



LINCOLN ELECTRIC
ALUMINUM SOLUTIONS
AUTODRIVE[®] SA

FANUC Robot
ARC Mate 100iC

AUTODRIVE[®] SA

GET A CLEAN START

注意 CAUTION
1. 使用前請先檢查
2. 檢查電氣配線
3. 檢查機械配線
4. 檢查氣壓配線
5. 檢查油壓配線
6. 檢查潤滑油
7. 檢查潤滑油
8. 檢查潤滑油
9. 檢查潤滑油
10. 檢查潤滑油

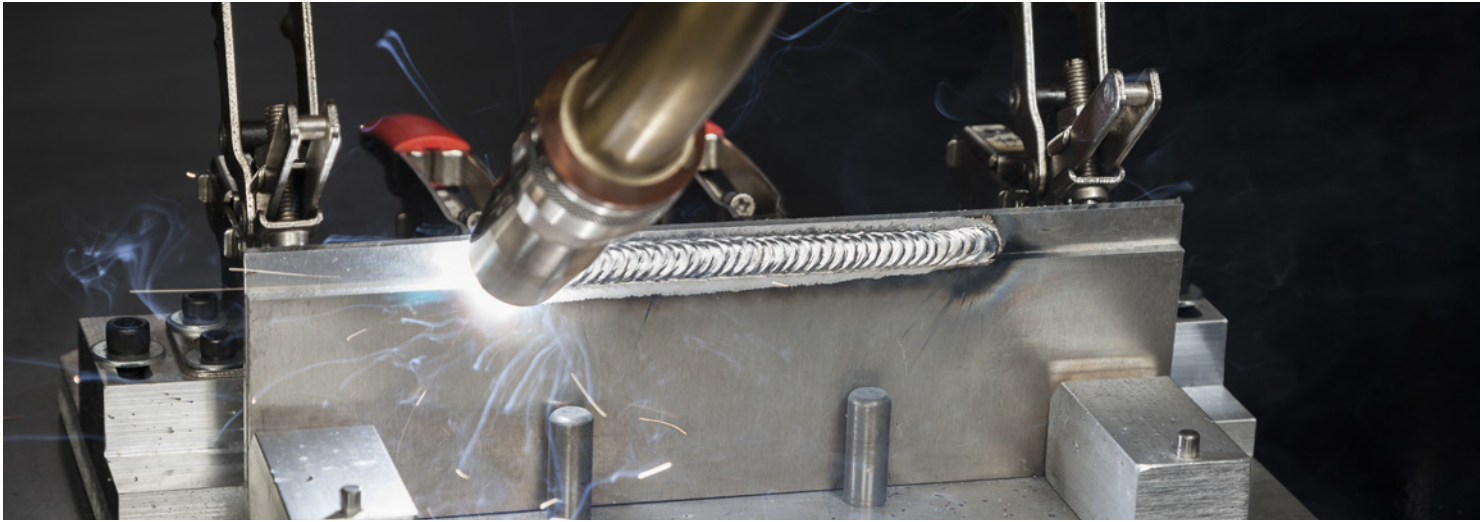
LINCOLN[®]
ELECTRIC

A Better Start, A Better Weld

AutoDrive[®] SA

When it comes to welding aluminum parts robotically, arc starts and consistent wire feeding are crucial. AutoDrive[®] SA is a high-performance aluminum servo torch solution engineered to address the common problems with robotic aluminum welding – all to make the welding process easier and hassle-free. The system integrates with a robot and communicates directly with a Lincoln Electric[®] Power Wave[®] resulting in a best-in-class Aluminum solution.





Simplicity and Efficiency

A Clean Start

AutoDrive SA uses touch-retract start technology to initiate each robotic weld with no spatter or burnback. This ensures a consistent arc start from start to finish.

It's All About The Weld

The AutoDrive SA allows the Power Wave to have precise control over the wire feed speed. The coordination of the wire feed speed, paired with Power Wave Waveform Control Technology[®], results in an aluminum weld that only Lincoln Electric can deliver.

250,000

Starts and Stops =

10,416 Ladders
8,333 Engine Cradles
115 Boats
83 Trailers



Longer Life, Improved Productivity

AutoDrive SA uses Magnum[®] PRO Copper Plus[™] contact tips. The system goes the distance by delivering more than 250,000¹ starts and stops with a single contact tip. This represents a decrease in change overs, a reduction in downtime and a significant increase in productivity.

Compatible Robotic Arms

FANUC[®]

MOTOMAN[®]

ABB[®]

KUKA[®]

KAWASAKI[®]

1. As tested in a lab environment using the following specifications:
Wire feed speed @300 ipm (76 mpm), 23V, SuperGlaze[®] 4043 Aluminum Wire 3/64 in. (1.2 mm)

Processes »
MIG, Pulsed MIG

Applications »
General Fabrication, Trailer
Manufacturing, Shipbuilding,
Automotive.

Output »



Input »



Product Numbers »
K4444-1 Push Feeder
K44445-1 Pull Feeder

AUTODRIVE SA WIRE FEEDER ONE-PAK® PACKAGES

| Product Name | Product Number | What's Included |
|--------------------|---------------------|----------------------------------|
| ABB | | |
| IRB 1520ID | K4678-1520ID | Push Feeder |
| IRB 1600ID | K4678-1600ID | Pull Feeder |
| IRB 1660ID | K4678-1660ID | J3 Mounting Bracket |
| IRB 2600ID-15/185 | K4678-2600ID-15/185 | Feeder Insulator |
| IRB 2600ID-8/20 | K4678-2600ID-8/20 | Torch Cable Assembly |
| FANUC | | |
| ARC Mate 100iC | K4678-100iC | Control Cable Assembly |
| ARC Mate 100iC/6L | K4678-100iC/6L | Breakaway Disk |
| ARC Mate 100iC/8L | K4678-100iC/8L | 45 Degree Water-cooled Gooseneck |
| ARC Mate 120iC | K4678-120iC | Liners |
| ARC Mate 120iC/10L | K4678-120iC/10L | Contact Tips |
| ARC Mate 100iD | K4678-100iD | |
| ARC MATE 100iD/8L | K4678-100iD/8L | |
| ARC Mate 100iD/10L | K4678-100iD/10L | |
| ARC Mate 120iD | K4678-120iD | |
| ARC Mate 120iD/12L | K4678-120iD/12L | |
| M710iC/12L | K4678-M710iC/12L | |
| KUKA | | |
| KR 5-2 ARC HW | K4678-KR5-HW-2 | |
| KR 16-L8 ARC HW | K4678-KR16-L8-HW | |
| KR 16 ARC HW | K4678-KR16-HW | |
| KR 8 R1620 HW | K4678-KR8R1620-HW | |
| KR 8 R2100 HW | K4678-KR8R2100-HW | |
| MOTOMAN | | |
| 1440 | K4678-MA1440 | |
| 2010 | K4678-MA2010 | |
| KAWASAKI | | |
| BA006N | K4678-BA006N | |
| BA006L | K4678-BA006L | |

4-ROLL WIRE DRIVE SYSTEMS

| Product Name | Product Number | Description/Wire Size, in (mm) |
|--|----------------|--------------------------------|
| 4-ROLL WIRE DRIVE SYSTEMS | | |
| Push Feeder Aluminum U-Groove Drive Roll Kits | KP4335-035A | 0.035 (0.9mm) |
| | KP4335-040A | 0.040 (1.0mm) |
| | KP4335-364A | 3/64 (1.2mm) |
| | KP4335-116A | 1/16 (1.6mm) |
| | KP4335-071A | 0.071 (1.8mm) |
| Push Feeder Steel V-Groove Drive Roll Kits | KP4335-035S | 0.035 (0.9mm) |
| | KP4335-040S | 0.040 (1.0mm) |
| | KP4335-045S | 0.045 (1.1mm) |
| Pull Feeder Aluminum U-Groove Drive Roll Kits | KP4413-035A | 0.035 (0.9mm) |
| | KP4413-040A | 0.040 (1.0mm) |
| | KP4413-364A | 3/64 (1.2mm) |
| | KP4413-116A | 1/16 (1.6mm) |
| | KP4413-071A | 0.071 (1.8mm) |
| Pull Feeder Steel V-Groove Drive Roll Kits | KP4413-035S | 0.035 (0.9mm) |
| | KP4413-040S | 0.040 (1.0mm) |
| | KP4413-045S | 0.045 (1.1mm) |

PRODUCT SPECIFICATIONS

| Product Name | Product Number | Input Power | Rated Output | Input Current | Output Range | W x H x D in. (mm) | Weight lbs. (kg) | WFS Range |
|---------------------|----------------|--------------------------------------|---------------------------|---------------|--------------|---|------------------|------------|
| AutoDrive SA | | | | | | | | |
| Push Feeder | K4444-1 | N/A (Power and Data via ArcLink®) | 450A @ 100% Duty Cycle | N/A | N/A | 7.0 x 7.5 x 10.8 (177.8 x 190.5 x 274.3) | 14.5 (6.58) | 30-800 ipm |
| Pull Feeder | K4445-1 | | | | | | | |

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