

NEW!
CV-305

When it comes to MIG welding on mild steel, stainless steel, aluminum and alloy materials, you won't find a more reliable workhorse welder in its class. This well-engineered CV power source features dual inductance control - just select one of two using Lincoln Twist-Mate® output connectors to set the right inductance for your application. Use low inductance with 100% CO₂ on mild steel; use high inductance for use on stainless with mixed gas or on heavy materials. Use either terminal for aluminum spray welding with an exceptionally smooth arc and great starts. This unit is the most compact unit in its class, yet it's loaded with convenient features! A digital meter with presettable input voltage, line voltage compensation, a remote *and* local control option, and a 7-year rectifier warranty — what more do you need?



Processes

MIG Flux-Cored

Advantage Lincoln

- Stack them three-high or purchase an affordable package that includes the new LF-72 wire feeder, a Magnum® 400 MIG gun and more!
- Use low inductance with 100% CO₂ on mild steel; use high inductance for use on stainless with mixed gas or on heavy materials. Use either terminal for aluminum spray welding with an exceptionally smooth arc and great starts.
- Compact unit is 20 lbs. (9.0kg) lighter and significantly smaller than competitive models — save your space!
- Easy access Twist-Mate® connections on the front of the machine.
- Digital Ammeter/Voltmeter read-out display allows you to view voltage presets for added convenience and accuracy.
- Environmentally protected transformer and power rectifier are rugged and reliable.
- Three-year warranty on parts and labor; seven-year warranty on power rectifier.

Description

Output **CV** **DC** Input **3** **60**
PHASE Hz

Recommended General Options

Remote Output Control, Remote Control Cable Adapter, Twist-Mate Cable Plug, Jumper Plug Kit, Universal Adapter Plug, Undercarriage

Recommended Wire Feeders

LF-72, LN-7, LN-7 GMA, LN-742, LN-10, DH-10, LN-15, LN-23P, LN-25, Cobramatic®, Magnum® Spool Gun

Order

- K2400-1 CV-305 208/230/460/3/60
- K2400-2 CV-305 230/460/575/3/60
- K2395-1 CV-305/LF-72 Ready-Pak™ Package 208/230/460/3/60

TECHNICAL SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Dimensions H (1) x W x D inches (mm)	Net Weight lbs.(kg)
CV-305	K2400-1	208/230/460/3/60	315/32.6V/100%	52/48/24A	50-400A 7-37V	24.6 x 19.5 x 27.0 (625 x 495 x 686)	330 (149)
	K2400-2	230/460/575/3/60	315/32.6V/100%	48/24/19A			

PERFORMANCE

- Provides line voltage compensation for maintaining weld consistency, even with changes of $\pm 10\%$.
- Choose low inductance connection when using CO₂ shielding gas, or when short arc welding mild steel or other thin materials.
- Choose high inductance connection when using 75% Argon/25% CO₂ gas, or when welding stainless steel or making short arc welds on heavy materials.
- A smooth arc and great arc starting for steel or aluminum MIG or gas-shielded flux-cored welding.

FEATURES

- Quick, simple 14-pin MS-type wire feeder connection.
- Low flat-top case can be placed under a workbench or units can be stacked on top of each other to preserve scarce floor space.
- 115V or 42V AC wire feeder auxiliary power.
- Twist-Mate™ output connectors require no tools for quick and easy hook-up. Two Twist-Mate™ Cable Plugs included (K852-95).
- Thermal trip indicator light.

QUALITY AND RELIABILITY

- Electronic and thermostatic protection from current overload or excessive temperatures.
- “Cold” electrode with a solid state contactor when the trigger is released for added safety.
- Microprocessor-based control PC board has built-in diagnostic routines for quick and easy troubleshooting.
- Circuit boards are protected with a specially insulated coating to extend life and ensure reliable performance.
- Solid state circuitry provides extra long life during repetitive applications.
- Three-year warranty on parts and labor; seven-year warranty on power rectifier.
- Manufactured under a quality system certified to ISO 9001 standards.

SYSTEM SELECTION

Ready-Pak™ Package

Take the hassle out of ordering — order a Ready-Pak™ pre-assembled welding package. Fully assembled and ready to weld — just add wire and gas. Select a Ready-Pak and use one order number on your order form.

CV-305 / LF-72 Ready-Pak™ Package

Our most popular MIG and flux-cored welding system!

Order K2395-1

- CV-305 Power Source (208/230/460/3/60)
- LF-72 Bench Model (Two Roll) Wire Feeder with Standard Duty Wire Reel stand, 10 ft. Control Cable, and .035-.045" solid wire Drive Roll and Guide Tube Kits.
- Magnum 400 Welding Gun, 15 ft., .035-.045" wire
- Work and Wire Feeder Power Cables Package
- Harris® Flowmeter Regulator and Gas Hose.

(Order Swivel Kit K2332-1 for even more flexibility!)



Shown:
CV-305 / LF-72 Wire Feeder Ready-Pak™ Package

A CLOSER LOOK

Other Typical CV-305 MIG Welding Systems (Order items separately)

CV-305 / LN-742 Wire Feeder

Best for applications where more process control is required — for arc starting, welding and crater control!

• CV-305 Power Source	K2400-1
• LN-742 (Two Roll) Wire Feeder	K617-1
• Wire Feeder Control Cable – 10 ft.	K1819-10
• .035 Drive Roll Kit	KP653-035S
• Universal Stand	K1524-1
• Swivel Platform	K1557-1
• Magnum 300 Gun & Cable Assembly	K470-2
• Gun Connector Kit	K466-1
• Work and Wire Feeder Power Cables Pkg.	K1803-1
• Harris Flowmeter Regulator and Gas Hose	K586-1

CV-305 / LN-10 Wire Feeder

Where premium welding performance and control is demanded — this system delivers!

• CV-305 Power Source	K2400-1
• LN-10 Wire Feeder (Bench Model)	K1559-3
• .035 Drive Roll Kit	KP1505-035S
• .045 Drive Roll Kit	KP1505-045S
• Swivel Platform	K1557-1
• Magnum 300 Gun & Cable Assembly	K470-2
• Gun Connector Kit	K466-10
• Work and Wire Feeder Power Cables Pkg.	K1803-1
• Wire Feeder Control Cable, 10 ft.	K1501-10
• Harris Flowmeter Regulator and Gas Hose	K586-1

CV-305 / DH-10 Wire Feeder

For maximum welding flexibility. Alternate between welding with two different types and sizes of wire — with two different welding procedures!

• CV-305 Power Source	K2400-1
• DH-10 Wire Feeder	K1499-1
• .035 Drive Roll	KP1505-035S ⁽¹⁾
• .045 Drive Roll Kit	KP1505-045S ⁽¹⁾
• Magnum 300 Gun & Cable Assembly	K470-2 ⁽¹⁾
• Gun Connector Kit	K466-10 ⁽¹⁾
• Work and Wire Feeder Power Cables Pkg.	K1803-1
• Wire Feeder Control Cable, 10 ft.	K1501-10
• Harris Flowmeter Regulator and Gas Hose	K586-1

⁽¹⁾Two required.

CV-305 / Cobramatic® Wire Feeder

For aluminum welding, select the industry's best aluminum feeding system — Cobramatic!

• CV-305 Power Source	K2400-1
• Cobramatic Wire Feeder	K2259-1
• .035 Drive Roll Kit	KP1594-035
• 3/64 Drive Roll Kit	KP1593-3/64
• 25 ft. Python Gun & Cable Assembly	K2211-2
• Work and Wire Feeder Power Cables Pkg.	K1803-1
• Harris Flowmeter Regulator and Gas Hose	K586-1

RECOMMENDED OPTIONS

GENERAL OPTIONS



Remote Output Control

Consists of a control box with choice of two cable lengths. Permits remote adjustment of output. 6 pin connection. **Order K857** for 25 ft. (7.6m). **Order K857-1** for 100 ft. (30m).



Jumper Plug Kit

Required to close the contactor in the power source when the power source is used with a remote output contactor such as the contactor in the K449 LN-25, or K1870-1 LN-15 wire feeder. **Order K484**



Remote Control Cable Adapter

Y connection adapter for connecting K857 Remote Output Control (6 pin plug connection) and wire feeder input cable (14 pin plug connection) to power source 14 pin receptacle. **Order K864**



Universal Adapter Plug

The adapter allows user connection of any suitable accessory or wire feeder to the output contactor and auxiliary power circuitry. Consists of a 14 pin MS-type (Amphenol) connector with 8" (203mm) stripped leads. **Order K867**



Twist-Mate Cable Plug

For connecting welding cable to output terminal receptacles. For 1/0 – 2/0 (50 – 70mm²) cable. **Order K852-70**



Undercarriage

Platform undercarriage with mounting for two gas cylinders at rear of welder. **Order K874**



Twist-Mate Cable Plug

For connecting welding cable to output terminal receptacles. For 2/0 – 3/0 (70 – 95mm²) cable. **Order K852-95**

CV-305 ORDER FORM

PRODUCT DESCRIPTION	ORDER NUMBER	QUANTITY	PRICE
CV-305 208/230/460/3/60	K2400-1		
CV-305 230/460/575/3/60	K2400-2		
READY-PAK™ PACKAGE			
CV-305/LF-72 Bench Model Wire Feeder (208/230/460/3/60)	K2395-1		
RECOMMENDED GENERAL OPTIONS			
Remote Output Control, 25 ft. (7.6m)	K857		
100 ft. (30m)	K857-1		
Remote Control Cable Adapter	K864		
Twist-Mate Cable Plug for 1/0-2/0 (50-70mm ²) cable	K852-70		
Twist-Mate Cable Plug for 2/0-3/0 (70-95mm ²) cable	K852-95		
Jumper Plug Kit	K484		
Universal Adapter Plug	K867		
Undercarriage	K874		
RECOMMENDED WIRE FEEDER OPTIONS			
LF-72	See publication E8.11		
LN-7	See publication E8.10		
LN-7 GMA	See publication E8.10		
LN-742	See publication E8.20		
LN-10	See publication E8.200		
DH-10	See publication E8.200		
LN-15	See publication E8.60		
LN-23P	See publication E8.90		
LN-25	See publication E8.100		
Cobramatic®	See publication E8.300		
Magnum® Spool Gun	See publication E12.100		
	TOTAL:		

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 advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric is not in a position to warrant or guarantee such advice, and assumes no liability with respect to such information or advice. We expressly disclaim any warranty of any kind, including any warranty of fitness for any customer's particular purpose, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has been given, nor does the provision of information or advice create, expand or alter any warranty with respect to the sale of our products.

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