

CoWelder™



CoWelder™ –
THE SMARTEST
AUTOMATED SOLUTION



MIGATRONIC
WELDING VALUE



IDEAL FOR WELDING SIMPLE WORKPIECES



Complete welding robot solution fits on any table in any workshop. The flexible set-up is easy to move around.

PRODUCTION COST SAVING

Simple set-up combined with easy programming translates into significant production cost savings. Investing in experienced robot programmers is not necessary.



Our time saved per workpiece is about 50%. We produce from ten to 1000 workpieces at a time. Our efficiency gains are 30-40% owing to the easy switching between programs and welded workpieces. And this is just the beginning...

– Jens Christian Lægsgaard,
General Manager, MVI Maskinfabrik, Denmark

CoWelder™ is the smallest and smartest automated welding solution on the market. It is ideal for welding simple workpieces, no matter the quantity and frequency.

The solution consists of a Migatron power source and a Universal Robots robot arm.

The CoWelder™ optimises efficiency and ensures uniformity in series production, but it is so easy to re-program that it also pays off to weld small batches with this automated solution.

SIMPLE SET-UP

The lightweight CoWelder™ is supplied fully assembled, ready to install and put into operation.

EASY PROGRAMMING

Programming the CoWelder™ is easy and intuitive, even for inexperienced operators. Build up a catalogue of workpieces each with an attached program and switch between them countless times during a

workday. Depending on the complexity, it takes only about half an hour to program a new workpiece.



Program templates for guidance are included.

SAFETY

The built-in safety system, continuously checking the operator's safety, can be tailored to individual needs. External safety components, such as welding curtains or screens, can be used with the CoWelder™.



We can program new workpieces in no time. It really only takes 30 minutes for us to program a new workpiece and a few seconds to recall already stored programs. I don't think it can get any easier.

- Sebastian Jacobsen, Project Manager, Jyden Bur A/S, Denmark

READY TO SET UP AND PUT INTO OPERATION



All parts are preassembled, including the robot welding torch. No installation is required.



UNIFORM AND CONTINUOUSLY HIGH WELDING QUALITY



CoWelder™ delivers uniform and continuously high quality and improves work efficiency. Any welder's auxiliary arm. This is fine craftsmanship - with a robot.

A CoWelder™ PACKAGE SOLUTION INCLUDES:

- Universal Robots robot arm (UR5/UR10)
- Self-balancing table mount, easy to move around to other workstations
- Migatronik power source (Omega² CoWelder 300 A)
- Start/stop safety box
- Full cable set
- Migatronik robot welding torch including torch holder



We reserve the right to make changes.

POWER SOURCE	Omega ² CoWelder 300
Current range, A	15-300
Mains voltage +/- 15%, V	3x400
Fuse, A	10
Duty cycle 100%/40°C, A/V	175/22.8
Duty cycle 60%/40°C, A/V	195/23.8
Duty cycle max./40°C, A	300/24/29.0
Duty cycle 100%/20°C, A	230/25.5
Duty cycle 60%/20°C, A	245/26.3
Open circuit voltage, V	52
Protection class	IP 23S
Norm	EN/IEC60974-1. EN/IEC60974-5. EN/IEC60974-10
Dimensions C (H x W x L), mm	550x250x640
Weight, kg	26

CoWelder™ 6-jointed robot arm	UR5 // UR10
Weight, kg	18.4 // 28.9
Weight total, kg (ex. welding machine)	105 // 115.5
Lifting ability, kg	5 // 10
Working radius, mm	850 // 1300
Degree of freedom	6 rotating joints
Rotation of joints	+/- 360°
Speed of rotating joints	Up to 180° per second
Repetitive accuracy, mm	+/- 0.1
Programming	Graphical user interface on 12" touchscreen
Collaborative operation	15 advanced safety functions Tested according to EN ISO 13849:2008 PL d EN ISO 10218-1:2011, 5.4.3
Ambient temperature	The robot can work in the 0-40° range
Power supply	100-240 VAC, 50-60 Hz
Power consumption, watts	Approx. 200 // 300 (using a typical program)

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