

LN-10 & DH-10

Processes

MIG, Flux-Cored, Pulsed

Product Number

K1559-3 LN-10 Bench Model
K1564-4 LN-10 Boom Package
K1499-3 DH-10 Bench Model
K1521-7 DH-10 Boom Package

Input Power

42 VAC 50/60 Hz 6 Amps

Output Capacity

600A/60%
500A/100%

Wire Size Range

See Back

Wire Feed Speed

See Back

Weight/Dimensions (H x W x D)

LN-10

65 lbs. (29.5 kg)
16 x 15 x 31 in.
(406 x 381 x 787 mm)

DH-10

98 lbs. (44.4 kg)
21 x 20 x 32 in.
(533 x 508 x 813 mm)

See back for complete specs

Single and Double Header Wire Feeders

The LN-10 and the Double Header DH-10 wire feeders are available in both bench and boom mounted versions. The modular designs of the LN-10 and DH-10 allow maximum versatility in today's demanding industrial welding environment.

FEATURES

- ▶ **Rugged drive roll design** - With 4 rolls for positive wire feeding.
- ▶ **Presetable voltage and wire feed speed** - Using large control knobs allows easy adjustment with a gloved hand.
- ▶ **Standard dual procedure for both wire drives** - Selectable at the control box unit, with the optional dual procedure switch, dual schedule Magnum® gun, or with the optional dual procedure remote control.
- ▶ **Cold feed forward and reverse controls** - For safe wire loading/unloading.
- ▶ **Selectable trigger control** - For standard 2 step, interlocking 4 step, spot weld and cold feed trigger control (ideal for booms where cold wire feeding can be done at the gun trigger.)
- ▶ **Five welding process control and timer functions** - preflow gas timer, run-in wire feed speed/voltage control, spot weld timer, burnback control, postflow gas timer.
- ▶ **Security features** - Available to limit welding procedures.



Shown:
K1559-3
LN-10 Bench Model
(Standard Speed)
(shown with optional wire.)

Shown:
K1499-3
DH-10 Bench Model
(shown with optional wire.)

APPLICATIONS

- ▶ Metal Fabrication
- ▶ Maintenance and Repair
- ▶ Autobody/Farm
- ▶ Light Industrial

INPUT



OUTPUT

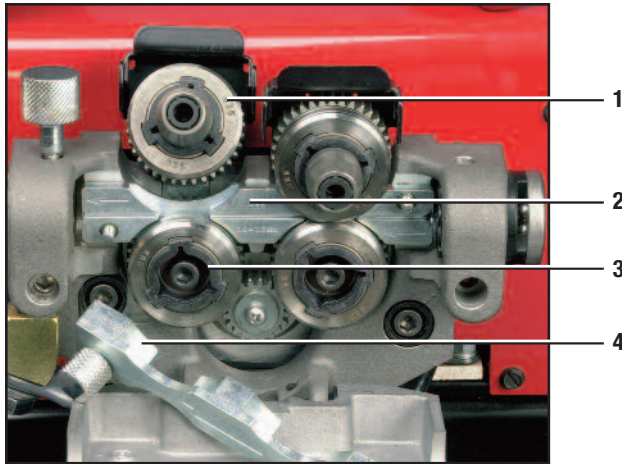


Two Year Extended
Warranty Available in
the U.S.A. and Canada



PERFORMANCE

Wire Drive System



1. Drive Rolls Flip Up for Easy Access
2. Entire Wire Path is Visible for Easy Access
3. Changeable External Gear for Quick Speed Range Change
4. Removable Outer Wire Guide for Easy Access to Wire.
No Tools Required (Patented Split Wire Guide.)

- **Four Gear Driven Rolls** – No tools are required to change rolls.
- **Revolutionary Split Wire Guide** – Precisely aligns and supports wire through the entire system.
- **Two Piece Split Wire Guide** – Provides easy access for inspection, cleaning or wire size changes.
- **Quick Torque / Speed Gear Changes** – Easily convert from low speed / high torque at 35-500 inches per minute (ipm) to high wire feed speed operation (50-750 ipm).

- **Two Separate Drive Systems** – Each DH-10 drive is driven by its own motor and gear box.
- **Incoming Guide Bushings** – Accepts wire guides, straighteners or conduits used with larger pay off wire packages.
- **Gun Receiver Bushings** – Adapt for Lincoln Electric Magnum® or competitive guns. The brass bushings provide easy interchangeability and superior electrical current transfer.

KEY CONTROLS

DH-10 Control Box



1. Adjustable Cold Wire Feed
2. Select Feed Head at Control or with a Trigger Pull (Not available on LN-10)
3. Trigger Mode Selections
4. Welding Process Control and Timer Functions
5. Timer Select Key (Prewflow, Postflow, Spot and Burnback)
6. Run-In Control for Wire Feed Speed and Voltage. Also Wire Feed Speed Acceleration Control.
7. Large, Easy to Use Wire Feed Speed Control
8. Large, Easy to Use Voltage Control
9. Dual Procedure Controls for Each Feeder
10. Large, Easy to Read Digital Meters
11. Standard Lincoln Electric Trigger
12. Electrically Insulated Door

LN-10 Wire Drive System



RECOMMENDED OPTIONS

For Connection Between Power Source and Wire Feeder Control Box (Only One Cable Needed. Included with all LN-10 and DH-10 units.)



Wire Feeder Control Cable
Male 14-pin to female 9-pin.
10 ft. (3.0 m) length. (Included with each LN-10 and DH-10).
Order K1501-10

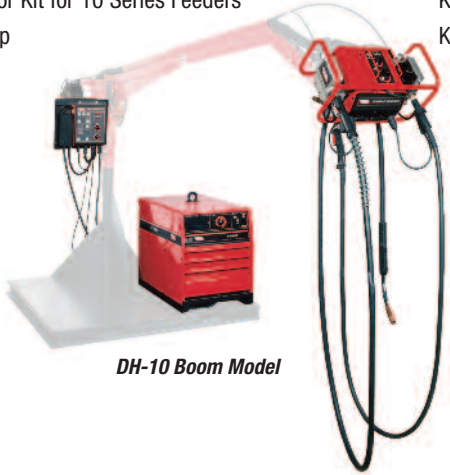
For Connection Between Control Box and Wire Drive (Boom Models Only.)

Male 14-pin to female 14-pin.
Order K1785-12 for 12 ft. (3.6 m)
Order K1785-16 for 16 ft. (4.8 m)
Order K1785-25 for 25 ft. (7.6 m)
Order K1785-50 for 50 ft. (15.2 m)

SYSTEM SELECTION

**CV-655/LN-10 Boom
3/32 FCAW Welding System**

CV-655 (230/460/3/60)	K1480-1
LN-10 Generic 16 ft. Boom Package	K1564-4
Drive Roll Kit - 3/32 in. Cored/Solid	KP1505-3/32
Magnum® 550 Gun, 15 ft., 5/64-3/32	K598-11
Magnum® 550 Gun Adapter	K1500-3
550 Connector Kit for 10 Series Feeders	K613-7
Ground Clamp	K910-2



DH-10 Boom Model

**CV-655/DH-10 Boom
.045 MIG and 3/32 FCAW Welding System**

CV-655 (230/460/3/60)	K1480-1
DH-10 Generic 16 ft. Boom Package	K1521-7
Drive Roll Kit - .045 in. Solid	KP1505-045S
Drive Roll Kit - 3/32 in. Cored/Solid	KP1505-3/32
Magnum® 400 Gun Package, 15 ft., 035-045	K471-21
Magnum® 550 Gun, 15 ft., 5/64-3/32, 600A	K598-11
Magnum® 550 Gun Adapter	K1500-3
550 Connector Kit for 10 Series Feeders	K613-7
Deluxe Adjustable Gas Regulator & Hose (4.3 ft.) Kit	K586-1
Ground Clamp	K910-2

WELD POWER CABLES		
Connection	Description	Order Number
Twist Mate™ to Lug	1/0, 350A, 60% duty cycle, 10 ft (3.0 m)	K1840-10
Twist Mate™ to Twist Mate™	1/0, 350A, 60% duty cycle, 25 ft (7.6 m)	K1841-25
	2/0, 350A, 60% duty cycle, 50 ft (15.2 m)	K1841-50
Lug to Lug	3/0, 600A, 60% duty cycle, 10 ft (3.0 m)	K1842-10
	3/0, 600A, 60% duty cycle, 35 ft (10.6 m)	K1842-35
	3/0, 600A, 60% duty cycle, 60 ft (18.2 m)	K1842-60
	4/0, 600A, 60% duty cycle, 110 ft (33.5 m)	K1842-110

CONTROL EXTENSION CABLES	
Order Number	Description
Wire Feeder Control Extension Cables K1797-10 - 10 ft (3.0 m) K1797-25 - 25 ft (7.6 m) K1797-50 - 50 ft (15.2 m) K1797-100 - 100 ft (30 m)	Male 14-pin to female 14-pin

DRIVE ROLL & WIRE GUIDE KITS	
Description	Order Number
Solid Wire, Smooth V Groove: .023-.030 in (0.6-0.8 mm) .035 in (0.9 mm) .040 in (1.0 mm) .045 in (1.2 mm) .052 in (1.4 mm) 1/16 in (1.6 mm)	KP1505-030S KP1505-035S KP1505-040S KP1505-045S KP1505-052S KP1505-1/16S
Cored Steel Wire, Knurled V Groove: .030-.035 in (0.8-0.9 mm) .040-.045 in (1.0-1.2 mm) .052 in (1.4 mm) 1/16 in (1.6 mm) 7/64 in (2.8 mm) Hardfacing	KP1505-035C KP1505-045C KP1505-052C KP1505-1/16C KP1505-7/64H
Cored or Solid Steel Wire, Knurled V Groove: .068-.072 in (1.8 mm) 5/64 in (2.0 mm) 3/32 in (2.4 mm) 7/64 in (2.8 mm) Cored .120 in (3.2 mm) Cored	KP1505-068 KP1505-5/64 KP1505-3/32 KP1505-7/64 KP1505-120
Aluminum Wire, Smooth U Groove: .035 in (0.9 mm) .040 in (1.0 mm) 3/64 in (1.2 mm) 1/16 in (1.6 mm) 3/32 in (2.4 mm)	KP1507-035A KP1507-040A KP1507-3/64A KP1507-1/16A KP1507-3/32A

FEED PLATE GUN RECEIVER BUSHINGS					
K1500-1 Gun Receiver Bushing (Optional)	K1500-2 Gun Receiver Bushing (Standard)	K1500-3 Gun Receiver Bushing (Optional)	K1500-4 Gun Receiver Bushing (Optional)	K1500-5 Gun Receiver Bushing (Optional)	K489-7 Fast-Mate™ Gun Receiver Bushing (Optional)
Magnum® 200, 300 and 400 gun and cable assemblies with K466-1 connector kit. Lincoln Electric Innershield® gun and cable assembly. Magnum® 550 gun and cable assembly with K613-1 connector kit.	Magnum® 200 and 400 fully assembled guns (K497-2x and K471-2x). Magnum® 200, 300 and 400 gun and cable assemblies with K466-10 connector kit. Guns with Tweco® #2, #3, and #4 connectors.	Magnum® 550 gun and cable assembly with K613-7 connection. Guns with Tweco® #5 connectors.	Magnum® 200, 300 and 400 gun and cable assemblies with K466-3 connector kit.	To adapt to OXO® guns.	Magnum® gun and cable assemblies with Fast-Mate™ connections. Handles both single and dual procedure guns.
					

RECOMMENDED ACCESSORIES



GENERAL OPTIONS

Wire Straightener
Straightens wire for better, smoother feeding.
Order K1733-1



Micro Wire Straightener
Straightens .035 in.-1/16 in. (0.9-1.6 mm) wire for use with portable feeders.
Order K1733-4



Water Connection Kit
Includes quick connect fittings on front and back of wire drive for use with water-cooled guns and Magnum® Coolers. Kit provides for one gun.
Order K590-6



Control Cable to Terminal Strip Adapter
Connects 14-pin control cable to power sources with terminal strip.
Order K1798



Wire Feed Control Cable
Male 14-pin to female 9-pin. 10 ft. (3.0 m) length. (Included with each LN-10 and DH-10).
Order K1501-10



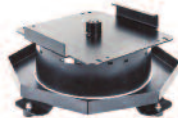
115V/42V Transformer Kit
Provides a way to use the wire feeder on power sources that have 115V AC available on the terminal strip.
Order K1520-1



Insulated Lift Bail
Allows the entire wire feeder to be hung from a crane or hook.
Order K1555-1



Caster Kit — Light Duty
Mounts to the Heavy Duty Wire Reel Stand. Allows for easy movement of wire feeder.
Order K1556-1



Swivel Platform
Mounts to the lift bail on the power source and bottom of the Heavy Duty Wire Reel stand. Wire feeder may be lifted off if needed. Compatible with Light Duty Caster Kit. Includes "lazy susan" parts tray. (For LN-10 only).
Order K1557-1



50-60 lb. Coil Adapter
Adapts 50-60 lb. (22.6-27.2 kg) coils of Lincoln Electric electrode to 2 in. (51 mm) spindle.
Order K1504-1



Wire Reel Cover Kit
Plastic enclosure for up to 44 lb. (20 kg) wire packages.
Order K1634-1



Plastic Wire Cover Kit
Plastic enclosure for up to 60 lb. (27.2 kg) wire packages.
Order K1634-2



14 lb. Innershield® Coil Adapter
Permits 14 lb. (6 kg) Innershield® electrode coils to be mounted on 2 in. (51 mm) O.D. spindles.
Order K435



Undercarriage
Includes mounting frame, front casters, rear wheels and handle for hand towing. For use with Wire Reel Stands. For LN-10 only.
Order K163



Inverter and Wire Feeder Cart
Rear-wheeled cart includes front casters and no-lift gas bottle platform. Convenient handles allow for easy cable storage while full length side trays store parts and tools. Shipped fully assembled. Small footprint fits through 30 inch door.
Order K1764-1



Dual Procedure Switch
Allows the use of two welding procedures with one Lincoln Electric Magnum® gun. 15 ft. (4.5 m).
Order K683-3



Incoming Bushings for Lincoln Conduit
Connects directly to Magnum® plastic conduit (not included), for use in boom systems, long distances, or large payoff packages.
Order K1546-1 for .025-1/16 in.
Order K1546-2 for 1/16-1/8 in.

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Output Capacity	Wire Feed Speed Range ipm (m/min.)	Wire Size Range In. (mm)		H x W x D inches (mm)	Net Weight lbs. (kg)
					Solid	Cored		
LN-10 Bench Model (Standard Speed)	K1559-3	42 VAC 50/60 Hz 6 Amps	600A/60% 500A/100%	35-750 (0.8-19.0)	.023-3/32 (0.6-2.4)	.035-1/8 (0.9-3.2)	16 x 15 x 31 (406 x 381 x 787)	65 (29.5)
LN-10 Generic 16 Ft. Boom Package	K1564-4							
DH-10	K1499-3							
DH-10 Generic 16 Ft. Boom Package	K1521-7			35-750 (0.8-19.0)	.023-3/32 (0.6-2.4)	.030-1/8 (0.8-3.2)	21 x 20 x 32 (533 x 508 x 813)	98 (44.4)

NOTE: All units include 10 ft. (3.0 m) control cable. Boom packages also include a 25 ft. (7.6 m) control cable/welding cable (3/0) assembly.

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

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information 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. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but 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.

LINCOLN
ELECTRIC
THE WELDING EXPERTS®