meets pulse

Accu-Pulse offers a more forgiving arc and compensates for variations in operator technique, providing a wider operating window.

Easy to use

EZ-Set simplifies parameter setup based on material thickness, removing complexity.











Deltaweld 350 MIGRunner™ with Intellx™ Pro feeder shown.



Power source is warrantied for three years, parts and labor.

Original main power rectifier parts are warrantied for five years.

Gun warrantied for 90 days, parts and labor.



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Deltaweld® Systems Features



Balanced-pressure drive-roll design and tensioners feed wire in its truest and straightest form for consistent feedability, resulting in better welding performance.

Accu-Mate™ connection aligns gun perfectly in the drive-roll carrier — preventing the gun from being pulled loose and providing consistent wire feeding.

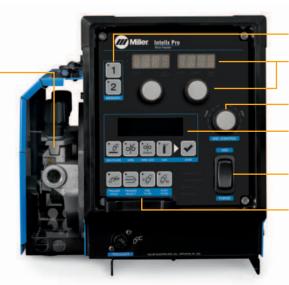
Drive rolls and guides are common with other Miller® industrial feeders (use existing, not new parts).

Inlet guide and intermediate guide installation is toolless.

Rotatable drive assembly allows operator to rotate the drive, eliminating severe bends in the wire feed path. This extends gun-liner life and aids in feeding difficult wires.



Quality-engineered cable management protects your
connections to keep you productive.



Intellx Pro single-wire feeder shown.

Memory buttons for quick program recall

Display and controls for volts/arc length, wire feed speed, and EZ-Set (if selected)

Arc control to fine tune the welding arc

LCD setup screen for easy selection of welding processes

Jog and purge button

Trigger hold, trigger select, preflow and postflow buttons



Deltaweld 500 shown.

Dedicated constant-current gouge mode (500 model only), rated for up to 3/8-inch carbons.

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

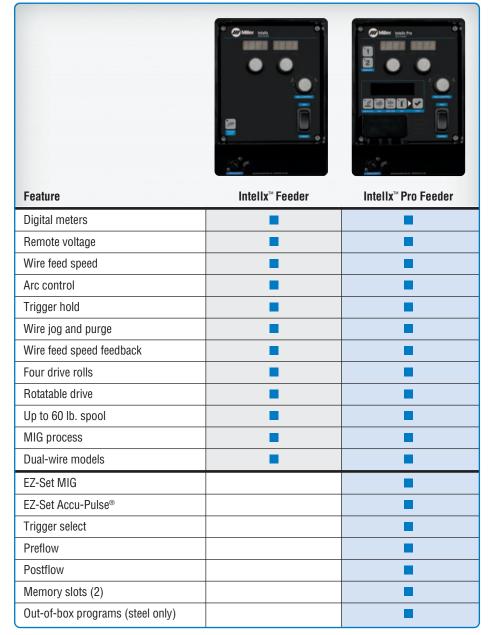
Fan-On-Demand™ operates only when needed reducing noise, power consumption, and the amount of airborne contaminants pulled through the machine.

ArcConnect™ is a next generation communication that utilizes high speed signals to improve weld performance and allow point-of-use controls to be located at the feeder.

Standard 115-volt auxiliary power provides 15 amps of circuit-breaker-protected power.



Intellx[™] **Feeder Features**



Processes available include:

- MIG
- EZ-Set MIG (Intellx Pro only)
- EZ-Set Accu-Pulse (Intellx Pro only)



Feeder programs (Intellx Pro only) available include:

- Steel
- Stainless steel
- Flux-cored
- Metal-cored
- · Different wire sizes
- · Different gas types



Single-wire feeder swivels for convenience and function, eliminating wear on gun and liner assembly. It moves with the MIG gun, allowing operator to see the front of the feeder and which parameters are selected.



Dual-wire models allow two different wire types to be available on one feeder, avoiding downtime from changing spools and drive rolls.



Deltaweld® Systems Processes

Take the performance of each process to the highest level

Accu-Pulse®

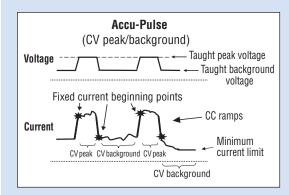
- More forgiving arc compensates for variations in operator technique
- Most adaptive arc on 16 gauge (1.6 mm) and thicker
- · Designed for all weld positions





Best For	Standard Spray	Accu-Pulse	Short Circuit
Deposition	A	A	D
Gap filling	D	В	A
Low heat input	D	В	A
Out-of-position welds		A	В
Low spatter	A	A	С
Thick metals	A	A	D
Thin metals		В	A
Increased travel speed	A	A	В
	нот 📰		COLD

Ratings A, B, C, and D are relative values. An "A" rating indicates a best fit between your performance needs and process. A "blank" rating indicates that the process is not recommended for that application.



The Accu-Pulse process allows for precise control of the pulse arc. Accu-Pulse provides optimum molten puddle control and has power to increase wire feed speeds and deposition 20 to 25 percent in many applications. In most cases, slightly different ratios of gas mixtures will perform well using a similar program and adjusting arc length or the appropriate arc control for the selected process. Contact Miller for more information on less common materials and gas combinations.



Deltaweld Specifications (Subject to change without notice.)







Model	Mode	Amp/Volt Ranges	Rated Output			Rated 460 V		60 Hz, 3-Phas KVA	e KW	Dimensions (Includes lift eye)	Net Weight
Deltaweld 350	MIG (GMAW)	10-38 V	300 A at 29 VDC, 100% duty cycle	29.3	26.5	14.6	_	11.6	10.0	H: 22.36 in. (568 mm)	115 lb. (52.2 kg)
	,		350 A at 31.5 VDC, 60% duty cycle	36.7	33.4	18.1	_	14.5	12.5	W: 15.35 in. (390 mm)	(0,
			425 A at 35.25 VDC, 30% duty cycle	50.0	45.1	23.1	_	18.5	16.9	D: 29.15 in. (740 mm)	
Deltaweld	MIG	10-44 V	500 A at 39 VDC, 100% duty cycle	64.2	58.1	30.4	24.8	24.2 (24.7*)	21.7 (21.7*)	H: 22.36 in.	145 lb.
500	(GMAW)		575 A at 42.75 VDC, 60% duty cycle	80.2	73.5	38.0	30.4	30.3 (30.2*)	27.2 (27.2*)	(568 mm)	(65.8 kg)
			650 A at 44 VDC, 25% duty cycle	94.2	84.9	43.9	34.9	35.0 (34.8*)	31.6 (31.7*)	W: 15.35 in. (390 mm)	
	Gouge	30-650 A	500 A at 40 VDC, 100% duty cycle	65.4	59.6	31.1	25.3	24.8 (25.2*)	22.2 (22.3*)	D: 31.65 in.	
	(CAC-A)		575 A at 43 VDC, 60% duty cycle	81.0	73.5	38.0	30.3	30.2 (30.1*)	27.3 (27.4*)	(804 mm)	
			650 A at 44 VDC, 25% duty cycle	94.2	84.9	43.9	34.9	35.0 (34.8*)	31.6 (31.7*)		

^{*}KVA and KW for 575-volt model.



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

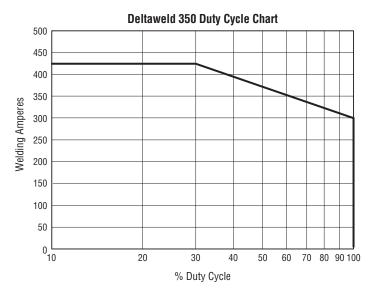
Intellx[™] Feeder Specifications (Subject to change without notice.)

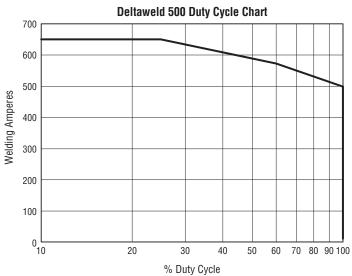


Input Power	Welding Power Source	Input Welding Circuit Rating	Wire Feed Speed	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
50 VDC	Deltaweld	600 A at 113 VDC,	50-780 ipm	.023-5/64 in.	18 in. (457 mm)	Single-wire:	Single-wire:
	350 or 500	60% duty cycle	(1.3-19.8 m/min.)	(0.6-2.0 mm)	60 lb. (27 kg)	H: 16.25 in. (413 mm)	44.8 lb.
						W: 12.38 in. (314 mm)	(20.3 kg)
						D: 27.88 in. (708 mm)	Dual-wire:
						Dual-wire:	77 lb.
						H: 14 in. (356 mm)	(34.9 kg)
						W: 18 in. (457 mm)	
						D: 34.5 in. (876 mm)	

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

Deltaweld® Performance Data







Genuine Miller® Accessories



Cart Accessory Kit 301528

Deltaweld 350/500 Running Gear 301523

Features small footprint, dualcylinder rack, chains for gas cylinders, ergo-

nomic handle design and lockable front casters with two torch holders, and storage area below.

Single-wire feeder kit for use with running gear

301523. See note below for dual-wire feeder kit.

Consists of flowmeter regulator with 5-foot (1.5 m)

gas hose, 10-foot (3 m) 4/0 feeder weld cable with

lugs, 15-foot (4.6 m) work cable with 600-amp

C-clamp, and 9-foot (2.7 m) ArcConnect control/

motor cable. Dual kit comes with an additional

Note: For dual-wire feeder kit both 301528 and

flowmeter regulator and gas hose.

301579 are required.



Stationary Handle Kit 301529

Allows easy movement and portability of the power source.



Feeder Swivel Kit 301533

For single- and dual-wire feeders. Allows feeder to mount to the top of Deltaweld. Only single-wire feeder can swivel.



Hanging Bail 058435

Used for suspending feeder over work area.



ArcConnect Control/Motor Cables

280471009 9 ft. (2.7 m)

280471015 15 ft. (4.6 m)

280471025 25 ft. (7.6 m)

280471050 50 ft. (15.2 m)

280471075 75 ft. (22.9 m)

280471100 100 ft. (30.5 m)

Connects power source directly to feeder or remote operator interface.

Note: Cables cannot be joined together to create longer lengths and extension cables are not available.



Work Sense Leads (volt sense) 300461 25 ft. (7.6 m) 300462 50 ft. (15.2 m) When connected from the back of the wire feeder to the workpiece, the work

sense lead provides accurate voltage feedback on the wire feeder display, and compensates for any voltage drop from the weld cables.

Drive Roll Kits and Guides

Select drive roll kits from chart below according to type and wire size being used. Drive roll kits include four drive rolls, necessary guides and feature an anti-wear sleeve for inlet guide.

Wire Size	"V" groove for hard wire	"U" groove for soft wire or soft-shelled cored wires	"V" knurled for hard-shelled cored wires	"U" cogged for extremely soft wire or soft- shelled cored wires (i.e., hard facing types)	
.023/.025 in. (0.6 mm)	087132	_	_	_	
.030 in. (0.8 mm)	046780	_	_	_	
.035 in. (0.9 mm)	046781	044750	046792	_	
.035 and .045 in. (0.9 and 1.2 mm)	227061*	_	_	_	
.040 in. (1.0 mm)	191917	_	_	_	
.045 in. (1.1/1.2 mm)	046782	046785	046793	083319	
.052 in. (1.3/1.4 mm)	046783	046786	046794	_	
1/16 in. (1.6 mm)	046784	046787	046795	046800	
.068/.072 in. (1.8 mm)	_	_	_	_	
5/64 in. (2.0 mm)	_	046788	046796	046801	

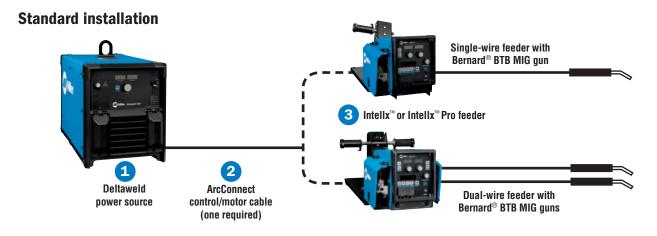
^{*}Included with Intellx feeders. Drive roll is dual-size reversible with one .035-inch and one .045-inch groove.

Wire Guides

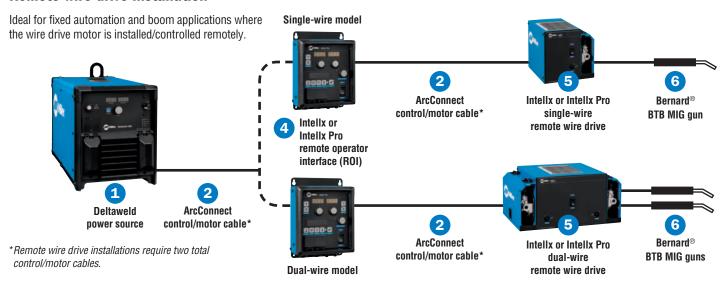
Wire Size	Inlet Guide	Intermediate Guide
.023040 in. (0.6-1.0 mm)	221030	056206
.045052 in. (1.2-1.3 mm)	221030	056207
1/16-5/64 in. (1.6-2.0 mm)	221030	056209
5/64-1/8 in. (2.0-3.2 mm)	229919	056211

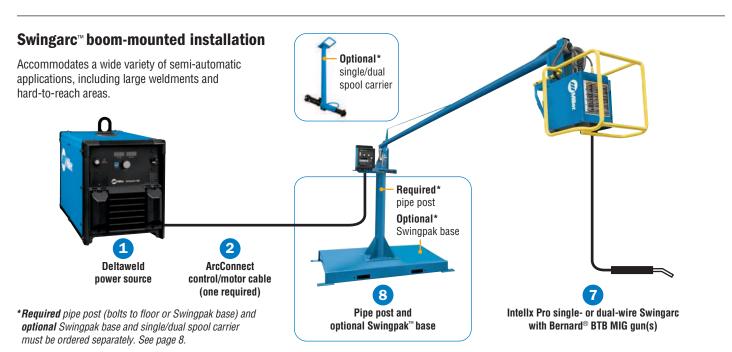


Typical Deltaweld® Systems Installations



Remote wire drive installation







Ordering Information Most popular models

Deltaweld® MIGRunner™ System	Stock No.	Description	Qty.	Price	
_ With Single-Wire Intellx™	951792	Includes Deltaweld 350 power source (907747), single- or dual-wire bench feeder with			
With Single-Wire Intellx Pro	951777 ◀	Bernard® BTB Gun 300 A (two with dual-wire feeders) and 035/.045 in. V-grooved drive			
With Dual-Wire Intellx 951817		rolls, factory-installed running gear with cable holder, gun holders, and chains for gas cylinders, cart accessory kit for single- or dual-wire feeder (see page 6), and quick-setup			
With Single-Wire Intellx Pro With Dual-Wire Intellx Pro With Dual-Wire Intellx Pro With Dual-Wire Intellx Pro					
With Single-Wire Intellx 951814		Includes Deltaweld 500 power source (907785), single- or dual-wire bench feeder with			
With Single-Wire Intellx Pro	951808 ◀	Bernard® BTB Gun 400 A (two with dual-wire feeders) and 035/.045 in. V-grooved drive			
With Dual-Wire Intellx	951819	rolls, factory-installed running gear with cable holder, gun holders, and chains for gas cylinders, cart accessory kit for single- or dual-wire feeder (see page 6), and quick-setup			
With Single-Wire Intellx Pro With Dual-Wire Intellx With Dual-Wire Intellx Pro	951820	guide and video			
With Single-Wire Intellx Pro	951824 Same as above, but with Deltaweld 500 (575 V) power source (907786)				
Configure a Custom Deltaweld Syst	em (See corresp	onding item numbers in Typical Deltaweld Systems Installations on page 7.)			
Power Source					
Deltaweld® 350	907747◀	208/230/460 V power source with ArcConnect			
<u> </u>	907747001	208/230/460 V power source with ArcConnect, meters and 14-pin receptacle			
Deltaweld® 500	907785 -	208/230/460 V power source with ArcConnect and meters			
	907785001 907786	208/230/460 V power source with ArcConnect, meters and 14-pin receptacle 575 V power source with ArcConnect and meters			
	907786001	575 V power source with ArcConnect, meters and 14-pin receptacle			
Cables and Leads					
ArcConnect		See page 6 for available lengths			
Control/Motor Cables					
Vork Sense Leads (volt sense)		See page 6 for available lengths			
eeder, ROI and Swingarc					
3 Intellx Bench-Style	951783	Single-wire feeder with Bernard BTB Gun 300 A and .035/.045 in. V-groove drive rolls			
Wire Feeders	951815	Dual-wire feeder with two Bernard BTB Gun 300 A and .035/.045 in. V-groove drive rolls			
Intellx Pro Bench-Style Wire Feeders	951784 ◀ 951816	Single-wire feeder with Bernard BTB Gun 300 A and .035/.045 in. V-groove drive rolls Dual-wire feeder with two Bernard BTB Gun 300 A and .035/.045 in. V-groove drive rolls			
1 Intellx Remote Operator	301548	Control box for single-wire drive assembly			
Interface (ROI)	301551	Control box for dual-wire drive assembly			
Intellx Pro Remote	301552 301553	Control box for single-wire drive assembly			
Operator Interface (ROI) Intellx Remote Wire Drive	301554	Control box for dual-wire drive assembly Single-wire drive assembly		-	
5 Intelix Remote wire Drive	301555	Dual-wire drive assembly			
6 Bernard BTB Gun	Q3015AE8XMC Q4015AE8EMC	300 A, 15 ft. (4.6 m) with Centerfire™ consumables 400 A, 15 ft. (4.6 m) with Centerfire™ consumables			
Intellx Pro Swingarc™	951804	12 ft. single-wire model with Bernard BTB Gun 400 A and .035/.045 in. V-groove drive rolls			
Boom-Mounted	951806	16 ft. single-wire model with Bernard BTB Gun 400 A and .035/.045 in. V-groove drive rolls			
Wire Feeders	951805	12 ft. dual-wire model with two Bernard BTB Gun 400 A and .035/.045 in. V-groove drive rolls			
8 Pipe Post	149838	4 ft. pipe post. Required for mounting Swingarc booms			
	149839	6 ft. pipe post. Required for mounting Swingarc booms		-	
Swingpak™ Base	183997	Optional mounting platform for pipe post		-	
Single/Dual Spool Carrier	300353 300352	Optional spool carrier for 4 ft. pipe post Optional spool carrier for 6 ft. pipe post			
	301470	Single boom. Retrofits Deltaweld onto 70 Series Swingarc™		1	
Boom Retrofit Kits			1		
Boom Retrofit Kits	301471	Dual boom. Retrofits Deltaweld onto 70 Series Swingarc™			

Date: **Total Quoted Price:**

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