

# 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.
- ▶ **Presettable 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

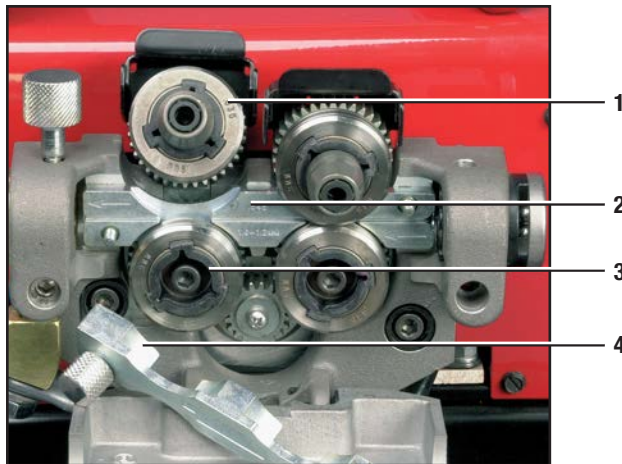


Two Year Extended  
Warranty Available in  
the U.S.A. and Canada



## 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

#### 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) 2/0, 350A, 60% duty cycle, 50 ft (15.2 m)	K1841-25 K1841-50
Lug to Lug	3/0, 600A, 60% duty cycle, 10 ft (3.0 m) 3/0, 600A, 60% duty cycle, 35 ft (10.6 m) 3/0, 600A, 60% duty cycle, 60 ft (18.2 m) 4/0, 600A, 60% duty cycle, 110 ft (33.5 m)	K1842-10 K1842-35 K1842-60 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

### 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

#### DRIVE ROLL & WIRE GUIDE KITS

Description	Order Number
<b>Solid Wire, Smooth V Groove:</b> .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
<b>Cored Steel Wire, Knurled V Groove:</b> .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
<b>Cored or Solid Steel Wire, Knurled V Groove:</b> .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
<b>Aluminum Wire, Smooth U Groove:</b> .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 ADAPTERS

K1500-1	K1500-2	K1500-3	K1500-4	K1500-5	Magnum® PRO Fast-Mate™
Lincoln Electric  Compatible gun connector kits K466-1 K613-1 K613-6 K466-8	Tweco® #2 - #4  Compatible gun connector kits K466-10 K466-2 K466-6	Tweco #5  Compatible gun connector kit K613-7 K613-2	Miller® guns  Compatible gun connector kits K466-3 K613-3	OXO® guns	Compatible gun connector kits K489-1 K489-2 K489-7 K489-8

Tweco® is a registered trademark of Victor Technologies.  
Miller® is a registered trademark of Miller Electric Mfg. Co.  
Oxo® is a registered trademark of Miller Electric Mfg. Co.

## 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)
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)	<b>Solid</b> .023-3/32 (0.6-2.4)	<b>Cored</b> .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			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)
DH-10 Generic 16 Ft. Boom Package	K1521-7							

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](http://www.lincolnelectric.com) for more details.

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**ELECTRIC**  
THE WELDING EXPERTS®