Kemppi robotic product portfolio

Power source and interface			Wire feeder	Panel	Features														
					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
Synergic		KempArc™ Synergic	KempArc™ DT 400	RF 59	59	90	●	●	●	●	-	-	○	430 380 300	46	●	○	2	○
Double pulse	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	○
Synergic	Digital	ProMig 540R Automotive	ProMig 120R	Robot	74	64	●	○	●	●	●	-	○	440 400 320	50 46 46	●	○	4	○

● = Yes
○ = Optional, special functions includes adjustable creep start, hot start, crater filling etc.
- = Not available

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

KEMPARC™
SYNERGIC

Arc Under Control
100 % KEMPPI

Kemppi Oy – a pioneer in welding equipment technology

welding system **speeds up robotic welding**

KEMPPI
The Joy of Welding
www.kemppi.com

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KempArc™ Synergic – designed exclusively for robotic welding

Fast reaction speed

- Based on the latest technological solutions
- Efficient field-bus-based communication
- Minimum downtime between welds
- Both analogue and digital communication

Based on advanced communication technology, the new KempArc™ system allows fast communication between the robot control system and the welding equipment. This increases the productivity of automated welding, where the number of welds can reach thousands per day.

Compact size

- Interface integrated in the machine
- Small and light construction
- Half the size of conventional models

The compact size and light weight of the KempArc™ devices give them agility rarely seen in robotic welding. KempArc™ power sources and wire feeders are significantly smaller than corresponding products on the market.

Modular design

- A heavy-duty unit providing over 500 A by joining two power sources parallel
- No need for a special power source
- Easy connectivity to a separate wire feeder to allow manual tack welding

Two KempArc™ power sources can be joined with a parallel connection to form one powerful unit. This allows the deposition rate to be increased, without the need for a special power source.

Easy to use

- Easy programming with the synergic curves
- Easy equipment calibration
- 90 memory channels facilitating programming

The synergic curves available from the control panel provide assistance to the programmer in selecting the right parameters. The user can select the thickness of the plate to be welded on the control panel, after which the machine automatically finds the right welding parameters.

Quality welding

- Excellent arc characteristics and spatter-free welds
- Special AAA process designed especially for welding automation
- Reliable wire feed with the new DURATorque™ technology and metallic feeders

Thanks to its high technological standards and advanced control features, the KempArc™ system can provide high-quality welds with minimum downtime in robotized welding.

PM 502

KempArc™ SYN 300, SYN 400, SYN 500

KempArc™ DT 400

KempArc™ Cool 10

Ordering numbers

KempArc™ power sources	
SYN 300 (digital)	6201300
SYN 400 (digital)	6201400
SYN 500 (digital)	6201500
SYN 300 (analogue)	6201300AN
SYN 400 (analogue)	6201400AN
SYN 500 (analogue)	6201500AN
Wire feeder DT 400	6203400

Interface cards	
Interbus S	9774120IBC
Interbus S, optical	9774120IBO
Profibus	9774120PRF
Devicenet	9774120DEV
Cooler KempArc Cool10	620810001
Cables	
Intermediate cable 5 m, gas cooled	6260441
Intermediate cable 10 m, gas cooled	6260445
Intermediate cable 5 m, liquid cooled	6260461
Intermediate cable 10 m, liquid cooled	6260465
Earthing cable 70 mm^2, 5 m,	6184711
Earthing cable 70 mm^2, 10 m	6184712
Undercarriage PM 502	6185293