COBOTARC



COMPLETE COBOT WELDING SOLUTIONS

Dealer partnerships welcome. OEM options available.

EXPAND YOUR LINEUP WITH COBOT WELDING

REAL MARKET DRIVERS

SKILLED LABOR SHORTAGE
Growing demand for practical welding automation.

WELDING CONSISTENCY
More consistent weld quality across shifts and operators.

PRODUCTIVITY PRESSURE
More output from the existing workforce.

LOWER AUTOMATION BARRIERS
Robotic welding within reach of more fabricators.

Built for different applications. Select customization options available.

ONE COBOT WELDING PLATFORM. THREE WAYS TO WELD.

01 / INTEGRATED WORKSTATION



PRODUCTION-READY

The part comes to the station.

Bring repeat jobs to one integrated welding station, with a fixturing table for consistent setup and efficient production of small to medium-sized parts.

BEST FOR

Batch Welding | Fixtured Parts | Repeat Jobs

02 / MOBILE COBOT WELDING SYSTEM



FLEXIBLE DEPLOYMENT

The cobot goes to the part.

Take welding automation to large, heavy, or hard-to-move workpieces. Move between production areas as jobs and workflows change.

BEST FOR

Large Fabrications | Heavy Weldments | Multiple Work Areas

03 / LINEAR TRACK SYSTEM



EXTENDED REACH

The cobot moves along the part.

Extend welding coverage to approximately 3.5 m with linear travel, accommodating long workpieces, extended seams, and larger fabricated structures.

BEST FOR

Long Beams | Frames | Long Weld Seams

ENGINEERED BY COBOTARC. READY FOR YOUR PRODUCT LINE.

COBOT WELDING SOLUTIONS

SYSTEM CONFIGURATIONS & TECHNICAL SPECIFICATIONS

ENGINEERED BY COBOTARC.
READY FOR YOUR PRODUCT LINE.

01 / INTEGRATED COBOT WELDING WORKSTATION



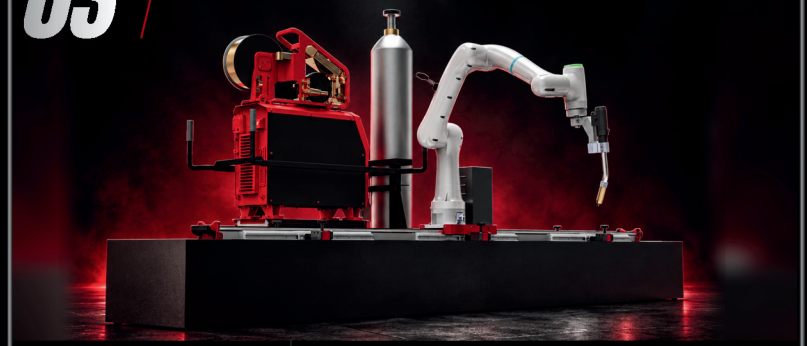
Robot	**CR12-14**
Rated Payload / Reach	12 kg / 1,434 mm
Welding Platform	3D Welding Table
Workholding	D16: Ø16 mm / D28: Ø28 mm
Workstation Layout	Single Table
Welding Table Dimensions	1,200 × 900 × 20 mm
Base / Cart Dimensions	1,600 × 900 × 980 mm
Cart Weight	500 kg
Approx. System Weight	560 kg

02 / MOBILE COBOT WELDING SYSTEM



Robot	**CR20-18**
Rated Payload / Reach	20 kg / 1,798 mm
Available Configurations	Basic / Framed / Fully Enclosed
Deployment	Ready to Go
Maximum Overall Length	3,400 mm
Cart Footprint	900 × 1,600 mm
Approx. Cart + Welding Power Source Weight	400 kg

03 / LINEAR TRACK SYSTEM



Compatible Robot	Aluminum Rail: SR5-09 Steel Rail: SR5-09 / CR7-10 / CR12-14 / CR20-18
Robot Quantity	Aluminum Rail: Single Cobot Steel Rail: Optional Multi-Robot
System Configuration	6+1 Axis System (7th Axis)
Linear Rail Type	Aluminum Rail / Steel Rail
Typical Installation	Aluminum Rail: Mobile Operation or Fixed Worktable Steel Rail: Fixed Floor Application
Cable Management	Aluminum Rail: Small-Range Cable Dragging Steel Rail: Drag Chain
Welding Coverage	Based on Rail Travel and Cobot Reach; Confirmed per Configuration
Effective Travel	Aluminum Rail: 2,000 mm Steel Rail: From 3,000 mm, Expandable
Rail Weight	Aluminum Rail: 37 kg/m; Steel Rail: 65 kg/m

COBOT OPTIONS & SPECIFICATIONS

Model	Payload	Reach	Robot Weight	Repeatability	Robot Arm IP Rating
SR5-09	5 kg	919 mm	Approx. 16.5 kg	±0.03 mm	IP54
CR7-10	7 kg	988 mm	Approx. 25 kg	±0.02 mm	IP67
CR12-14	12 kg	1,434 mm	Approx. 41 kg	±0.03 mm	IP67
CR20-18	20 kg	1,798 mm	Approx. 71 kg	±0.05 mm	IP67

WELDING POWER-SOURCE INTEGRATION

Digitally integrated with leading welding machine brands.

Fronius · ESAB · ewm · Panasonic · AOTAI · Megmeet

ADVANCED WELDING FUNCTIONS

Multi-Layer, Multi-Pass Welding

- Path planning
- Independent / reverse execution
- Automatic trajectory saving
- Auxiliary-axis coordination

Laser Seam Tracking

- Linear path tracking
- Triangular / sinusoidal weaving tracking
- Width-adaptive tracking
- Linear-track / auxiliary-axis coordination

Arc Seam Tracking

- Combined-path tracking
- Linear-track / auxiliary-axis coordination
- Adaptive arc tracking

MAXIMUM COORDINATED AXES
UP TO 6+4

MAX. 7TH-AXIS TRAVEL SPEED
6,000 MM/MIN

7TH-AXIS SERVO
750 W ETHERCAT SERVO DRIVE WITH BRAKE

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