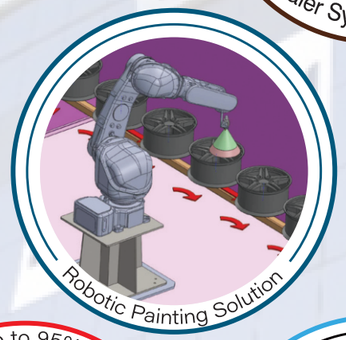
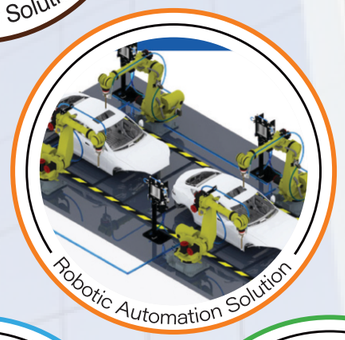
RR FLUID





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

RR Fluid Engineering Private Ltd.

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Vineet Singhal
Founder
RR Fluid Engineering Private Ltd.

Atul Baalyan
Co-Founder
RR Fluid Engineering Private Ltd.

M/s R R Fluid Engineering Pvt. Ltd. is a leading automation engineering 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 and preferred partner for industries seeking to optimize their fluid handling and cleaning processes.

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

2024 *Specialised Paint Serving Division*

2023 *Industrial Cleaning Machine & SPM*

2022 *In House Innovation Studio*

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

2017 *Disk 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.

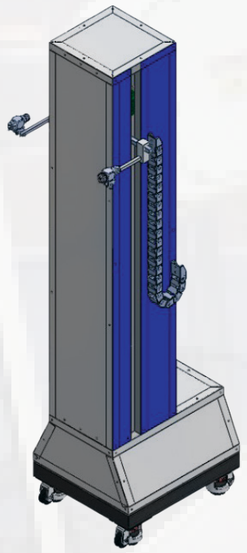
RR Fluid Engineering introduces VertiPro (Vertical) and SlidePro (Horizontal) reciprocators—servo-driven systems crafted for top-notch efficiency and precision in both automotive and non-automotive painting.

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:

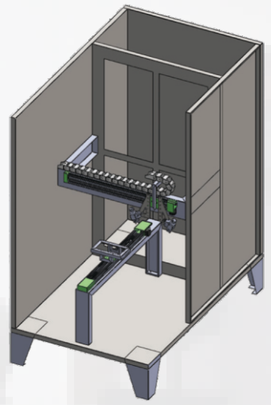
- Precise speed control and position accuracy with integrated encoder.
- Quick, seamless stroke changes for adaptable operations.

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.

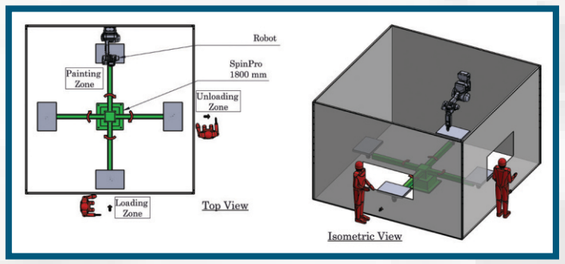
Servo-Driven Accuracy: Smooth, controlled motion with adjustable strokes up to 4m vertically and 1m horizontally.

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.

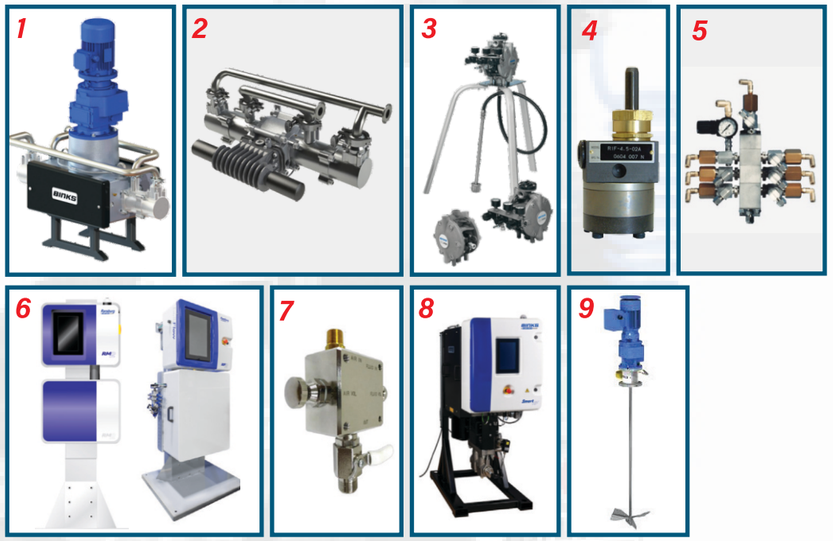
Versatile Applications

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

Painting Solutions

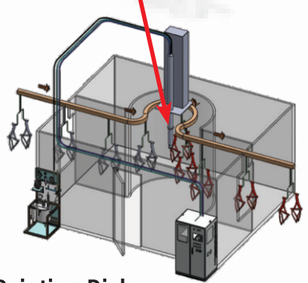
Paint Mix Room

1 Electric Pump
2 Piston Pump
3 Diaphragm Pump
4 Gear Pump
5 CCV/ MCV
6 2K mixing Intelliflow RM2 & RF2
7 Quick Cleaner
8 SMART HP
9 Electric Agitator
10 Pigless Pro

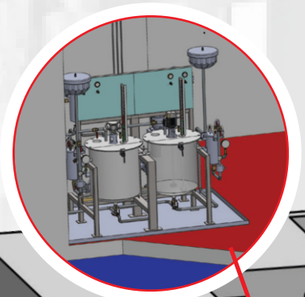


Disk

Mini Disk



Painting Disk Application



Paint kitchen

IN HOUSE INNOVATION STUDIO

High Finish Quality Products

AGMD Pro | AG360 Series | T-AGPV

High Efficient Auto Guns

Esta Quick Automatic | Evolver 560 | Ransburg RA Superme -II

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.

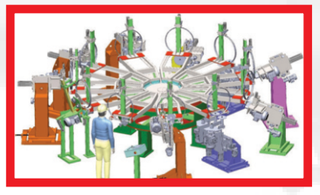
High Pressure Washing Machine
High pressure washing machines use powerful high-pressure jets of water for the removal of hard dirt, grime, and residues from a surface. These machines are effective where heavy-duty cleaning application spans across the industrial sectors to achieve a rapid and time-effective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

Robotic deburring solutions: *Robotic deburring solutions deliver precision and consistency in removing burrs from complex parts. Designed for high-volume production environments, robotic deburring ensures precise and repeatable removal of burrs from complex geometries, castings, or machined parts. Ideal for high-volume manufacturing, this automation reduces manual effort, improves surface quality, and ensures repeatable results across metals, plastics, and composites. With flexible tooling and force control, it guarantees cleaner finishes and faster cycle times.*

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.

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.



SPM

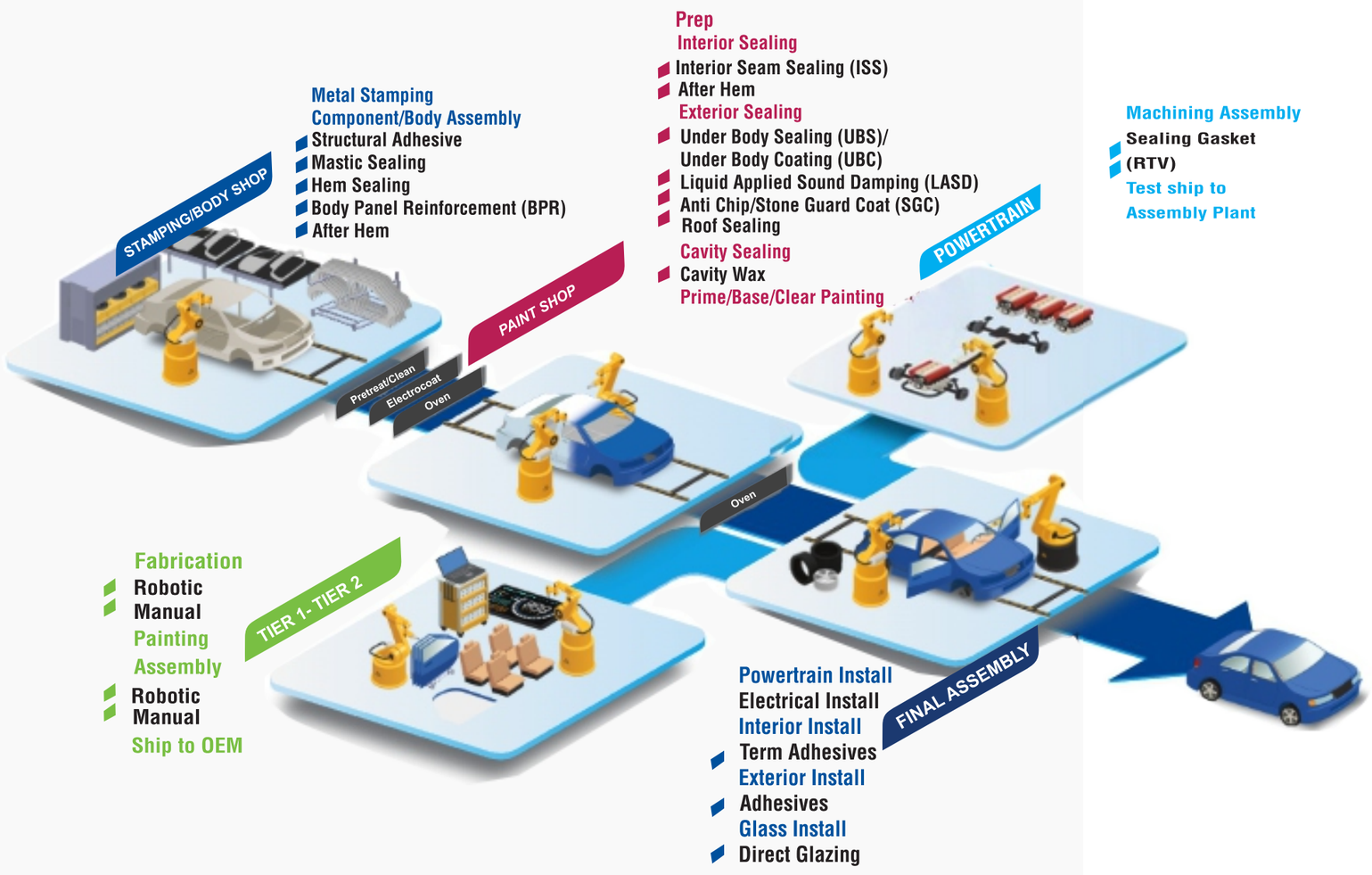
Material Handling Equipment and Conveyors
Material handling equipment and conveyors help move goods and stock more easily within the manufacturing and distribution environment. Such systems rationalize the workflow, reduce manual labor, and assure high levels of safety. They can also be suited for numerous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

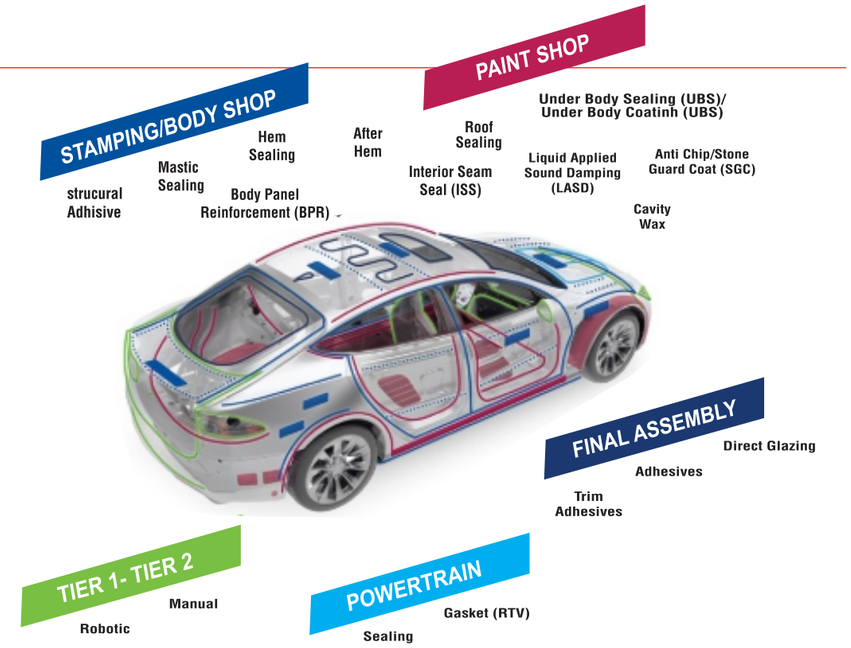
Inspection and Testing Machines:
Inspection and testing machines are the way forward for effective quality control in manufacturing. Since inspection and testing machines analyze products for defects and conformance to specifications, they ensure reliability and performance. They do help with automation 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

Sealant & Adhesive Application Solutions

RR Fluid has the expertise and experience to improve your process control of integrated dispense systems for a full range of fulid materials (Mastic & Hemming Sealant) used in OEM Tier 1 & Tier 2 applications.





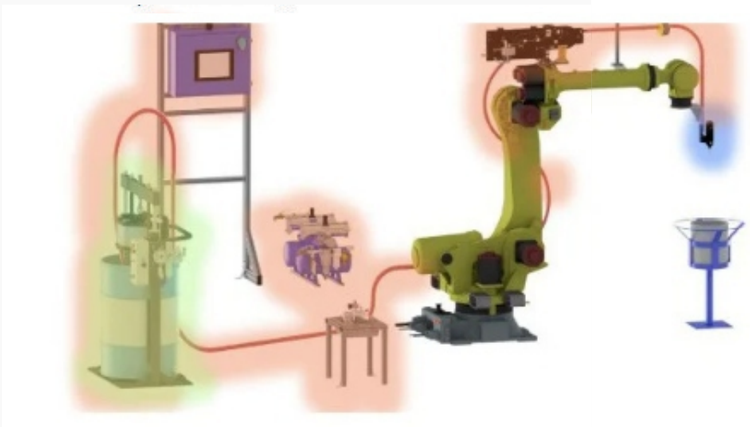
Automotive

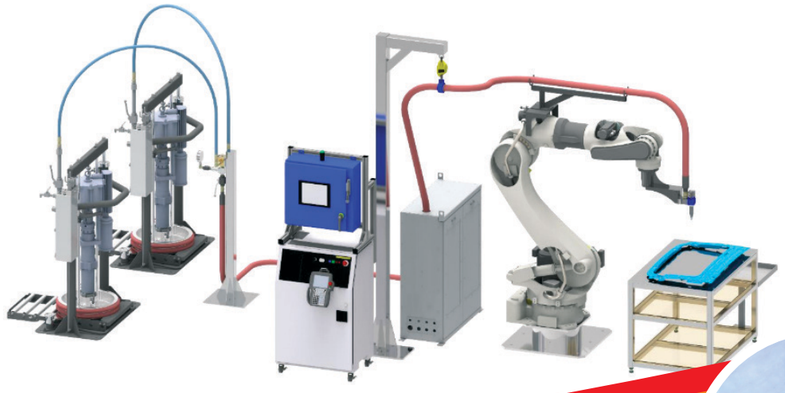
- *Body Shop*
- *Paint Shop*
- *Powertrain*
- *Tier 1 - Tier 2*
- *Final Assembly*

General Industry

- *Tier 1 - Tier 2*
- *Electronics*
- *ACE Industry*

Supply	Pumps
Control	Controllers
	Dosers Hoses
Apply	Guns





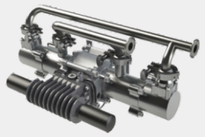
Accessories Solutions

Agitator

Model	Capacity	Part No.
Small	20L	M-222063
Medium	40L	M-222064
Large	60L	M-222065
Extra Large	80L	M-222066

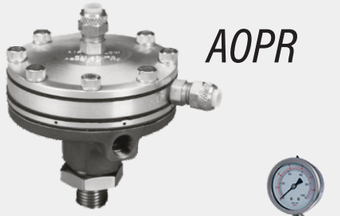
Binks

Smart Pumps



Maple Pump

Gun Cleaning Kit



AOPR

Manual

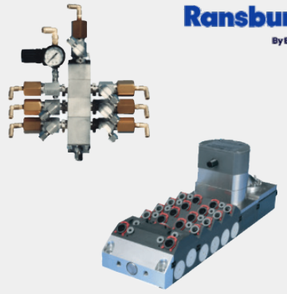
Fluid Regulator

Ransburg By Binks

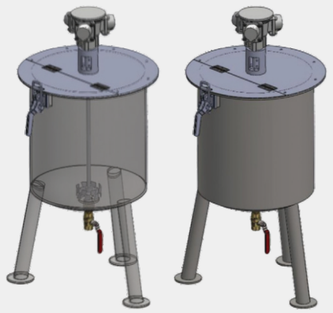
ITEM	IN A BOX	SR NO
Complete Box	Probe & Meter	76652-03
Probe	Stainless Stell Probe	7922-00
Meter	Resistivity Meter	76634-00

Paint Test Meter Kit

Ransburg By Binks



CCV & MCV

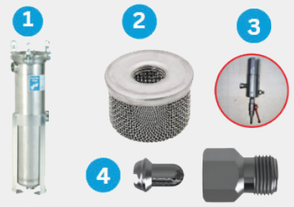


SST Paint Tanks

PAINT &AIR QRC & SWIVEL

Suction Hoses

Diaphragm Pump



S.No	Name	Part No.
1	BAG FILTER SERIES-FBT	M-222076
2	SUCTION FILTER SUC-30M	M-222077
3	GUN FILTER MF-6-100	M-222078
4	LINE FILTER 0115-010326	M-222079

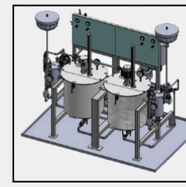
Paint Fluid Filters

Air & Fluid Valves

PFT Tank

Binks

Back Pressure Regulator



COMPLETE CUSTOMIZED DEPEND ON CUSTOMER REQUIREMENT.

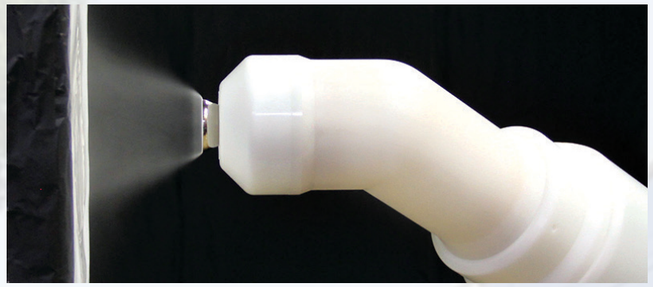
Piston Pump Paint Feeding Setup

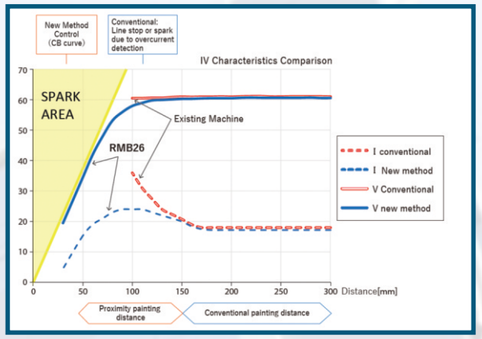
Level Indicator

Ransburg By Binks

Air Heaters

Diaphragm Pump Paint Feeding Setup





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%. Acutal 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.

Binks

DeVilbiss By Binks

Ransburg By Binks

VOMAC

RR Fluid Engineering Private Ltd.

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