STRONG3000

TECHNICAL DATA SHEET

Product Data Sheet · Revision: November 2026

AUTOMATION & ROBOTICS

Single-Axis Reciprocator

The Single-Axis Reciprocator moves automatic guns up and down along a single vertical stroke axis — a stable motion that delivers repeatable, uniform coating coverage on flat and tall parts.

Open online
strong3000.com/en/products/reciprocator-single-axis/



KEY FIGURES

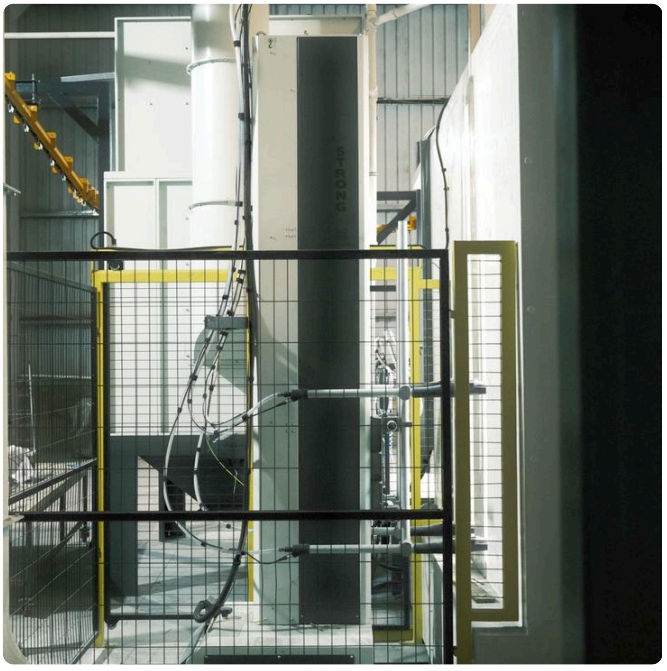
Stroke	Speed	Drive	Control
500 – 2,500 mm (project-based)	**0 – 0.5 m/s (adjustable)**	**Servo / geared motor**	**Line PLC synchronization**

OVERVIEW

Vertical Stroke, Reliable Coverage.

The Single-Axis Reciprocator drives automatic guns along a vertical axis with steady strokes, synchronized with line speed to deliver consistent powder distribution across the part surface.

It is ideal for high-volume production of standard-profile parts of similar height and pairs with Smart and Smart AI control as part of a coordinated line.



IN MOTION

Vertical Stroke.

Single-axis reciprocators move the guns up and down in the booth opening; the distance between gun and part stays fixed.



KEY BENEFITS

Repeatable Motion.

Vertical Stroke
Carries automatic guns on a vertical axis.

Consistent Coverage
Uniform powder distribution across the surface.

High Efficiency
Ideal for high-volume, standard parts.

Control Compatibility
Works with Smart and Smart AI control.

TECHNICAL SPECIFICATIONS

Single-Axis Reciprocator — Technical Specifications.

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

Stroke	500 – 2,500 mm (project-based)
Speed	0 – 0.5 m/s (adjustable)
Drive	Servo / geared motor
Control	Line PLC synchronization

THE WHOLE SYSTEM

The Automation Family.

As part geometry gets more complex, the gun needs more freedom of movement. The single-axis reciprocator is the first step of this family.

1

You are here

1 AXIS

Single-Axis Reciprocator

Vertical reciprocator, ideal for flat parts.

2



2 AXES

Two-Axis Reciprocator

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

Explore →

3



3 AXES

Three-Axis Systems

Programmable gun motion on three axes.

Explore →

4



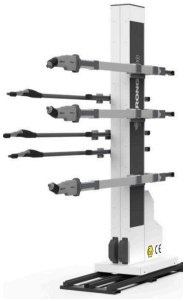
MOVING HEAD

OWL Intelligent Motion

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

Explore →

5



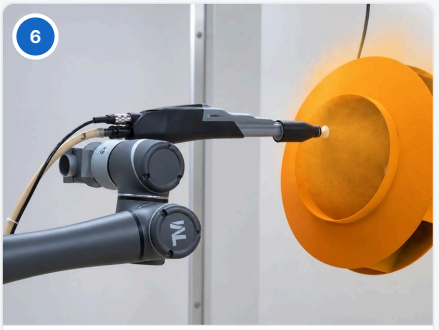
IN / OUT + VERTICAL

Acrobat Systems

A coating system combining inner, outer and vertical motion.

Explore →

6



6 AXES

Robot Integration

Powder application fully integrated with industrial robots.

Explore →

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.

Production Center	Ömerli Mah. Elektro 2000 Sanayi Sitesi B18 Blok, Tunaboyu Sk. No:1AZ, 34555 Arnavutköy / Istanbul, Türkiye
Phone	+90 212 438 56 94 · +90 534 037 98 10
E-mail	info@strong3000.com
24/7 WhatsApp	+90 537 353 54 19
Web	strong3000.com/en/products/reciprocator-single-axis/

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.