# PipeWorx Welding System Multiprocess Pipe Welding Systems

# Multiprocess Pipe [2]



### **Quick Specs**

#### **Pipe Welding Fabrication**

Process piping Refinery Petrochemical Power HVAC and water pipe

#### **Processes**

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

Rated Output 400 A at 36 VDC, 100% duty cycle

Output Range Stick: 40-400 A

DC TIG: 10-350 A

MIG/flux-cored: 10-44 V, 400 A

**Net Weight Power source:** 225 lb. (102 kg)

> Dual-wire feeder: 90 lb. (41 kg) Cooler: 133 lb. (60 kg)

### **Designed exclusively for** pipe fabrication shops.

#### Simple process setup

- Setting up a new weld process is simple, requiring fewer steps, less training, and minimizing potential errors.
- . The front panel was designed by welders for welders. Only backlit controls are adjustable to eliminate confusion.
- . The memory feature stores four programs for stick, DC TIG, and wire processes (left and right feeder side) each.

#### Streamlined system

- · Innovative cable and gun storage maintains an organized weld-cell area. Cables stav connected to the power source, eliminating the need for switching between welding processes.
- · All system components are tailored to meet the demands of a pipe fabrication shop.



#### Multiprocess machine

- · Includes conventional stick, DC TIG (Lift-Arc™ or HF start), flux-cored and MIG welding processes.
- · Features advanced RMD and pulsed MIG processes for high-quality welds, enhanced productivity, and less rework and training.

#### Quick process changeover

- · PipeWorx 'Quick-Select' technology auto-chooses welding process, polarity, cable outputs, and parameters.
- · Eliminates set-up time for switching cables and gas hoses.

PipeWorx Welding System (951000094)



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



### 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











### PipeWorx Welding System Features (PipeWorx power source shown with control panel door open.)

**Easy process selection.** Switch between stick or DC TIG with the press of a button.

**Memory card slot.** Memory card saves process parameters of all memory locations. Each operator can have their own machine settings.

Electrode selection. Automatically—sets the optimum welding conditions for common E6010 series and E7018 low hydrogen series electrodes.

MIG-type process selections provide optimum pipe welding performance. Choose from FCAW, MIG, RMD® and pulsed MIG. RMD modified short circuit and pulsed MIG are synergic programs. See pages 3 and 4 for more information.

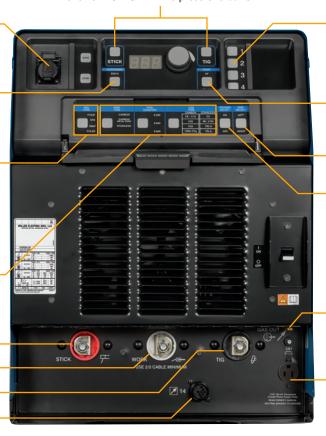
**MIG starts and stops** are optimized based on selection of wire type, wire diameter and shielding gas type. No setting required.

**Dedicated stick connection** 

Dedicated work cable connection

**Dedicated TIG torch cable connection** 

**Dedicated TIG remote receptacle** 



PipeWorx power source shown with control panel door and cable connection panel door open

Note: MIG connections are on rear panel of power source see Owner's Manual. **Memory** stores four programs (stored parameters) for each selection: stick, TIG, MIG (left and right). This eliminates the need to remember parameters.

**TIG starts.** Select between high frequency or Lift-Arc™ with the push of a button.

Easily switch from left side of feeder to right.

**Trigger select** allows the welder to select a stored "parameter" without returning to the power source.

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

**Dedicated TIG gas hose connection.**Built-in TIG gas solenoid automatically turns gas on/off in HF or Lift-Arc™ mode.

**115-volt (10 amp) receptacle** for water cooler, if used.

**Dual-wire feeder** available with simple operator interface. Wire feed speeds up to 780 ipm.

Left and right gun selection.

**MIG process type indicator** is helpful in remote feeder applications.

Jog feeds the wire through the gun. -

**Trigger hold** reduces operator fatigue by allowing continuous welding without holding the trigger.



PipeWorx bench and remote feeder interface

Volt sense lead connection (rear panel of feeder) provides accurate voltage feedback for proper operation of the MIG welding processes.

Remote memory select allows the operator to change programs (stored parameters) without returning to the power source.

Purge purges gas hoses.



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







### **PipeWorx Power Source**

Welding Mode	Rated Output at 100% Duty Cycle	Amp/Volt Range	Amps In 230 V	put at Rate 380 V	ed Output, 400 V	50/60 Hz, 460 V	3-Phase 575 V	KVA	KW	Max. Open- Circuit Voltage	Dimensions	Net Weight		
CC: stick	400 A at 36 VDC	40-400 A	43.9	26.3	25.5	26.6	22.4	230 V 17.5 380 V 17.6 400 V 17.8 460 V 21.2 575 V 22.3	230 V 16.1 380 V 16.5 400 V 16.5 460 V 16.3 575 V 16.4	90	90	(724 mm) W: 19.5 in.	(724 mm) W: 19.5 in. (495 mm)	225 lb. (102 kg)
CC: DC TIG	350 A at 24 VDC	10-350 A	29.3	19	18.1	18.2	13.5	230 V 11.8 380 V 12.4 400 V 12.5 460 V 14.5 575 V 13.4	230 V 10.7 380 V 9.7 400 V 9.8 460 V 10.6 575 V 10.0		(806 mm)	(806 mm)		
CV: MIG/ flux-cored	400 A at 34 VDC	10-44 V	42.9	27.1	25.7	24	20.5	230 V 17.3 380 V 18.0 400 V 18.0 460 V 19.2 575 V 20.5	230 V 16.0 380 V 15.5 400 V 15.6 460 V 15.8 575 V 16.2					

### **PipeWorx Dual Feeder**

Input Power	Input Welding Circuit Rating	Wire Feed Speed Range	Wire Diameter Capacity	Maximum Spool Size Capacity	Dimensions	Net Weight
24 VAC, 11 amps	100 V, 750 A, 100% duty cycle	50-780 ipm (1.3-19.8 mpm)	.035062 in. (0.9-1.6 mm)	60 lb. (27 kg)	H: 14 in. (356 mm) W: 19 in. (483 mm) D: 29 in. (737 mm)	90 lb. (41 kg)

# **Welding Process Capabilities**

The PipeWorx Welding System provides standard welding process programs specifically designed for the welding of carbon steel and stainless steel pipe. The RMD® (MIG-modified short circuit) programs and pulsed MIG programs are synergic programs designed specifically for combinations of wire type, wire diameter and shielding gas.

			Wire Type				
Carbon Steel Programs			Metal-cored Wire				
		.035 in. (0.9 mm)	.040 in. (1.0 mm)	.045 in. (1.1/1.2 mm)	.045 in. (1.1/1.2 mm)		
Shielding Gas	C8-15 (argon/8-15% CO <sub>2</sub> )	MIG, RMD, Pulse	MIG, RMD, Pulse	MIG, RMD, Pulse	Pulse		
	C20 (argon/20% CO <sub>2</sub> )	MIG, RMD, Pulse	MIG, RMD, Pulse	MIG, RMD, Pulse	RMD		
	C25 (argon/25% CO <sub>2</sub> )	MIG, RMD	MIG, RMD	MIG, RMD	RMD		
	100% CO <sub>2</sub>	MIG, RMD	MIG, RMD	MIG, RMD			

Stainless Steel Programs			Wire Type			
			Solid Wire			
		.035 in. (0.9 mm)	.040 in. (1.0 mm)	.045 in. (1.1/1.2 mm)		
Shielding Gas	C2 (argon/2% CO <sub>2</sub> )	MIG, RMD, Pulse	MIG, RMD, Pulse	MIG, RMD, Pulse		
	98/2 (argon/2% oxygen)	MIG, RMD, Pulse	MIG, RMD, Pulse	MIG, RMD, Pulse		
	Tri H (90% He/7.5% Ar/2.5% CO <sub>2</sub> )	MIG, RMD, Pulse		MIG, RMD, Pulse		
	Tri A (81% Ar/18% He/1% CO <sub>2</sub> )	MIG, RMD, Pulse		MIG, RMD, Pulse		



### **Improved Arc Performance**

#### RMD® (Regulated Metal Deposition)

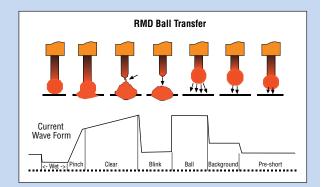
A precisely controlled short-circuit metal transfer that provides a calm, stable arc and weld puddle. This provides less chance of cold lap or lack of fusion, less spatter and a higher quality root pass on pipe. The stability of the weld process lessens the puddle manipulation required by the welder 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** 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**

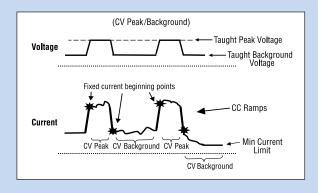
This method of pulse welding provides a shorter arc length, narrower arc cone and less heat input than with traditional spray pulse transfer. Since the process is closed-loop, arc wandering and variations in tip-to-work distances are virtually eliminated. This provides easier puddle control for both 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



### **Bernard® PipeWorx Guns Features**



As the preferred hand-held MIG gun and consumable manufacturer of Miller, Bernard is proud to provide its durable and innovative products for use with Miller® wire feeders and machines. Each Bernard product is versatile, dependable and built with the goal in mind of improving your welding productivity and performance.

The Bernard PipeWorx 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.

Versatility	Can be used for MIG, pulsed MIG, and flux-cored.
Ergonomics	Compact, lightweight gun with high-amperage capability reduces operator fatigue improving productivity.
Visibility	The combination of tapered tips and nozzles and 60-degree neck provides excellent visibility on root passes in pipe joints.
Centerfire™ Tip	Provides "drop-in" tip with no threads providing quick changeover. No tools are required.

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

	Bernard Model	Gas Type	100% Duty Cycle NEMA	100% Duty Cycle CE	60% Duty Cycle CE	35% Duty Cycle CE	Cable Length	Net Weight
ſ	PipeWorx 300-15	CO <sub>2</sub> gas	350 A	320 A	370 A	470 A	15 ft. (4.6 m)	10 lb. (4.6 kg)
	195400	80% argon/20% CO <sub>2</sub>	_	270 A	310 A	390 A		

#### **Key Gun Consumables**

Description	Part Number	Package Quantity
.035 in. tapered tip	TT-035	10
.040 in. tapered tip	TT-039	10
.045 in. tapered tip	TT-045	10
.035 in. tip	T-035	10
.040 in. tip	T-039	10
.045 in. tip	T-0451	10
.052 in. tip	T-052	10
1/16 in. tip	T-062	10
.035045 in. liner	415-35-1521	1
.045-1/16 in. liner	415-116-152	1

<sup>&</sup>lt;sup>1</sup>Standard part on PipeWorx 300-15.

Description	Part Number	Package Quantity
Nozzle 5/8 in. ID	NS-5818C1	10
Nozzle 5/8 in. ID	N-5818C	10
Nozzle 1/2 in. ID	NS-1218C	10
Nozzle 3/4 in. ID	N-3418C	10
Nozzle 3/8 in. ID tapered tip	NT-3800C	10
Nozzle 3/8 in. ID tapered tip	NST-3800B	10
Nozzle 3/8 in. ID extended tapered tip	NST-38XTB	10
Diffuser	D-1	10
Diffuser	DS-11	10
Q tube assembly 60°	QT2-601	1
Q tube assembly 80°	QT2-80	1
0-ring	4929	10

# **Weldcraft**<sup>™</sup> **TIG Torches**



Complete your PipeWorx Welding System with a Weldcraft TIG torch. These torches use high-quality, durable components combined with innovative designs to ensure long, trouble-free performance, better productivity and lower costs.

Stock No.	Model	Connector		
WP1725RM	Air-cooled (one cable) 150 amp	105Z57		
WP2625RM	Air-cooled (one cable) 200 amp	45V62		
301525025	Air-cooled (one cable) 250 amp	45V62		
WP1825RM	Water-cooled (one cable) 350 amp	45V11		
WP2025RM	Water-cooled (one cable) 250 amp	45V11		
Cable Cover: WC-3-22				



### **Genuine Miller® Accessories**



#### PipeWorx Running Gear 300368

Includes dual cylinder rack with chains for gas cylinders and front handles for power source.



#### PipeWorx Cooler 300370

For MIG or TIG welding. Removable for service and repair.

#### 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.



#### Cable Kit 300367

For feeder used on power source. 5 ft. (1.5 m) feeder control cable, 2/0 feeder weld cable with lugs and 25 ft. (7.6m) work sense lead.



Composite Cable Kit 300454 25 ft. (7.6 m) 300456 50 ft. (15.2 m) For remote feeder applications. Composite cable with feeder control cable, weld cable and gas

hose in protective sheath to simplify installation and reduce clutter in the weld cell. Includes work sense lead.



## PipeWorx Accessories Kit for Dual Feeder 300568

25 ft. (7.6 m) work cable, EG500 work clamp, two flowmeter regulators and two 4 ft. (1.2 m) gas hoses.



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.



**Dual Feeder Spool Covers 057607** For left side **090389** For right side For 12-inch (305 mm) diameter spools. Protects

wire from dust and contaminants.



Dual Feeder Reel Covers 195412 For left side 091668 For right side For 60-pound (27 kg) coils. Protects wire from dust and contaminants.



### Wire Reel Assembly 108008

For 60-pound (27 kg) coil of wire.



#### DSS-9 Dual Schedule Switch 071833

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 300666

Attaches to the TIG torch to remotely start and stop the TIG welding process.



## 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.



# Wireless Remote Foot Control 301580

For PipeWorx models with serial number MA470021G and after. See literature

AY/6.5 for more information.



### Foot Control Bracket 300676

Used to hold RFCS-14 HD remote foot control or wireless remote foot control.



### PipeWorx Remote Feeder Interface 300597

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.

#### **PipeWorx Memory Cards**

For system updates, custom programs and Accu-Power visit MillerWelds.com/support/software/pipeworx-400



**300460 Range Locks** — Provides ability to set nominal parameter values and ranges for wire feed processes.

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.



### **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.

#### **Feeder Drive Roll Kits**

Wire size	V-groove for hard wire	V-knurled for hard-shelled cored wires
.035 in. (0.9 mm)	151026	151052
.040 in. (1.0 mm)	161190	_
.045 in. (1.1/1.2 mm)	151027	151053
.052 in. (1.3/1.4 mm)	151028	151054
1/16 in. (1.6 mm)	151029	151055
.068/.072 in. (1.8 mm)	_	151056
5/64 in. (2.0 mm)	_	151057
3/32 in. (2.4 mm)	_	151058
.035 and .045 in. (0.9 and 1.2)	269480*	

<sup>\*</sup>Included with PipeWorx feeders. Drive roll is dual-size reversible with one .035-inch V-groove and one .045-inch V-knurled groove.

#### **Wire Guides**

Wire size	Inlet Guide	Intermediate Guide
.023040 in. (0.6-1.0 mm)	150993	149518
.045052 in. (1.1-1.4 mm)	150994	149519
1/16-5/64 in. (1.6-2.0 mm)	150995	149520
3/32-7/64 in. (2.4-2.8 mm)	150996	149521

### **Typical PipeWorx Welding Systems**



#### Air-cooled package

**951000094** 230/460 V, three-phase, 50/60 Hz **951000095** 575 V, three-phase, 50/60 Hz

#### Packages include:

- PipeWorx 400 power source (230/460 V: 907382) OR (575 V: 907384) with side-mount cable hangers
- PipeWorx dual-wire bench-style feeder with drive rolls (300366)
- Cable kit with 25 ft. (7.6 m) work sense lead (300367)
- Two Bernard® PipeWorx 300-15 guns (195400)
- Running gear with handles and dual cylinder rack with chains for gas cylinders (300368)
- PipeWorx accessories kit for dual feeder (300568)



#### Add the following to create water-cooled system as shown

 PipeWorx cooler (300370), coolant (043810), wireless remote foot control (301580), foot control bracket (300676) and TIG torch (WP1825RM) with adapter (45V11)

Note: Systems do not include input power cable.



# Ordering Information Most popular model

(Dies not include input power cable, sink electrode holder and cable, or TiG remotes)  375 V, 3-thiss, 50/00 Hz, air-cooled 3, dual feeder (200566), cable kit with 25 ft. (7.6 m) work sense lead (200566), cable kit with 25 ft. (7.6 m) work sense lead (200566), two Pipelwior accessories kit for dual feeder (200566), two Pipelwiors 300-15 gain (185040), running pair with handres (200368) and Pipelwior accessories kit for dual feeder (200568)  3 elect Pipelwor 400 Power Source 97735 / 3-thisse, 50/60 Hz, Includes side-mount cable hangers (200566) and the side side mount cable hangers (200566) and the side side side side side side s	PipeWorx Package  PipeWorx Welding System (Does not include input power cable, stick electrode holder and cable, TIG torch and cable, or TIG remotes)		Stock No.	Description	Qty.	Price
Select Feeder   PipeWorx 400 Power Source   907382   907384   907475   907384   907475   90				575 V, 3-phase, 50/60 Hz, air-cooled Systems include power source (with side-mount cable hangers), dual feeder (300366), cable kit with 25 ft. (7.6 m) work sense lead (300367), two PipeWorx 300-15 guns (195400), running gear with		
Select MIG Gur   Surres   Su	Configure a Custom Pip	oeWorx System. (See page 7 for typ	oical system con	figurations.)		
Bench-Style Feeder    Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source  Composite Cable Kit   For feeder used on power source		PipeWorx 400 Power Source	907384	575 V, 3-phase, 50/60 Hz. Includes side-mount cable hangers 400 V, 3-phase, 50/60 Hz. Includes side-mount cable hangers Includes one blank memory card (301080) and short gas hose for connecting output gas connection on power source to TIG block.		
Cable Kit   Care Reserved   Cable Kit	2 Select Feeder		300366	.045 in. knurled V-drive rolls (for flux-cored wire), and Y-hose for		
Accessories Kits Composite Cable Kit (For feeder used on power source) Composite Cable Kit (For remote feeder applications)  See page 6 PipeWorx Accessories Kit for Dual Feeder  PipeWorx Accessories Kit for Dual Feeder  300456 PipeWorx Accessories Kit for Dual Feeder  300568 System Options  PipeWorx Running Gear PipeWorx Running Gear PipeWorx Cooler (Coolant sold separately) 300370 For Millor or Till welding Coolant (must be ordered in quantities of four)  430370 Accessories  Weldcraft* TiG Torches  Weldcraft* TiG Torches  See page 5 Soft. (7.6 m) 300462 See page 5 Soft. (15.2 m) Spool Covers For 12 in. (305 mm) spool Reel Covers For 60 lb. (27 kg) coil PipeWorx Bennote Foot Control 301580 Wireless Remote Foot Control 301580 Wire Feeder Consumables  Wire Feeder Consumables  See page 6 See page 7 for drive rolls, inlet guides and intermediate guides Flowmeter Regulator (Gas hose sold separately) 194738			195400	15 ft. (4.6 m), 300 A air-cooled MIG gun		
See page 6   For remote feeder applications   and weld cable in protective sheath and 25 ft. work sense lead   300456   50 ft. (15.2 m) composite cable with feeder control cable, gas hose and weld cable in protective sheath and 50 ft. work sense lead   9			300367			
PipeWorx Accessories Kit for Dual Feeder  PipeWorx Accessories Kit for Dual Feeder  PipeWorx Accessories Kit for Dual Feeder  PipeWorx Running Gear  PipeWorx Running Gear  PipeWorx Cooler (Coolant sold separately)  PipeWorx Running Gear  PipeWorx Running Ge	Con page 6			and weld cable in protective sheath and 25 ft. work sense lead		
System Options   Syst	See page o		300456			
PipeWorx Running Gear  PipeWorx Cooler (Coolant sold separately)  Coolant (must be ordered in quantities of four)  Oddst (-37° Fahrenheit (-38°C) or boiling to 227° Fahrenheit (108°C)  Accessories  Weldcraft" TIG Torches  Weldcraft" TIG Torches  See page 5  Work Sense Lead (Volt sense)  Spool Covers  For 12 in. (305 mm) spool  For 60 lb. (27 kg) coil  Wire Reel Assembly  DSS-9 Dual Schedule Switch  O71833  Used to change weld parameters during welding  RPBS-14 On-Off Switch Remote  RFCS-14 HD Remote Control  Wireless Remote Foot Control  Wireless Remote Foot Control  Oddst (2000)  Oddst (2000)  Wireless Remote Foot Control  Oddst (2000)	001:		300568			
PipeWorx Cooler (Coolant sold separately)  Coolant (must be ordered in quantities of four)  O43810  1-gallon plastic bottle. Protects against freezing to -37° Fahrenheit (-38°C) or boiling to 227° Fahrenheit (108°C)  Accessories  Weldcraft** TIG Torches  See page 5  Work Sense Lead (Volt sense)  Spool Covers  For 12 in. (305 mm) spool  Reel Covers  For 60 lb. (27 kg) coil  Wire Reel Assembly  DSS-9 Dual Schedule Switch  O71833  Used to change weld parameters during welding  RPBS-14 On-Off Switch Remote  RFCS-14 HD Remote Control  Wireless Remote Foot Control  Wireless Remote Foot Control  Wireless Remote Feeder Interface w/Gun Triggers and Cable  PipeWorx Remote Regulator (Gas hose sold separately)  194738  For MiG or TIG welding  1-gallon plastic bottle. Protects against freezing to -37° Fahrenheit (-38°C) or boiling to 227° Fahrenheit (108°C)  1-gallon plastic bottle. Protects against freezing to -37° Fahrenheit (-38°C) or boiling to 227° Fahrenheit (108°C)  See page 5  See page 5  See page 5  See page 7 for drive rolls, inlet guides and intermediate guides  See page 7 for drive rolls, inlet guides and intermediate guides	System Options					
PipeWorx Cooler (Coolant sold separately)  Coolant (must be ordered in quantities of four)  O43810  1-gallon plastic bottle. Protects against freezing to -37° Fahrenheit (-38°C) or boiling to 227° Fahrenheit (108°C)  Accessories  Weldcraft** TIG Torches  See page 5  Work Sense Lead (Volt sense)  Spool Covers  For 12 in. (305 mm) spool  Reel Covers  For 60 lb. (27 kg) coil  Wire Reel Assembly  DSS-9 Dual Schedule Switch  O71833  Used to change weld parameters during welding  RPBS-14 On-Off Switch Remote  RFCS-14 HD Remote Control  Wireless Remote Foot Control  Wireless Remote Foot Control  Wireless Remote Feeder Interface w/Gun Triggers and Cable  PipeWorx Remote Regulator (Gas hose sold separately)  194738  For MiG or TIG welding  1-gallon plastic bottle. Protects against freezing to -37° Fahrenheit (-38°C) or boiling to 227° Fahrenheit (108°C)  1-gallon plastic bottle. Protects against freezing to -37° Fahrenheit (-38°C) or boiling to 227° Fahrenheit (108°C)  See page 5  See page 5  See page 5  See page 7 for drive rolls, inlet guides and intermediate guides  See page 7 for drive rolls, inlet guides and intermediate guides	PipeWorx Running Gear		300368	For power source. Includes gas cylinder rack and handles		
See page 5   See page 6   See page 5   See page 6   See page 6   See page 6   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides and intermediate guides   See page 6   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides and intermediate guides   See page 7 for drive rolls, inlet guides   See page		nt sold separately)	300370			
Weldcraft™ TIG Torches  Work Sense Lead (Volt sense)  300461 300462  See page 5  Work Sense Lead (Volt sense)  Spool Covers  For 12 in. (305 mm) spool  For 60 lb. (27 kg) coil  Wire Reel Assembly  108008  For 60 lb. (27 kg) coil  DSS-9 Dual Schedule Switch  071833  Used to change weld parameters during welding  RPBS-14 On-Off Switch Remote  300666  TIG welding remote  RFCS-14 HD Remote Control  Wireless Remote Foot Control  Wireless Remote Foot Control  Wireless Remote Foot Control  Foot Control Bracket  PipeWorx Remote Feeder Interface w/Gun Triggers and Cable  PipeWorx Memory Cards  Wire Feeder Consumables  Flowmeter Regulator (Gas hose sold separately)  194738	Coolant (must be ordere	d in quantities of four)	043810	1-gallon plastic bottle. Protects against freezing to -37° Fahrenheit (-38°C) or boiling to 227° Fahrenheit (108°C)		
Work Sense Lead (Volt sense)  300461 300462  50 ft. (7.6 m) 50 ft. (15.2 m)  For 12 in. (305 mm) spool  Reel Covers  For 60 lb. (27 kg) coil  Wire Reel Assembly  DSS-9 Dual Schedule Switch  RPBS-14 On-Off Switch Remote  300666  RFCS-14 HD Remote Control  Wireless Remote Foot Control  Wireless Remote Foot Control  Wireless Remote Feeder Interface w/Gun Triggers and Cable  Wire Feeder Consumables  For 60 lb. (27 kg) coil  Used to change weld parameters during welding  TIG welding remote  Heavy-duty foot current/contactor control  Wireless foot current/contactor control  Wireless foot current/contactor control  South Remote Feeder Interface w/Gun Triggers and Cable  See page 6  Wire Feeder Consumables  Flowmeter Regulator (Gas hose sold separately)  194738	Accessories					
Spool Covers For 12 in. (305 mm) spool Reel Covers For 60 lb. (27 kg) coil Wire Reel Assembly DSS-9 Dual Schedule Switch RPBS-14 On-Off Switch Remote RFCS-14 HD Remote Control Wireless Remote Foot Control Wireless Remote Foot Control Foot Control Bracket PipeWorx Remote Feeder Interface w/Gun Triggers and Cable PipeWorx Memory Cards Wire Feeder Consumables Flowmeter Regulator (Gas hose sold separately)  108008 For 60 lb. (27 kg) coil Used to change weld parameters during welding For 60 lb. (27 kg) coil Welder Service For 60 lb. (27 kg) coil Used to change weld parameters during welding For 60 lb. (27 kg) coil Welder Service For 60 lb. (27 kg) coil Used to change weld parameters during welding Welder For 60 lb. (27 kg) coil	Weldcraft <sup>™</sup> TIG Torches			See page 5		
Reel Covers  For 60 lb. (27 kg) coil  Wire Reel Assembly  DSS-9 Dual Schedule Switch  O71833  Used to change weld parameters during welding  RPBS-14 On-Off Switch Remote  RFCS-14 HD Remote Control  Wireless Remote Foot Control  Wireless Remote Foot Control  Wireless Remote Foot Control  Foot Control Bracket  PipeWorx Remote Feeder Interface w/Gun Triggers and Cable  PipeWorx Memory Cards  Wire Feeder Consumables  Flowmeter Regulator (Gas hose sold separately)  For 60 lb. (27 kg) coil  See page weld parameters during welding  Heavy-duty foot current/contactor control  Wireless foot current/contactor control  Wireless foot current/contactor control  For mechanized systems  See page 6  See page 6  See page 7 for drive rolls, inlet guides and intermediate guides	Work Sense Lead (Volt s	ense)		50 ft. (15.2 m)		
Wire Reel Assembly  DSS-9 Dual Schedule Switch  DSS-9 Dual Schedule Switch  RPBS-14 On-Off Switch Remote  RFCS-14 HD Remote Control  Wireless Remote Foot Control  Wireless Remote Foot Control  Foot Control Bracket  PipeWorx Remote Feeder Interface w/Gun Triggers and Cable  PipeWorx Memory Cards  Wire Feeder Consumables  Flowmeter Regulator (Gas hose sold separately)  TIG welding remote  Heavy-duty foot current/contactor control  Wireless foot current/contactor control  Wireless foot current/contactor control  For mechanized systems  See page 6  See page 7 for drive rolls, inlet guides and intermediate guides  Torrect Regulator (Gas hose sold separately)  194738	Spool Covers			· · · · · · · · · · · · · · · · · · ·		
DSS-9 Dual Schedule Switch  RPBS-14 On-Off Switch Remote  RFCS-14 HD Remote Control  Wireless Remote Foot Control  Foot Control Bracket  PipeWorx Remote Feeder Interface w/Gun Triggers and Cable  PipeWorx Memory Cards  Wire Feeder Consumables  Flowmeter Regulator (Gas hose sold separately)  DSS-9 Dual Schedule Switch  O71833  Used to change weld parameters during welding  TIG welding remote  Wireless foot current/contactor control  Wireless foot current/contactor control  Holds RFCS-14 HD remote foot control or wireless remote foot control  For mechanized systems  See page 6  See page 7 for drive rolls, inlet guides and intermediate guides	Reel Covers					
RPBS-14 On-Off Switch Remote  RFCS-14 HD Remote Control  Wireless Remote Foot Control  301589  Wireless foot current/contactor control  Wireless foot current/contactor control  Foot Control Bracket  PipeWorx Remote Feeder Interface w/Gun Triggers and Cable  PipeWorx Memory Cards  Wire Feeder Consumables  See page 6  Wire Feeder Consumables  Flowmeter Regulator (Gas hose sold separately)  TIG welding remote  Heavy-duty foot current/contactor control  Wireless foot current/contactor control  For mechanized systems  See page 6  See page 7 for drive rolls, inlet guides and intermediate guides	Wire Reel Assembly			, -,		
RFCS-14 HD Remote Control  Wireless Remote Foot Control  301589  Wireless Remote Foot Control  301580  Wireless foot current/contactor control  Foot Control Bracket  300676  Holds RFCS-14 HD remote foot control or wireless remote foot control  PipeWorx Remote Feeder Interface w/Gun Triggers and Cable  7 For mechanized systems  PipeWorx Memory Cards  See page 6  Wire Feeder Consumables  See page 7 for drive rolls, inlet guides and intermediate guides  Flowmeter Regulator (Gas hose sold separately)  194738						
Wireless Remote Foot Control  301580 Wireless foot current/contactor control  Foot Control Bracket  300676 Holds RFCS-14 HD remote foot control or wireless remote foot control  PipeWorx Remote Feeder Interface w/Gun Triggers and Cable  PipeWorx Memory Cards  See page 6  Wire Feeder Consumables  Flowmeter Regulator (Gas hose sold separately)  194738  Wireless foot current/contactor control  For mechanized systems  See page 7  See page 8  See page 7  See page 7  See page 8  See page 7  See page 8  See page 8  See page 7  See page 8  See page 8  See page 7  See page 8  See page 7  See page 8  See page				-		
Foot Control Bracket  PipeWorx Remote Feeder Interface w/Gun Triggers and Cable  PipeWorx Memory Cards  Wire Feeder Consumables  Flowmeter Regulator (Gas hose sold separately)  300676  Holds RFCS-14 HD remote foot control or wireless remote foot control  For mechanized systems  See page 6  See page 7 for drive rolls, inlet guides and intermediate guides					-	
PipeWorx Remote Feeder Interface w/Gun Triggers and Cable 300597 For mechanized systems  PipeWorx Memory Cards See page 6  Wire Feeder Consumables See page 7 for drive rolls, inlet guides and intermediate guides  Flowmeter Regulator (Gas hose sold separately) 194738						
PipeWorx Memory Cards See page 6 Wire Feeder Consumables See page 7 for drive rolls, inlet guides and intermediate guides Flowmeter Regulator (Gas hose sold separately)  194738					-	
Wire Feeder Consumables See page 7 for drive rolls, inlet guides and intermediate guides Flowmeter Regulator (Gas hose sold separately) 194738			300597		-	
Flowmeter Regulator (Gas hose sold separately) 194738				· -	-	
			10//739	Joe page 7 for universities, milet guides and intermediate guides		
	Gas Hose	is nose solu separately)	144108	5 ft. (1.5 m)		

Date: Total Quoted Price:

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