



CONFIGURATION EXAMPLE #3 AX ALUMINUM

Aluminum is a more and more common material used in production. It acts as a lightweight alternative to steel as it provides a better strength-to-weight ratio and corrosion resistance.

But this material does not behave like steel in welding applications, especially because of its high thermal conductivity and low melting point.

Efficient and high-quality aluminum welding largely depends on the right equipment and the right welding curves. These elements are very important in automated welding.

Typical industry segments:

- boat & ship building
- (e-)transportation
- trailers
- automotive
- wheel frames
- battery cell cooling

Example of AX MIG Welder configuration for aluminum welding (for reference only):

Device Pack		AX 500 P+ AL
Power Source	X5100500000	X5 500 PULSE+ Power Source
Cooler	X5620000000	X5 Cooler 1400
Wire Feeder	RX21150025L	R500+ Euro Wire Feeder
	F000393	AL U1.0
	SP800714	WF Bracket ABB IRB 1600 ID
	W022035	R500 Wire Feeder Bracket, Long
Robot Connectivity Module	RX311000000	RCM+
	RX7011200	M40 EtherNet/IP RJ45 2
Interconnection Cable	6260459	Robot 70-5-WH Cable shoe
Wire Conduit	SP600535	Wire conduit-1.8M Robot
	SP600731	Chili Liner kit for Ss/Al (8m)
Spool	W005189	Female connector for the wire drum or spool holder
	W007629	Wire Spool Support, Left
	SP007940	Plastic cover for wire spool holder
	W007356	Floor stand for wire spool holder
Cable Assembly	SP600721	Cable Assembly T1 W ABB IRB 1660 ID Euro
	SP600666	Chili Liner HP 2.0/4.7 2M Robot Eu
Flange	SP600581	Flange T1 ABB IRB 1600 ID
Gun Mount	SP600588	Robot Gun Mount T1 W
Gun Neck	SP600551B	Gun Neck 500-W 22°, Short

Note: For robotic welding guns and accessories – please see Kemppi “Robotic Welding Gun” product catalogue.

Welding software may be chosen from a wide range of welding curves (incl. Max and Wise processes and functions), depending on applications and production targets, in relation to used hardware configuration.