

MAGNUM[®] PRO BARREL 500 WATER-COOLED WELDING GUNS

IMPROVING COMFORT AND PERFORMANCE



KEY FEATURES

The Magnum PRO Barrel Water-Cooled Guns are built to tackle high-heat applications while maintaining operator comfort.

- **100% Duty Cycle** – These 500A guns run at 100% duty cycle using 90/10 mixed gas, making them ideal for high heat applications.
- **Premium Tip Performance** – The large diameter and mass of the Magnum PRO Copper Plus[®] contact tips help disperse heat and keep the tips cooler, expanding their life.
- **Expendables Built for High Heat** – The 500A water-cooled gooseneck design keeps the nozzle cool in high amperage applications.
- **Over-Molded Handle Design** – The soft rubber over molding enhances comfort and allows for an easier grip of the gun.
- **Dual Procedure Capability** – The Magnum PRO Barrel Water-Cooled Guns with Dual Procedure switch allow customer to switch welding procedures on the fly!

Processes »

MIG, Pulsed MIG, FCAW

Output »



Input »



Product Numbers »

See product specifications table for details

WHAT'S INCLUDED?

- KP4526-60L3 – 60° Extended Length Gun Tube
- KP4380-1 – Diffuser
- KP2745-045 – Contact Tip
- KP4523-1-75R – 1/8 in. Recessed 3/4 in. ID Nozzle
- Cable Liner – See Table on Pg. 4

ROBUST, HIGH DUTY CYCLE GUNS

The Magnum PRO Barrel Water-Cooled guns are built for high heat applications. Their 100% mixed gas duty cycle at 500A improves expendable life while maintaining operator comfort.

Higher duty cycle results in:



Longer-lasting expendables



Less frequent gun and expendable replacement



Cooler and more comfortable in the operator's hand

HYPERFILL® SOLUTION



The Magnum PRO Barrel Water-Cooled guns are a great solution for welding with HyperFill. Their high duty cycle and focus on operator comfort makes them ideal for the high heat application.

BENEFITS

- Increases productivity
- Focuses on operator comfort

DUAL PROCEDURE CAPABILITY

The Magnum PRO Barrel Water-Cooled guns with Dual Procedure Switch save time by providing the option to switch weld procedures at the gun instead of at the machine.

BENEFITS

- Reduces downtime
- Procedure control
- Increases productivity



TOP TRIGGER HANDLE DESIGN



The Magnum PRO Barrel Water-Cooled guns include the new top trigger style handle. This new design gives operators versatility in how they position the gun.

POPULAR TECHNIQUE

By placing the weld cable over the dominant shoulder, the welding operator can engage the trigger by using the pinky finger. This enables the operator to take some of the weight of the welding gun off of the wrist and onto the shoulder.

BENEFITS

- Operator comfort
- Improves ergonomics
- Reduces fatigue

ENHANCED REACH

The Magnum PRO Barrel Water-Cooled guns come standard with the extended length Magnum PRO water cooled gun tubes. These provide an extra 3 in. (76.2 mm) to the front of the gun.

BENEFITS

- Better visibility
- Increases operator comfort
- Reduces exposure to heat



OPERATOR COMFORT

The Magnum PRO Barrel Water-Cooled guns are designed with operator comfort in mind. The over-molded handle allows for a secure grip of the gun and is easier for the operator to control.

BENEFITS

- Increases comfort
- Enhances grip
- Reduces hand fatigue
- Improves control of the weld



EXPENDABLE PARTS

CONTACT TIPS, 550A

Wire Diameter, in (mm)	Standard, Quantity 10	Standard, Quantity 100	Extended Life, Quantity 10	Extended Life, Quantity 100
0.035 (0.9)	KP2745-035	KP2745-035-B100	KP2745-035R	KP2745-035R-B100
0.040 (1.0)	KP2745-040	KP2745-040-B100	KP2745-040R	KP2745-040R-B100
0.045 (1.2)	KP2745-045	KP2745-045-B100	KP2745-045R	KP2745-045R-B100
0.052 (1.3)	KP2745-052	KP2745-052-B100	KP2745-052R	KP2745-052R-B100
1/16 (1.6)	KP2745-116	KP2745-116-B100	KP2745-116R	KP2745-116R-B100
0.068-0.072 (1.7-1.8)	KP2745-072	KP2745-072-B100	KP2745-072R	KP2745-072R-B100
5/64 (2.0)	KP2745-564	KP2745-564-B100	KP2745-564R	KP2745-564R-B100

CONTACT TIPS, HYPERFILL

Wire Diameter, in (mm)	Standard, Quantity 10	Standard, Quantity 100
0.035 (0.9)	KP4482-035	KP4482-035-B100
0.040 (1.0)	KP4482-040	KP4482-040-B100
0.045 (1.2)	KP4482-045	KP4482-045-B100

DIFFUSERS

Quantity	Product Number
1	KP4380-1
25	KP4380-1-B25

GUN TUBES

Description	Degree	Product Number
Water Cooled, 500A	45°	KP4526-45
Water Cooled, 500A	60°	KP4526-60
Water Cooled, 500A Extended Length	45°	KP4526-45L3
Water Cooled, 500A Extended Length	60°	KP4526-60L3

HYPERFILL DIFFUSERS

Quantity	Product Number
1	KP4481-1
25	KP4481-1-B25

NOZZLES

Nozzle Type	Quantity	5/8 in (16 mm) ID	1/2 in (12.5 mm) ID	3/4 in (19 mm) ID
1/8 in (3.2 mm) Recess	1	KP4523-1-62R	KP4523-1-50R	KP4523-1-75R
	25	KP4523-1-62R-B25	KP4523-1-50R-B25	KP4523-1-75R-B25
Flush	1	KP4523-1-62F	KP4523-1-50F	KP4523-1-75F
	25	KP4523-1-62F-B25	KP4523-1-50F-B25	KP4523-1-75F-B25
1/8 in (3.2 mm) Stickout	1	KP4523-1-62S	KP4523-1-50S	KP4523-1-75S
	25	KP2743-1-62S-B25	KP4523-1-50S-B25	KP4523-1-75S-B25

NOTE: More nozzle sizes available at www.lincolnelectric.com

LINERS

Wire Diameter, in (mm)	Product Number	Length ft (m)
0.035-0.045 (0.9-1.2)	KP44-3545-15	15 (4.5)
	KP44-3545-25	25 (7.6)
0.052-1/16 (1.3-1.6)	KP44-116-15	15 (4.5)
	KP44-116-25	25 (7.6)
1/16-5/64 (1.6-2.0)	KP44-564-15	15 (4.5)
	KP44-564-25	25 (7.6)
3/32 (2.4)	KP44-332-15	15 (4.5)
	KP44-332-25	25 (7.6)

EXPENDABLE PARTS, CON'T.

GUN CONNECTOR KITS

Manufacturer	Wire Feeder Model	Product Number
Lincoln Electric®	LN-7™ Series, LN-8™, LN-9™, LN-25® (up to 0.052 in./1.4 mm wire), LN-23P™	K466-1
	LN-8, LN-9 Series, LN-25 [1/16 in./1.6 mm and larger], LN-23P	K466-8
	LF-72™, LF-74™ Series, Flex Feed® 74 HT, Flex Feed 84, LN-25 PRO®, LN-25X®, Activ8®, Activ8X®	K466-10
	Power Feed® 10, 10M, 25M, and 84	K466-10
Tweco® Adapted	No. 2, No. 3, No. 4 Guns	K466-2
Miller®	Intellimatic™, Sidekick™, D-51A, Porto-MIG™ Millermatic® 130, 200, MM-35, S-42GL, S-52A, Swingarc™ Dual, Swingarc Single, S-32S, 52D, 54D, 54E, 60 Series	K466-3

All K466 series connectors are interchangeable on the K4879-X-10-564 and K4880-X-10-564 guns.

RECOMMENDED ACCESSORIES

GENERAL OPTIONS



Cool Arc® 40 Water Cooler

A reliable water cooler available in both 115 and 230 volt models, it is compatible with all Lincoln Electric water-cooled systems. Features an industry standard rugged industrial pump.

Order K1813-1 for 115V/1/50/60

Order K2187-1 for 220-240V/1/50/60



Cool Arc 55 Water Cooler

Designed to integrate with Power Wave® S350 and S500 power sources to cool water-cooled welding guns or torches rated up to 500 amps. 115V/1/60.

Order K3086-1



Cool Arc 55S Water Cooler

The 55S model includes an ArcLink® communication flow sensor that detects water flow to prohibit welding when no flow is present.

Order K3086-2



Shown:
25 ft. (7.6 m) Hose

Water Hose Kit

Hose used to connect the Magnum PRO Water-Cooled Gun to a Cool Arc 55.

Order

K4544-7 for 7 ft. (2.1 m) Hose

K4544-25 for 25 ft. (7.6 m) Hose



Quick Connect Water Adapter

Use with the K4544-7 or K4544-25 to connect the Magnum PRO Water-Cooled Gun to the Cool Arc 40.

Order KP1529-1

PRODUCT SPECIFICATIONS

Product Name	Product Number	Amperage Rating (with Mixed Gas)	Wire Size Range in (mm)	Cable Liner	Back End Connector	Cable Length ft (m)
Magnum PRO Barrel 500 WC Gun	K4879-2-10-564	500A @ 100%	.035-3/32 (0.9-2.4)	KP44-564-15	K466-10	15 (4.5)
	K4879-3-10-564					20 (6.1)
	K4879-4-10-564					25 (7.6)
Magnum PRO Barrel 500 WC Gun - with Dual Procedure Switch	K4880-2-10-564			KP44-564-15		15 (4.5)
	K4880-3-10-564					20 (6.1)
	K4880-4-10-564					25 (7.6)

For best welding results with Lincoln Electric® equipment, always use Lincoln Electric consumables. Visit www.lincolnelectric.com for more details.

CUSTOMER ASSISTANCE POLICY

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