

ArcSystem

Built to a high standard that delivers savings in both time and money



Robotic arc welding – over four decades of experience and the core of our company

Our MOTOMAN robot welding competence, path control and technology meets all the challenges of modern industry

Yaskawa is one of the largest manufacturers of industrial robots with more than 590,000 units installed worldwide. The extensive range covers nearly all options for robotic arc welding – from standard turnkey cells to complex, customised systems.

Our own robot manufacturing facility in Slovenia, Europe offers extremely fast delivery of robots, while providing the product quality that Yaskawa is known for.

Yaskawa also has a large product portfolio of positioners with great customising potential and combination of individual partial solutions. In addition to this, our MOTOMAN software and functional kits offer user-friendly functions in a variety of applications which will assists you in every production phase – easily and efficiently.

Altogether our complete product range is able to meet the requirements of a highly productive robotic welding system.





ArcSystem - high performance arc welding of small to medium sized parts with optimised cycle times

Key benefits

- High output.
- Small footprint.
- Reliable and safe operation.

YASKAWA ArcSystem welding cells are designed for cost efficient, reliable and high performance arc welding operation. They are based on a modular system of standard components that can meet the requirements of the general and automotive industry using a minimum of floor space.



















Designed to meet unique customer demands, as

ArcSystem concept

- Modular design.
- Well-proven technology.
- Easy to install and operate.
- Material can be loaded with an overhead crane.
- Prepared for offline programming.
- Safety features e.g. interlocked service doors, light beams etc.
- Endless jig rotation.
- Floor and workplace kept tidy with all cables elevated high up.





- Single or twin robot systems
- MOTOMAN-AR2010 or AR1440.

Positioner range

Our selection of two station positioners:

- Horizontal station indexing.
- Vertical station indexing.
- Turn-tilt positioner for a high freedom of positioning.
- Positioner with robot or robots on board.

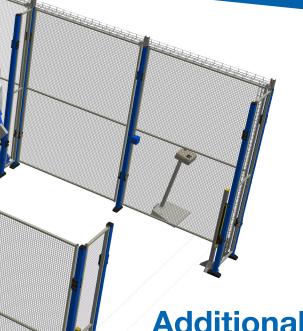








well as national and international safety regulations



Safety features

For a safe working environment we offer various safety features that can be added to your system:

- Light curtains or light beams.
- Net fencing, sheet metal or plexi walls.
- Welding curtains.
- Operator's panel.



From our standard product range with well-proven technology we can also provide:

- Servo powered TSL tracks.
- Welding equipment and power sources (MIG/MAG and TIG).
- Positioner media transfer (controlled air and I/O-signal).
- Basic PLC system with 9" HMI panels.



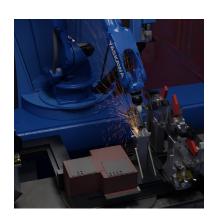


Software tools

Software and functional kits for robotic welding applications:

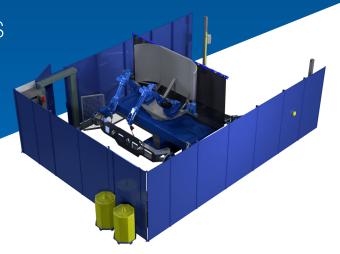
- Offline programming tools.
- Arc welding functional kits such as Comarc, Seam tracking etc.
- · Automatic backup and job editing.
- · Communication tools.

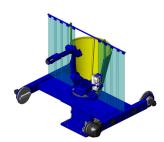






ArcSystem configurations





ArcSystem with V2R1

Designed to save valuable floor space and meeting highly demanding welding cycle time requirements.

Technical data	ArcSystem V2R1
Single robot	AR2010
Positioner	RWV2 Compact ø 1200, 1600 mm L = 2500, 3000 mm
Max. capacity	1000 or 1500 kg per station
Welding equipment, fume hood, safety fencing etc.	see options



ArcSystem with V2R2

Designed to save valuable floor space, high output and meeting highly demanding welding cycle time requirements.

Technical data	ArcSystem V2R2
Twin robot	AR2010
Positioner	RWV2 Compact ø 1200, 1600 mm L = 2500, 3000 mm
Max. capacity	1500 kg per station
Welding equipment, fume hood, safety fencing etc.	see options

Scope of delivery

- MOTOMAN arc welding robot.
- YRC1000 control cabinet.
- RWV2 compact positioner.
- Sheet metal safety fence with light curtain or light beam.
- Interlocked service door.
- Operational panel with PLC.

Options

- Single or twin robot system.
- Basic PLC system with 9" HMI.
- Exhaust fume hood.
- Loading area with rapid roller door.
- Endless JIG rotation.
- Media supply to fixtures: permanent air connection; permanent & safety air connection to JIG + 16 digital IO signals; permanent & safety air connection to JIG + profinet interface.



ArcSystem with H2

Designed for high performance arc welding of medium sized parts with relatively short welding cycles.

Technical data	ArcSystem with H2
Suitable robots	AR1440, AR2010
Robot stand	H = 1200 mm
Positioner	H2-500D3, ø = 1200mm, L = 2050 mm
Max. capacity	500 kg per station
Welding equipment, fume hood, safety fencing etc.	Not included and will be quoted separately



ArcSystem with V2

Designed for high performance arc welding of small to medium sized parts with relatively short welding cycles.

Technical data	ArcSystem with V2
Suitable robots	AR1440, AR2010
Robot stand	H = 1200 mm
Positioner	V2-500D3, Ø = 1300/1600 mm, L = 2050 mm
Max. capacity	500 kg per station
Welding equipment, fume hood, safety fencing etc.	Not included and will be quoted separately



ArcSystem with V2TC

Designed for arc welding workpieces where a high freedom of positioning is required.

Technical data	ArcSystem with
Suitable robots	AR1440, AR2010
Robot stand	H = 1200 mm
Positioner	VMF-500S5D, ø = 1500mm, L = 1500-2500 mm
Max. capacity	500 kg per station
Welding equipment, fume hood, safety fencing etc.	Not included and will be quoted separately

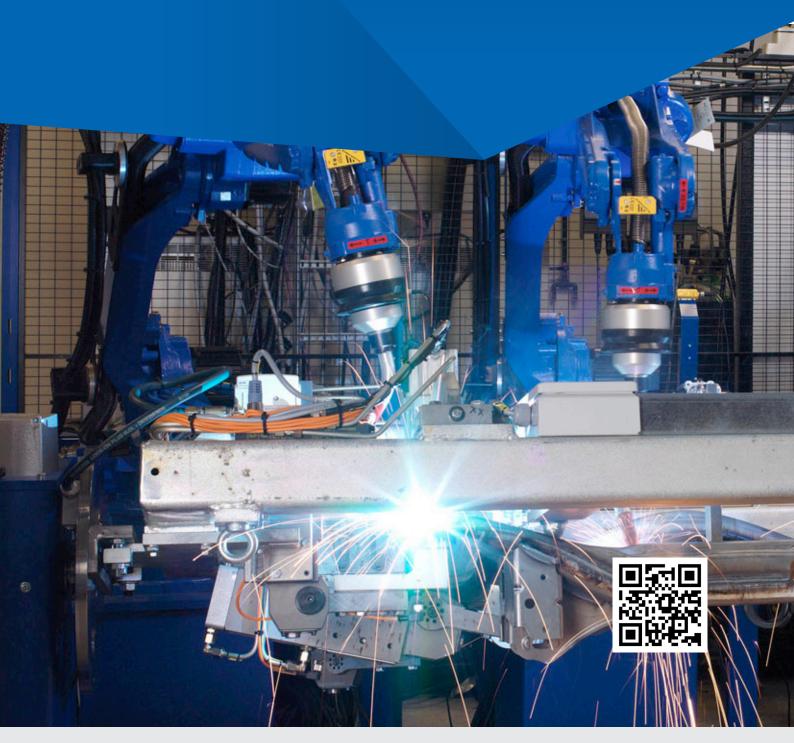
Scope of delivery

- MOTOMAN arc welding robot(s).
- YRC1000 control cabinet.
- Robot stand.
- Positioner.
- Net fencing, sheet metal or plexi walls.
- Optional equipment.

Options

- Single or twin robot system.
- Servo powered TSL track.
- Light curtains.
- Roller doors.
- Net fencing, sheet metal or plexi walls.
- Welding equipment and welding funcitonal kits.
- Positioner media transfer (controlled air and I/O-signal).

MOTOMAN industrial robots are designed for high performance and trouble-free operation



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Tel. +49 (0) 6196/77725-0 Fax +49 (0) 6196/77725-39 Technical data may be subject to change without previous notice.

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