

# PipeWorx CE Welding System

Issued Mar. 2012 • Index No. PWS/2.5

Multiprocess Pipe  
Welding Systems



## Quick Specs



### Pipe Welding Fabrication

Process Piping  
Refinery  
Petrochemical  
Power  
HVAC and Water Pipe

### Processes

Stick (SMAW)  
DC TIG (GTAW)  
MIG (GMAW)  
MIG RMD® (GMAW MSC)  
Pulsed MIG (GMAW-P)  
Flux-Cored (FCAW)

### Rated Output

400 A at 44 VDC, 100% Duty Cycle

### Output Range

Stick: 40–400 A  
DC TIG: 10–350 A  
MIG/Flux-Cored: 10–44 V, 400 A

### Weight

Power Source: 102 kg (225 lb.)  
Single Feeder: 29.5 kg (65 lb.)  
Dual Feeder: 41 kg (90 lb.)  
Cooler: 46 kg (101 lb.)

## The Power of Blue.®

### Simple Process Setup

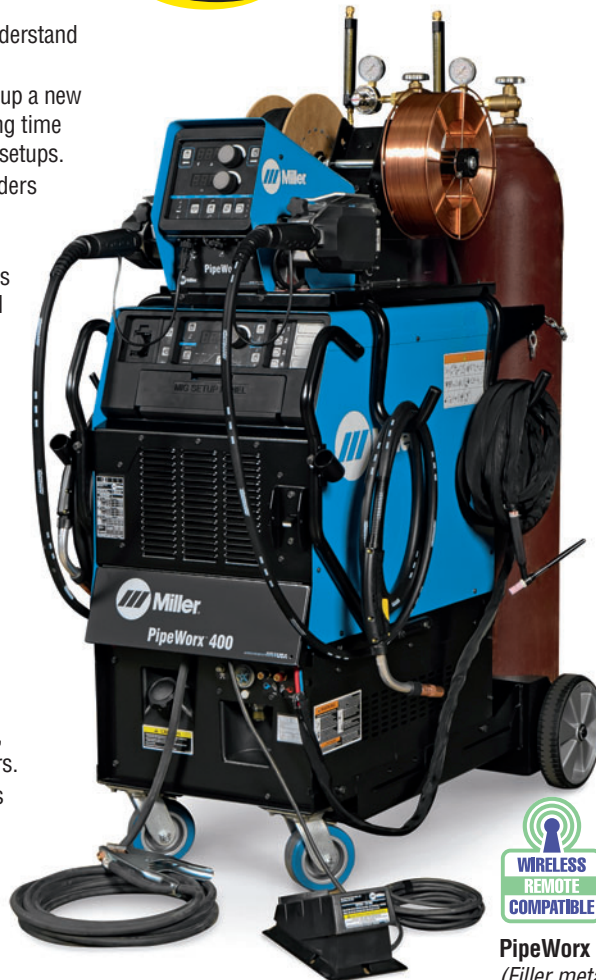
- Clearly labeled controls in easy-to-understand welder terminology.
- Requires just a few basic steps to set up a new weld process, resulting in less training time and minimizing errors from incorrect setups.
- The front panel was designed by welders for welders. Only backlit controls are adjustable to eliminate confusion.
- Memory feature stores four programs for each selection: Stick, DC TIG, and MIG (left and right side of feeder). Beneficial when using multiple procedures, multiple process parameters or multiple welders and eliminates the need to remember parameters.

### Quick Process Changeover

- No need to manually switch polarity or cables and hoses between processes. Simply push a process selection button to choose a welding process. PipeWorx 'Quick-Select' technology automatically selects the welding process, the correct polarity, cable outputs and welding parameters.
- Quick process changeover eliminates set-up time for switching cables and gas hoses. Also, reduces the risk of weld reworks due to incorrect cable connection.



Designed exclusively for  
pipe fabrication shops



**NEW! Accu-Power™ PipeWorx Memory Card** (optional) displays instantaneous power during welding to meet the new ASME requirement for calculating heat input on complex waveform processes (RMD® and Pulsed MIG). See page 4 for more information.

### Multiprocess Machine

- Weld processes are optimized to deliver superior arc performance and stability specifically for root pass, fill and cap pipe welding.
- Includes conventional Stick, DC TIG (Lift-Arc™ or HF Start), Flux-Cored and MIG welding processes.
- Also features the advanced RMD® and Pulsed MIG processes that deliver superior quality welds, increase productivity, and reduce rework and training.

### Streamlined System

- Wind Tunnel Technology™ and Fan-On-Demand™ provide system protection in the dusty shop environment.
- Innovative cable and gun storage manages clutter for a cleaner, organized weld-cell area. Cables remain connected to the power source and do not need to be switched for the different welding processes.
- All system components have been selected to meet the needs of a pipe fabrication shop.



PipeWorx CE Welding System shown.  
(Filler metal and shielding gas sold separately)



Power source is warranted for 3 years, parts and labor.



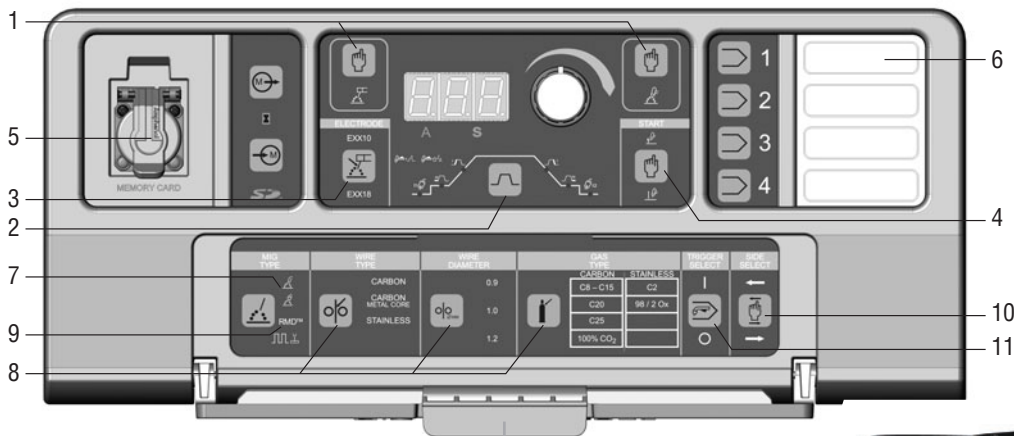
Miller Electric Mfg. Co.  
An Illinois Tool Works Company  
1635 West Spencer Street  
Appleton, WI 54914 USA

Website  
MillerWelds.com



# PipeWorx CE Welding System

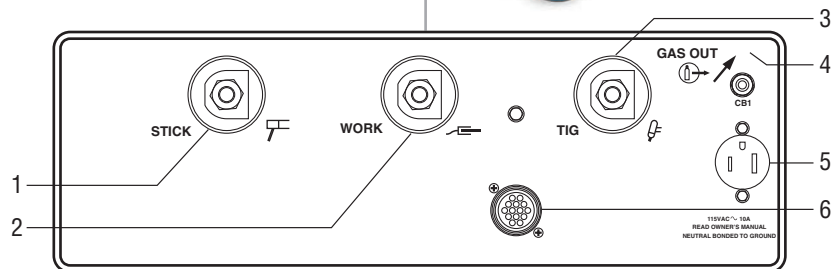
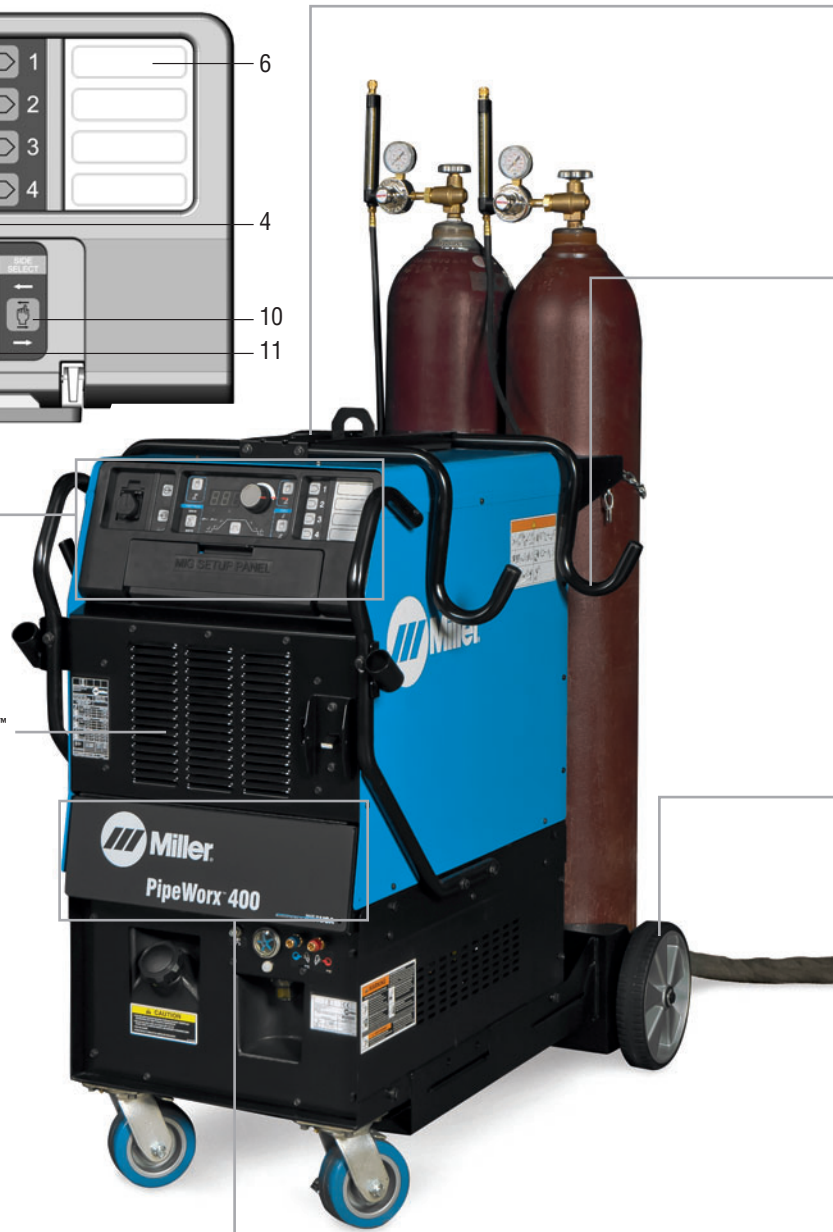
## Typical System with Remote Feeder — See page 6 for systems



### PipeWorx Power Source Control Panel with Door Open

1. **Process Selection** clearly backlights adjustable controls and lights the appropriate meter — Stick or DC TIG.
2. **TIG Sequence Control** provides adjustment for shielding gas preflow and postflow, weld current upslope and downslope, and 2T/4T operation.
3. **Optimized Stick Welding Conditions** — Automatically sets the optimum welding conditions for common E6010 Series and E7018 Low Hydrogen Series electrodes. Adaptive Hot Start™ for Stick arc starts automatically increases the output amperage at the start of a weld, and prevents the electrode from sticking.
4. **Versatile TIG Arc Starts** — Select between Lift-Arc™ or high frequency starting with the push of a button.
5. **Memory Card** provides the ability to save the process parameters of all memory locations. Each operator can have their own machine settings.
6. **Memory** stores four programs for each selection Stick, TIG, MIG (left and right). This eliminates the need to remember parameters.
7. **Flux-Cored Selection** provides the optimum weld conditions for welding pipe with gas-shielded flux-cored wires.
8. **MIG Starts and Stops** are optimized based on selection of material type, wire diameter and shielding gas type. No setting required.
9. **The MIG-Modified Short Circuit (RMD®) Programs and Pulsed MIG Programs** are synergic programs designed specifically to provide optimum pipe welding performance for combinations of wire type, wire diameter and shielding gas. See pages 4 and 5 for welding process information.
10. **Left/Right Side Feeder Select**
11. **Remote Program Select** allows the welder to select a stored program without returning to the power source.

**Wind Tunnel Technology™ and Fan-On-Demand™** provide system protection in the dusty environment of a pipe shop.



### Cable Connection Panel

Note: MIG connections are on rear panel of power source—see Owner's Manual.

1. **Dedicated Stick Connection**
2. **Dedicated Work Cable Connection**
3. **Dedicated TIG Torch Cable Connection**
4. **Dedicated TIG Gas Hose Connection** — Built-in TIG gas solenoid automatically turns gas on/off in HF or Lift Arc mode.
5. **115 VAC (10 amp) Receptacle** for water cooler, if used.
6. **Dedicated TIG Remote Receptacle**

**Right-sized power source** provides 400 amps at 100 percent duty cycle for Stick for maximum stick electrode diameters. Provides 300 amps at 100 percent duty cycle for TIG welding in high-amperage applications. Provides 400 amps at 100 percent duty cycle for MIG and gas-shielded Flux-Cored weld processes.

**Cable hangers** are provided with the power source for guns, Stick electrode holders and TIG torch.

**Single or dual wire feeder** available with simple operator interface. Wire feed speeds up to 19.8 m/min.

**Bernard® PipeWorx guns** configured for air-cooled pipe welding applications. Tregaskiss™ TOUGH GUN™ 450 is recommended for water-cooled applications.

**PipeWorx Running Gear #300 368**  
Includes dual gas cylinder rack and front handles for power source.

**Interconnecting Cable Kit (see Ordering Information on page 8).**

**RFCS-14 HD Foot Control #194 744 (Optional)**  
For TIG applications. Heavy-duty foot pedal current/contactor control with increased stability and durability from larger base and heavier cord. Reconfigurable cord can exit front, back or either side of the pedal for flexibility. Includes 6-meter (20 ft.) cord and 14-pin plug.

## Rear Panel of Feeder

**Volt Sense Lead Connection**—This provides accurate voltage feedback for proper operation of the MIG Welding Processes.

*Note: The arc will be hotter than typical welding systems at a given setting because the voltage loss in the weld cable is not included in the measurement displayed on the meter.*



**Feeder Cart #300 467**  
For remote feeder applications. Includes cable hangers and consumables drawer.

## Additional Accessories



**Euro Adapter #164 902**  
Allows connection of torches with Euro-style connector.



**Spool Covers**—for 305-millimeter (12 in.) diameter spools  
**#057 607** For single or left side of dual feeder  
**#090 389** For right side of dual feeder

Protects wire from dust and contaminants.

**Reel Covers**—for 27-kilogram (60 lb.) coils  
**#195 412** For single or left side of dual feeder  
**#091 668** For right side of dual feeder  
Protects wire from dust and contaminants.



**Wire Reel Assembly #108 008**  
For 27-kilogram (60 lb.) coil of wire.



**DSS-9 Dual Schedule Switch #071 833**  
Allows the operator to switch between two sets of parameters during welding to provide consistent penetration in the fixed position or change parameter between passes in roll welding applications.



**RPBS-14 Remote Control #300 666**  
Attaches to the TIG torch to remotely start and stop the TIG welding process.



**Wireless Remote Foot Control #300 429**  
For PipeWorx models after serial number MA470021G. See Lit. Index No. AY/6.5 for more information.



## PipeWorx Remote Feeder Interface #300 597

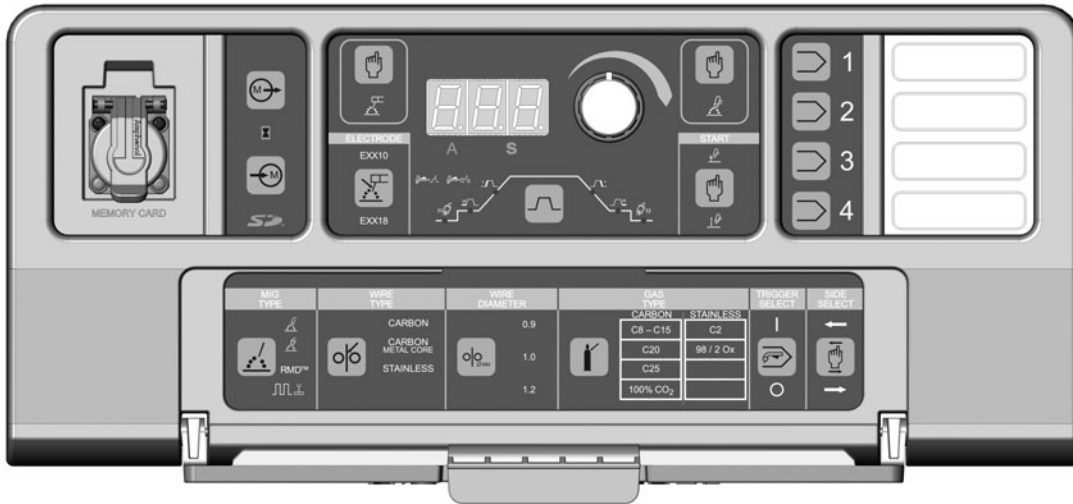
Designed for manipulators and other mechanized devices used to hold the torch in roll-welding applications. It features a simple operator interface with LEDs for easy viewing.

- MIG Process Type Indicator** is helpful in remote feeder applications.
- Jog** feeds the wire through the torch.
- Trigger Hold** reduces welder fatigue by allowing continuous welding without holding the trigger.
- Remote Memory Select** allows the welder to change programs (stored parameters) without returning to the power source or feeder.
- Purge** purges gas hoses.
- Left and Right Gun Triggers**

# Welding Process Capabilities

The PipeWorx Welding System provides standard welding process programs (detailed in the table below), specifically designed for the welding of carbon steel and stainless steel pipe. The MIG-Modified Short Circuit (RMD®) Programs and Pulsed MIG Programs are synergic programs designed specifically for combinations of wire type, wire diameter and shielding gas.

The power source is shipped with typical weld parameters for pipe welding. There is a means to reset the power source back to the typical weld conditions (factory settings). Synergic welding programs can only be adjusted within a range of acceptable wire feed speed to prevent operation in an unstable arc condition. This promotes weld quality and simplifies set-up.



Welding Process	Metal Transfer	Material Type	Wire Diameter	Shielding Gas
Stick (SMAW)	—	—	—	—
HF TIG (GTAW)	—	—	—	—
Lift-Arc™ TIG (GTAW)	—	—	—	—
MIG (GMAW) Solid Wire	Short Circuit or Spray	Carbon Steel	0.9, 1.0 or 1.2 mm	C8-C15 (Argon/8-15% CO <sub>2</sub> ) C20 (Argon/20% CO <sub>2</sub> ) C25 (Argon/25% CO <sub>2</sub> ) 100% CO <sub>2</sub>
MIG (GMAW) Solid Wire	Short Circuit or Spray	Stainless Steel	0.9, 1.0 or 1.2 mm	C2 (Argon/2% CO <sub>2</sub> ) 98/2 Ox (Argon/2% O <sub>2</sub> )
MIG RMD® (GMAW) Solid Wire	Modified Short Circuit	Carbon Steel	0.9, 1.0 or 1.2 mm	C8-C15 (Argon/8-15% CO <sub>2</sub> ) C20 (Argon/20% CO <sub>2</sub> ) C25 (Argon/25% CO <sub>2</sub> ) 100% CO <sub>2</sub>
MIG RMD® (GMAW) Solid Wire	Modified Short Circuit	Stainless Steel	0.9, 1.0 or 1.2 mm	C2 (Argon/2% CO <sub>2</sub> ) 98/2 Ox (Argon/2% O <sub>2</sub> )
MIG RMD® (GMAW) Metal-Cored Wire	Modified Short Circuit	Carbon Steel	1.2 mm	C20 (Argon/20% CO <sub>2</sub> ) C25 (Argon/25% CO <sub>2</sub> )
MIG (GMAW) Solid or Metal-Cored Wire	Pulse	Carbon Steel	0.9, 1.0 or 1.2 mm	C8-C15 (Argon/8-15% CO <sub>2</sub> ) C20 (Argon/20% CO <sub>2</sub> )
MIG (GMAW) Solid Wire	Pulse	Stainless Steel	0.9, 1.0 or 1.2 mm	C2 (Argon/2% CO <sub>2</sub> ) 98/2 Ox (Argon/2% O <sub>2</sub> )
Flux-Cored (FCAW)	—	—	—	No Requirement



Note: Other non-standard programs are optionally available for unique welding applications. These programs are available on commercial memory cards and operate through the PipeWorx Card Reader on the operator interface. Contact Miller for more information on less common materials and gases.

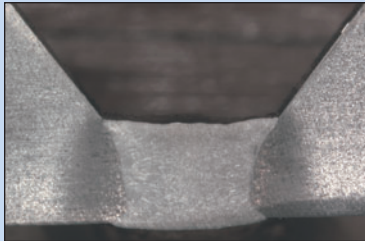
## PipeWorx Memory Cards

- #300 538 **Blank Card** — Used to store weld programs
- #301 034 **System Software, Version 1.11** — For free download, visit [MillerWelds.com](http://MillerWelds.com)
- #300 557 **Calibration** — Used to calibrate the PipeWorx System. For free download, visit [MillerWelds.com](http://MillerWelds.com)
- #300 536 **Inconel** — Pulsed MIG, .035/.045-inch diameter wire, 75% Argon/25% Helium
- #300 675 **Carbon Steel, RMD®, .052-inch diameter wire** with 75% Argon/25% CO<sub>2</sub>
- #300 460 **Range Locks** — Provides ability to set nominal parameter values and ranges for wire feed processes.
- #300 667 **NEW! Accu-Power™** — Displays instantaneous power during welding to meet the new ASME requirement for calculating heat input on complex waveform processes (RMD® and Pulsed MIG). Requires version 1.07 software minimum.

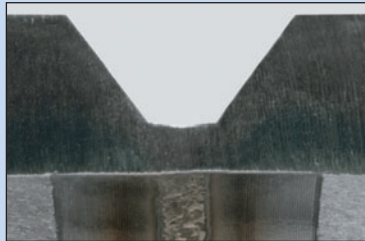
# Improved Arc Performance

## RMD® (Regulated Metal Deposition)

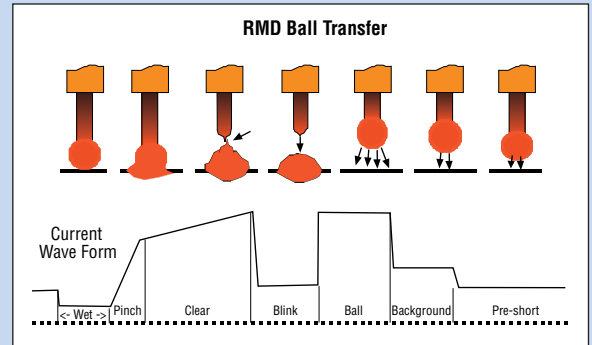
A precisely controlled short-circuit metal transfer that provides a calm, stable arc and weld puddle. This provides less chance of cold lap or lack of fusion, less spatter and a higher quality root pass on pipe. The stability of the weld process lessens the puddle manipulation required by the welder and is more tolerant to hi-lo conditions, reducing training requirements. Weld bead profiles are thicker than conventional root pass welds which can eliminate the need for a hot pass, improving weld productivity. In some stainless steel applications, it may be possible to eliminate the backing (purge) gas to further improve productivity and reduce welding costs.



RMD® Carbon Steel



RMD® Stainless



- Ideally suited to root pass welding
- Consistent side wall fusion
- Less weld spatter
- Tolerant to hi-lo fit-up conditions
- More tolerant of tip-to-work distance
- Less welder training time
- Thicker root passes can eliminate hot pass
- Eliminate backing gas on some stainless steel applications

## Pulsed MIG

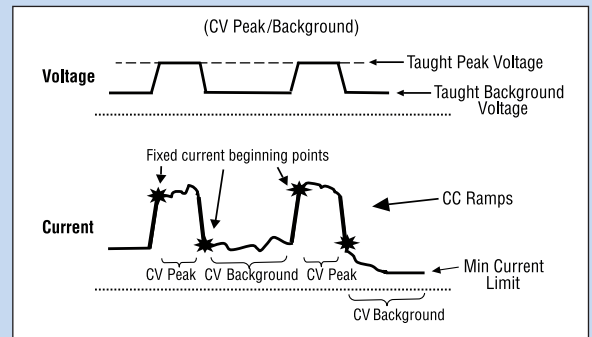
This method of pulse welding provides a shorter arc length, narrower arc cone and less heat input than with traditional spray pulse transfer. Since the process is closed-loop, arc wandering and variations in tip-to-work distances are virtually eliminated. This provides easier puddle control for both in-position and out-of-position welding, reducing welder training time. The process also improves fusion and fill at the toe of the weld, permitting higher travel speeds and higher deposition. This process coupled with RMD for root pass welding permits welding procedures with one wire and one gas to eliminate process switch-over time.



Pulsed MIG Carbon



Pulsed MIG Stainless



- Ideally suited to fill and cap pass welding
- Easier puddle control than conventional spray pulse
- Shorter arc lengths and narrow arc cone for out-of-position welding
- More tolerant of tip-to-work variation
- Improve fusion and fill at toe of weld
- Less heat input reduces interpass cooling time and improves weld cycle time
- Enables one-wire with one-gas weld procedures

# PipeWorx CE Welding System Specifications (Subject to change without notice.)



## PipeWorx CE Power Source

Welding Mode	Rated Output at 100% Duty Cycle	Amp/Volt Range	Amps Input at Rated Output, 50 Hz, 3-Phase, 400 V	KVA	KW	Max. Open-Circuit Voltage	Dimensions	Net Weight
CC: Stick	350 A at 34 VDC	40–400 A	24.3	400 V 16.9	400 V 14.3	90	H: 711 mm (28 in.) W: 495 mm (19.5 in.) D: 806 mm (31.75 in.)	102 kg (225 lb.)
CC: DC TIG	350 A at 34 VDC	10–350 A						
CV: MIG/Flux-Cored	400 A at 44 VDC	10–44 V	33.4	400 V 23.1	400 V 20.7			

## PipeWorx CE Single and Dual Feeders

Input Power	Wire Feed Speed Range	Wire Diameter Capacity	Input Welding Circuit Rating	Maximum Spool Size Capacity	Dimensions		Net Weight	
					Single	Dual	Single	Dual
24 VAC, 11 Amps	1.3–19.8 MPM (50–780 IPM)	0.9–1.6 mm (.035–.062 in.)	100 Volts, 750 Amps, 100% Duty Cycle	27 kg (60 lb.)	H: 356 mm (14 in.) W: 483 mm (19 in.) D: 737 mm (29 in.)	H: 356 mm (14 in.) W: 483 mm (19 in.) D: 737 mm (29 in.)	29.5 kg (65 lb.)	41 kg (90 lb.)

## Feeder Drive Roll Kits (Order from Miller Service Parts.)

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

Wire size	“V” groove for hard wire	“V” knurled for hard-shelled cored wires
0.9 mm (.035 in.)	#151 026	#151 052
1.0 mm (.040 in.)	#161 190	—
1.1/1.2 mm (.045 in.)	#151 027	#151 053
1.3/1.4 mm (.052 in.)	#151 028	#151 054
1.6 mm (1/16 in.)	#151 029	#151 055
1.8 mm (.068/.072 in.)	—	#151 056
2.0 mm (5/64 in.)	—	#151 057
2.4 mm (3/32 in.)	—	#151 058

## Wire Guides

Wire size	Inlet Guide	Intermediate Guide
0.6–1.0 mm (.023–.040 in.)	#150 993	#149 518
1.1–1.4 mm (.045–.052 in.)	#150 994	#149 519
1.6–2.0 mm (1/16–5/64 in.)	#150 995	#149 520
2.4–2.8 mm (3/32–7/64 in.)	#150 996	#149 521

## PipeWorx CE Cooler

Input Power (Pump and Blower)	Coolant Capacity	Dimensions (H x W x D)	Net Weight
115 VAC	11.4 L (3 gal.)	305 x 492 x 762 mm (12 x 19.375 x 30 in.)	46 kg (101 lb.)

# Typical PipeWorx CE Welding Systems (Filler metal and shielding gas sold separately.)



### Air-Cooled System

System is shown with power source, running gear, dual feeder, composite cable, and two 300-amp guns. See Ordering Information (on back page) for part numbers included in configuration.



### Air-Cooled with Remote Feeder System

System is shown with power source, running gear, dual feeder, composite cable, feeder cart, two 300-amp guns, remote foot control, regulator/flowmeters, and TIG torch. See Ordering Information (on back page) for part numbers included in configuration.



### Water-Cooled System

System is shown power source, running gear, dual feeder, composite cable, two guns, PipeWorx cooler for MIG or TIG Welding (removable for service and repair), remote foot control, regulator/flowmeters, (two required), and TIG torch with adapter. See Ordering Information (on back page) for part numbers included in configuration.

## Bernard® PipeWorx Air-Cooled Guns



The PipeWorx 300-15 gun with a tapered tip and nozzle is recommended for root pass welding, especially in fixed-position applications where visibility is difficult. Switch to a standard tip and nozzle for fill and cap pass welding with Flux-Cored or Pulsed MIG welding processes. This allows one gas and one wire to make the weld.

### Specifications (Subject to change without notice.)

Bernard Model	100% Duty Cycle NEMA	100% Duty Cycle CE	60% Duty Cycle CE	35% Duty Cycle CE	Gas Type	Cable Length	Net Weight
PipeWorx 250-15 (root pass only)	300 A	250 A	300 A	365 A	100% CO <sub>2</sub>	4.6 m (15 ft.)	4.1 kg (9 lb.)
	—	210 A	250 A	300 A	80% Argon/20% CO <sub>2</sub>		
PipeWorx 300-15	350 A	320 A	370 A	470 A	100% CO <sub>2</sub> Gas	4.6 m (15 ft.)	4.6 kg (10 lb.)
	—	270 A	270 A	390 A	80% Argon/20% CO <sub>2</sub>		

### Key Gun Consumables

Description	Part Number	Package Qty.
0.9 mm (.035 in.) Tapered Tip	TT-035 <sup>1</sup>	10
1.0 mm (.040 in.) Tapered Tip	TT-039	10
1.2 mm (.045 in.) Tapered Tip	TT-045	10
0.9 mm (.035 in.) Tip	T-035	10
1.0 mm (.040 in.) Tip	T-039	10
1.2 mm (.045 in.) Tip	T-045 <sup>2</sup>	10
1.3/1.4 mm (.052 in.) Tip	T-052	10
1.6 mm (1/16 in.) Tip	T-062	10
0.9–1.2 mm (.035–.045 in.) Liner	43115 <sup>1,2</sup>	1
1.2–1.6 mm (.045–.062 in.) Liner	44215	1

Description	Part Number	Package Qty.
13 mm (1/2 in.) ID Nozzle	NS-1218C	10
16 mm (5/8 in.) ID Nozzle	NS-5818C <sup>2</sup>	10
16 mm (5/8 in.) ID Nozzle	N-5818C	10
10 mm (3/8 in.) ID Tapered Tip Nozzle	NT-3800C	10
10 mm (3/8 in.) ID Tapered Tip Nozzle	NST-3800B	10
10 mm (3/8 in.) ID Extended Tapered Tip Nozzle	NST-38XTB <sup>1</sup>	10
Diffuser	D-1	10
Diffuser	DS-1 <sup>1,2</sup>	10
Q Tube Assembly 60°	QT2-60 <sup>1,2</sup>	1
O-Ring	4929	10

<sup>1</sup>Standard part on PipeWorx 250-15. <sup>2</sup>Standard part on PipeWorx 300-15.

## Tregaskiss™ Water-Cooled Guns



The Tregaskiss TOUGH GUN™ 300 (air cooled) and 450 (water cooled) are recommended for MIG Systems. Dual-taper technology includes the power pin and control plug of your choice at no additional cost.

### Specifications (Subject to change without notice.)

Bernard Model	100% Duty Cycle CE	60% Duty Cycle CE	Gas Type	Cable Length	Net Weight
TOUGH GUN 300	—	300 A	100% CO <sub>2</sub>	4.6 m (15 ft.)	4.1 kg (9 lb.)
	—	250 A	80% Argon/20% CO <sub>2</sub>		
TOUGH GUN 450	450 A	550 A	100% CO <sub>2</sub>	4.6 m (15 ft.)	4.5 kg (10 lb.)
	375 A	450 A	80% Argon/20% CO <sub>2</sub>		

### Key Gun Consumables

Description	Part Number	Package Qty.
0.9 mm (.035 in.) Tip	403-14-35 <sup>1</sup>	25
1.0 mm (.040 in.) Tip	403-14-1.0 <sup>1,2</sup>	25
	403-1-1.0 <sup>3</sup>	25
1.2 mm (.045 in.) Tip	403-14-45 <sup>1</sup>	25
	403-1-45 <sup>3,4</sup>	25
0.9 mm (.035 in.) Heavy-Duty Tip	403-20-35	25
1.0 mm (.040 in.) Heavy-Duty Tip	403-20-1.0	25
1.2 mm (.045 in.) Heavy-Duty Tip	403-20-45	25
0.9–1.2 mm (.035–.045 in.) Liner	415-35-15 <sup>2,4</sup>	1
1.2–1.6 mm (.045–.062 in.) Liner	415-116-15	1
Gooseneck Insulator	402-7 <sup>1,2</sup>	10
	452-1 <sup>3,4</sup>	1
Nozzle Retainer	402-3 <sup>1,2</sup>	5

Description	Part Number	Package Qty.
10 mm (3/8 in.) ID Flush Nozzle	401-4-38 <sup>1,2</sup>	10
13 mm (1/2 in.) ID, 3 mm (1/8 in.) Recess Nozzle	401-4-50 <sup>1</sup>	10
16 mm (5/8 in.) ID, 3 mm (1/8 in.) Recess Nozzle	401-4-62 <sup>1</sup>	10
19 mm (3/4 in.) ID, 3 mm (1/8 in.) Recess Nozzle	401-4-75 <sup>1</sup>	10
13 mm (1/2 in.) ID, 3 mm (1/8 in.) Recess HD Nozzle	401-6-50 <sup>1</sup>	10
16 mm (5/8 in.) ID, 3 mm (1/8 in.) Recess HD Nozzle	401-6-62 <sup>1</sup>	10
19 mm (3/4 in.) ID, 3 mm (1/8 in.) Recess HD Nozzle	401-6-75	10
16 mm (5/8 in.) ID, 6 mm (1/4 in.) Recess HD Nozzle	401-5-62	10
19 mm (3/4 in.) ID, 6 mm (1/4 in.) Recess HD Nozzle	401-5-75	10
TOUGH LOCK™ HD Gas Diffuser	404-15 <sup>1</sup>	25
TOUGH LOCK™ Retaining Head	404-14 <sup>1,2</sup>	5
Retaining Head	454-1 <sup>3,4</sup>	1
TOUGH LOCK™ HD Retaining Head	404-20	5
Retaining Ring only	402-4 <sup>1,2</sup>	25
	404-3 <sup>3,4</sup>	5

<sup>1</sup>TOUGH GUN 300 only. <sup>2</sup>Standard part on TOUGH GUN 300.

<sup>3</sup>TOUGH GUN 450 only. <sup>4</sup>Standard part on TOUGH GUN 450.






# Weldcraft® TIG Torches



Weldcraft.com 1-800-752-7620

Complete your PipeWorx Welding System with a Weldcraft® TIG torch. Weldcraft torches use high-quality, durable components combined with innovative designs to ensure long, trouble-free performance, better productivity and lower costs. That's what makes Weldcraft the "TIG Welder's Choice."

## Ordering Information (Select a power source, wire feeder and cable package for complete system.)

PipeWorx Package	Stock No.	Description	Qty.	Price	
<b>To Configure a Custom PipeWorx System — see page 6 for typical system configurations</b>					
<b>1 Select a Power Source</b> 	<b>PipeWorx 400 Power Source</b>	<b>#907 534</b>	400 V, 3-Phase, 50 Hz. Includes side-mount cable hangers		
	<i>Includes one blank memory card (#300 538) and short gas hose for connecting output gas connection on power source to TIG block. Does not include an input power cable.</i>				
<b>2 Select a Wire Feeder</b> 	Single Bench-Style Feeder	<b>#300 949</b>	Drive rolls not included. Euro Adapter #164 902 sold separately		
	Dual Bench-Style Feeder	<b>#300 950</b>	Drive rolls not included. Euro Adapter #164 902 sold separately		
<b>3 Select a Cable Kit</b>	Interconnecting Cable Kit (Air-cooled)	<b>#058 019 189</b> <b>#058 019 190</b> <b>#058 019 191</b>	2.5 m (8.2 ft.) 5 m (16.4 ft.) 10 m (32.8 ft.)	<i>Includes feeder control cable, weld cable, gas hose, and work sense lead</i>	
	Interconnecting Cable Kit (Water-cooled)	<b>#058 019 192</b> <b>#058 019 193</b> <b>#058 019 194</b>	2.5 m (8.2 ft.) 5 m (16.4 ft.) 10 m (32.8 ft.)	<i>Includes feeder control cable, weld cable, gas hose, water hoses, and work sense lead</i>	
	<b>4 Select a MIG Gun</b>  See page 7	Bernard® PipeWorx 250-15 Gun (Recommended for root pass only)	<b>#195 399</b>	4.6 m (15 ft.), 250 A air-cooled MIG gun	
	Bernard® PipeWorx 300-15 Gun	<b>#195 400</b>	4.6 m (15 ft.), 300 A air-cooled MIG gun		
	Tregaskiss™ TOUGH GUN™ 300	<b>SGB3015-MC</b>	4.6 m (15 ft.), 300 A air-cooled MIG gun		
	Tregaskiss™ TOUGH GUN™ 450	<b>E4515-MC</b>	4.6 m (15 ft.), 450 A water-cooled MIG gun		
<b>5 Select a TIG Torch</b> 	Water-Cooled TIG Torch	<b>CS310AAL4CKA-I</b> <b>CS310AAL8CKA-I</b>	4 m (13 ft.), 310 A water-cooled TIG torch 8 m (26 ft.), 310 A water-cooled TIG torch		
<b>6 Select a Cooler</b> 	PipeWorx Cooler (Coolant sold separately)	<b>#028 042 102</b>	Water-cooling system for MIG guns and TIG torches		
<b>System Options</b>					
	PipeWorx Running Gear	<b>#300 368</b>	See page 2. For power source		
	Coolant (Sold in 4 gallon case)	<b>#043 810</b>	For MIG or TIG welding		
	Feeder Cart	<b>#300 467</b>	See page 3. For remote feeder applications		
<b>Accessories</b>					
	Dinse Adapter	<b>#168 077</b>			
	Spool Covers		See page 3. For 305-mm (12 in.) spool		
	Reel Covers		See page 3. For 27-kg (60 lb.) coil		
	Wire Reel Assembly	<b>#108 008</b>	For 27-kg (60 lb.) coil		
	DSS-9 Switch for Dual Schedule	<b>#071 833</b>	See page 3. Used to change weld parameters during welding		
	PipeWorx Remote Feeder Interface w/Gun Triggers and Cable	<b>#300 597</b>	See page 3. For mechanized systems		
	RFCS-14 HD Remote Control	<b>#194 744</b>	See page 2. Heavy-duty foot current/contacter control		
	RPBS-14 On-Off Switch Remote	<b>#300 666</b>	See page 3. TIG welding remote		
	Wireless Remote Foot Control	<b>#300 429</b>	See page 3. Wireless foot current/contacter control		
	Foot Control Bracket	<b>#300 676</b>	Used to hold RFCS-14 HD Remote Foot Control		
	Smith® Regulator/Flowmeter	<b>#194 738</b>			

Date:

Total Quoted Price:

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