

ROBOTICS Product Catalog

Next-Gen Delta Robots





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Introduction to the Rolumac Robotics Catalog

Welcome to the Rolumac Robotics catalog, your premier destination for cutting-edge delta robots designed specifically for pick and place applications. Our delta robots are delivered without motors and control systems, allowing you the flexibility to integrate the motors and control systems of your choice. We have carefully curated a selection of servo motors that provide the best performance across various robot types, ensuring compatibility with all major control brands. For specialized applications, we also offer custom motor and gearbox selections based on precise calculations.

We offer two basic types of robot mechanics:

- 1. **2-Axis Robots**: These robots move within a flat plane, ideal for 2-dimensional operations.
- 2. **3-Axis Delta Robots**: These robots operate within a three-dimensional space, providing enhanced versatility for complex tasks.

Depending on your specific needs, our robots can be equipped with additional rotation axes for rotational and tilt functions, as well as gripper functions. This allows us to offer robots with configurations ranging from 2 to 5 degrees of freedom (2 to 5 DoF).

Our robot series are designed to cater to different environmental conditions, from standard dry settings to environments that require high-pressure warm water cleaning, in combination with various cleaning agents, meeting stringent hygiene requirements. We also provide solutions for extreme temperatures and certain cleanroom conditions.

Explore our catalog to find the perfect robotic solution for your unique requirements, ensuring top performance and reliability in any application.

Naming System





SD2 Series [up for release]

Release Planned Q3 2025 Payloads up to 5kg, 35kg, 125kg Working range: up to 1600mm





SD2-E-600-DVW [up for release]

Release planned Q3 2025 2 Axis Robot moving in 2-Dimensional space



Payload 125 kg

Working range Ø600x280

Specifications

Nominal torque arm: 400Nm Cycle time: up to 60/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Viwateq Materials: Stainless steel 304 Weight Excl servomotors: 700kg Use Case: Depositing / Filling applications

Accessories

Calibration tool Tool line routing Floor Mounting Frame



SD3-A-NR-500

Standard Delta Robot moving in 3D space







Payload 2 kg

Working range Ø500x200

Specifications

Nominal torque arm: 58Nm Cycle time: up to 140/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 24 kg

Options

Rotation axis Wash down arms and rotation axis Half or no motor covers White label



SD3-A-R10-500

Standard Delta Robot moving in 3D space







Payload 2 kg

Working range Ø500x175

Specifications

Nominal torque arm: 58Nm Cycle time: up to 140/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 25 kg

Options

Rotation axis 10Nm Wash down arms and rotation axis Half or no motor covers White label



SD3-B Series





SD3-B-NR-700

Standard Delta Robot moving in 3D space







Payload 5 kg

Working range Ø700x360

Specifications

Nominal torque arm: 126Nm Cycle time: up to 200/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 35 kg

Options

Rotation axis Tilt axis Wash down arms and rotation axis High torque gearboxes Half or no motor covers White Label



SD3-B-R10-700

Standard Delta Robot moving in 3D space



Payload 5 kg

Working range Ø700x360

Specifications

Nominal torque arm: 126Nm Cycle time: up to 200/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 37 kg

Options

Rotation axis 10Nm Ball spline rotation axis 15Nm Tilt axis Wash down arms and rotation axis High torque gearboxes Half or no motor covers White label



SD3-B-NR-900

Standard Delta Robot moving in 3D space







Payload 5 kg

Working range Ø900x400

Specifications

Nominal torque arm: 126Nm Cycle time: up to 200/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 35 kg

Options

Rotation axis Tilt axis Wash down arms and rotation axis High torque gearboxes Half or no motor covers White Label



SD3-B-R10-900

Standard Delta Robot moving in 3D space



Payload 5 kg

Working range Ø900x400

Specifications

Nominal torque arm: 126Nm Cycle time: up to 200/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 37 kg

Options

Rotation axis 10Nm Ball spline rotation axis 15Nm Tilt axis Wash down arms and rotation axis High torque gearboxes Half or no motor covers White label



SD3-B-NR-1100

Standard Delta Robot moving in 3D space







Payload 4 kg

Working range Ø1100x400

Specifications

Nominal torque arm: 126Nm Cycle time: up to 200/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included

Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 35 kg

Options

Rotation axis Tilt axis Wash down arms and rotation axis High torque gearboxes Half or no motor covers White Label



SD3-B-R10-1100

Standard Delta Robot moving in 3D space



Payload 4 kg

Working range Ø1100x400

Specifications

Nominal torque arm: 126Nm Cycle time: up to 200/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 37 kg

Options

Rotation axis 10Nm Ball spline rotation axis 15Nm Tilt axis Wash down arms and rotation axis High torque gearboxes Half or no motor covers White label



SD3-B-NR-1300

Standard Delta Robot moving in 3D space



Payload 3,5 kg

Working range Ø1300x450

Specifications

Nominal torque arm: 126Nm Cycle time: up to 200/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 36 kg

Options

Rotation axis Tilt axis Wash down arms and rotation axis High torque gearboxes Half or no motor covers White Label



SD3-B-R10-1300

Standard Delta Robot moving in 3D space



Payload 3,5 kg

Working range Ø1300x450

Specifications

Nominal torque arm: 126Nm Cycle time: up to 200/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 38 kg

Options

Rotation axis 10Nm Ball spline rotation axis 15Nm Tilt axis Wash down arms and rotation axis High torque gearboxes Half or no motor covers White label

450



SD3-B-NR-1600

Standard Delta Robot moving in 3D space



Payload 2.5 kg

Working range Ø1600x550

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 36 kg

Options

Rotation axis 10Nm Ball spline rotation axis 15Nm Tilt axis Wash down arms and rotation axis High torque gearboxes Half or no motor covers White label



SD3-B-R10-1600

Standard Delta Robot moving in 3D space



Payload 2.5 kg

Working range Ø1600x550

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 38 kg

Options

Rotation axis 10Nm Ball spline rotation axis 15Nm Tilt axis Wash down arms and rotation axis High torque gearboxes Half or no motor covers White label



SD3-C Series [up for release]

Release Planned Q2 2025 Payloads up to 20kg Working range: up to 1600mm





SD3-D Series [up for release]

Release planned Q4 2025 Payloads up to 35kg Working range: up to 2200mm



SD5-B Series





5 Axis Standard Delta Robot moving in 3D space







Payload 2 kg

Working range Ø700x300

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments TCP: Rotary & tilt air feed through Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 39 kg

Options



5 Axis Standard Delta Robot moving in 3D space







Payload 2 kg

Working range Ø900x350

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments TCP: Rotary & tilt air feed through Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 39 kg

Options



5 Axis Standard Delta Robot moving in 3D space







Payload 1.5 kg

Working range Ø1100x390

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments TCP: Rotary & tilt air feed through Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 39 kg

Options



5 Axis Standard Delta Robot moving in 3D space



Payload 1.5 kg

Working range Ø1300x430

Specifications

Nominal torque arm: 126Nm Cycle time: up to 140/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments TCP: Rotary & tilt air feed through Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 40 kg

Options



5 Axis Standard Delta Robot moving in 3D space



Payload 1 kg

Working range Ø1600x520

Specifications

Nominal torque arm: 126Nm Cycle time: up to 80/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: in dry environments TCP: Rotary & til air feed through Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Anodized Materials: Aluminum / Carbon Fiber Weight Excl servomotors: 40 kg

Options



ST3 Series [up for release]

Release Date Pending



ST5 Series [up for release]

Release date Pending



HD2 Series [up for release]

Release date pending



HD3-B Series





HD3-B-NR-700

Hygienic Delta Robot moving in 3D space



Payload 3 kg

Working range Ø700x360

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: wet environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Viwateq Materials: Stainless steel 316 Titanium Weight Excl servomotors: 84 kg

Options

Rotation axis 10Nm IP65 classification IP69K classification High torque gearboxes Hygienic open structure designincluding stainless steel gearboxes



HD3-B-HR10-700

Hygienic Delta Robot moving in 3D space



Payload 3 kg

Working range Ø700x340

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: wet environments Rotation axis: 10Nm Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Viwateq Materials: Stainless steel 316 Titanium Weight Excl servomotors: 87 kg

Options

IP65 classification IP69K classification High torque gearboxes Hygienic open structure designincluding stainless steel gearboxes



HD3-B-NR-900

Hygienic Delta Robot moving in 3D space



Payload 3 kg

Working range Ø900x400

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: wet environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Viwateq Materials: Stainless steel 316 Titanium Weight Excl servomotors: 84 kg

Options

Rotation axis 10Nm IP65 classification IP69K classification High torque gearboxes Hygienic open structure designincluding stainless steel gearboxes



HD3-B-HR10-900

Hygienic Delta Robot moving in 3D space



Payload 3 kg

Working range Ø900x400

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: wet environments Rotation axis: 10Nm Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Viwateq Materials: Stainless steel 316 Titanium Weight Excl servomotors: 87 kg

Options

IP65 classification IP69K classification High torque gearboxes Hygienic open structure designincluding stainless steel gearboxes



HD3-B-NR-1100

Hygienic Delta Robot moving in 3D space



Payload 3 kg

Working range Ø1100x400

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: wet environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Viwateq Materials: Stainless steel 316 Titanium Weight Excl servomotors: 85 kg

Options

Rotation axis 10Nm IP65 classification IP69K classification High torque gearboxes Hygienic open structure designincluding stainless steel gearboxes



HD3-B-HR10-1100

Hygienic Delta Robot moving in 3D space







Payload 3 kg

Working range Ø1100x400

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: wet environments Rotation axis: 10Nm Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Viwateq Materials: Stainless steel 316 Titanium Weight Excl servomotors: 88 kg

Options

IP65 classification IP69K classification High torque gearboxes Hygienic open structure designincluding stainless steel gearboxes



HD3-B-NR-1300

Hygienic Delta Robot moving in 3D space



Payload 3 kg

Working range Ø1300x450

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: wet environments Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Viwateq Materials: Stainless steel 316 Titanium Weight Excl servomotors: 85 kg

Options

Rotation axis 10Nm IP65 classification IP69K classification High torque gearboxes Hygienic open structure designincluding stainless steel gearboxes



HD3-B-HR10-1300

Hygienic Delta Robot moving in 3D space



Payload 3 kg

Working range Ø1300x450

Specifications

Nominal torque arm: 126Nm Cycle time: up to 150/min Position repeatability: ± 0.1 mm Noice level: <68 dB (A) Applications: wet environments Rotation axis: 10Nm Servomotors not included Gearbox oil: Foodgrade oil Surface treatment: Viwateq Materials: Stainless steel 316 Titanium Weight Excl servomotors: 88 kg

Options

IP65 classification IP69K classification High torque gearboxes Hygienic open structure designincluding stainless steel gearboxes



Rotation axis options

R10 | 10Nm Rotation axis without lubrication





Available for: A/B Series

HR10 | 10Nm Hygienic design Rotation axis without lubrication

BR15 | 15Nm Precision ball spline Rotation axis with lubrication



Available for: B Series



Accessories

Tool line routing kit | Lower arm, Upper arm & Robot base clips to attach air hoses secured with cable ties. Available for: A/B/C/D Series







Calibration Tool Primary Arms | Set the robot arms to the zero position

Available for: A/B/C/D Series





Calibration Tool TCP Tilt Swing 5th Axis | Set the Tilt swing to the zero position Available for: SD5 Series





Frame Mounting Brackets | Available for: A/B/C/D Series





Disclaimer

Despite all efforts Rolumac Robotics B.V. does not guarantee that the information in this product catalog is complete, accurate and always up-to-date. Rolumac Robotics B.V. at all times reserves the right to make changes or make additions to the information without prior notice.

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Compliance with the Rolumac manual is a condition for the correct use of the robot mechanics. Read the instructions before you are mounting the robot mechanics!

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Elevation Through Automation