

# ALUMAFAB

## ALUMINUM MIG WELDING SYSTEM



### The Easy Way to Weld Aluminum

The AlumaFab® system is a straightforward, purpose-built solution for high-volume aluminum MIG welding. Developed through a strategic partnership between Lincoln Electric and MK Products, the system combines industry-leading wire feeding with proven power source and waveform technology, providing smooth, consistent wire delivery and superior arc control. Its streamlined, operator-friendly design simplifies the aluminum welding process, allowing operators of any skill level to weld with confidence day after day.

#### Processes »

MIG (GMAW), Pulsed MIG (GMAW-P),

#### Applications »

General Fabrication  
Automotive  
Ship Building

#### Key Accessories »

Python® 15 Ft. Air-Cooled Push-Pull Welding Gun  
Python 25 Ft. Air-Cooled Push-Pull Welding Gun  
Python 15 Ft. Water-Cooled Push-Pull Welding Gun  
Python 25 Ft. Water-Cooled Push-Pull Welding Gun

#### Output »



#### Input »



#### Product Numbers »

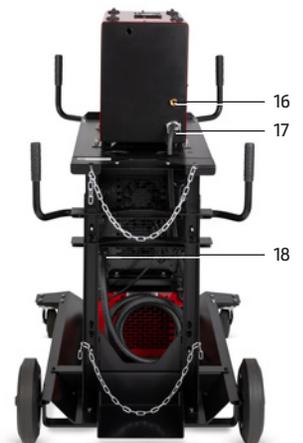
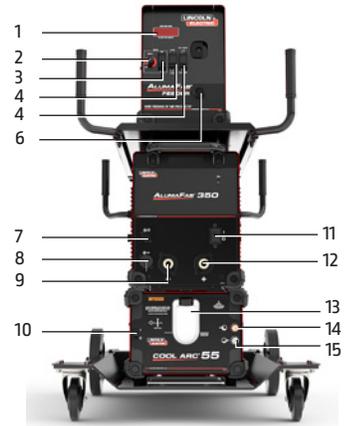
K6013-1 AlumaFab 350 Air-Cooled Package  
K6014-1 AlumaFab 350 Water-Cooled Package

## KEY FEATURES

- **Purpose-Built to Make Aluminum Welding Easy**
  - Engineered to combine industry-leading wire feeding with trusted power source technology.
  - Delivers a consistent, easy-to-use aluminum solution with a stable and forgiving arc.
- **Hassle-Free Wire Feeding**
  - Smooth, reliable wire delivery minimizes shaving, birdnesting, and burnback.
  - Supports longer cables for greater flexibility.
  - No gun calibration required.
  - Universal driverolls for standard aluminum wire diameters.
- **Rock-Solid Reliability**
  - Engineered for durability and dependable performance in tough shop conditions.
  - No unnecessary extras – just the essentials to get the job done.
- **Trusted Expertise & Support**
  - Backed by decades of aluminum welding experience and a global support network to deliver unrivaled peace of mind.

## KEY CONTROLS - FEEDER AND POWER SOURCE

1. Wire Feed Speed Digital Display
2. Run-In Speed Control and On/Off Knob
3. Run-In/WFS Display Switch
4. Trigger Configuration Switch
5. Gas Purge and Cold Feed
6. 10-pin Push-Pull Gun Sense Lead Connection
7. 12-pin AlumaFab Controller Connector
8. 14-pin AlumaFab Feeder Connector
9. Negative Output Stud (Tweco® Compatible)
10. Cool Arc® 55 On/Off Switch\*
11. AlumaFab 350 On/Off Switch
12. Positive Output Stud (Tweco Compatible)
13. Coolant Reservoir Fill Location\*
14. Coolant In Hose Connection\*
15. Coolant Out Hose Connection\*
16. Gas Hose Connection
17. 14-Pin AlumaFab Feeder Control Cable
18. Input Power Cord



\*Water-cooled package only.

## KEY CONTROLS - CONTROLLER

1. Amperage/Current Display
2. Weld Process/Menu Display
3. Weld Mode Menu Knob
4. Voltage Display
5. Voltage Knob
6. Back Button



## STEP 1: CHOOSE A PACKAGE - SELECT AIR-COOLED OR WATER-COOLED FEEDER & POWER SOURCE PACKAGE



### AlumaFab Water-Cooled Package (K6014-1)

- AlumaFab 350
- AlumaFab Controller
- AlumaFab Feeder
- Inverter and Wire Feeder Cart (K3059-4)
- Work Lead & Ground Clamp - 2/0 - 15 ft. (4.6 m) - Tweco Compatible (K4835-2/0-15)
- Locking Foot Kit (K4424-1)
- Flowmeter Regulator Kit (310021)
- Cool Arc 55 Water Cooler (K3086-1)



### AlumaFab Air-Cooled Package (K6013-1)

- AlumaFab 350
- AlumaFab Controller
- AlumaFab Feeder
- Inverter and Wire Feeder Cart (K3059-4)
- Work Lead & Ground Clamp - 2/0 - 15 ft. (4.6 m) - Tweco Compatible (K4835-2/0-15)
- Locking Foot Kit (K4424-1)
- Flowmeter Regulator Kit (310021)

**Note: Push-pull guns sold separately. See compatible welding guns below.**

## COMPATIBLE WELDING GUNS

## STEP 2: CHOOSE A WELDING GUN (SOLD SEPARATELY)

### MK Products® Python MIG Welding Guns

These push-pull welding guns are optimized to pair with the AlumaFab welding system to provide smooth, controlled wire feeding, enhanced welding performance and increased arc time.

- Convenient front trigger
- Easy fingertip wire speed adjustment
- 360° rotatable gooseneck barrel
- Available in Water and Air-Cooled models, 15 and 25 ft. (4.6 and 7.6 m) lengths
- Compatible with MK Products contact tips

*Note: Additional gun types and lengths are available directly through MK Products.*



Air-Cooled  
15 ft. (4.6 m) - K6042-1  
25 ft. (7.6 m) - K6043-1



Water-Cooled  
15 ft. (4.6 m) - K6044-1  
25 ft. (7.6 m) - K6045-1



Drive System



WFS Adjustment

Contact Tips <sup>(1)</sup>	
Wire Diameter in (mm)	Order Number
0.030 [0.8]	KP2217-1B1
0.035 [0.9]	KP2217-2B1
0.047 [1.2]	KP2217-4B1

(1) Sold in quantity of 25

Nozzles	
Description in (mm)	Order Number
MK Products Nozzle I.D. - 3/8 [9.25]	KP2213-1
MK Products Nozzle I.D. - 1/2 [12.7]	KP2214-1
MK Products Nozzle I.D. - 5/8 [15.8]	KP2215-1
MK Products Nozzle I.D. - 5/8 [15.8] Heavy Duty	KP2216-1

Gooseneck Liners	
Description in (mm)	Order Number
Gooseneck Liner - .035 [0.9], White	KP2226-1
Gooseneck Liner - 3/64 - 1/16 [1.2 - 1.6], Grey	KP6046-1

Drive Rolls	
Description in (mm)	Order Number
MK Products Insulated Groove Roll Kit for 0.035 [0.9] Wire	KP1594-035
MK Products Insulated Groove Roll Kit for 3/64 [1.2] Wire	KP1594-3/64
MK Products Python Knurled Drive Roll Kit	KP2219-1

Idler Rolls	
Description	Order Number
MK Products Python Idler Roll Kit	KP2220-1

Conduit Liners	
Description ft (m)	Order Number
MK Products® Python Gun Conduit- 15 [4.6]	KP2463-1
MK Products® Python Gun Conduit- 25 [7.6]	KP2463-2

Curved Barrel	
Description	Order Number
MK Products® Air Cooled Gooseneck 60°	KP6047-1
MK Products® Water Cooled Gooseneck 60°	KP6048-1

## PRODUCT SPECIFICATIONS

Product Name	Input Power Voltage/ Phase/Hertz	Rated Output Current/ Voltage/Duty Cycle	Output Range	Dimensions H x W x D in (mm)	Weight lbs (kg)
<b>AlumaFab 350 Power Source</b>	460V/575V/3/50/60	350A/31.5V/60% 300A/29V/100%	40 - 425A	16.6 x 13.3 x 26.7 [421.1 x 337.2 x 678.4]	91 [41]

Product Name	Input Power Voltage/ Phase/Hertz	Wire Diameter Range in (mm)	Wire Feed Speed Range	Dimensions H x W x D in (mm)	Weight lbs (kg)
<b>AlumaFab Feeder</b>	115V/1/50/60	0.030 - 1/16 Aluminum [0.8 - 0.063]	0 - 900 IPM	14.5 x 10.4 x 22.8 [368.3 x 264.2 x 579.1]	49 [22.2]

Product Name	Product Number	Amperage Rating 100% Argon Gas	Wire Diameter Range in (mm)	Cable Length ft (m)
<b>MK Products Python 15 ft Air-Cooled</b>	K6042-1	225A @ 60% Duty Cycle	0.030 - 1/16 [0.8 - 1.6] aluminum and cored wire	15 [4.6]
<b>MK Products Python 25 ft Air-Cooled</b>	K6043-1			25 [7.6]
<b>MK Products Python 15 ft Water-Cooled</b>	K6044-1	450A @ 60% Duty Cycle		15 [4.6]
<b>MK Products Python 25 ft Water-Cooled</b>	K6045-1			25 [7.6]

For best welding results with Lincoln Electric® equipment, always use Lincoln Electric consumables. Visit [www.lincolnelectric.com](http://www.lincolnelectric.com) for more details.

### 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.

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