



RD AUTOMATION

Automation. Innovation. Growth.

INDUSTRIAL AUTOMATION & ROBOTICS CATALOG

Handling Robots • Cobots • Welding Robots • SCARA Robots
Palletizing Systems • Robot Controllers • VFDs, PLCs, HMIs & Servo Drives

An Authorized Delta Electronics Channel Partner

CRP Industrial Robots Partner

Coimbatore, Tamil Nadu, India • Serving Manufacturers Since 2012

13+

Years of Expertise

40+

Brands Partnered

2012

Founded in Coimbatore

FREE

Consultation & Site Visit

Contents

A complete guide to RD Automation's robotics, controls, and electrical automation product range.

01	About RD Automation
02	Why Choose Us
03	Product Range Overview
04	Handling Robots
05	Collaborative Robots (Cobots)
06	Welding Robots
07	SCARA Robots
08	Palletizing Systems
09	Controllers & Accessories
10	Software Modules
11	Industries We Serve
12	Frequently Asked Questions
13	Contact Us

Company Snapshot

13+	Years of Expertise	40+	Brands Partnered
2012	Founded in Coimbatore	Delta	Authorized Channel Partner

Ready to automate your line?

Call us for a free consultation and site visit.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

01 About RD Automation

RD Automation is a trusted name in industrial automation and robotics, founded in 2012 by Dinesh Kumar and built on more than 13 years of hands-on engineering expertise. Based in Coimbatore, Tamil Nadu, we design, integrate, and support complete automation systems that help manufacturers improve productivity, safety, and precision on the shop floor.

We are an authorized channel partner of **Delta Electronics India Pvt. Ltd.** and **CRP Industrial Robots**, combining proven global technology with practical, on-ground engineering experience. Our team works closely with manufacturers to understand real production challenges before recommending a system — from machine loading and welding to palletizing and end-of-line automation.

As a genuine system integrator, manufacturer, and trader, RD Automation supplies and supports a complete range of automation equipment for factories of every size:

- **Control Panels & Accessories** — custom-built enclosures engineered for industrial reliability.
- **AC Drives / VFDs, PLCs & HMIs** — the core building blocks of modern machine control.
- **AC Servo Motors & Drives, SMPS, SCADA** — precision motion and plant-wide monitoring.
- **SCARA & Articulated Robots** — six-axis and four-axis robotic arms for every payload class.
- **Industrial Sensors, PCs, Motion & Temperature Controllers** — the sensing and control layer that keeps production accurate.
- **Switchgear** — dependable power distribution and protection components.

13+Years of
Expertise**40+**Brands
Partnered**2012**Founded —
Coimbatore**100%**Free Consultation
& Site Visit**Talk to an automation expert**

Free consultation and site visit, no obligation.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

02 Why Choose Us

Successful automation depends on more than selecting the right robot — it requires practical engineering, correct integration, and dependable support throughout the project. Here is what sets RD Automation apart:

- **Production-Focused Automation.** Every solution is designed after studying your workflow, production targets, component handling, and factory layout to ensure practical automation that fits your operations.
- **Complete Integration Support.** From robot selection and system design to installation, programming, operator training, and after-sales support, we manage the complete automation journey end-to-end.
- **Real Manufacturing Experience.** We understand real shop-floor problems — handling heavy parts, repeating precise tasks, reducing errors, and improving cycle time — and design automation that lets your team focus on higher-value work.
- **Simple, Hassle-Free Integration.** Every solution is built to fit your existing machines and workflow, with no major changes or complex restructuring — just smooth integration into your current setup.
- **Authorized Technology Partner.** As an Authorized Partner of Delta Electronics and CRP Industrial Robots, we combine proven global technology with hands-on local engineering expertise.
- **Free Consultation & Site Visit.** Not sure where to start? Our experts offer a no-obligation consultation and site visit to help you identify the right automation opportunities.

Our Automation Journey

1. Requirement Analysis	2. Process Engineering	3. Solution Planning	4. Site Implementation
We study your production process, current challenges, output goals, and available floor space before planning the automation system.	Our team designs the robotic workflow, system layout, safety requirements, and motion sequence around your application.	We select the right robot, controls, and components to balance performance, investment, and long-term operating cost.	We install, program, test, and commission the system on-site, then train your team for confident daily operation.

Industries We Support

Automotive & Engineering	Electronics & FMCG	Metal & Fabrication
--------------------------	--------------------	---------------------

Let's plan your automation

Book a free requirement analysis today.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

03 Product Range Overview

A complete robotics and automation portfolio for every stage of your production line.

Category	Series	Best For
Handling Robots	RA / RH / RP Series	Machine loading, part transfer, assembly support
Cobots	RC Series (RC09, RC13)	Shared-workspace welding, assembly, inspection
Welding Robots	RA / RH / RC / RA-Laser Series	MIG, TIG, CO2 & laser welding
SCARA Robots	RS Series (RS04, RS06, RS08, RS10)	High-speed pick & place, light assembly
Palletizing Robots	RP Series & Heavy-Duty RP / RA	End-of-line stacking, warehouse loading
Controllers	G-Series & X-Series Cabinets	Robot motion & safety control
Teaching Pendants	CROBOTP-compatible	Robot programming & calibration
Electrical Systems	VFDs, PLCs, HMIs, Servo Drives	Machine & process control

Every product line is backed by full integration services: system design, installation, programming, commissioning, operator training, and ongoing after-sales support.

How We Support Every Category

- **Selection Guidance:** We help you choose the right payload, reach, and axis configuration for your exact application.
- **Turnkey Integration:** Mechanical, electrical, and software integration handled by one accountable team.
- **Local Support:** Coimbatore-based engineers for fast response, spares, and preventive maintenance.

Not sure which product fits?

Our engineers will help you select the right system.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

Industrial Handling Robots

RA SERIES • RH SERIES • RP SERIES

Our Industrial Handling Robots help factories move parts faster, safer, and more accurately, taking over everyday tasks such as loading and unloading machines, transferring parts between stations, and feeding assembly lines. 6-axis robots (RA/RH Series) offer flexible motion for machine tending and assembly support, while 4-axis robots (RP Series) deliver strong, fast performance for simple pick-and-place and transfer applications.

6 kg – 360 kg Payload	Up to 3130 mm Reach	IP54 / IP67 Protection
-----------------------	---------------------	------------------------

Specification	Range
Payload Capacity	6 kg – 360 kg
Max Reach	800 mm – 3130 mm
Repeatability	±0.05 mm – ±0.20 mm
Axes	4-Axis (RP Series) / 6-Axis (RA & RH Series)
Mounting	Floor / Wall / Inverted
Controller	G-Series (G9A, G11, G12, G15A)
Protection Rating	Body: IP54 / Wrist: IP67
Power Supply	3-Phase AC 380V ±10%
Communication	EtherCAT / Modbus / RS485 / Ethernet
Cycle Time	0.4s – 1.2s (typical, model dependent)
Working Temperature	0°C – 45°C

Applications

- **Machine Loading & Unloading:** Automated part transfer to CNCs, presses, and molding machines to enhance throughput.
- **Assembly Line Handling:** Streamlined component assembly with accuracy and speed.
- **Production Line Automation:** Continuous part movement between stations for smooth workflow.
- **Material Sorting & Transfer:** Intelligent handling of parts for packaging or post-processing.
- **End-of-Line Automation:** Integration with palletizing or inspection systems for complete factory automation.

Interested in Handling Robots?

Request a customized quote for your production line.
 +91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

Collaborative Robots (Cobots)

RC SERIES • RC09 & RC13

Our Cobots are built to work safely beside human operators, handling tasks that need precision and flexibility — welding, assembly, inspection, and light material handling. The RC Series offers smooth motion, built-in safety sensors, and simple programming, so operators can teach tasks quickly without complex setup. Compact and easy to relocate between workstations, they suit both small batches and continuous operations.

5 – 10 kg Payload	±0.02 mm Repeatability	Safe Human Collaboration
-------------------	------------------------	--------------------------

Specification	Range
Payload Capacity	5 – 10 kg
Reach	900 – 1300 mm
Repeatability	±0.02 mm – ±0.03 mm
Axes	6-Axis Articulated
Mounting Options	Floor / Table / Wall
Controller	X2 / X3 (G-Series for Weld Cobots)
Protection Rating	IP54 (standard)
Power Supply	110–242V AC
Communication	EtherCAT / Modbus / Ethernet I/O
Operating Temperature	0°C – 45°C
Functions Supported	Handling, welding, assembly, inspection

Applications

- **Automotive Components:** Precision assembly, collaborative welding, small-part handling.
- **Electronics & Electrical Manufacturing:** Soldering support, small assembly, pick & place of delicate items.
- **General Manufacturing:** Repetitive tasks, machine tending, flexible workstation automation.
- **Metal & Fabrication:** Collaborative MIG/TIG welding with operator assistance.
- **Pharma & FMCG:** Packaging, inspection, light-weight sorting with safety compliance.

Considering a Cobot?

Speak to our team about safe, flexible automation.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

Robotic Arm Welding Machines

RA WELDING • RH WELDING • RC WELDING COBOTS • RA-LASER

Our Welding Robots provide safe, fast, and consistent welding for general manufacturing, designed for MIG, TIG, CO2, and Laser welding. With smooth 6-axis motion, they handle complex angles, multi-layer seams, and difficult weld positions with ease, working continuously with the same accuracy to reduce defects and avoid the risks of manual welding in hot or hazardous areas.

- **RA Welding Series** — strong reach and stability for medium to heavy welding.
- **RH Welding Series** — compact and agile for small to mid-size jobs.
- **RC Welding Cobots** — safe, shared-workspace welding with easy programming.
- **RA-Laser Series** — precision laser welding for clean, low-distortion seams.

MIG / TIG / CO2 / Laser	6-Axis Smooth Motion	24/7 Consistent Quality
-------------------------	----------------------	-------------------------

Specification	Range
Payload Capacity	5 – 10 kg
Reach	900 – 1300 mm
Repeatability	±0.02 mm – ±0.03 mm
Axes	6-Axis Articulated
Mounting Options	Floor / Table / Wall
Controller	X2 / X3 (G-Series for Weld Cobots)
Protection Rating	IP54 (standard)
Power Supply	110–242V AC
Communication	EtherCAT / Modbus / Ethernet I/O

Applications

- **Collaborative Welding:** Enables high-quality, precise welding while maintaining human safety standards.
- **Assembly & Screwdriving:** Assists in small-part assembly, fastening, and inspection processes.
- **Pick and Place:** Ideal for repetitive, low-payload material handling in shared workspaces.
- **Machine Tending:** Safely loads/unloads parts without physical separation from operators.
- **Testing & Inspection:** Integrated vision systems enable automated inspection and measurement tasks.

Need reliable weld quality?

Ask about our welding robot lineup today.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

SCARA Robots

RS SERIES • RS04, RS06, RS08, RS10

Our SCARA Robots are designed for fast, accurate pick-and-place and light assembly tasks, ideal for electronics, FMCG, packaging, and general manufacturing where small parts need to be moved quickly and precisely. The RS Series offers smooth high-speed motion and stable repeatability, suited to sorting, placing components, loading fixtures, and quick transfer cycles. Their compact size fits easily into tight production spaces.

0.35–0.49s Cycle Time	±0.01 mm Repeatability	Compact Footprint
-----------------------	------------------------	-------------------

Specification	Range
Payload Capacity	3 – 10 kg
Reach	400 – 1000 mm
Repeatability	±0.01 – ±0.03 mm
Axes	4-Axis SCARA
Cycle Time	0.35 – 0.49 sec
Controller	CROBOT P G12
Mounting	Table / Floor / Wall / Overhead
Protection Rating	IP40
Power Supply	AC 220V Single Phase
Communication	EtherCAT / Modbus / Digital I/O
Operating Temperature	0°C – 45°C

Applications

- **Pick and Place Automation:** High-speed product sorting, packing, and assembly operations.
- **Electronics Manufacturing:** PCB assembly, component insertion, soldering, and testing.
- **Automotive Components:** Small-part handling and fast assembly line operations.
- **Packaging & FMCG:** Box, pouch, and bottle placement at high cycle rates.
- **Medical & Pharmaceutical:** Cleanroom-compatible precision handling and labeling.

Need high-speed pick & place?

Talk to us about the right SCARA model.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

Robotic Palletizing Systems

RP SERIES • HEAVY-DUTY RP / RA

Our Palletizing Robots help factories handle end-of-line packing tasks quickly and consistently — carton stacking, bag palletizing, warehouse movement, and automated dispatch. The RP Series and Heavy-Duty variants offer long reach, strong lifting capacity, and smooth 4-axis motion for forming stable pallets with speed and accuracy, while reducing handling errors and improving overall line efficiency.

Up to 210 kg Payload	Up to 3130 mm Reach	Round-the-Clock Uptime
----------------------	---------------------	------------------------

Specification	Range
Payload Capacity	25 – 180 kg (RP Series) / 20 – 210 kg (RA Series)
Max Reach	1500 – 3130 mm
Repeatability	±0.10 – ±0.20 mm
Axes	4-Axis (RP) / 6-Axis (RA)
Mounting	Floor-mounted
Protection Rating	IP54 (Body) / IP67 (Wrist)
Power Supply	3-Phase 380V AC ±10%
Communication	EtherCAT / Modbus / RS485
Working Temperature	0°C – 45°C
Applications Supported	Palletizing, Pick & Place, Stacking, Loading

Applications

- **End-of-Line Packaging:** Automates stacking of cartons, bags, or boxes for efficient shipping preparation.
- **Logistics & Warehousing:** Streamlines pallet loading and unloading operations for faster inventory movement.
- **Pick and Place Palletizing:** Designed for high-speed pick-and-place palletizer systems.
- **Food, Beverage & FMCG:** Ensures consistent palletizing for crates, bottles, and consumer goods.
- **Chemical & Pharmaceutical:** Handles drums, sacks, and containers with precision and care.

Automate your end-of-line?

Get a palletizing system tailored to your output.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

Robot Control Systems — G-Series & X-Series Cabinets

We engineer intelligent robot control systems that power precision, stability, and safety across industrial robots. Our G-Series and X-Series control cabinets bring seamless coordination between motion, sensors, and servo systems, combining high-performance hardware, efficient cooling, and integrated safety circuits.

Specification	Range
Power Supply	220V AC Single Phase / 380V AC Three Phase
Supported Axes	4–6 Axis Robots
Communication	EtherCAT / Modbus / RS485 / Ethernet
Cooling System	Forced Air Cooling / Heat Dissipation Modules
Safety Systems	Dual-Circuit E-stop, STO, Overheating Protection
Mounting	Floor-Standing / Wall-Mounted Cabinet
Protection Rating	IP20 – IP54 (Model Dependent)
Integrated Modules	UPS, Noise Filters, Transformer, DC Bus Filtering

Robot Teaching Pendants

Designed for safe, intuitive control over industrial robots during programming, calibration, and manual operation. Built in collaboration with CROBOTP, our teaching pendants offer high-resolution TFT-LCD displays, ergonomic design, and industrial-grade construction — compatible with handling, welding, cobot, and SCARA systems.

Specification	Range
Display Size	5.6” – 8” TFT-LCD
Interface	USB / Ethernet / I/O
Safety Controls	Emergency Stop, Enabling Switch, Mode Selector
Compatibility	All CROBOTP Robot Series (RA, RH, RP, RC, RS)
Operating Modes	Manual Jogging, Auto Mode, Teaching Mode

Delta Electrical Automation Products

- **VFD / AC Drives** — precise motor speed and torque control for energy-efficient operation.
- **PLC Systems** — reliable logic control for machines and process automation.
- **Touch Panel HMIs** — intuitive operator interfaces for monitoring and control.
- **Servo Motors & Drives** — high-precision motion control for demanding applications.

Upgrading your control system?

Ask about G-Series & X-Series cabinets.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

10 Software & Functional Modules

Developed to support CROBOTP's G-Series and X-Series controllers.

Powerful hardware is only as good as the software that drives it. Our Software & Functional Modules make every robot smarter, faster, and more adaptable to specific industrial tasks — enhancing performance through intelligent programming, real-time monitoring, and process optimization.

- **Welding Module:** Enables advanced path control, multi-layer welding, and real-time arc tracking for MIG, TIG, and laser processes, with pre-built templates for uniform weld quality.
- **Handling & Palletizing Module:** Optimizes motion for smooth material transfer, loading/unloading, and stacking, with customizable pallet patterns and path optimization.
- **Bending & Spraying Module:** Provides precise motion synchronization for press-brake bending and paint spraying automation, maintaining consistent tool angles and speeds.
- **Vision & Tracking Module:** Integrates camera-based guidance and object detection for high-accuracy picking, inspection, and position tracking in smart manufacturing environments.

Faster Setup Time	Higher Repeatability	Zero-Defect Production
-------------------	----------------------	------------------------

Why Software Matters

Every RD Automation robot ships with software support tailored to your process, reducing commissioning time and giving operators an intuitive way to manage complex motion sequences. Our engineers configure and fine-tune each module on-site to match your exact production requirements before handover.

Want smarter robot software?

Ask about our functional module packages.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

11 Industries We Serve

Our robotics and automation solutions are built for manufacturing facilities of every scale.

■ Automotive Industry

Assembly robots, welding cells, and handling systems for high-volume vehicle and component production.

■ Warehouse Industry

Palletizing and material movement automation for faster, safer inventory operations.

■ Logistics & Transportation

End-of-line packing and pallet-handling robots for dispatch-ready operations.

■ Electronics Industry

High-speed SCARA and pick-and-place systems for PCB assembly and precision handling.

■ Metal & Fabrication Industry

Robotic welding and handling systems built for heavy-duty fabrication work.

■ Machinery Manufacturing

Custom integration across CNC, press, and assembly machinery for smart production.

From automotive assembly robots to advanced 6-axis robotic arms, we build reliable automation systems trusted across textile, engineering, packaging, and heavy manufacturing sectors throughout India.

Certifications & Recognitions

- **Delta Channel Certification** — recognized authorized partner status with Delta Electronics.
- **Special Purpose Machinery (SPM) Capability** — custom-built machines for unique process needs.
- **Custom Control Panel Manufacturing** — in-house design and build of industrial control panels.

Not seeing your industry?

We build custom automation for any manufacturing process.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

12 Frequently Asked Questions

Q. Do you provide installation, training, and after-sales support?

Absolutely. We handle complete installation, robot programming, operator training, and ongoing maintenance to ensure smooth and safe operation.

Q. Can robots be integrated into my existing machines and production line?

Yes. Our systems are designed to fit your current workflow without major layout changes. We integrate robots seamlessly with your machines, conveyors, sensors, and controllers.

Q. What is an automated material handling system?

A setup that uses robots, conveyors, AGVs, sensors, and control systems to move products efficiently within a factory — reducing manual labor, improving workflow, increasing safety, and ensuring consistent handling throughout production, packaging, and storage.

Q. How do pallet picking robots work?

They use 3D vision, sensors, and programmed motion paths to identify, lift, and place products on pallets, calculating the safest and fastest pick path and stacking products according to the required pattern.

Q. What is the cost of a pick and place robot machine?

Cost depends on payload capacity, speed, reach, type of gripper, vision requirements, and level of integration needed. Once we understand your application, we provide a customized quotation based on your exact process and automation goals.

Q. How long does a typical automation project take?

Timelines vary with system complexity, but most projects move from requirement analysis to commissioning within a few weeks once the solution is finalized and components are ready.

Have a question of your own?

Reach out — our team responds within 24 hours.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com

13 Get In Touch

Book a free consultation and site visit with our automation experts.

PHONE	+91 8220081153 +91 8220444915
EMAIL	info.rdautomation@gmail.com dinesh.kumar@rdautomationindia.com
WEBSITE	www.rdautomationindia.com
REGISTERED OFFICE	18, 19 Sri Baba Complex, Thaskhant Nagar, Goldwins, Coimbatore – 641014, Tamil Nadu, India
BRANCH OFFICE	134/225, VOC Street, R.S. Puram, Ramanathapuram, Coimbatore – 641045, Tamil Nadu, India
SOCIAL	Facebook • X (Twitter) • Instagram • YouTube — @rdautomation22

RD Automation makes industries better by improving work, saving time, and reducing costs with smart automation solutions. Whether you're planning a new production line or upgrading an existing one, our team is ready to help you automate with confidence.

Why Manufacturers Choose to Work With Us

13+ Years Experience	Free Site Consultation	End-to-End Integration
----------------------	------------------------	------------------------

Ready to get started?

Call, email, or visit our website to request a quote.
+91 8220081153 / +91 8220444915 •
info.rdautomation@gmail.com