STRONG3000

TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

AUTOMATION & ROBOTICS

Two-Axis Reciprocator

The Two-Axis Reciprocator adds in/out motion to the vertical stroke, moving automatic guns toward and away from the part — a coordinated two-axis motion for consistent powder coverage on surfaces of varying depth and recess.

Open online

strong3000.com/en/products/reciprocator-two-axis/



KEY FIGURES

Axes	Stroke	Speed	Control
Vertical stroke + horizontal positioning	**500 – 2,500 mm (project-based)**	**0 – 0.5 m/s (adjustable)**	**Automatic positioning with part detection**

OVERVIEW

Vertical Stroke, In/Out Control.

The Two-Axis Reciprocator moves guns forward and back toward the part in addition to the vertical stroke, keeping gun-to-part distance optimal across differing depths and surfaces for uniform coating.

It adds flexibility for handling parts of varying profile and pairs with Smart and Smart AI control as part of a coordinated line.



IN MOTION

Vertical Stroke and In/Out Motion.

Two-axis reciprocators move the guns up and down in the booth opening. The in/out axis brings the guns closer to the part and withdraws them from the booth when the job is done.



KEY BENEFITS

Two-Axis Flexibility.

Vertical Stroke
Carries guns on a vertical axis.

In/Out Motion
Adjusts gun distance to the part.

Adaptive Coverage
Uniform coating on parts of varying depth.

Control Compatibility
Works with Smart and Smart AI control.

TECHNICAL SPECIFICATIONS

Two-Axis Reciprocator — Technical Specifications.

Values are typical ranges; final values are confirmed per project by STRONG3000 engineering.

Axes	Vertical stroke + horizontal positioning
Stroke	500 – 2,500 mm (project-based)
Speed	0 – 0.5 m/s (adjustable)
Control	Automatic positioning with part detection

THE WHOLE SYSTEM

The Automation Family.

As part geometry gets more complex, the gun needs more freedom of movement. The two-axis reciprocator adds in/out motion to the vertical stroke.

1



1 AXIS

Single-Axis Reciprocator
Vertical reciprocator, ideal for flat parts.

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2

You are here

2 AXES

Two-Axis Reciprocator
Vertical and in-out motion for even coats on profiled parts.

3



3 AXES

Three-Axis Systems
Programmable gun motion on three axes.

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4



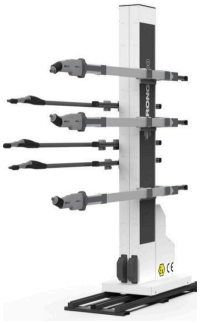
MOVING HEAD

OWL Intelligent Motion

World-patented moving head that reaches deep and complex parts.

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5



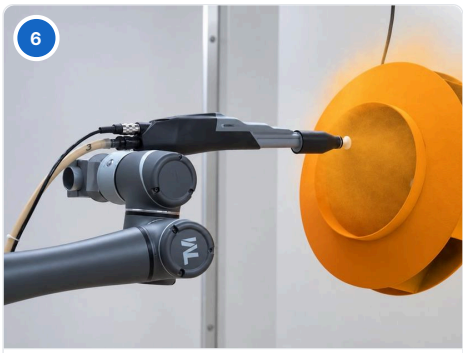
IN / OUT + VERTICAL

Acrobat Systems

A coating system combining inner, outer and vertical motion.

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6



6 AXES

Robot Integration

Powder application fully integrated with industrial robots.

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WHY STRONG3000?

The Engineering Difference.

We don't sell equipment and walk away; we stay with your line from design through commissioning and beyond.

Integrated Engineering

Machinery, electrical, automation and software under one roof — not sourced and assembled.

In-House Technology

Smart AI and OWL are original STRONG3000 technologies developed in-house.

Proven Experience

25+ years of engineering; installation, commissioning and service in 40+ countries.

24/7 Support

Phone, remote connection and 24/7 live support via WhatsApp.

Quotes & Technical Consulting

Tell us about your part, capacity and process. A STRONG3000 engineer will get back to you with a tailored proposal.

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FOR A QUOTE, PREPARE

- Product to Be Coated
- Max. Part Dimensions
- Required Capacity
- Number of Colors
- Daily Color Changes
- Coating Process
- Project Timeline

Values are typical ranges; final values are confirmed per project by STRONG3000 engineering. This sheet summarises the product page on our website; scan the QR code for the latest information.