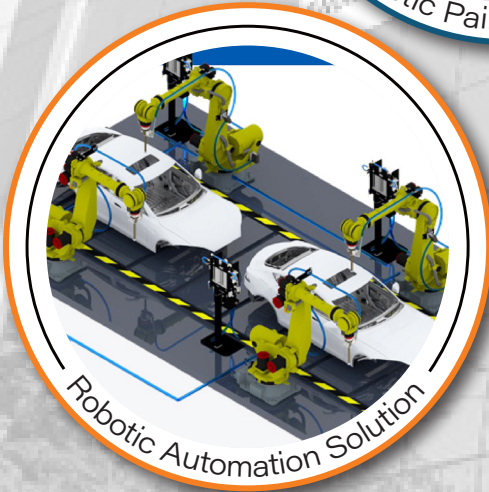
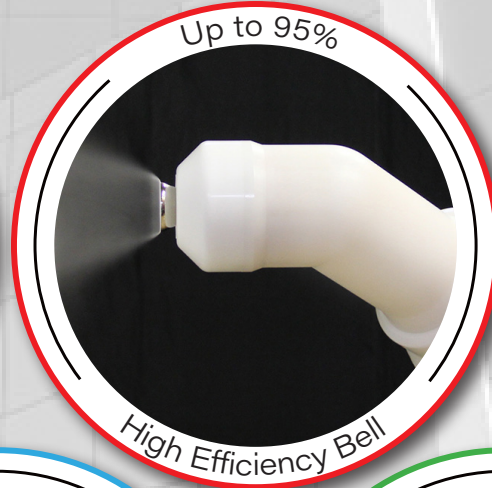
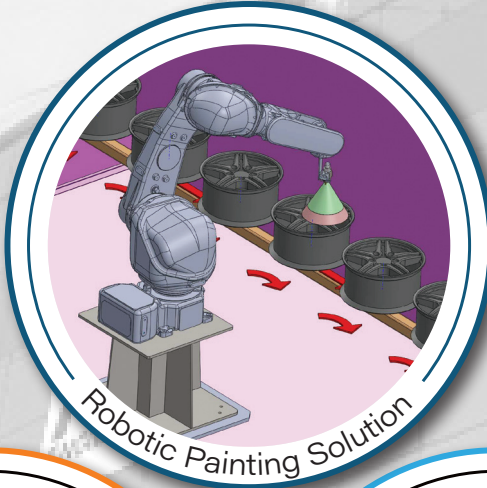


RRFLUID
ENGINEERING PRIVATE LTD.

INNOVATIVE SOLUTIONS



- **Painting Solution**
- **Industrial Washing Solution**
- **Robotic Solutions**
- **Automation Solutions**

RR Fluid Engineering Private Ltd.

Factory Address: Plot No. 319, Sector-8, IMT Manesar, Gurgaon, Haryana-122051

Regd. Office: B-18, Basement, Vishal Tower, District Centre, Janakpuri, New Delhi - 110058

Mob: +91 9266233266; +91 9910144303 | **E-mail:** technicalsales@rrfluid.com; info@rrfluid.com





Vineet Singhal
 Founder & Managing Director
 RR Fluid Engineering Private Ltd.

M/s R R Fluid Engineering Pvt. Ltd. is a leading automation company specializing in paint application technologies, fluid handling systems, and Automation Solutions. We provide advanced, industry-driven solutions designed to improve efficiency and precision across various sectors. Our Solutions offerings include:

Industrial Cleaning Machines	Special Purpose Machines (SPM)	Smart/Electric Paint Kitchens	Robotic Painting Systems	Robotic Handling Solutions
Stainless Steel (SS) Piping Solutions	High-Efficiency Bells and Guns for Paint Circulation	Underbody Sealant Applications	Ceramic Spray Coatings	Automation Solutions
In-House Painting Test Lab	AMC	Service & Support	Design & Simulation	Software & Control

Our expertise lies in delivering reliable, high-performance automation systems for paint control, fluid control, and paint saving technologies, along with tailored solutions to meet diverse industrial requirements.

At R R Fluid Engineering Pvt. Ltd., we are driven by a commitment to innovation, quality, and customer satisfaction. Our ability to deliver customized SPM and industrial automation solutions makes us a trusted partner for industries seeking to optimize their fluid handling and cleaning processes.

Our Chanel Partners: Brands from UK, US and JAPAN such as Devilbiss, Ransburg, BGK, and Binks. Our expertise encompasses both manual and automated liquid coating equipment.

2024 ● Specialised Paint Serving Division

2023 ● Industrial Cleaning Machine & SPM

2022 ● In House Testing Lab

2021 ● New Factory in IMT Manesar and Also started Robotic Projects

2017 ● Disc Projects

2015 ● Auto & Manual Gun Project

2012 ● Electrostatics Guns Projects

2011 ● RR Fluid Established in New Delhi

Our Expert Team: Our projects team has received intensive training in robotics, automation, machine manufacturing, and paint solutions from experts in the US, UK, and Japan. They are equipped to deliver collaborative work that ensures seamless operations, exceptional customer service, and tailored solutions to meet each client's unique needs.



Our Solutions

VertiPro & SlidePro

Precision Painting Reciprocators by RR Fluid Engineering Pvt. Ltd.

RR Fluid Engineering introduces VertiPro (Vertical) and SlidePro (Horizontal) reciprocators—servo-driven systems crafted for top-notch efficiency and precision in both automotive and non-automotive painting.

Core Features:

Servo-Driven Precision: Achieves speeds up to 1.1 m/s with adjustable strokes up to 4 -meters.

Low Friction, Maintenance-Free Design: Linear bearings and timing belts reduce noise and wear for durable, lubrication-free use.

Smart Control System: Real-time speed and stroke adjustments through a PLC-based interface.

Customization

Flexibility: Options include pneumatic, hydraulic, and roof-mounted designs.

Servo Drive

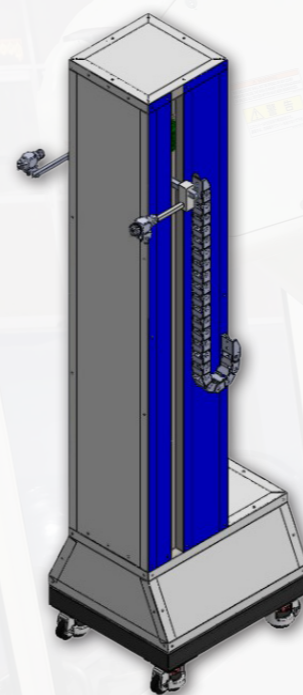
Advantages:

- ◆ Precise speed control and position accuracy with integrated encoder.
- ◆ Quick, seamless stroke changes for adaptable operations.

Robust Traversing

Carriage:

Horizontal movement up to 1 meter with protected precision ball screws and AC drive



AxisPro

Dual-Axis Painting Reciprocator by RR Fluid Engineering Pvt. Ltd.

RR Fluid Engineering introduces AxisPro, a dual-axis painting reciprocator engineered for synchronized horizontal and vertical strokes, bringing precision and flexibility to automotive, railway, and industrial applications.

Key Features:

Dual-Axis Movement:

Covers complex surfaces with coordinated vertical and horizontal strokes.

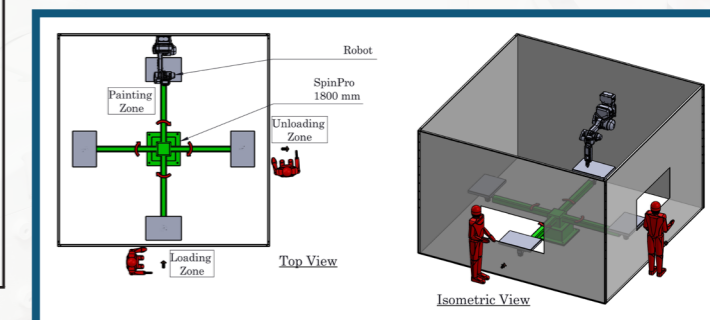
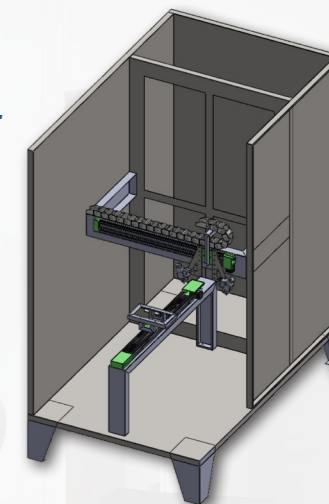
Servo-Driven Accuracy: Smooth, controlled motion with adjustable strokes up to 4m vertically and 1m horizontally.

Low Friction Operation: Advanced linear bearings and timing belts ensure quiet, maintenance-free performance.

Custom Options: Pneumatic or hydraulic configurations tailored to specific needs.

Enhanced Control System:

- ◆ PLC-Driven Interface: Real-time, closed-loop control over speed and position.
- ◆ Quick Adjustments: Fast stroke and speed changes for flexible operations.



SpinPro

360° Rotational Painting and Material Handling System by RR Fluid Engineering Pvt. Ltd.

RR Fluid Engineering presents SpinPro, an advanced rotational arm system offering precise painting and material handling with adjustable rotation from 90° to 360°. SpinPro, with table pitches from 1000 to 1800 mm, is ideal for complex tasks across automotive, manufacturing, and heavy industry sectors.

Key Features:

360° Rotation: Full range motion to handle intricate surfaces and hard-to-reach areas.

Servo-Controlled Accuracy: Adjustable rotation speeds for precise application and handling.

Robust Build: Low-maintenance bearings for heavy payloads and industrial durability.

Advanced Control System:

PLC-Based Interface: Easy-to-use settings for angle, speed, and direction control.

Real-Time Adjustments: Seamless transitions between painting and transfer functions.

Versatile Applications

Perfect for coating, assembly lines, and material transfer, SpinPro boosts efficiency and reduces equipment needs.



Paint kitchen

- 1 Electric Pump
- 2 Piston Pump
- 3 Diaphragm Pump
- 4 Gear Pump
- 5 2K mixing Intelliflow RM2
- 6 2K mixing Intelliflow RF2
- 7 Quick Cleaner
- 8 CCV



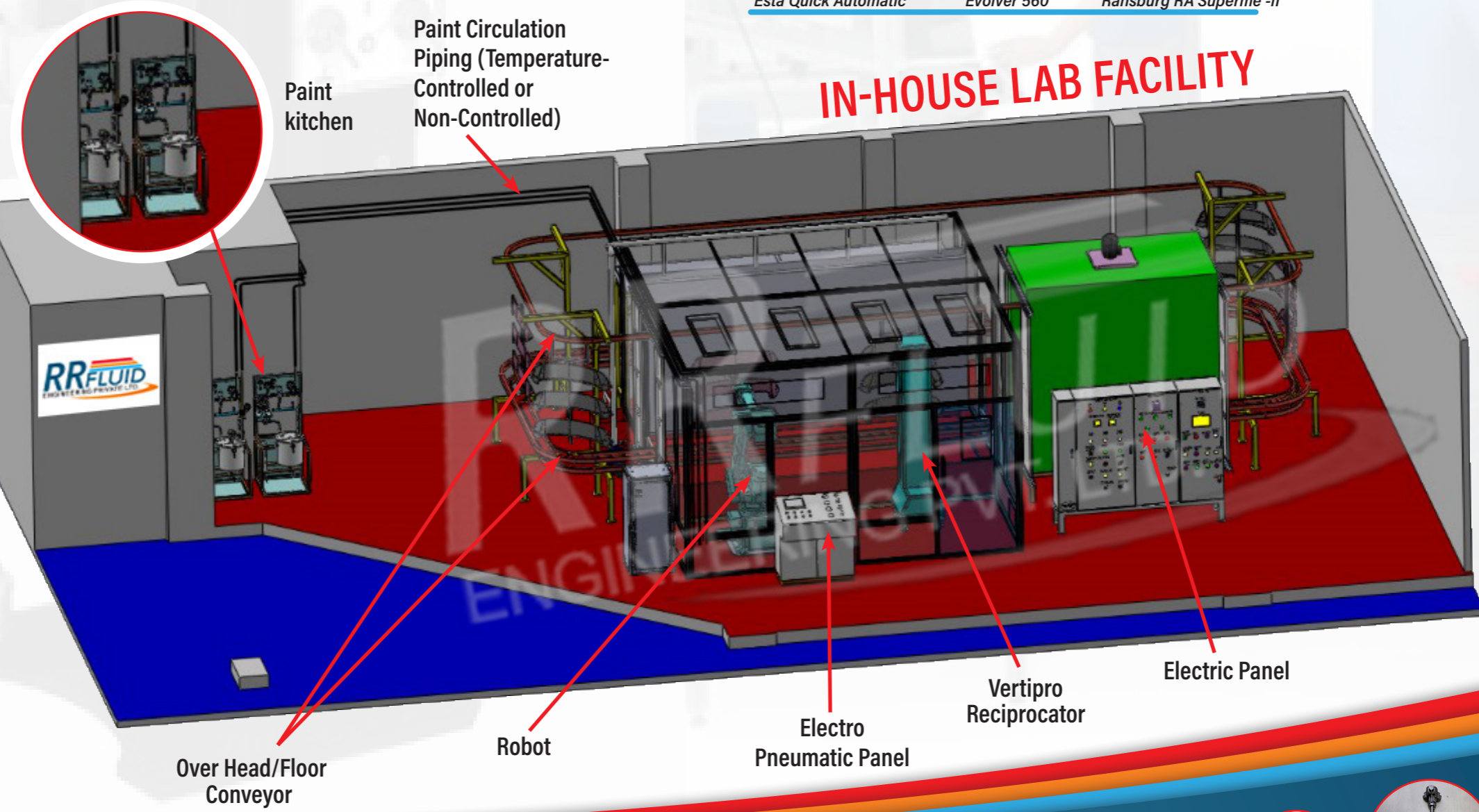
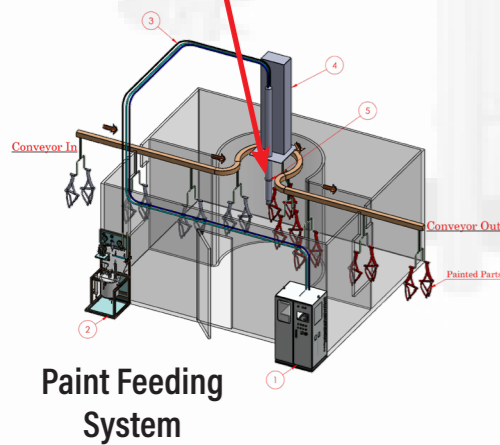
Disc



Mini Disc



Turbo Disc



High Finish Quality Products



High Efficient Auto Guns



Robot & Reciprocator

- 1 Auto gun
 - Non Electro Static Gun
 - Electro Static Gun

2 Bell



RMB 26



RMA-660



Aero Bell 168



Mighty Bell

High Efficiency with High Quality



Washing Solution

Multi-Stage Ultrasonic Washing Machine:

Multi-stage ultrasonic cleaning machines make use of multiple cleaning tanks, which use high frequency sound waves to clean the contaminants off the parts. It allows for a complete clean by penetrating complicated surfaces and even removing recalcitrant dirt, oils, and residues, therefore perfect for sensitive components in aerospace and automotive industries.



Ultrasonic and Conveyorized Washing Machine:

Ultrasonic and conveyorized washers integrate ultrasonic cleaning technology with fully automated conveyor systems. This technology, on its own, will bring numerous stages of cleaning, which might have the parts move continuously without stopping, and this makes the cleaning process more efficient, consistent, and efficient for high-volume production with high quality standards.

Conveyorized Washing Machine

Conveyorized washing machines will clean efficiently as they automatically move parts through various stages of wash, rinsing, and drying. This type does not expose parts to hand handling and can deal with volumes in high quantities, making it suitable for high volume applications. It ensures consistent results and reduces labor costs while maintaining effective cleaning performance.



Batch Type Washing Machine:

In a batch type of washing machines, a given amount of parts is cleaned in one cycle. This allows for flexibility in production since different quantities may be produced at varying production levels. It provides thorough cleaning and is tailored towards different materials and contaminants. It is ideal for smaller production runs or where specialized cleaning may be needed to ensure high-quality results.

High Pressure Washing Machine

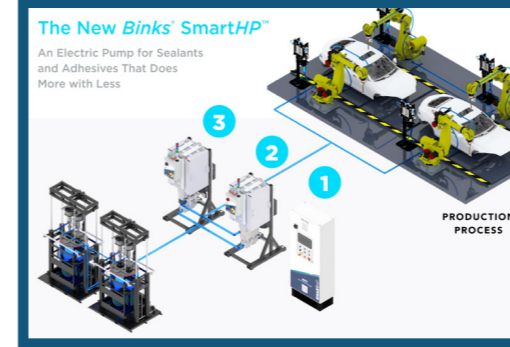
High pressure washing machines use powerful high-pressure jets of water for the removal of hard dirt, grime, and residues from a surface. These machines are effective where heavy-duty cleaning application spans across the industrial sectors to achieve a rapid and time-effective outcome. It proves highly beneficial for cleaning large equipment, vehicles, and manufacturing units.



Robotic Solution

Robotic Material Handling Solutions:

Robotic material handling solutions automate the flow, sorting, and storage of materials in an industrial plant. Such systems make the work activities efficient through automated repetitive work, cost cuts in labor and due to improvement in safety standards. It accurately processes all sorts of materials to make sure that the workflow and productivity go unhindered.



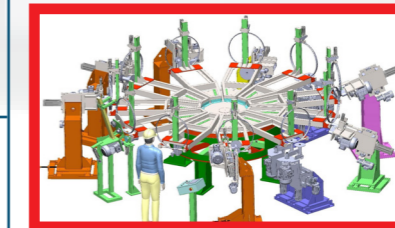
Robotic dispensing solutions

Robotic dispensing solutions provide an automation approach to coating applications. This technology reduces labor expenses, improves the effectiveness of processes, reduces waste generation, and generally makes them quite suitable for high volume manufacturing for BIW, WAX application with different sizes of Bids. Their flexibility has enabled dispensing even very detailed shapes and surface and, thus generally, better quality.



Robotic washing machine solutions

Robotic washing machine solutions automatically clean multiple industrial parts-thorough and consistent, these machines use the latest in robotics to enhance efficiency while minimizing labor needs and are perfect for demanding environments and quality improvement on cleaned parts.



SPM

Material Handling Equipment and Conveyors

Material handling equipment and conveyors help move goods and stock more easily within the manufacturing and distribution environment. Such systems rationalize the workflow, reduce manual labor, and assure high levels of safety. They can also be suited for numerous layouts and processes, allowing for an overall increase in operational efficiency.



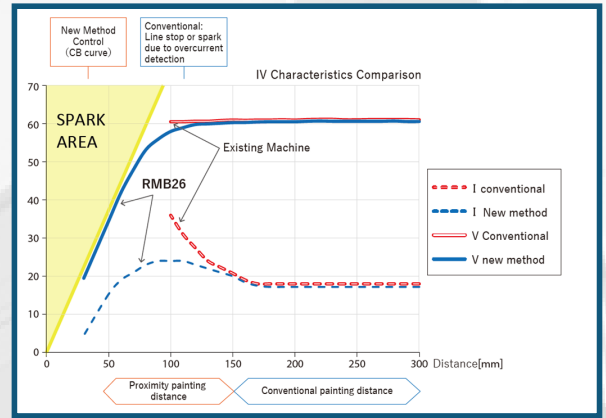
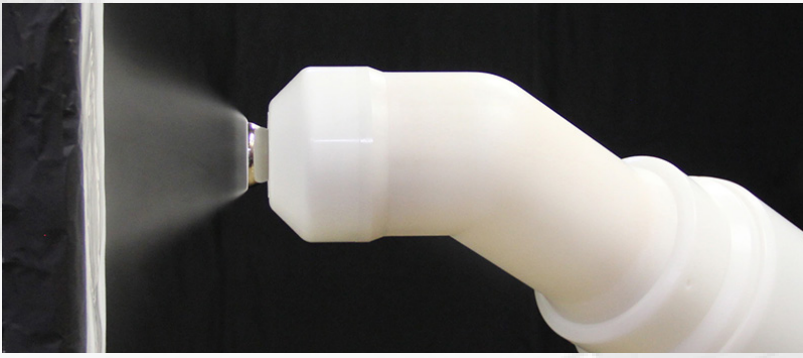
Inspection and Testing Machines:

Inspection and testing machines are the way forward for effective quality control in manufacturing. Since inspection and testing machines analyze products for defects and conformance to specifications, they ensure reliability and performance. They do help with automation in the inspection process, thereby increasing accuracy, reducing manual mistakes, and maximum output in terms of product quality on production lines.

Assembly Line:

An assembly line is a well-organized set of operations wherein individual components are serially brought together for formation into a finished product. This style of operation increases efficiency and productivity with the reduction of handling time and optimal flow. Most assembly lines are either fully or partially automated, which allows for a scale of production and more consistent outcomes





Conventional Coating and Proximity Coating can be Realized with a Single Bell

- The distance between the applicator and the workpiece can range from 50mm to 250mm, and depending on the shape of the workpiece, either conventional coating or proximity coating can be selected.
- In the case proximity coating, its theoretical coating efficiency is 100%. Actual transfer efficiency for various shapes is expected to improve by 15% to 20% compared to conventional coating. (Results in our lab)

Innovative Solution for a New Generation: Designed with the latest technology for modern manufacturing needs.

Save Paint, Save Costs: Precision application reduces paint usage, maximizing efficiency.

Achieve Uniform Coating: Ensures consistent quality on every surface.

Handles Complex Parts with Ease: Ideal for intricate shapes and hard-to-reach areas.

Close-Proximity Coating: Achieves high transfer efficiency, reducing waste and enhancing coverage.

Optimized Target Distance: RMB26 operates effectively within a range of 50-150 mm (2-6 in) for precise applications.

Enhanced Electrostatic Effects: Improves adhesion and coverage, providing a superior finish.



SOCIAL

1 NO POVERTY	2 ZERO HUNGER	3 GOOD HEALTH AND WELL-BEING
4 QUALITY EDUCATION	5 GENDER EQUALITY	6 CLEAN WATER AND SANITATION
8 DECENT WORK AND ECONOMIC GROWTH	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	10 REDUCED INEQUALITIES
12 RESPONSIBLE CONSUMPTION AND PRODUCTION	16 PEACE, JUSTICE AND STRONG INSTITUTIONS	

GOVERNANCE

5 GENDER EQUALITY	8 DECENT WORK AND ECONOMIC GROWTH	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
11 SUSTAINABLE CITIES AND COMMUNITIES	12 RESPONSIBLE CONSUMPTION AND PRODUCTION	13 CLIMATE ACTION
16 PEACE, JUSTICE AND STRONG INSTITUTIONS	17 PARTNERSHIPS FOR THE GOALS	

ENVIRONMENT

6 CLEAN WATER AND SANITATION	7 AFFORDABLE AND CLEAN ENERGY	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
11 SUSTAINABLE CITIES AND COMMUNITIES	12 RESPONSIBLE CONSUMPTION AND PRODUCTION	13 CLIMATE ACTION
14 LIFE BELOW WATER	15 LIFE ON LAND	

RR Fluid Engineering Private Ltd.

Factory Address:

Plot No. 319, Sector-8, IMT Manesar, Gurgaon, Haryana-122051

Mob: +91 9266233266; +91 9910144303

E-mail: technicalsales@rrfluid.com; info@rrfluid.com

