

Kemppi robotic product portfolio

Power source and interface		Wire feeder	Panel	Features															
Synergic		KempArc™ Synergic	KempArc™ DT 400	RF 59	59	90	●	●	●	●	-	-	○	430 380 300	46	●	○	2	○
	Digital	Kemppi Pro Evolution and ProMig 540R-MXE	ProMig 120R	MXE	125	64	●	○	●	●	●	●	○	440 400 320	50 46 46	●	○	4	○
Double pulse	Analog	Kemppi Pro Evolution and ProMig 520R-MXE	ProMig 120R	MXE	125	64	●	○	●	●	●	●	○	440 400 320	50 46 46	●	○	4	○
	Digital	ProMig 540R Automotive	ProMig 120R	Robot	74	64	●	○	●	●	●	-	○	440 400 320	50 46 46	●	○	4	○
<div>● = Yes</div> <div>○ = Optional, special functions includes adjustable creep start, hot start, crater filling etc.</div> <div>- = Not available</div>					Synergic curves	Memory channels	Seam searching	Seam tracking	Special functions	Dynamic regulation	Pulse welding	Double pulse welding	Additional curves	Max. current (100%)	Max. voltage	Process monitoring	Gas flow sensor	Number of torches	Push-Pull wire feeding

For more information contact Kemppi Robotics, robotics@kemppi.com



KEMPPI ProMig

540R & 520R MXE



Kemppi Oy – a pioneer in welding equipment technology

Advanced welding features
for **all automated welding**

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The Joy of Welding
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ProMig 540R – intelligent welding features

Benefits

- Spatterless welding
- Reliable arc starting
- Online process monitoring
- Fewer mechanical components
- Longer MTBF
- Easy customizing
- Easy plug-and-play use

Main applications

- Advanced welding applications
- Aluminium welding
- Stainless steel welding
- MIG brazing

■ The ProMig 540R is a digital field bus interface

for robotic welding that may be used with any Kemppi Pro Evolution power source and the standard ProMig 120R wire feeder. The welding set can be gas or water cooled.

With ProMig 540R you can take advantage of all the high-tech welding features of Kemppi Pro Evolution system in your automated welding system. This includes double pulse welding, creep start, hot start, and crater fill.

The ProMig 540R uses a digital, two-way field bus communication system as the robot's interface with the welding equipment. With this type of interface, you can forget about the complex wirings and disturbing extra devices.

Different field protocols are supported by inserting the 'any bus card' into the 540R unit, after which you

can select the field card type you need. This makes the ProMig 540R unit compatible with any welding robot brand.

The device contains also 64 memory channels, in which you can store welding parameters and recall them from the robot programme.

With Promig 540R get a robotic welding interface that makes the many useful features of the Kemppi Pro Evolution system available to your welding robot system.

For use in the automotive industry, the ProMig 540R system can be equipped with MXE Robot Automotive control panel. It is designed especially for the materials and needs of the automotive industry.



MXE Control Panel

- Adjustable special functions
- 64 memory channels and 125 synergic curves
- Up to 4 torches from one power source
- Welding process monitoring
- Long-distance wire feeding with sub-feeders



ProMig 120R Wire Feeder

The four-wheel ball-bearing wire drive mechanism ensures smooth and reliable wire feeding. A tachometer feedback system is included for accurate regulation of the wire feed speed.

ProMig 520R MXE – for all robot brands

Benefits

- Excellent aluminium welding
- Spatterless welding
- Reliable arc starting
- Online process monitoring

Main applications

- Highly demanding welding applications
- Aluminium welding
- Stainless steel welding

■ **The ProMig 520R MXE is an analogue welding robot interface** for aluminium, stainless steel, and mild steel welding. It has the same advantages as the corresponding digital interface, the ProMig 540R unit.

The ProMig 520R MXE is a field bus type of interface. It can be used with any Kemppi Pro Evolution power source and the standard ProMig 120R feeder. The welding set can be gas or water cooled.

The ProMig 520R MXE includes an MXE control panel, so it is suitable for MIG, synergic MIG, synergic pulsed MIG, and double pulse MIG welding.

The interface unit can handle a maximum of 37 I/O signals, easily matching the requirements of most robotic welding configurations.

All functions and adjustments, as well as overall welding operation, are microprocessor-controlled, which ensures accurate wire feeding and welding programme control.

Touch sensing is a standard feature of the 520R MXE. The output signal from touch sensing can be used to determine whether the wire is stuck to the workpiece at the end of each weld.

Weld current monitoring for through-arc seam tracking and voltage monitoring are available as an option.

Interference problems have been eliminated by fully isolating the analogue and digital I/O signals from each other.



Kemppi Pro Evolution Power Sources

Kemppi Pro Evolution power sources are extremely efficient. The high internal regulation speed and full digital controls guarantee first-class welding characteristics.