AUTODRIVE® SA

GET A CLEAN START

FANUC Rase ARC Mate tooic

LINCOLN

AUTODRIVE'SA

注意 CAUTION

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ALUMINUM



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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®

Processes » MIG, Pulsed MIG

Applications »

General Fabrication, Trailer Manufacturing, Shipbuilding, Automotive.

Output	ĺ
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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	Push Feeder	
IRB 1520ID	K4678-1520ID	Pull Feeder
IRB 1600ID	K4678-1600ID	13 Mounting Bracket
IRB 1660ID	K4678-1660ID	Foodor Inculator
IRB 2600ID-15/185	K4678-2600ID-15/185	Feeder Insulator
IRB 2600ID-8/20	K4678-2600ID-8/20	Torch Cable Assembly
FANUC		Control Cable Assembly
ARC Mate 100iC	K4678-100iC	Breakaway Disk
ARC Mate 100iC/6L	K4678-100IC/6L	45 Degree Water-cooled
ARC Mate 100iC/8L	K4678-100iC/8L	Gooseneck
ARC Mate 120iC	K4678-120iC	Liners
ARC Mate 120iC/10L	K4678-120iC/10L	Contact Tips
ARC Mate 100iD	K4678-100ID	
ARC Mate 100iD/10L	K4678-100iD/10L	
ARC Mate 120iD	K4678-120iD	
ARC Mate 120iD/12L	K4678-120iD/12L	
M710iC/12L	K4678-M710iC/12L	
КИКА		
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	
MOTOMAN		
1440	K4678-MA1440	
2010	K4678-MA2010	
KAWASAKI		
BA006N	K4678-BA006N	
BA006L	K4678-BA006L	
		1

4-ROLL WIRE DRIVE SYSTEMS

Product Name	Product Number	Description/Wire Size, in (mm)					
4-ROLL WIRE DRIVE SYSTEMS							
Solid Wire, Smooth V Groove	KP1505-030S	0.023-0.030 (0.6-0.8)					
*Heavy duty tool-steel drive	KP1505-035S	0.035 (0.9)					
rolls designed for maximum life. Recommended for automated	KP1505-035R*						
and high WFS applications.	KP1505-040S	0.040 (1.0)					
	KP1505-040R*						
	KP1505-045S	0.045 (1.2)					
	KP1505-045R*						
	KP1505-052S	0.052 (1.4)					
	KP1505-052R*						
	KP1505-1/16S	1/16 (1.6)					
	KP1505-1	0.035, 0.045 (0.9, 1.2)					
Cored Steel Wire, Knurled V Groove Knurled V Groove with	KP1505-035C	0.030-0.035 (0.8-0.9)					
matching Smooth U Groove)	KP1505-045C	0.040-0.045 (1.0-1.2)					
	KP1505-052C	0.052 (1.4)					
	KP1505-1/16C	1/16 (1.6)					
Cored or Solid Steel Wire, Knurled V Groove	KP1505-068	0.068-0.072 (1.7-1.8)					
	KP1505-5/64	5/64 (2.0)					
Aluminum Wire,	KP1507-035A	0.035 (0.9)					
Smooth U Groove	KP1507-040A	0.040 (1.0)					
	KP1507-3/64A	3/64 (1.2)					
	KP1507-1/16A	1/16 (1.6)					
	KP1507-3/32A	3/32 (2.4)					
Cored Wire, Knurled V Groove	KP4335-035S	0.035 (0.9)					
	KP4335-040S	0.040 (1.0)					
	KP4335-045S	0.045 (1.2)					
	KP4335-047S	0.047 (1.19)					
	KP4335-035C	0.035 (0.9)					
	KP4335-040C	0.040 (1.0)					
	KP4335-045C	0.045 (1.2)					
	KP4335-047C	0.047 (1.19)					

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output	Input Current	Output Range	W x H x D in. (mm)	Weight Ibs. (kg)	WFS Range
AutoDrive SA								
Push Feeder	K4444-1	N/A (Power and Data via ArcLink®)	350A @ 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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