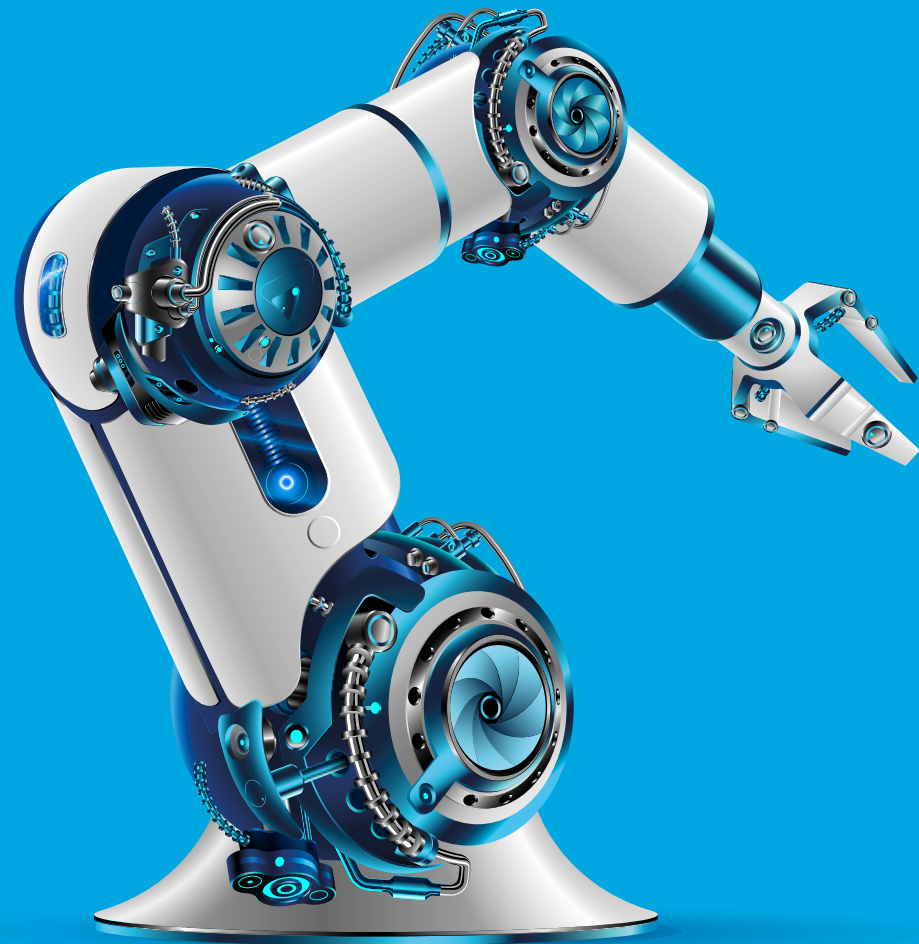


Smart Manufacturing Solutions





Who We Are

ARIA Technologies, a Giza Systems subsidiary, is leading in automation solutions for manufacturing industries. ARIA is a responsible and committed full service solutions provider and systems integrator delivering turnkey automation and energy optimization solutions to manufacturing companies across the MENA region. Partnering with world pioneers in robotics and automation, ARIA Technologies is a certified robot system integrator leading the digitalization of industrial technology.

What We Do

We work with our customers to create genuine and responsible value through offering state-of-the-art technologies for sustainable, efficient and resilient industries to support growth, development and the environment. Our services include automation systems, industrial IoT and energy optimization.

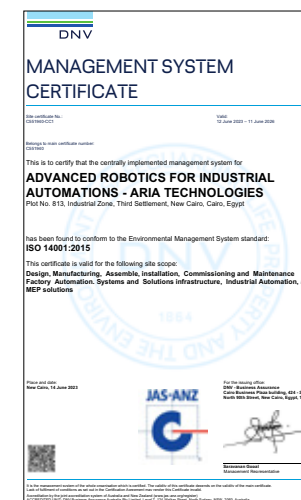
Our products and system integration solutions enable our customers to **reduce costs** and **increase Productivity, Flexibility** and **Precision of day-to-day operations**. Our core competencies include design and implementation of solutions with programmable controllers, information systems, drives, motion control and different robotic systems integration.

Our industrial IoT platform provides our customers with a number of capabilities including predictive maintenance, performance monitoring and energy efficiency solutions. IIoT delivers countless benefits ranging from real-time monitoring of performance and quality control to equipment maintenance and safety.

In addition to our industrial IoT platform, we also offer energy optimization solutions. We adopt the latest in cutting-edge technologies to reduce energy consumption, costs, and carbon footprint. Our team of experts offers customized re-tuning energy optimization and renewable energy integration solutions to transform infrastructures and support resilient sustainable industries.

Quality

ARIA Technologies strives to integrate quality in all its processes to ensure adherence to the best standards and practices. ARIA has received the ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.



Industrial Robot
System Integrator

ARIA Robot
Original Equipment Manufacturer

Smart Vision
System Integrator

Predictive Maintenance
Cloud Industrial Platform

Performance Monitoring
Cloud Industrial Platform

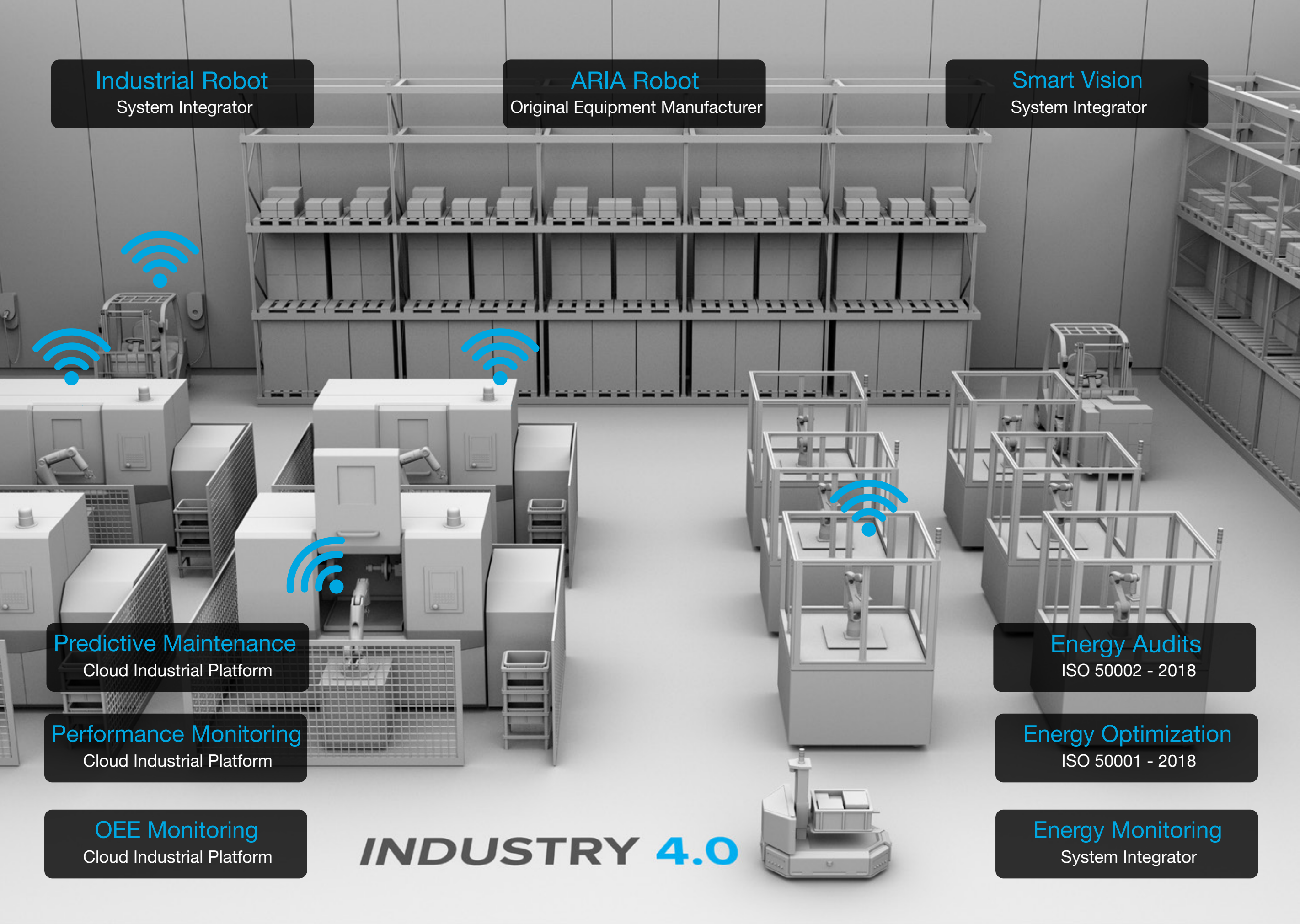
OEE Monitoring
Cloud Industrial Platform

Energy Audits
ISO 50002 - 2018

Energy Optimization
ISO 50001 - 2018

Energy Monitoring
System Integrator

INDUSTRY 4.0

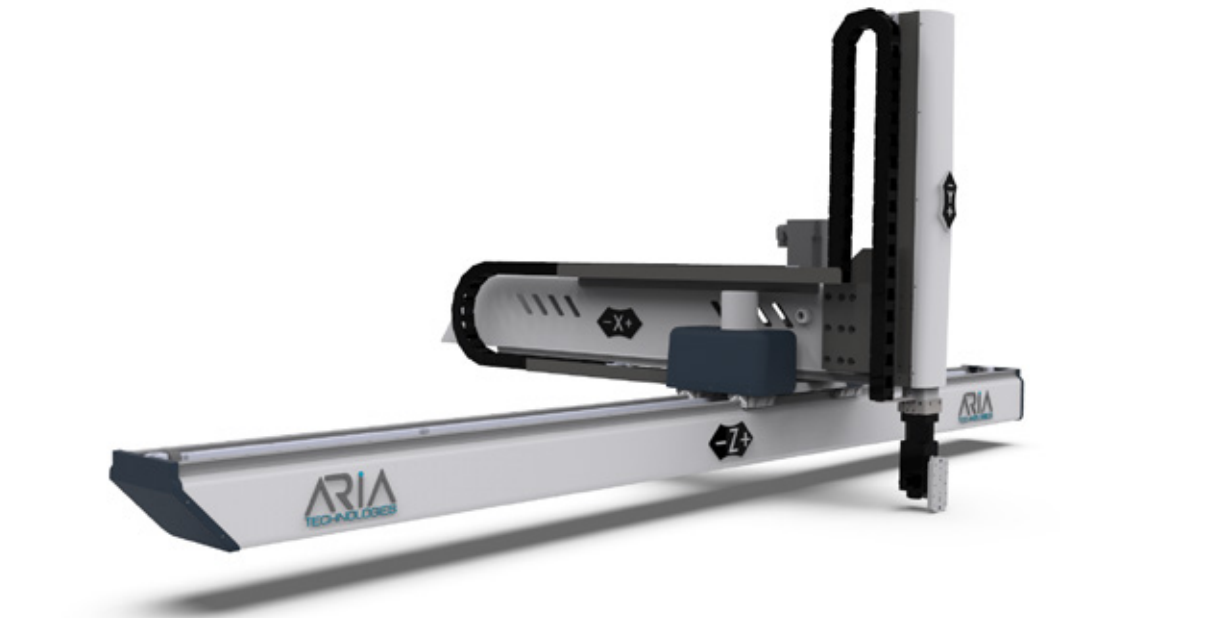


Linear Robots

Partner to **BECKHOFF** Germany

Our in-house developed line of linear robots allows us to offer our customers full systems integration, full design and full manufacturing capabilities.

We custom make your linear robot based on the specific application needed for your manufacturing operation.



The three-axis linear robot has Cartesian axes which are operated via the robot controller. Our different robotic solutions cater to the digitalization of the manufacturing process, providing our customers with the ability to increase productivity, Lower manufacturing costs, enhance flexibility and repurposing, Improve precision and accuracy, ensure highest quality standards and consistency, and increase work safety.

A 4th & 5th axles can be integrated to ARIA linear robot by adding the optional accessories.

Main Applications:

- Packaging & Palletizing
- Simple pick & place
- Sorting & stacking applications
- Multiple parts orientation in space
- Handling automation
- Loading & unloading applications



Technical Specifications

	Model	ARIA 200	ARIA 220	ARIA 340
Number of Axes		3 (4&5 Optional)		
Repeatability	mm	±0.05		
Main Horizontal Arm				
Stroke	mm	2,000	2,200	3,400
Speed	m/s	2	2	2
Ejector Stroke				
Stroke	mm	700	850	1,200
Speed	m/s	1.5	1.5	1.5
Vertical Arm				
		Single / Double		
Stroke	mm	1,200	1,500	1,800
(Telescopic) Speed	m/s	2.0	2.0	2.0
Maximum load (Part + EOAT)	Kg	10	40	60
Automation Control Unit				
BECKHOFF Germany / MITSUBISHI Japan				
Servo Motors				
MITSUBISHI Japan / BECKHOFF Germany / HIWIN Taiwan				
Pneumatic System				
FESTO Germany				
Rated Voltage	Volt	380		
Rated Power	kw	5.5	13	15
Frequency	Hz	50 / 60		
All Driven				
Servomotors				
Floor-standing control cabinet		-	√	√
Weight	Kg	300	400	500
Environment	°C	5 °C ~ 45 °C		
Standard Regulations				
ISO 10218-1 / ISO 13849-1 / IEC 60204-1				
OPTIONS				
Steel Mounting Base		√	√	√
Vacuum and/or pressure circuit		√	√	√
Pneumatic vertical tilting (0-90°)		√	√	√
Automatic Lubrication Sys.		√	√	√
Wireless Industrial tablet		√	√	√
EOAT Design & Manufacturing		√	√	√



The technical specifications and performances are given for information purposes only and for each standard robot configuration. As our products evolve constantly, certain illustrations and information may be modified without prior notice.

ARIA P60 Robot Arm

Our ARIA P60 Pick & Place Robot Arm

- Cost Efficient
- Precision
- Controller simplicity
- Enhance Flexibility & re-purposing

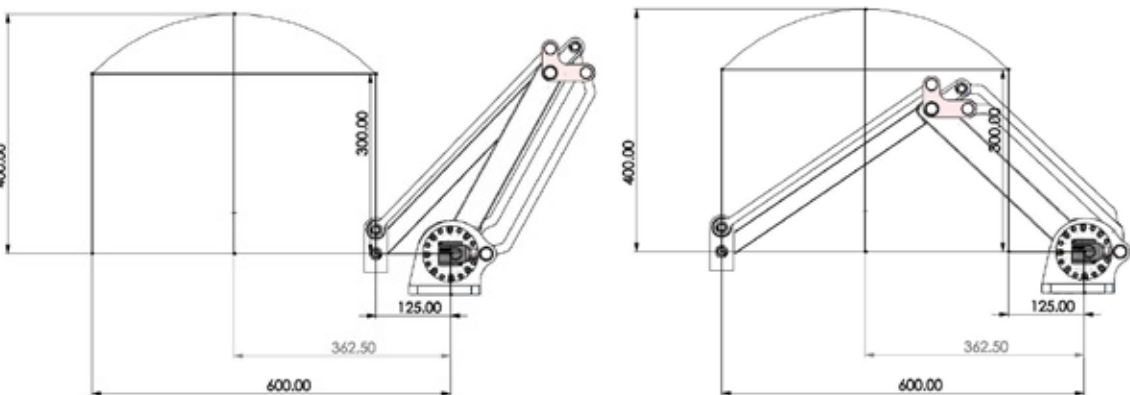


Technical Specifications

Model		ARIA P60	ARIA P60/90
Number of Axes		2	3
Repeatability	mm	±0.05	
Forward Stroke (Y)			
Stroke	mm	600	
Speed	m/s	1.25	
Horizontal Stroke (X)			
Stroke	mm	---	900
Speed	m/s	2	
Vertical Stroke (Z)			
Stroke	mm	400	
Speed	m/s	2	
Maximum load (Part + EOAT)	Kg	3	
Automation Control System		BECKHOFF Germany	
Pneumatic System		FESTO Germany	
Rated Voltage	Volt	220	
Rated Power	kw	3	4
Frequency	Hz	50 / 60	
All Driven		Servomotors	
Weight (Aluminum Structure)			
	Kg	15	20
Environment	°C	5 °C ~ 45 °C	

OPTIONS

Vacuum and/or pressure circuit	✓
Wireless Industrial tablet	✓
EOAT Design & Manufacturing	✓



The technical specifications and performances are given for information purposes only and for each standard robot configuration. As our products evolve constantly, certain illustrations and information may be modified without prior notice.

Packaging Solutions

Powered by **FESTO**, **BECKHOFF** and **YASKAWA**, ARIA's newly compact design will solve all your packaging needs.

With high-speed-picker and efficient handling axes with gripper technology, including control cabinet, friendly interface display programming, standard components, and safety functions operating units.

The most dynamic and energy-efficient technologies with a single-belt kinematic system that greatly reduces dead weight:

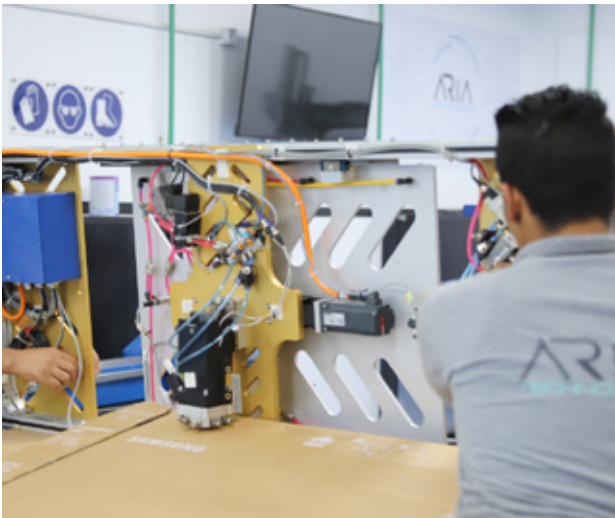
- Perfectly matched drive and controller package for quick commissioning
- Especially economical due to the low moving dead weight
- Short cycle times thanks to high dynamic response

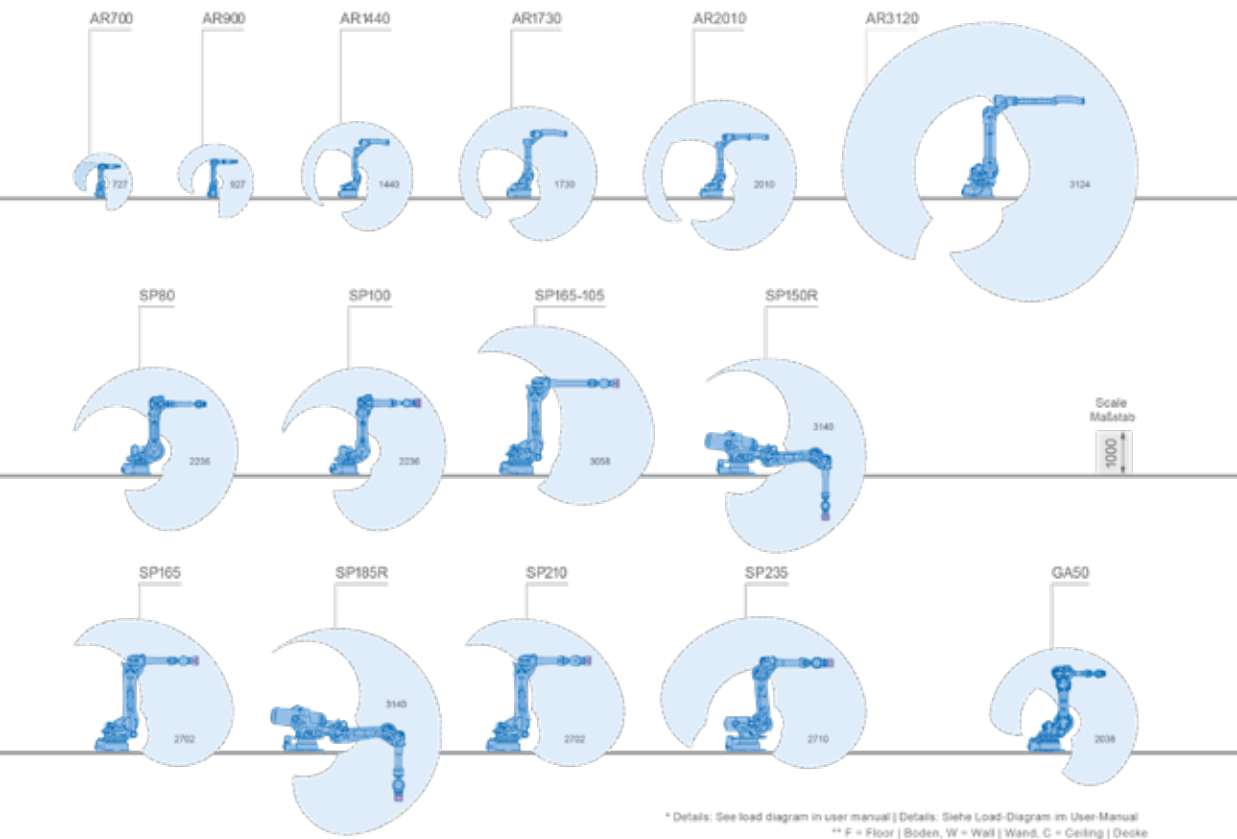


End-of-Arm-Tooling (EOAT)

Design and Build Service

From the simplest to the most complex EOAT, ARIA Technologies specializes in designing and building customized End-of-Arm-Tooling at competitive pricing.





Technical data Technische Daten	Arc Welding Lichtbogenschweißen						Spot Welding Punktschweißen								Laser Welding & Cutting Laserschweißen- und Schneiden
	AR-series AR-Serie						SP-series SP-Serie								
	AR700	AR900	AR1440	AR1730	AR2010	AR3120	SP80	SP100	SP165-105	SP150R	SP165	SP185R	SP210	SP235	
Industrial robot controller Industrieroboter-Steuerung	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000	YRC1000
Controlled axes Gesteuerte Achsen	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Max. payload * Max. Traglast *	[kg]	8	7	12	25	12	20	80 (88*)	100 (110*)	105 (120*)	151.5 (165*)	165 (180*)	186.5 (200*)	210 (225*)	235 (250*)
Repeatability Wiederholgenauigkeit	[mm]	± 0.01	± 0.01	± 0.02	± 0.02	± 0.03	± 0.07	± 0.03	± 0.03	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05
Max. working range R Max. Arbeitsbereich R	[mm]	727	927	1440	1730	2010	3124	2236	2236	3058	3140	2702	3140	2702	2710
Weight Gewicht	[kg]	35	37	150	250	260	560	630	660	1090	1760	1020	1830	1080	1345
Power supply, average Mittlere Anschlußleistung	[KVA]	1	1	1.5	2	2	2	4	5	5	5	5	5	5	5
Mounting option ** Montagemöglichkeit **	F, W, C, tilt/ geneigt	F, W, C, tilt/ geneigt	F, W, C, tilt/ geneigt	F, W, C, tilt/ geneigt	F, W, C, tilt/ geneigt	F, W, C, tilt/ geneigt	F, W, C, tilt/ geneigt	F, W, C, tilt/ geneigt	F	F	Shelf- mounted	F	Shelf- mounted	F	F
Protection class / Options Schutzklasse / Optionen	IP67	IP67	IP54/67	IP54/67 IP65/67	IP67	IP67	IP67	IP54/67	IP54/67	IP54/67	IP54/67	IP54/67	IP54/67	IP54/67	IP54/67

* without C-adapter | ohne C-Adapter

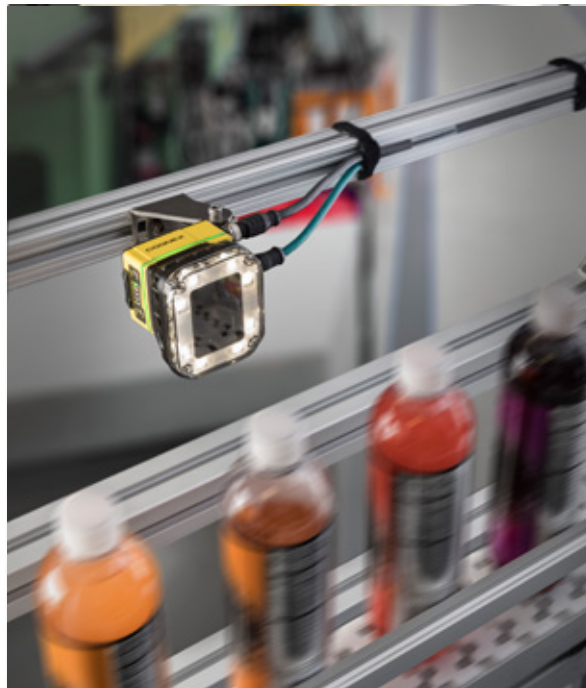


Smart Vision

Partner to **COGNEX**

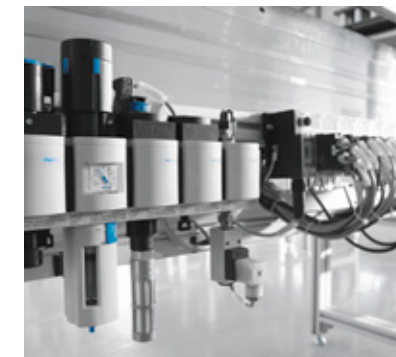
ARIA Technologies is a system integrator partner to Cognex advanced machine vision & industrial barcode reader systems, delivering instant improvements to any manufacturing process by enabling products to be made at higher speed, without defects and at lower cost.

The global leader in machine vision and barcode reading



Perfection in Pneumatic Motion

Partner to **FESTO**



We integrate Festo's portfolio for compressed air preparation, pneumatic actuators, directional control valves and valve terminals as well as mechanical and vacuum gripping solutions in all our state-of-the-art systems.

Why are we collaborating with Festo?

- For an outstanding and consistent quality.
- For uninterrupted production and reduced downtimes.
- For higher energy efficiency and sustainable operation.
- For high level of expertise in the industry and technical competence.



Industrial Robots-MELFA



From simple pick and place applications, to complex assembly tasks, Mitsubishi Electric industrial robots are equipped with class leading speed and precision.

Mitsubishi Electric industrial robots are coupled with intelligent options like 3D vision, force sensing, seamless PLC integration, and the ability to operate in “collaborative applications.”

Designed to work in a diverse range of high-speed applications, the RH (horizontal type) SCARA robots are ideal as a high speed robotic solution for even the most demanding of applications.

Mitsubishi Electric has the robots required for today’s demanding manufacturing applications.



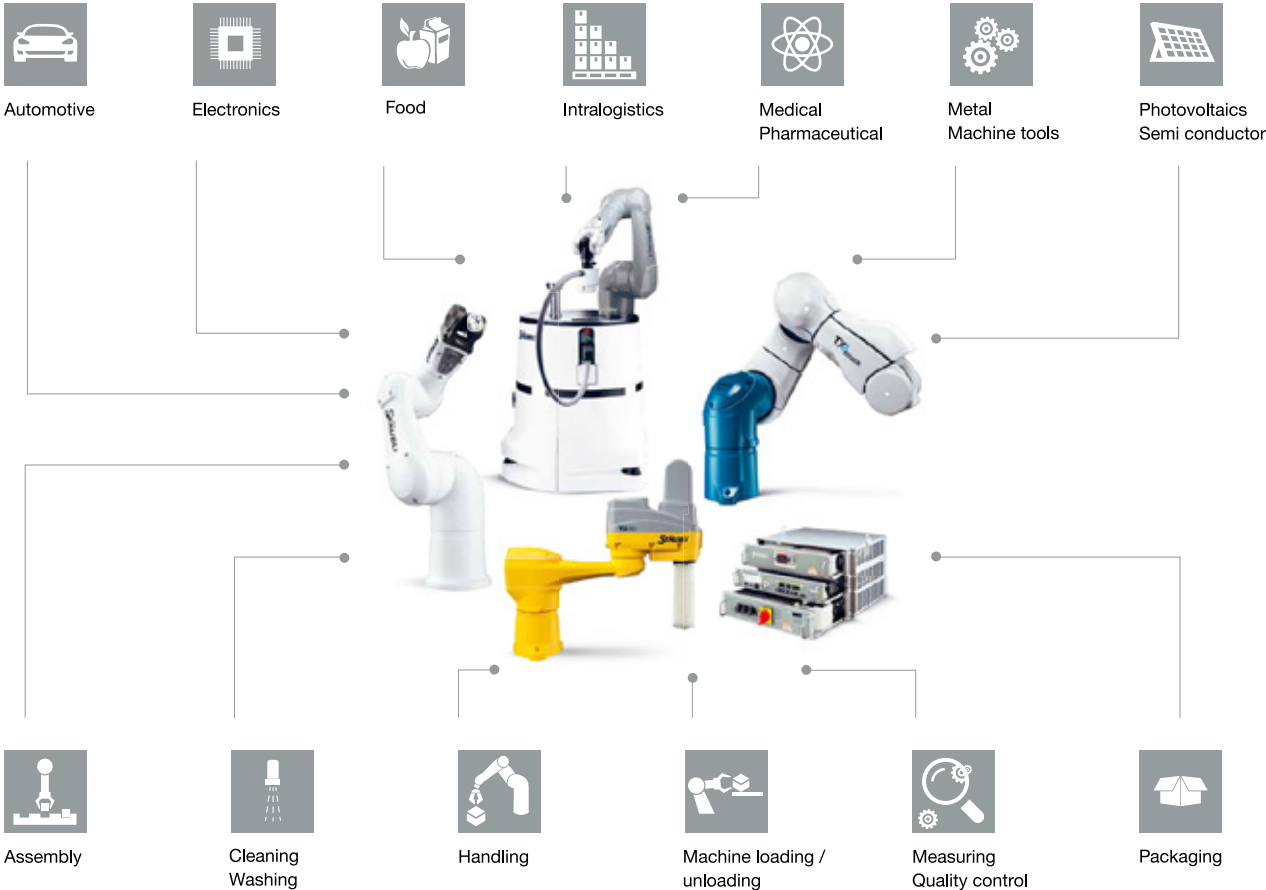
Industrial Robots



Stäubli Robotics is a leading international player in industrial automation, providing engineering and technical support recognized for their efficiency and reliability.

From SCARA, 6 axis robots and cobots to mobile robot systems and AGV, our Stäubli powerful, high-precision solutions allow us to work with clients in many industries to help them tackle the challenges of Industry 4.0.

Stäubli serve customers worldwide who aim to increase their industrial productivity without compromising quality, reliability or safety.



ARIA Cloud Industrial Platform

ARIA IoT-based platform is a cloud-based service that visualizes and optimizes performance, maintenance and energy usage.



Energy Monitoring

ARIA IoT-based platform is a cloud-based service that visualizes and optimizes your energy usage. After conducting the energy management system at your facility, the platform monitors and analyzes millions of data points each day and creates valuable insights. It enables you to analyze the performance and energy efficiency of your equipment at any time, and identify and prioritize corrective measures instantly.

The platform easily allows you to generate detailed follow-up reports that provide a breakdown of all equipment, buildings and energy systems connected to the platform. The reports visualize energy, performance, economy and CO2 savings. These reports can be used by those working in operations, finance and environmental projects to give them immediate access to real-time information allowing them to make the right decisions.



Predictive Maintenance

Predictive maintenance (PdM) techniques are designed to help determine the condition of equipment in order to predict when maintenance should be performed or possible breakdowns. Predictive maintenance promises cost savings over routine or time-based preventive maintenance, as the tasks are performed only when warranted.

Predictive maintenance measures include:

Vibration / Pressure / Temperature / Flow Rate / Weight / Torque / Speed / Stroke / Humidity / Level Sensors.



Performance Monitoring

Machine/robot real-time performance monitoring generates data that can be used to evaluate machine operational conditions and efficiency, needed for required perfective maintenance (PdM) and others smart factory applications.



ARIA Energy Solutions

Energy Audits ISO 50002-compliant

Our ISO 50002-compliant energy auditing process creates savings-opportunity plans based on our clients' specifications. These assessments focus on the largest consuming energy components, processes or equipment to identify opportunities for the reduction of energy waste, improvement of energy efficiency, and optimization of energy supply.



Energy Management Strategies ISO 50001-compliant

Good energy-management strategies and plans are essential to achieving energy conservation and efficiency targets. Facility owners can take prescriptive actions, and identify and evaluate targets and KPIs to ensure they are realistic and effective. All strategies developed for our clients meet the international ISO 50001 requirements to develop a plan, identify and implement improvements, measure results, and then enable continuous improvement.



Egypt

New Cairo

Head Office

Plot No. 176, Second
Sector,
City Center, P.O. Box 157
New Cairo 11835,
Egypt

☎ : +202 26146000 / 6111

📠 : +202 26146001

✉ : info@ariatechnologies.com

Factory

Plot No. 813,
3rd District, Industrial Zone,
New Cairo, Egypt

Saudi Arabia

Riyadh

Giza Arabia
Rosayes Business
Center,
P.O. Box 67765,
Riyadh 11517,
KSA

☎ : +966 1 460 2890

📠 : +966 1 460 2892

UAE

Dubai

Giza Systems DMCC
Fortune Tower - Office
No. 1306 - 13th Floor,
Dubai,
UAE

USA

New Jersey

GSI

MountainAve, Suite 307
Hackettstown, NJ 07840
United States

☎ +1908 813 8531



© 2023 ARIA Technologies. All rights reserved.

The logo of ARIA Technologies is a registered trademark.

ARIA Technologies, a Giza Systems subsidiary, is a responsible and committed full service solutions provider and systems integrator delivering turnkey automation and energy optimization solutions to manufacturing companies across the MENA region. Partnering with world pioneers in robotics and automation, ARIA Technologies is a certified robot system integrator leading the digitalization of industrial technology.

www.ariatechnologies.com | www.gizasystems.com