



2026 Equipment Catalog

WELDING & CUTTING SOLUTIONS





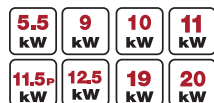


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Output Icons

Auxiliary power output



Alternating current welding output



Direct current welding output



Air Pressure and Flow



For constant current stick and TIG processes



Alternating or direct current welding output



2-Roll Wire Feeder



For constant voltage MIG, flux-cored and subarc processes



Battery powered



4-Roll Wire Feeder



For multiprocess constant current or constant voltage applications

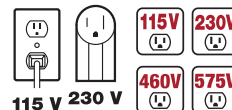


Input Icons

Input Power Voltage



Input Voltage



Input Power



Input Power



Engine Driven: Diesel, Gas or LPG



CrossLinc®



Warranty Commitment

INDUSTRY LEADING
5-YEAR
STANDARD
WARRANTY



2YEAR
EXTENDED
WARRANTY



Product Warranty

You have a right to expect that the welding and cutting equipment, electrode and flux you purchase will be free of defects in workmanship and material. Standing behind the high quality of our products, Lincoln Electric's warranty commitment to its customers leads the industry in breadth and scope.

For example, our limited warranty extends to 7 Years on many of our main power rectifiers. With few exceptions, all industrial welders and power sources carry a full 3 Year Lincoln Electric warranty. Electrode, wire and flux are warranted for 1 full year, as are environmental systems.

Extended Warranty Available

If you choose, you can extend the duration of the Lincoln Electric warranty on your Lincoln Electric industrial welder and cutting machines by two years with the Lincoln Electric Extended Warranty. Available only in the United States and Canada. Visit our web site for more information.

Quality Systems

Choose welding suppliers wisely. Look for third party certifications on the companies and products you select. In fact, some of your projects or customers may require it. Many Lincoln Electric manufacturing sites have been inspected and registered to the world's ISO standards. Lincoln Electric was the first welding manufacturer to be registered to the tough ISO 9001 and 14001 standards.

However, there's more. Equipment destined for harsh environments are often tested to IP21, IP23 and IP23S standards. Products intended for the Canadian market meet stringent CSA (Canadian Standards Association) standards. Electrode is tested to comply with AWS (American Welding Society) and often ASME Boiler Pressure codes, ABS (American Bureau of Shipping), CWB/CSA (Canadian Welding Bureau) and MIL qualifications. Certificates of Conformance are available at our web site.

Operator Manuals and Replacement Parts Lists

Service Navigator - Electronic Parts Catalog

Quickly navigate to service documentation for a particular machine by utilizing the code number filter. Accessing all of the product information you need is just a click away - operator's manuals, parts lists and more at parts.lincolnelectric.com.

CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, cutting equipment and EV charging systems. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment, or to provide engineering advice in relation to a specific situation or application. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the definition of specifications, and the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.

Availability and/or specifications of products listed in this catalog are subject to change at any time without notice.



ADVANCED PROCESS WELDERS

MODEL	OUTPUT			PROCESS												INPUT		FEATURES		
	Mode	Polarity	Current Range [Amps]	Stick	TIG	Smart Pulse®	AC/DC TIG	MIG	STT® MIG	HyperFill™	AC MIG	Pulsed MIG	Low Fume Pulse™	Flux-Cored	Arc Gouge	Phase	Hertz	Waveform Control Technology®	ArcLink® Digital Communication	Inverter Efficiency
PIPEFAB®	CC/CV	DC	5-400	●	●	●		●	●	●		●	●	●	●	3	50/60	●	●	●
Power Wave® 300C Advanced	CC/CV	AC/DC	5-350	●	●	●	●	●	●		●	●	●	●	●	1,3	50/60	●	●	●
Power Wave® S350	CC/CV	DC	5-350	●	●		○	●	○		○	●		●		1,3	50/60	●	●	●
Power Wave® R450	CC/CV	DC	5-550		●		○	●	●	●	○	●	○	●		3	50/60	●	●	●
Power Wave® S500	CC/CV	DC	5-550	●	●		○	●	○	●	○	●	○	●	●	3	50/60	●	●	●
Power Wave® S700	CC/CV	DC	20-900	●	●			●		●		●		●	●	3	50/60	●	●	●
Power Wave® Advanced Module	CC/CV	AC/DC	NA				●		●		●		●			NA	NA	●	●	●
Power Wave® STT® Module	STT®	DC	NA						●				●			NA	NA	●	●	●

KEY: ● Excellent ● Good ● Optional

PIPEFAB®

The Ideal Setup for Pipe & Vessel Fabrication

- Breakthrough arc performance with weld modes fine-tuned for pipe and vessel fabrication
- Straightforward and simple control with digital user interface and one-click process selection
- Ready-to-Run™ design and Cable View™ technology to monitor cable inductance
- Industry-leading 5-year warranty



Processes

- Stick
- TIG
- MIG
- STT® MIG
- Pulsed MIG
- Flux-Cored
- HyperFill™
- Low Fume Pulse™

Output



Input



Literature

E5.13

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output: Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	H x W x D in (mm)	Net Wt lb (kg)
PIPEFAB® Power Source	K3731-1	200-208/220-230/380-415/460/575	STICK: 55-400A/36V/100% MIG: 40-400A/26V/100% FLUX-CORED: 40-400A/26V/100% TIG: 5-400A/26V100%	53/46/26/24/19	5-400A	22.1 x 17.5 x 34.8 (561.3 x 444.5 x 883.9)	206.5 (93.7)
Feeder	K3735-1	40V DC				14.5 in x 22 in x 30.2 (368.3 x 558.8 x 767)	80 (36.3)
Ready-Pak®	K3734-1	—				43.5 x 30.9 x 48.5 (1104.9 x 784.9 x 1231.9)	340 (154.2)

Power Wave® 300C

The Ultimate All-In-One Machine

- Best-In-Class 300A 100% Duty Cycle Performance
- True all-process versatility including advanced weld modes, integrated high frequency and AC/DC capabilities
- Intelligent, operator-focused interface and powerful Industry 4.0 capabilities including CheckPoint® Production Monitoring
- PowerConnect® Technology allows for 200V-600V input power while maintaining consistent and reliable arc performance



Processes

- Stick
- AC TIG*
- DC TIG
- MIG
- STT® MIG*
- AC MIG*
- Pulsed MIG
- Low Fume Pulse**
- Flux-Cored

Output



Input



Literature

E5.102

Product Name	Product Number	Input Power Voltage /Phase/Hertz	Output Range	Rated Output: Current/Voltage/Duty Cycle	Input Current @ Rated Output	H x W x D in (mm)	Net Wt lb (kg)
Power Wave® 300C Standard	K4487-1	208/230/400/460/ 575/1/3/50/60	5-350A	GMAW: 350A / 31.5 V / 40% GMAW: 300A / 29 V / 100%	39/35/22/18/14.5 (57/52/NA/32/NA)	39.7 x 39.4 x 20.5 (1008 x 1001 x 521)	194 [88]
Advanced	K4488-1			SMAW: 325A / 33V / 40% SMAW: 280A / 31.2V / 100%	44/40/25/20/16.5 (61/58/NA/34/NA)		214 [97]
Advanced Education One-Pak®	K4934-1			FCAW: 350A / 31.5 V / 40% FCAW: 300A / 29 V / 100% GTAW: 350A/24V/40% GTAW: 300A / 22V / 100%			259 [118]

*Only available on the Power Wave® 300C Advanced (K4488-1).

Power Wave® S350

Portable, Powerful, Multi-Process

- Equipped with a complete portfolio of high-performance wave forms, providing extensive flexibility
- Comes standard with Power Wave® Manager, Precision Pulse™ and CableView™ Technology
- CheckPoint™ software allows you to track equipment usage, store weld data, configure fault limits and more
- Hibernation Mode reduces energy use by powering down the buck-boost circuit during inactivity
- Meets new EU efficiency standards, resulting in lower idle watt consumption and improved overall energy efficiency



Processes

- Stick
- DC TIG
- Pulsed DC TIG
- MIG
- Pulsed MIG
- Flux-Cored

Output



Input



Literature

E5.110

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output: Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	H x W x D in (mm)	Net Wt lb (kg)
Power Wave® S350 Advanced Base Model	K2823-3	208/230/380-415/460/575/1/3/50/60	GMAW: 350A/31.5V/40% ^[1] 300A/29V/100%	3-Ph/40% Duty Cycle: 39/35/19/17/14A	5-350A ^[3]	20.40 x 14 x 24.80 (518 x 356 x 630)	85 (38.6)
Ready-Pak® [Steel]	K3005-3		SMAW: 325A/33V/40% ^[1] 250A/30V/100%	3-Ph/100% Duty Cycle: 31/28/15/14/11A		52 x 39 x 26 (1321 x 991 x 660)	450 (204.1)
Air Cooled Magnum® PRO Pistol Grip Aluminum 25 ft (7.6 m) One-Pak®	K3553-1		GTAW-DC: 350A/24V/40% 300A/22V/100%	1-Ph/40% Duty Cycle: 60/67 ^[2] /na/na/na			
Water Cooled Magnum® PRO Pistol Grip Aluminum 25 ft (7.6 m) One-Pak®	K3554-1			1-Ph/100% Duty Cycle: 60/53/na/na/na			

^[1]230 Volt/1 Phase inputs, the peak rating is at 30% duty cycle, except for GTAW. ^[2]Based on the U.S. National Electrical Code. ^[3]On 208 Volt inputs, the maximum output is limited to 300 amps.



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Power Wave® R450

Industry's Most Capable 450A Robotic Power Source

- Fastest cycle times made possible with the world's fastest robotic interface - ArcLink®
- Track essential welding data with Lincoln Electric's CheckPoint® production monitoring solution
- High-performance pulse wave forms, including RapidArc®, Precision Pulse™, Pulse-on-Pulse™ and others
- Flexibility to add or connect modules, fume control, water coolers, computers or other accessories



Shown: Power Wave® R450 w/ Wi-Fi & Bluetooth

Processes

- TIG
- Pulsed TIG
- MIG
- Pulsed MIG
- Flux-Cored
- HyperFill™
- Low Fume Pulse™* (R450)

Output



Input



Literature

E5.171 (Power Wave® R450)

*NOTE:
w/Use of STT® or Advanced Module

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output: Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	H x W x D in (mm)	Net Wt lb (kg)
Power Wave® R450 Base Model	K3451-1	208/230/308-415/460/575/3/50/60	GMAW: 550A/41.5V/40% 450A/36.5V/100%	3-Ph/40% Duty Cycle: 80/73/41/37/29A	5-550A	22.5 x 14 x 24.8 (571 x 355 x 630)	150 (68)
with Wi-Fi and Bluetooth	K3451-2	208/230/1/50/60 ⁽⁴⁾	GTAW-DC: 550A/32V/40% 450A/28V/100%	3-Ph/100% Duty Cycle: 60/54/30/27/21A			
AutoDrive® 19 Controller	K3004-2	40V DC/1.0A	NA	NA	NA	8.8 x 10.4 x 3.1 (224 x 264 x 80)	7 (3.2)
AutoDrive® 19 Tandem Controller	K3171-1	40V DC/1.0A	NA	NA	NA	8.8 x 10.4 x 3.1 (224 x 264 x 80)	7 (3.2)

⁽⁴⁾ Single phase rating has reduced output characteristics. Contact Lincoln Electric for more information



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Power Wave® S500

Multi-Process Power and Versatility

- Equipped with a complete portfolio of high-performance wave forms, providing flexibility to tackle any welding application
- Comes standard with Power Wave® Manager software tools, simplifying welding setup and operation
- CheckPoint™ software allows you to track equipment usage, store weld data, configure fault limits and more
- Compact and durable case is IP23-rated to withstand harsh environments



Processes

- Stick
- DC TIG
- Pulsed DC TIG
- MIG
- Pulsed MIG
- Flux-Cored
- HyperFill™
- *Low Fume Pulse™

Output



Input



Literature

E5.115 and E12.360

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output: Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	H x W x D in (mm)	Net Wt lb (kg)
Power Wave® S500 Base Model	K2904-1	200/208/220/230/380/400/415 460/575/3/50/60	GMAW: 550A/41.5V/40% 450A/36.5V/100%	3-Ph/40% Duty Cycle: 80/73/41/37/29A	5-550A	22.5 x 14 x 24.8 (571 x 355 x 630)	150 (68)
w/Power Feed® 84 Ready-Pak®	K3187-2		SMAW: 550A/42V/40% 450A/38V/100%	3-Ph/100% Duty Cycle: 60/54/30/27/21A		51.7 x 34.4 x 53.4 (1313 x 874 x 1356)	376 (171)
w/Power Feed® 84 One-Pak®	K3186-2		GTAW-DC: 550A/32V/40% 450A/38V/100%			—	—
CE Advanced Process Welder	K3168-1					22.5 x 14 x 24.8 (571 x 355 x 630)	150 (68)
HyperFill® Reveal™ Power Feed® 84 Dual Ready-Pak® Single Cart	K4650-4						450 (204.12)
HyperFill® Reveal™ Power Feed® 84 Single Ready-Pak®	K4650-5						
HyperFill® Reveal™ Power Feed® 84 Dual Ready-Pak® Dual Cart	K4650-6						

*NOTE: w/Use of STT® or Advanced Module



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Power Wave® S700

High Output Power for Automated Environments

- Intended for high amperage, high-duty cycle semiautomatic, hard automation or robotic applications in heavy equipment, transportation and other industries
- Wide input voltage range to accommodate global operations (200-575 VAC, 3 phase, 50/60 Hz voltage)
- Power Wave® Manager and digital ArcLink® Ethernet communication allows for easy system configuration and customization
- Fan-As-Needed™ reduces power consumption by shutting the fan down when it is not needed



Processes

- Stick
- TIG
- MIG
- Pulsed MIG
- Flux-Cored
- SAW
- Tandem MIG®
- Carbon Arc Gouging
- HyperFill™
- HDT

Output



Input



Literature

E5.120

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output: Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	H x W x D in (mm)	Net Wt lb (kg)
Power Wave® S700	K3279-1 ⁽¹⁾	380-415/440-460/500/575/3/50/60	700/44/100% [900A/44/60%]	55/46/42/38A [74/60/56/49A]	20-900A	30.1 x 19.1 x 36.7 [765 x 485 x 932]	385 [175]
CCC	K3279-2						
200V	K3557-1	200/230/3/50/60		106/92A [138/120A]			
CE	K5372-1	380-415/460-480/500/3/50, 50/60		55A/46A/42A/ [72A/60A/54A]			365 [165]

⁽¹⁾Internal filter is required to meet CE conducted emission requirements. K2444-4 CE Filter must be used with K3279-1.

WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

Power Wave® Wireless Connectivity Module

Simplifying Machine Connectivity

- Plant-Wide Connection – Easily connect existing or remote Power Wave® systems for complete visibility to your welding operation
- Quick & Easy Installation – Modular design allows for hassle-free installation without the need for extensive machine downtime
- Local Display - Convenient voltage and amperage metering directly on the power source
- Adds MQTT support for telemetry data collection



Connection

- Wi-Fi 802.11 a/b/g/n (Wi-Fi 1/2/3/4)
- Ethernet

Compatible Power Sources

- Power Wave® S350
- Power Wave® S500
- Power Wave® R450
- Power Wave® S700

Literature

MC18-12

Product Name	Product Number	Connectivity	Encryption
Power Wave® Wireless Connectivity Module	K4352-1	Wi-Fi 802.11 a/b/g/n @ 2.4 GHz and earlier Ethernet Port	WEP WPA WPA2 WPA ENT
For S700 Only	K4352-2		

WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

APEX® 30S Mechanized Controller

Superior Control Systems for Mechanized Welding

- One platform for multiple welding processes including FCAW, GMAW, GTAW, and Hot Wire GTAW
- Extremely precise mechanized welding control for fixed and out-of-position in orbital or flat track applications
- Integrated gas solenoid and flow sensor for reduced footprint and cable clutter
- Intuitive, lightweight pendant provides straightforward operation and provides lowest learning curve in the industry



Processes

- MIG
- Pulsed MIG
- Flux-Cored
- MIG- STT®
- TIG
- Hot Wire GTAW

Output

24 VDC

Input

40 VDC

Literature

E9.624

Product Name	Product Number	Input Power	Dimensions L x W x H in (mm)	Net Wt lb (kg)
APEX® 30S Mechanized Controller	K52217-1	40 VDC	25.33 x 11 x 14.33 (644.4 x 279.4 x 363.2)	36 (16)



WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

Power Wave® Advanced Module

Expand Your Welding Capabilities

- Adds AC waveform control for Pulsed MIG, and Gas Tungsten Arc (TIG) Welding
- Hi-frequency starting for TIG welding capability
- Modular design allows easy connection and fast digital communication with compatible Power Wave® models
- Includes STT® process capability, making this module ideal for automotive, pipe and thin metal applications



Processes

- MIG-STT®
- MIG
- MIG-P
- TIG
- Stick

Output

CC CV STT AC DC

Input

40 VDC

Literature

E5.191

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output: Current/ Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	H x W x D in (mm)	Net Wt lb (kg)
Power Wave® Advanced Module	K3685-1	40V DC	100% Duty Cycle ⁽¹⁾ : 300A @ 32V 40% Duty Cycle ⁽¹⁾ : 350A @ 34V Peak (Max) ⁽¹⁾ : 600A	n/a	n/a	11.5 x 14 x 25 (292 x 356 x 635)	70.5 (32)



WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

Power Wave® STT® Process Module

Add STT® for Exceptional Arc Control

- Add STT® (Surface Tension Transfer®) process capability to any S-Series Power Wave® for enhanced puddle and burnthrough control
- Improve performance on thin metal or critical pipe root pass welding applications
- Modular design allows easy connection and fast digital communication with compatible S-Series Power Wave® models, Power Feed™ wire feeders, and compatible water coolers



Processes

- MIG-STT®
- Low Fume Pulse™ [S500 or R450]

Output



Input



Literature

E5.190

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Rated Output: Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	H x W x D in (cm)	Net Wt lb (kg)
Power Wave® STT® Process Module	K2902-1	40V DC	100% Duty Cycle ⁽¹⁾ : 450A	n/a	n/a	11.5 x 13.9 x 25.4 (29.2 x 35.3 x 64.5)	47 (21.3)
CE Process Module	K2921-1		60% Duty Cycle ⁽¹⁾ : 500A				
			40% Duty Cycle ⁽¹⁾ : 550A				
			Peak [Max] ⁽¹⁾ : 750A				

⁽¹⁾Host welding power source will be limited to these outputs.

⁽¹⁾Dependent on host welding power source output.

⚠ WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

APEX® 30M Mechanized Controller

Portable Orbital Welding

- Portable mechanized control with integrated wire feeder for a lightweight, mobile solution for the shop or the field
- Designed with the patented MAXTRAC® Wire Drive System, for superior wire-feeding performance
- Extremely precise mechanized welding control for fixed and out-of-position applications
- Intuitive, lightweight pendant provides straightforward operation and provides lowest learning curve in the industry



Processes

- MIG
- Pulsed MIG
- Flux-Cored
- MIG – STT®

Output



Input



Literature

E9.623

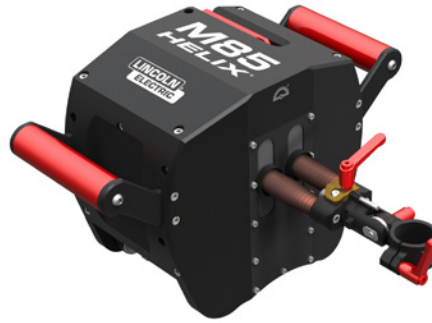
Product Name	Product Number	Input Power	Rated Output Current / Duty Cycle	Wire Feed Speed ipm (m/min)	Wire Spool Size lb (kg)	H x W x D in (mm)	Net Wt lb (kg)
APEX® 30M Mechanized Controller	K52160-1	40VDC	500A / 60% 450A / 100%	30-1200 (76-3048)	10 - 33 (4.5 - 15)	14.4 x 11.0 x 25.4 (366 x 279 x 645)	49 (22)

⚠ WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

HELIX® M85 Weld Head

Next Generation Mechanized Weld Head

- Incorporates digital capabilities in an intuitive, ergonomic design
- Toolless Torch Adjustments: Easily position the torch along three axes with in/out, up/down, and circumferential adjustments
- Lightweight – mounts in seconds to our patented orbital and flat tracks



Processes

- MIG/Flux-Cored
- TIG
- Hot Wire TIG

Input



Literature

E9.616

Product Name	Product Number	Input Voltage	Input Current	Travel Speed ipm (mm)	Clearance in (mm)		Oscillation Stroke in. (mm)	Motorized Height Control Stroke in (mm)	Lead/Lag	Torch Tilt		H x W x D in (mm)
					Radial in. (mm)	Axial in. (mm)				In	Out	
HELIX® M85 Weld Head	K52101-1	24V DC	9A Max	0.1 min-120 max (2.54 min-3048 max)	8.5 (215.9)	19.75 (501.7)	2.00 (50.8)	2.00 (50.8)	360°	60° max	30° max	8.33 x 14.25 x 6.85 (211 x 362 x 174)
APEX® 30M HELIX® M85 MIG Ready-Pak®	K52165-2	40V DC	3PH/40% - 80/73/41/37/29A 3PH/100% - 60/54/30/27/21A									45 x 29 x 45 (1130 x 737 x 1143)
APEX® 30M HELIX® M85 MIG Ready-Pak® CE	K52165-5											
APEX® 30S HELIX® M85 MIG Ready-Pak®	K52257-1	24V AC										36 x 29 x 45 (914 x 737 x 1143)
APEX® 30S HELIX® 30S M85 MIG Ready-Pak® CE	K52257-2											
APEX® 30S HELIX® M85 TIG Ready-Pak®	K52260-1											48 x 29 x 45 (1207 x 737 x 1143)
APEX® 30S HELIX® M85 TIG Ready-Pak® CE	K52260-2											
APEX® 30S HELIX® M85 Hot Wire TIG Ready-Pak®	K52266-1											56 x 32 x 28 (1410 x 813 x 711)
APEX® 30S HELIX® M85 Hot Wire TIG Ready-Pak® CE	K52266-2											



WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

HELIX® M4X™

Precision Track-Based Welding with a Low Profile Head

- Low radial clearance, 4.67 to 6.94 in., depending on the torch configuration
- Utilizing the latest in digital motor control technology, it features consistent performance without the need for manual calibration at startup
- APEX® Auto Height, Auto Sector and Auto Path Technology provides advanced travel speed and true oscillation width/speed control that delivers repeatable welds with minimal setup
- Water Cooled torches help eliminate overheating



Processes

- MIG
- Flux-Cored
- TIG
- Hot Wire TIG

Input



Literature

E9.625

Product Name	Product Number	Input Power	Input Current	Travel Speed in/min (cm/min)	Clearance - in (mm)		Oscillation Stroke in (mm)	Motorized Height Control Stroke	Lead/Lag Range	Torch Tilt		Dimensions H x W x D in (mm)
					Radial in. (mm)	Axial in. (mm)				In	Out	
HELIX® M4X™ Weld Head	K52318-1	24V DC	9A max	0.10 - 100 (0.25 - 254)	GMAW/ FCAW 6.94 (176)	GMAW/ FCAW 13.62 (346)	3.50 (89)	1.90 (48.3)	+/- 15°	18° Max	21° Max	4.84 x 24.93 x 14.27 (123.0 x 633.2 x 362.4)
APEX® 30S MIG Ready-Pak®	K52325-1											
APEX® 30S TIG Ready-Pak®	K52326-1				GTAW 4.67 (119)	GTAW 14.64 (372)						
APEX® 30S Hot Wire TIG Ready-Pak®	K52327-1											

! WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

HELIX® M627 Clamp-On Orbital TIG Weld Head

Mechanized GTAW - Simplified

- APEX® Auto Height, Auto Sector and AutoPilot Technology provides advanced travel speed and true oscillation width/speed control that delivers repeatable welds with minimal setup
- Onboard wire feeder for improved ease-of-use
- Intelligent connectivity with auto calibration on power up
- Low 2.87 in. (72.9 mm) radial clearance
- Water Cooled motor housing and torch helps eliminate overheating



Processes

- TIG
- Pulsed

Output



Input



Literature

E9.63

Product Name	Product Number	Input Power	Travel Speed rpm	Wire Feed Speed ipm (cm/min)	Wire Size Range in (mm)	Clearance - in (mm)		Oscillation Stroke in (mm)	Electrode to Front in (mm)	Dimensions H x W x D in (mm)	Net Wt lb (kg)
						Radial in. (mm)	Axial in. (mm)				
HELIX® M627 Weld Head	K52283-1	24V DC	.04-4.76	3-300 (7.6-762)	0.030-0.045 (0.8-1.2)	2.87 (72.9)	8.32 (211.3)	1.00 (25.4)	0.75 (19.1)	8.32 x 11.4 x 26.0 (211.3 x 289.5 x 660.4)	32 (14.5)
APEX® 30S TIG Ready-Pak®	K52285-1										

! WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

Advanced MIG (GMAW) Processes

Your local Lincoln Electric distributor and Lincoln Electric Technical Sales Representative, backed by our Applications Engineering Department, can help you select the advanced process and equipment that can improve your results. Request a demo to see how we can help reduce costs, enhance quality or increase productivity in your operations.

PROCESS	DESCRIPTION	PRODUCT
CV	Steel, Stainless & Aluminum » CV is the conventional mode for MIG welding. This general purpose MIG welding mode uses constant voltage for short arc, globular and spray transfer.	Power Wave® 300C, S350, R450, S500, S700 PIPEFAB®
STT®	Steel, Stainless & High Nickel » This precision MIG mode delivers premium and consistent root pass results on pipe with low reject rates and excellent gap bridging capabilities. STT® can also be used to reduce spatter and control heat input on sheet metal applications.	Power Wave® 300C*, S350, R450, S500 all w/STT® or Advanced Module PIPEFAB®
AC-STT®	Steel » Based off of the patented STT® process, AC-STT® combines the proven spatter-reducing technology of the STT® waveform with the balanced heat-input characteristics of AC GMAW, producing an advanced shortcircuit process optimized specifically for thin-gauge materials.	Power Wave® 300C*, S350, R450, S500 all w/Advanced Module PIPEFAB®
Pulse	Steel, Stainless, Aluminum & more » Traditional MIG pulse mode uses a pulse for the metal transfer, which avoids a short and allows for a wide operating range, characterized by low to high wire feed speed, many different materials and virtually no spatter.	Power Wave® 300C, S350, R450, S500, S700
Low Fume Pulse™	Steel » Low Fume Pulse™ simplifies the balancing act between weld-fume control and weld floor productivity. Developed to be a win-win solution, this advanced pulsed welding process maximizes arc performance while effectively controlling heat-input.	Power Wave® 300C*, R450, S500 all w/STT® or Advanced Module PIPEFAB®
Smart Pulse®	Steel & Stainless » Enhanced MIG pulse mode that maximizes pulse welding performance and simplicity by auto-adjusting the pulse waveform based on machine settings. Set a low WFS and Smart Pulse® auto-adjusts for a narrow, focused arc. Set a high WFS, Smart Pulse® auto-adjusts for a wide, soft arc.	PIPEFAB® Power Wave® 300C*
Precision Pulse™	Steel & Stainless » This enhanced MIG pulse mode features a tight, focused arc for fast vertical up welding and outstanding out-of-position puddle control.	Power Wave® 300C, S350, R450, S500
Pulse-on-Pulse®	Aluminum » This arc modulation MIG pulse mode can deliver a TIG (GTAW)-like bead appearance.	Power Wave® S350, R450, S500 all w/STT® or Advanced Module
AC Precision Pulse™	Aluminum » With the help of the Power Wave® Advanced Module, GMAW aluminum welding results can be improved over traditional DC positive aluminum MIG welding. By switching the polarity of the arc, heat input is reduced and deposition rates are enhanced.	Power Wave® 300C*, S350, R450, S500 all w/Advanced Module
RapidArc®	Steel & Stainless » RapidArc® is an accelerated MIG pulse mode with a short arc length compared to pulse and CV-spray for high travel speed applications.	Power Wave® 300C, S350, R450, S500, S700
Rapid X®	Steel & Stainless » Rapid X® is a premium MIG pulse mode designed to deliver higher travel speeds and extremely low spatter levels.	Power Wave® 300C*, S350, R450, S500 all w/STT® or Advanced Module
Rapid Z®	Zinc » Rapid Z® is a process designed to increase stability and travel speeds, while reducing spatter and internal porosity on Zinc coated materials.	Power Wave® S350, R450, S500 all w/STT® or Advanced Module
Power Mode®	Steel, Stainless & Aluminum » This enhanced MIG mode can deliver excellent arc stability with reduced spatter at high travel speeds, resulting from an extended short arc range at higher wire feed speed procedures. It also yields a tight and stable arc in spray transfer.	Power Wave® S350, R450, S500 all w/STT® or Advanced Module PIPEFAB®
HyperFill™	Steel » Patented Twin Wire GMAW process designed to increase the usable deposition rate of GMAW operations without the setup difficulty. Process uses two wires but a single power source, single wire feeder, single gun liner and single contact tip.	Power Wave® R450, S500, S700 PIPEFAB®
Synchronized Tandem MIG®	Steel » Synchronized Tandem MIG® overcomes deposition rate limitations of a single wire by using two wires and specific waveforms. The result is deposition rates nearly double rates possible with a single wire as well as faster travel speeds.	

Power Wave® 300C Advanced only. STT® or Advanced Module not necessary.

WELD SEQUENCER™

PROCESS CONTROL SOLUTIONS

Literature
S2.40

Process Control Step-by-Step

Digitally enhance your weld instructions

- Easy-to-follow graphic interface clearly guides operators through each step of the assembly process, simplifying complex work instructions.
- Automatic, step-by-step weld sequencing clearly defines the assembly of each part and placement of each weld, reducing possible quality errors.
- Connects to industrial PLC's for more embedded integration with manufacturing processes.

Easily verify your performance and quality

- On-screen verification provides instant operator feedback, ensuring all welds are present and within operating ranges prior to the assembly leaving the weld cell.
- Weld Sequencer™ automatically syncs with Lincoln Electric's CheckPoint® Production Monitoring solution for real-time production data anywhere in the world, at any time.

Maximum Performance Weld-to-Weld

Optimize your settings for each weld

- Advanced programming provides complete power source control, automatically dialing in the right procedure and parameters for each weld with zero operator interaction – delivering maximum productivity without compromising quality.

INPUT SETTINGS | Standardize Process



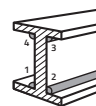
LOCATION OF WELDS
(WITH VISUALS)



WELD
REQUIREMENTS



WELDING
PROCEDURES



WELDING ORDER



PART IDENTIFIERS
(SERIAL NUMBERS &
OPERATOR ID)

REVIEW RESULTS | Information in Real Time



DEPOSITION



MONITOR CYCLE TIME



MONITOR ARC TIME

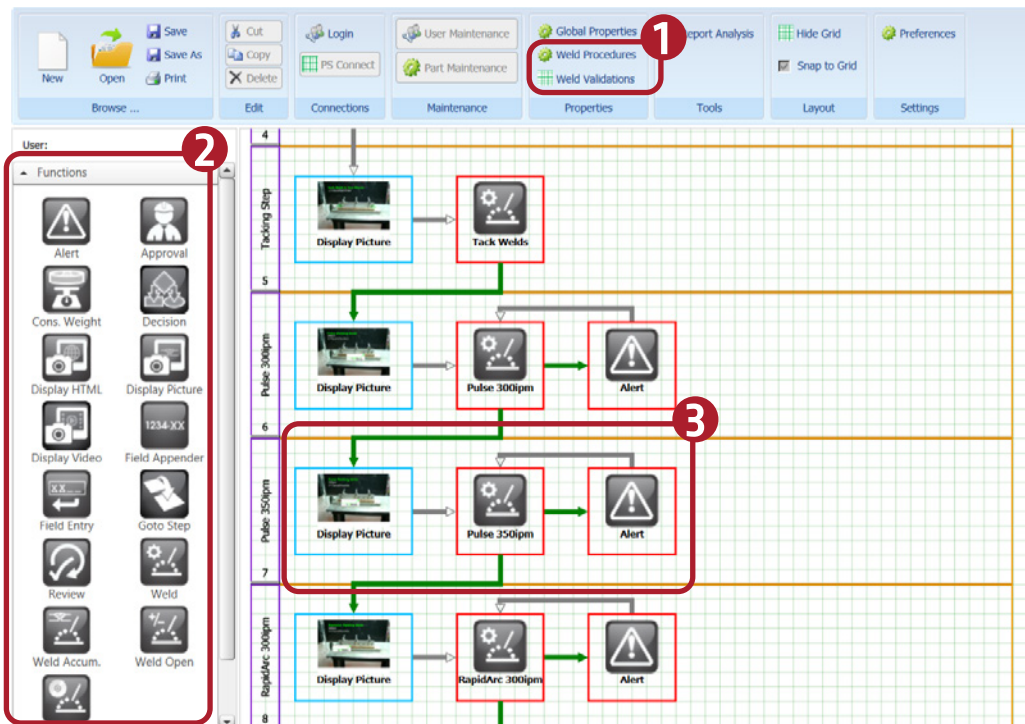


PERFORMANCE
EVALUATION



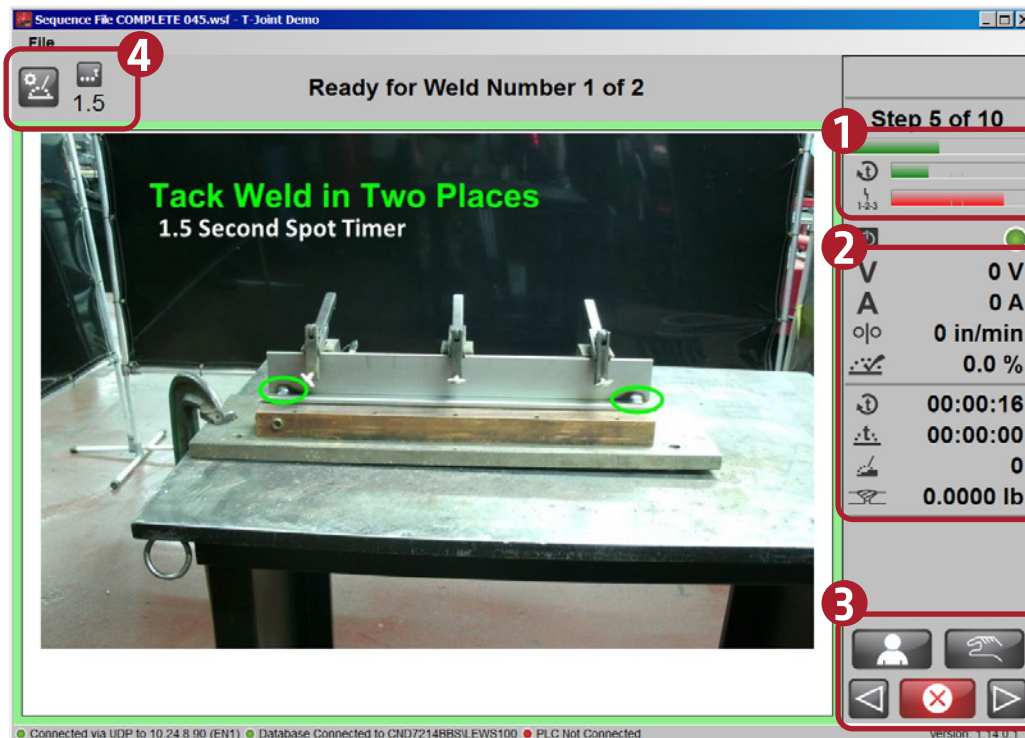
WELD COUNT

Fast, Simple, Intuitive Sequence Creation



1. Build a database of all your weld procedures and welding validations
2. Drag and drop functional blocks for simple programming
3. Intuitive ladder logic flow-chart type sequencing

Simple, Intuitive, Powerful Operator Interface



1. Track part cycle time and performance part to part
2. Real-time parameter feedback for the operator and quality control
3. Navigate the sequence simply by clicking the trigger on ANY welding torch
4. Complete visibility to background settings (like Spot Timer or Pre-flow)

Weld Sequencer™ Initial License (1 Year), Order K5175-1, Weld Sequencer™ Renewal License (1 Year), Order K5176-1

CHECKPOINT®

WELD MONITORING SOFTWARE

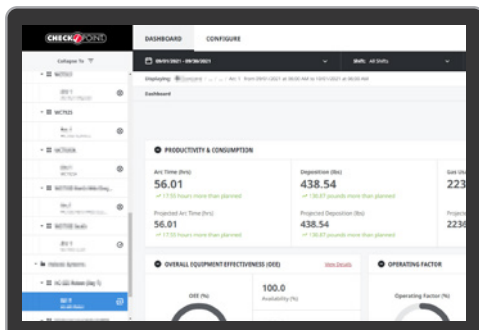
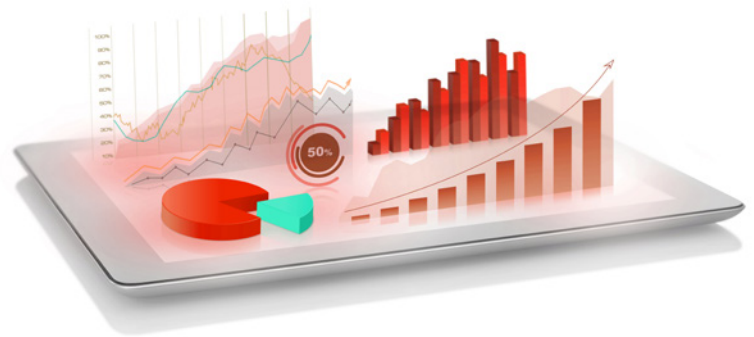
For more information, visit:
<https://promotions.lincolnelectric.com/checkpoint/>

Information that Leads to Solutions™

CheckPoint® is a full production monitoring solution that delivers the precise information you need for maximizing welding productivity and performance

CheckPoint® Data-Drive Quality Assurance:

- Instantly visualizes weld quality across the entire plant
- Sets parameter limits and tracks key weld quality metrics at the station level, whether manual or robotic
- Generates a virtual paper trail, simplifying management's ability to identify the root causes of quality issues



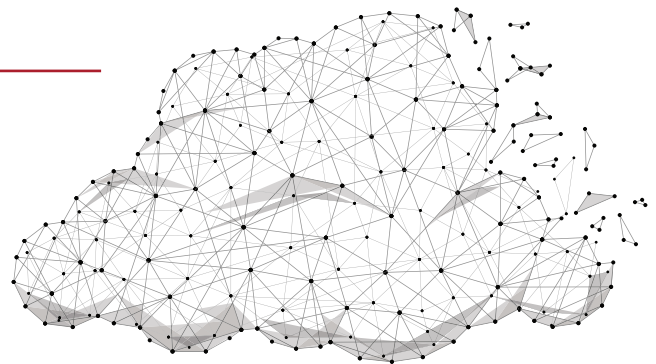
Powerful Data, Quick and Easy

Improved dashboards provide essential, real-time weld data simplifying the visualization of performance metrics and trends that influence welding productivity and efficiency.

Reporting features enable managers to identify throughput trends, directly impacting productivity and efficiency.

Secure, Cloud-Based Platform

- Easily connect and visualize weld data from anywhere, at any time
- Standard, embedded feature with no hidden costs
- No software installation required - access via any web browser
- Simply connect your machine to an existing network



Information for Every Role

Production Foreman

- OEE
- Weld Listing
- Productivity
- Part Tracking

Welding Engineer

- Consumption Metrics
- Operating Metrics
- Personnel Details

Quality Assurance

- Welding Limits
- Non-Conformances
- Part Traceability

What's Included

Base Model/Unit Includes » Some base models include a set of specific standard accessories

One-Pak® » Assembly required

Ready-Pak® » Fully assembled

PIPEFAB®

Ready-Pak® (K3734-1)

- PIPEFAB® Cable Bracket Kit (KP4867-1)
- PIPEFAB® Power Source (K3731-1)
- Work Lead - Lug & GC500 Ground Clamp (2/0, 350A, 60%) - 15 ft. (4.6 m) (K2150-1)
- PIPEFAB® Feeder & 300C Screen Protector (KP4735-1)
- Drive Roll Kit 0.035, 0.045 in. (0.9, 1.2 mm) Solid Wire (KP1505-1)
- PIPEFAB® Feeder (K3735-1)
- PIPEFAB® Dual Bottle Undercarriage (K3736-1)
- Magnum® PRO Curve™ HDE™ 350 Welding Guns (K4532-2-10-45)
- Magnum® PRO Curve™ HDE™ 250 Welding Guns (K4531-2-10-45)
- Magnum® PRO Nozzle - 350A, Thread-on, Flush, 1/2 in. (12.7 mm) ID - 25/pk (KP2742-1-50F-B25)
- Copper Plus® Contact Tip - 350A, Tapered, 0.045 in. (1.2 mm) - 10/pk (KP2744-045T)
- Copper Plus® Contact Tip - 350A, Tapered, 0.035 in. (0.9 mm) - 10/pk (KP2744-035T)
- Magnum® PRO Nozzle - 350A, Thread-on, Flush, 3/8 in. (9.5 mm) ID - 25/pk (KP2742-1-38F-B25)
- Model 355-2Ar-58010 Flowmeter Regulator Shielding Gas Kit (3100211)

Power Wave® 300C

Standard (K4487-1)

- Power Wave® 300C Standard (K4487-1)
- 10 ft. (3.0 m) Input Power Cord
- Magnum® PRO Curve™ 300 Welding Guns (K2951-2-6-45)
- Harris® Flowmeter/Regulator and Hose Kit (3100211)
- 10 ft. (3.0 m) Work Lead (K1803-3)
- Drive Roll Kit Combination 0.035 in. / 0.045 in. (0.9 / 1.1 mm) Solid Wire (KP1696-1)

Advanced (K4488-1)

- Power Wave® 300C Advanced (K4488-1)
- 10 ft. (3.0 m) Input Power Cord
- Magnum® PRO Curve™ 300 Gun Ready-Pak® (K2951-2-6-45)
- Harris® Flowmeter/Regulator and Hose Kit (3100211)
- 10 ft. (3.0 m) Work Lead (K1803-3)
- 0.035/0.045 in. (0.9/1.1 mm) Combination V-Groove Drive Rolls (Included in Wire Drive Assembly) (KP1696-1)

Advanced Educational One-Pak® (K4934-1)

- Power Wave® 300C Advanced (K4488-1)
- 10 ft. (3.0 m) Input Power Cord
- Magnum® PRO Curve™ 300 Gun Ready-Pak® (K2951-2-6-45)
- Harris® Flowmeter/Regulator and Hose Kit (3100211)
- 10 ft. (3.0 m) Work Lead (K1803-3)
- PTA-17F TIG Torch Ready-Pak® 12.5 ft. (3.8 m) 1 pc. (K1782-14)
- Foot Amptrol™ - 25 ft. (7.6 m), 12-pin (K870-2)
- Stick Electrode Holder, Cable (w/Twist Mate™) (K2374-1)
- Drive Roll Kit Combination 0.035 in. / 0.045 in. (0.9 / 1.1 mm) Solid Wire (KP1696-1)

Power Wave® S350

Steel Ready-Pak® (K3005-3)

- Power Wave® S350 (K2823-3)
- Power Feed® 84 Wire Feeder Bench Model (K3328-13)
- 0.035 in. (0.9 mm) Drive Roll and Split Wire Guide Kit (KP1505-035S)
- 0.040 - 0.045 in. (1.0 - 1.2 mm) Drive Roll and Split Wire Guide Kit (KP1505-045S)
- Magnum® PRO Curve™ 400 Gun and Cable Pkg., 15 ft. (4.5 m) (K2952-2-10-45)
- Work & Wire Feeder Power Cables Pkg. (K1803-2)
- Inverter and Wire Feeder Cart (K3059-4)
- Harris® Gas Regulator/Flowmeter & 10 ft. (3.0 m) Hose Kit (3100211)

Air Cooled Magnum® PRO Pistol Grip Aluminum 25 ft. (7.6 m) One-Pak® (K3553-1)

- Power Wave® S350 Advanced Process Welder (K2823-3)
- Power Feed® 25M Plastic Case Wire Feeder (K2536-5)
- Inverter and Wire Feeder Cart (K3059-4)
- Harris® Aluminum Flow/Regulator (3100546)
- Magnum® PRO AL Pistol Grip Push/Pull Air Cooled Gun w/25 ft. (7.6 m) Cable (K3478-2)
- Magnum® PRO Nozzle (KP2743-1-62RA)
- Magnum® PRO Diffuser (KP2747-1A)
- Magnum® PRO Insulator (KP2773-1)
- Drive Roll Kit 3/64 in. (1.2 mm) (KP1695-3/64A)
- Drive Roll Kit 1/16 in. (1.6 mm) (KP1695-1/16A)
- Copper Plus® Contact Tip 3/64 in. (1.2 mm) Tapered (KP2745-364AT) (10/pk)
- Copper Plus® Contact Tip 3/64 in. (1.2 mm) (KP2745-364AT5356) (10/pk)
- Copper Plus® Contact Tip 1/16 in. (1.6 mm) (KP2745-116AT) (10/pk)
- Copper Plus® Contact Tip 1/16 in. (1.6 mm) Tapered (KP2745-116AT5356) (10/pk)
- Work & Wire Feeder Power Cable Pkg. (K1803-2)
- ArcLink® Cable 8 ft. (2.4 m) (K1543-8)



Shown:
PIPEFAB® Ready-Pak® (K3734-1)



Shown:
Power Wave® 300C Advanced
Educational One-Pak® (K4934-1)

What's Included

Base Model/Unit Includes » Some base models include a set of specific standard accessories

One-Pak® » Assembly required

Ready-Pak® » Fully assembled

Water Cooled Magnum® PRO Pistol Grip Aluminum 25 ft. (7.6 m) One-Pak® [K3554-1]

- Power Wave® S350 Advanced Process Welder [K2823-3]
- Power Feed® 25M Semi-Automatic Wire Feeder for Aluminum [K4191-1]
- Inverter and Wire Feeder Cart [K3059-4]
- Harris® Aluminum Flow/Regulator [3100546]
- Water Connection Kit [K590-6]
- Magnum® PRO AL Pistol Grip Push/Pull Water Cooled Gun w/25 ft. (7.6 m) Cable [K3479-2]
- CoolArc® 55 Aluminum Water Cooler [K3086-1]
- Magnum® PRO Coolant [KP3379-4]
- Various Magnum® Gun Accessories
- Drive Roll Kit 3/64 in. (1.2 mm) [KP1695-3/64A]
- Drive Roll Kit 1/16 in. (1.6 mm) [KP1695-1/16A]
- Copper Plus® Contact Tip 550A Aluminum Tapered 3/64 in. (1.2 mm) [KP2745-364AT] (10/pk)
- Copper Plus® Contact Tip 5356 Aluminum 3/64 in. (1.2 mm) [KP2745-364A5356] (10/pk)
- Copper Plus® Contact Tip 550A Aluminum 1/16 in. (1.6 mm) [KP2745-116A] (10/pk)
- Copper Plus® Contact Tip 550A, 5356 Aluminum, Tapered, 1/16 in. (1.6 mm) Tapered [KP2745-116AT5356] (10/pk)
- Work & Wire Feeder Power Cable Pkg. [K1803-2]

Power Wave® S500

Power Feed® 84 One-Pak® [K3186-2]

- Power Wave® S500 [K2904-1]
- Power Feed® 84 Bench Model [K3328-13]
- Drive Roll & Wire Guide Kit 0.040-0.45 in. (1.0-1.1 mm) Solid Wire [KP1505-045S]
- Work Lead Lug & GC500 Ground Clamp (4/0, 600A, 60%) 15 ft. (4.6 m) Package [K2149-1]
- Harris® Gas Regulator/Flowmeter & 10 ft. (3.0 m) Hose Kit [3100211]
- Magnum® PRO Curve™ 400 Gun Pkg., 15 ft. (4.5 m) Cable [K2952-2-10-45]

Power Feed® 84 Ready-Pak® [K3187-2]

- Power Wave® S500 Advanced Process Welder [K2904-1]
- Weld Cable 10 ft. (3 m) [K1842-10]
- Drive Roll Kit 0.040-0.045 in. (1.0-1.1 mm) Solid Wire [KP1505-045S]
- Work Lead - Lug & GC500 Ground Clamp (4/0, 600A, 60%) - 15 ft. (15.3 m) [K2149-1]
- Magnum® PRO Curve™ 400 Welding Guns [K2952-2-10-45]
- Cart for Inverter and Wire Feeder [K3059-4]
- Power Feed® 84 - U/I, Heavy Duty Reel, USB [K3328-13]
- Harris® Model 355-2Ar-58010 Flowmeter Regulator Shielding Gas Kit [3100211]

Power Feed® 84 One-Pak® [K3168-1]

- Power Wave® S500 [K2904-1]
- Power Feed® 84 Bench Model [K3328-13]
- Magnum® PRO Curve™ 400 Gun and Cable Package [K2952-2-10-45]
- 0.040-0.045 in. (1.0-1.1 mm) Drive Roll Kit [KP1505-045S]
- Work Lead Package [K2149-1]
- Harris® Flowmeter Regulator and Hose [3100211]



Shown:
Power Wave® S350 Air Cooled Magnum®
PRO Pistol Grip Aluminum One-Pak®
[K3554-1]



Shown:
Power Wave® Water Cooled Magnum®
PRO Pistol Grip Aluminum One-Pak®
[K3554-1]



Shown:
Power Wave® S500 Power Feed® 84
One-Pak® [K3186-2]



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

What's Included

Base Model/Unit Includes » Some base models include a set of specific standard accessories

One-Pak® » Assembly required

Ready-Pak® » Fully assembled

HyperFill® Reveal™ Power Feed® 84 Dual Ready-Pak® Single Cart (K4650-4)

- Power Wave® S500 (K2904-1)
- Power Feed® 84 Dual Wire Feeder (K3330-3)
- Cool Arc® 55S Water Cooler (K3086-2)
- Magnum® PRO Water Cooled 500A Gun (K4522-2-10-564)
- 7 ft. (2.1 m) Water Hose Kit (K4544-7)
- HyperFill® Dual Reel Cart Kit (K4630-1)
- 4-Ball Inlet Guide (K1551-2)
- HyperFill® 0.035-0.040 in. (0.9-1.0 mm) Drive Roll Kit (KP4388-1)
- HyperFill® 0.035 in. (0.89 mm) Contact Tip (KP4482-035)
- Magnum® PRO Water Cooled Gas Nozzle - Thread-On, 1/8 in. (3.1 mm) Recess, 3/4 in. (19.05 mm) (KP4523-1-75R)
- Cable Liner 1/16-5/64 in. (1.6-2.0 mm) 15 ft. (4.6 m) - 10/pack (KP44-564-15)
- Standard Duty Wire Reel Stand (K3342-1)
- Magnum® PRO Curve™ 300A Gun (K2951-2-10-45)
- Standard 0.040-0.045 in. (1.0-1.1 mm) Drive Roll Kit (KP1505-045S)
- Work Lead - Lug & GC500 Ground Clamp (4/0, 600A, 60%) - 15 ft. (4.6 m) (K2149-1)
- Electrode Cable Lug to Lug (3/0, 600A, 60%) 10 ft. (3.0 m) (K1842-10)
- ArcLink® 5-Pin Control Cable 8 ft. (2.4 m) (K1543-8)
- Inverter and Wire Feeder Cart (K3059-4)
- Gas Y Fitting (KP4773-1)
- Harris® Flowmeter Kit (3100856)
- Gateway Pendant Kit (K4997-1) Includes 5 in. (127 mm) Screen Protector (KP4735-2) and 8 ft. (2.4 m) Control Cable (K1543-8)

HyperFill® Reveal™ Power Feed® 84 Single Ready-Pak® (K4650-5)

- Power Wave® S500 (K2904-1)
- Power Feed® 84 Wire Feeder (K3328-3)
- Cool Arc® 55S Water Cooler (K3086-2)
- Magnum® PRO Water Cooled 500A Gun (K4522-2-10-564)
- 7 ft. (2.1 m) Water Hose Kit (K4544-7)
- HyperFill® Dual Reel Cart Kit (K4630-1)
- 4-Ball Inlet Guide (K1551-2)
- HyperFill® 0.035-0.040 in. (0.9-1.0 mm) Drive Roll Kit (KP4388-1)
- HyperFill® 0.035 in. (0.89 mm) Contact Tip (KP4482-035)
- Magnum® PRO Water Cooled Gas Nozzle - Thread-On, 1/8 in. (3.1 mm) Recess, 3/4 in. (19.05 mm) (KP4523-1-75R)
- Cable Liner 1/16-5/64 in. (1.6-2.0 mm) 15 ft. (4.6 m) - 10/pack (KP44-564-15)
- Work Lead - Lug & GC500 Ground Clamp (4/0, 600A, 60%) - 15 ft. (4.6 m) (K2149-1)
- Weld Power Cable - Lug to Lug (3/0, 600A, 60%) - 10 ft. (3 m) (K1842-10)
- ArcLink® (5-Pin) Control Cable - 8 ft. (2.4 m) (K1543-8)
- Inverter and Wire Feeder Cart (K3059-4)
- Gas Y Fitting (KP4773-1)
- Harris® Flowmeter Kit (3100856)
- Gateway Pendant Kit (K4997-1) (Includes: 5 in. (127 mm) Screen Protector (KP4735-2) and 8 ft. (2.4 m) Control Cable (K1543-8))

HyperFill® Reveal™ Power Feed® 84 Dual Ready-Pak® Dual Cart (K4650-6)

- Power Wave® S500 (K2904-1)
- Power Feed® 84 Dual Wire Feeder (K3330-3)
- Cool Arc® 55S Water Cooler (K3086-2)
- Magnum® PRO Water Cooled 500A Gun (K4522-2-10-564)
- M-F Quick Disconnect 7 ft. (2.1 m) Water Hose Kit (K4544-7)
- HyperFill® Reel Stand Conversion Kit (K4630-1)
- HyperFill® 0.035-0.040 in. (0.9-1.0 mm) Drive Roll Kit (KP4388-1)
- HyperFill® 0.035 in (0.89 mm) Contact Tip (KP4482-035)
- Magnum® PRO Water Cooled Gas Nozzle - Thread-On, 1/8 in. (3.2 mm) Recess, 3/4 in. (19.0 mm) (KP4523-1-75R)
- Cable Liner 1/16-5/64 in. (1.6-2.0 mm) 15 ft. (4.6 m) - 10/pack (KP44-564-15)
- Standard Duty Wire Reel Stand (K3342-1)



Shown:
Power Wave® S500 HyperFill® Reveal™
Power Feed® 84 Dual Ready-Pak® Single
Cart (K4650-4)



Shown:
Power Wave® S500 HyperFill® Reveal™
Power Feed® 84 Dual Ready-Pak® Dual
Cart (K4650-6)



Shown:
Power Wave® S500 HyperFill® Reveal™
Advanced Module (K3685-1)

What's Included

Base Model/Unit Includes » Some base models include a set of specific standard accessories

One-Pak® » Assembly required

Ready-Pak® » Fully assembled

HyperFill® Reveal™ Power Feed® 84 Dual Ready-Pak® Dual Cart (K4650-6) Cont'd

- Magnum® PRO Curve™ 300A Gun (K2951-2-10-45)
- Standard 0.040-0.045 in. (1.0-1.1 mm) Drive Roll Kit (KP1505-045S)
- Work Lead - Lug & GC500 Ground Clamp (4/0, 600A, 60%) - 15 ft. (4.6 m) (K2149-1)
- Weld Power Cable - Lug to Lug (3/0, 600A, 60%) - 10 ft. (3 m) (K1842-10)
- ArcLink® 5-Pin Control Cable - 8 ft. (2.4 m) (K1543-8)
- Inverter and Wire Feeder Cart (K3059-4)
- Gas Y Fitting (KP4773-1)
- Harris® Flowmeter Kit (3100856)
- Gateway Pendant Kit (K4997-1) Includes 5 in. (127 mm) Screen Protector (KP4735-2) and 8 ft. (2.4 m) Control Cable (K1543-8)

Power Wave® Advanced Module

Base Model (K3685-1)

- Power Source Output Pigtail Adapter Cable (Tweco®-style)
- 25 ft. (7.6 m) Remote Voltage Sense Lead
- ArcLink® Output Receptacle
- Differential Input and Output (Sync Tandem Output)
- Shielding Gas Input

Power Wave® STT® Module

Base Model (K2902-1)

- Power Source Output Pigtail Adapter Cable (Tweco®-style)
- Remote Voltage Sense Lead, 25 ft. (7.6 m)

CE Model (K2921-1)

- Power Source Output Pigtail Adapter Cable (Tweco®-Style)
- Remote Voltage Sense Lead 25 ft. (7.6 m)

HELIX® M4X™

Base Model (K52318-1)

- Weld Head with SF70X Feeder
- Pelican Case

APEX® 30S MIG Ready-Pak® (K52325-1)

- HELIX® M4X™ Weld Head
- Power Wave® S500
- APEX® 30S
- CoolArc® 55S
- APEX® Pendant
- Torch with Control Cable
- System Cart

APEX® 30S TIG Ready-Pak® (K52326-1)

- HELIX® M4X™ Weld Head
- Power Wave® S500
- APEX® 30S
- CoolArc® 55S
- APEX® Pendant
- Torch with Control Cable
- System Cart

APEX® 30S Hot Wire TIG Ready-Pak® (K52327-1)

- HELIX® M4X™ Weld Head
- Power Wave® S500 (x2)
- APEX® 30S
- CoolArc® 55S
- Power Wave® Advanced Module
- APEX® Pendant
- Torch with Control Cable
- System Cart

HELIX® M85 Weld Head

APEX® 30M MIG Ready-Pak® (K52165-2)

- Power Wave® S500 Advanced Process Welder (K2904-1)
- APEX® 30M (K52160-1)
- HELIX® M85 Weld Head (K52101-1)
- APEX® 3 Series MIG Pendant (K52113-1)
- Gun Assembly 550A 15 ft. (4.6 m) (K52106-15)
- APEX® 30M System Cart (K52166-1)
- HELIX® Control Cable 15 ft. (4.6 m) (K52107-15)
- Pendant Cable 25 ft. (7.6 m) (K52130-25)
- ArcLink® Control Cable 8 ft. (2.4 m) (K1543-8)
- Power Cable Twist Mate™ to Lug 8 ft. (2.4 m)

APEX® 30M HELIX® M85 MIG Ready-Pak® CE (K52165-5)

- Power Wave® S500 CE Advanced Process Welder (K3168-1)
- APEX® 30M (K52160-1)
- HELIX® M85 Weld Head (K52101-1)
- APEX® 3 Series MIG Pendant (K52113-1)
- Gun Assembly 550A 15 ft. (4.6 m) (K52106-15)
- APEX® 30M System Cart (K52166-1)
- HELIX® Control Cable 15 ft. (4.6 m) (K52107-15)
- Pendant Cable (K52130-25)
- ArcLink® Control Cable 8 ft. (2.4 m) (K1543-8)
- Weld Cable Twist Mate™ to Lug 10 ft. (K52279-10)
- USB Flash Drive 8GB (S31281)
- APEX® 30M Crate (M23516)



Shown:
APEX® 30S M4X™ TIG Ready-Pak®
(K52326-1)



Shown:
APEX® 30S M4X™ Hot Wire TIG
Ready-Pak® (K52327-1)



Shown:
APEX® 30S HELIX® M85 MIG
Ready-Pak® (K52165-1)



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

What's Included

Base Model/Unit Includes » Some base models include a set of specific standard accessories

One-Pak® » Assembly required

Ready-Pak® » Fully assembled

APEX® 30S MIG Ready-Pak® (K52257-1)

- Power Wave® S500 Advanced Process Welder (K2904-1)
- APEX® 30S Mechanized Controller (K52217-1)
- HELIX® M85 Weld Head (K52101-1)
- HELIX® SF70A-1 M85 Onboard Wire Feeder (K52230-1)
- APEX® 3 Series MIG Pendant (K52113-1)
- Magnum® PRO 550 LP12 Mechanized 25 ft. (7.6 m) Cable Length (K52223-25)
- Inverter and Wire Feeder Cart (K3059-4)
- Pendant Cable 25 ft. (7.6 m) (K52130-25)
- CAM Lock Terminal Adapter (9EM21433-2)

APEX® 30S HELIX® 30S M85 MIG Ready-Pak® CE (K52257-2)

- Power Wave® S500 CE Advanced Process Welder (K3168-1)
- APEX® 30S Mechanized Controller (K52217-1)
- HELIX® M85 Weld Head (K52101-1)
- HELIX® SF70A-1 Onboard Wire Feeder (K52230-1)
- APEX® 3 Series MIG Pendant (K52113-1)
- Magnum® PRO 550 LP12 Mech Twist Mate™ w/Control Cable (K52259-25C)
- Inverter and Wire Feeder Cart (K3059-4)
- Pendant Cable (K52130-25)
- USB Flash Drive 8GB (S31281)
- APEX® 30M Crate (M23516)

APEX® 30S TIG Ready-Pak® (K52260-1)

- Power Wave® S500 Advanced Process Welder (K2904-1)
- APEX® 30S Mechanized Controller (K52217-1)
- HELIX® M85 Weld Head (K52101-1)
- HELIX® SF70A-1 M85 Onboard Wire Feeder (K52230-1)
- APEX® 3 Series TIG Pendant (K52216-1)
- PTW-18M-500 Mechanized TIG Torch w/Cable 25 ft. (7.6 m) (K52229-25)
- Torch Holder Assembly 1.38 in. (35.1 mm) (K52222-138)
- Wire Manipulator Assembly 1 (K52231-1)
- Wire Guide Torch Clamp Kit (K52232-1)
- Cool Arc® 55 S Water Cooler (K3086-2)
- Inverter and Wire Feeder Cart (K3059-4)
- Pendant Cable 25 ft. (7.6 m) (K52130-25)
- CAM Lock Terminal Adapter (9EM21433-2)

APEX® 30S HELIX® M85 TIG Ready-Pak® CE (K52260-2)

- Power Wave® S500 CE Advanced Process Welder (K2904-1)
- APEX® 30S Mechanized Controller (K52217-1)
- HELIX® M85 Weld Head (K52101-1)
- HELIX® SF70A-1 Onboard Wire Feeder (K52230-1)
- APEX® 3 Series TIG Pendant (K52216-1)
- PTW-18M-500 TIG Torch w/Control Cable Twist Mate™ 25 ft. (K52261-25C)
- Torch Holder Assembly 1.38 in. (34.9 mm) (K52222-138)
- Wire Manipulator Assembly 1 (K52231-1)
- Barrel Torch
- Wire Guide Torch Clamp Kit (K52232-1)
- Cool Arc® 50 (K14050-1)
- Inverter and Wire Feeder Cart (K3059-4)
- Pendant Cable (K52130-25)
- USB Flash Drive 8GB (S31281)
- APEX® 30M Crate (M23516)

APEX® 30S Hot Wire TIG Ready-Pak® (K52266-1)

- Power Wave® S500 Advanced Process Welder (K2904-1)
- Power Wave® Advanced Module (K3685-1)
- APEX® 30S Mechanized Controller (K52217-1)
- HELIX® M85 Weld Head (K52101-1)
- HELIX® SF70A-1 Onboard Wire Feeder (K52230-1)
- APEX® 3 Series TIG Pendant (K52216-1)
- PTW-18M-500 Mechanized TIG Torch w/Cable 25 ft. (7.6 m) (K52229-25)
- Torch Holder Assembly 1.38 in. (34.9 mm) (K52222-138)
- Wire Manipulator Assembly 1 - Barrel Torch (K52231-1)
- Wire Guide Torch Clamp Kit (K52232-1)
- Cool Arc® 55 S Water Cooler (K3086-2)
- APEX® Lift Cart (K52236-1)
- Pendant Cable 25 ft. (7.6 m) (K52130-25)
- ArcLink® Control Cable - 8 ft. (2.4 m) (K1543-8)
- Hot Wire TIG Sense Lead Adapter (K52228-1)
- Hot Wire Weld Cable 28 ft. (8.53 m)
- CAM Lock Terminal Adapter (9EM21433-2)



Shown:
HELIX® M627 Clamp-On Orbital TIG
Weld Head (K52283-1)



Shown:
APEX® 30S HELIX® M627 TIG
Ready-Pak® (K52285-1)

What's Included

Base Model/Unit Includes » Some base models include a set of specific standard accessories

One-Pak® » Assembly required

Ready-Pak® » Fully assembled

APEX® 30S HELIX® M85 Hot Wire TIG Ready-Pak® CE (K52266-2)

- Power Wave® Advanced Module (K3685-1)
- APEX® 30S Mechanized Controller (K52217-1)
- AL Bridge Kit (K52226-1)
- HELIX® M85 Weld Head (K52101-1)
- HELIX® SF70A-1 Onboard Wire Feeder (K52230-1)
- APEX® 3 Series TIG Pendant (K52216-1)
- PTW-18M-500 TIG Torch W/Control Cable Twist Mate™ 25 ft. (K52261-25C)
- Torch Holder Assembly 1.38 in. (34.9 mm) (K52222-138)
- Wire Manipulator Assembly 1 - Barrel Torch (K52231-1)
- Wire Guide Torch Clamp Kit (K52232-1)
- Cool Arc® 50 (K14050-1)
- APEX® Lift Cart (K52236-1)
- Pendant Cable (K52130-25)
- ArcLink® Control Cable - 8 ft. (2.4 M) (K1543-8)
- Hot Wire TIG Sense Lead Adapter (K52228-1)
- Hot Wire Weld Cable 28 ft. (M23131-28)
- Brass Thin Hex Nut 7/16-20 (S32536)
- USB Flash Drive 8GB (S31281)
- Crate APEX® Systems (M23330)

HELIX® M627

Clamp-On Orbital TIG Weld Head (K52283-1)

- HELIX® M627 Weld Head
- Pelican Case
- HELIX® M Clamp Expendables Kit
- Low Profile TIG Torch
- Low Profile Cable Retainer
- Clamp Shoe 6.625 in. (168.3 mm)
- Clamp Shoe 5.563 in. (141.3 mm)
- Clamp Shoe 4.5 in. (114.3 mm)
- Clamp Shoe 4.0 in. (101.6 mm)
- Clamp Shoe 3.5 in. (88.9 mm)
- Clamp Shoe 2.875 in. (73.0 mm)
- Clamp Shoe 2.375 in. (60.3 mm)
- Clamp Shoe 1.9 in. (48.3 mm)

APEX® 30S TIG Ready-Pak® (K52285-1)

- HELIX® M627 Clamp-on Orbital TIG Weld Head (K52283-1)
- Power Wave® S500 Advanced Process Welder
- APEX® 30S Mechanized Controller
- Cool Arc® 55 S Water Cooler
- APEX® 3 Series TIG Pendant
- HELIX® M627 Weld Head
- Pelican Case
- HELIX® M Clamp Expendables Kit
- Low Profile Cable Retainer
- Clamp Shoe 6.625 in. (168.3 mm)
- Clamp Shoe 5.563 in. (141.3 mm)
- Clamp Shoe 4.5 in. (114.3 mm)
- Clamp Shoe 4.0 in. (101.6 mm)
- Clamp Shoe 3.5 in. (88.9 mm)
- Clamp Shoe 2.875 in. (73.0 mm)
- Clamp Shoe 2.375 in. (60.3 mm)
- Clamp Shoe 1.9 in. (48.3 mm)

Accessories

Product Name	Product No.	Power Wave® 300C	Power Wave® S350	Power Wave® S500	Power Wave® R450	Power Wave® S700
		Base Model	Base Model	Base Model	Base Model	Base Model
		K4487-1	K2823-3	K2904-1	K3451-1	K3297-1
GENERAL						
CanVAS™ Cover Medium	K2378-1	•				
Power Wave® 300C Water Cooler Adapter Kit	K4898-1	•				
Power Wave® 300C and Power MIG® 260/360 MP Canvas Cover	K3675-1	•				
Power Wave® 300C Dual Gas Bottle Upgrade Kit	K4866-1	•				
Inverter and Wire Feeder Cart	K1764-1		•	•		
Inverter and Wire Feeder Cart	K3059-4		•	•		
Power Wave® S700 Cart Mounting Kit	K4991-1					•
Dual Cylinder Inverter and Wire Feeder Cart	K3059-5		•	•		
12-pin to 6-pin Adapter Cable	K2909-1	•	•	•	•	•
12-pin (M) to 7-pin (F) Adapter Cable	K2910-1	•				
Cool Arc® 40 Water Cooler 115/1/50/60	K1813-1	•	•	•	•	•
Cool Arc® 55 Water Cooler	K3086-1		•	•	•	•
Cool Arc® 55 S Water Cooler	K3086-2		•	•	•	•
S-Series User Interface Kit	K3001-2		•	•	•	
115V Auxiliary Power Kit	K2829-1		•			
CE Filter	K2444-4					•
Tweco®-Style Cam-Lock Adapter Plug for 2/0 Cable	K2946-1		•		•	
STT® Sense Lead Kit, 25 ft. (7.6 m)	K940-25	•	•	•	•	•
STT® Sense Lead Kit, 75 ft. (22.9 m)	K940-75	•	•	•	•	•
Heavy Duty Process Sense Lead, 50 ft. (15.2 m)	K1811-50		•	•	•	•
Heavy Duty Process Sense Lead, 100 ft. (30.5 m)	K1811-100		•	•	•	•
Work Lead Package	K2149-1			•	•	•
Coaxial Weld Power Cable (350A), 25 ft. (7.6 m)	K1796-25			•	•	•
Coaxial Weld Power Cable (350A), 50 ft. (15.2 m)	K1796-50			•	•	•
Coaxial Weld Power Cable (300A), 75 ft. (22.9 m)	K1796-75			•	•	•
Coaxial Weld Power Cable (300A), 100 ft. (30.5 m)	K1796-100			•	•	•

• Optional

Accessories

Product Name	Product No.	Power Wave® 300C	Power Wave® S350	Power Wave® S500	Power Wave® R450	Power Wave® S700
		Base Model	Base Model	Base Model	Base Model	Base Model
		K4487-1	K2823-3	K2904-1	K3451-1	K3297-1
TIG						
TIG Torches (see E12.150 or Guns and Torches Section)	—	•	•	•		•
Foot Amptrol 12-pin 25 ft. (7.6 m)	K870-2	•	•	•		
Hand Amptrol 12-pin 25 ft. (7.6 m)	K963-4	•	•	•		
TIG Torch Twist Mate™ to Stud Adapter Cable, 2 ft. (0.61 m) Gas Hose	K2505-3	•				
Tweco® Air Cooled Adapter	K1622-6		•			
Tweco®-Style Cam Lock Adapter, 26 Series Torches	K960-3		•			
Tweco®-Style Cam Lock Adapter, 17 Series Torches	K960-4		•			
WIRE FEEDER						
Fast-Mate™ Adapter	K489-8	•				
Drive Roll Kit, 0.035 in. (0.9 mm) Aluminum Wire	KP1695-035A	•				
Drive Roll Kit, 3/64 in. (1.2 mm) Aluminum Wire	KP1695-3/64A	•				
AutoDrive® 19 Controller	K3004-2		•	•	•	•
AutoDrive® 19 Tandem Controller	K3171-1			•	•	•
AutoDrive® S Wire Feeder	K4303-2			•	•	•
AutoDrive® SA Push Feeder	K4444-1			•	•	•
AutoDrive® SA Pull Feeder	K4445-1			•	•	•
Power Wave® STT® Module (US/International)	K2902-1		•	•	•	
Power Wave® STT® Module (CE)	K2921-1		•	•	•	
Power Wave® Advanced Module	K3685-1		•	•	•	
Water Cooler Hoses (CGA to CGA)	K1859-2	•	•	•	•	•
Water Connection Kit	K590-6				•	•

• Optional

Accessories

Product Name	Product No.	PIPEFAB® Power Source					
		Base Model	Base Model	Base Model	Base Model	Base Model	Base Model
		K3731-1	K4487-1	K2823-3	K2904-2	K3451-1	K3297-1
MIG							
Magnum® PRO AL FC 225 Air 12-Pin Front Trigger Push-Pull Guns							
12-pin, 15 ft. (4.5 m)	K4797-1		•	•	•		•
12-pin, 25 ft. (7.6 m)	K4797-2		•	•	•		•
12-pin, 35 ft. (10.6 m)	K4797-3		•	•	•		•
12-pin, 50 ft. (15.2 m)	K4797-4		•	•	•		•
Magnum® PRO AL FC 450 Water 12-Pin Front Trigger Push-Pull Guns							
12-pin, 15 ft. (4.5 m)	K4798-1			•	•		•
12-pin, 25 ft. (7.6 m)	K4798-2			•	•		•
12-pin, 35 ft. (10.6 m)	K4798-3			•	•		•
12-pin, 50 ft. (15.2 m)	K4798-4			•	•		•
Magnum® PRO AL Pistol Grip Air Cooled Push-Pull Guns							
12-pin, 15 ft. (4.5 m)	K3478-1		•	•	•		•
12-pin, 25 ft. (7.6 m)	K3478-2		•	•	•		•
12-pin, 35 ft. (10.7 m)	K3478-3		•	•	•		•
Magnum® PRO AL Pistol Grip Water Cooled Push-Pull Guns							
12-pin, 15 ft. (4.5 m)	K3479-1			•	•		•
12-pin, 25 ft. (7.6 m)	K3479-2			•	•		•
Cougar™ Air Cooled Push-Pull Gun, 7-pin, 25 ft. (7.6 m)	K2704-2		•				
Cougar™ Air Cooled Push-Pull Gun, 7-pin, 50 ft. (15.2 m)	K2704-3		•				
PIPEFAB® Connectivity Hub	K4720	•					
PIPEFAB® Feeder HyperFill® Reel Stand	K4793-1	•					
PIPEFAB® Dual Bottle Undercarriage	K3736-1	•					
PIPEFAB® Feeder Caster Kit	K4728-1	•					
PIPEFAB® Remote UI	K3738-1	•					
SPOOL GUN							
Magnum® PRO 250LX™ GT Spool Gun	K3569-2		•				
2-YEAR EXTENDED WARRANTY AVAILABLE	—		•	•	•	•	•



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