



SUMMIT
Engineers & Consultants Pvt. Ltd.



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**SUSTAINABLE COATING MACHINES
THROUGH
INNOVATION, COLLABORATION, TRANSPARENCY**

www.summitengineers.net



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About Us



Summit Engineers & Consultants Pvt. Ltd. is engaged in manufacturing automation systems for rubber industries in India and abroad since 2004.

They have worked extensively on various coating techniques and technology. Recently, they acquired a new technique of coating with anti-blocking or frictionless agent coating, a new adhesion technique for rubber components like O-rings, sealing rings for life and quality improvement in support with M/s Fuchs India Pvt. Ltd., the world's largest independent adhesive & lubricant manufacturer from Germany. This technique helps preserve dynamic properties of the basic material, reducing friction and providing significant wear reduction of parts.

With unmatched quality, service, and performance, they are closely associated with many large industries and have developed a portfolio of automated machines catering to the needs of the rubber industry for over a decade.

What can we help you with today?

Expanding Production: Help design solutions to increase capacity and improve productivity if production requirements have increased.

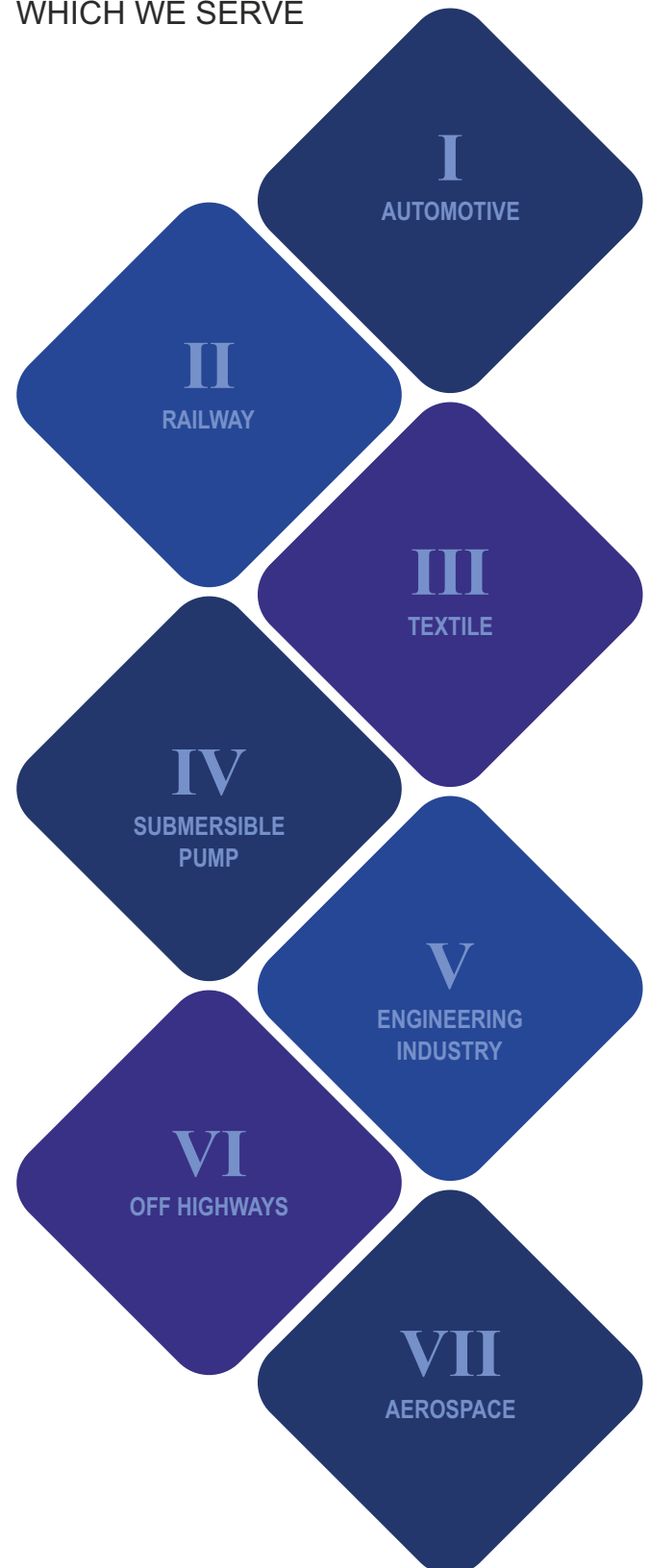
Upgrading Processes: Assist in optimizing adhesive material coating processes to reduce waste and part-reject rates due to uneven or improper coating.

Starting New Projects: Provide best material coating solutions for new product implementations.

Resolving Quality Issues: Design custom solutions for quality issues, optimizing flow rates, spray angles, drop size, air, liquid, and temperature flow controls.

Service: Offer full support during commissioning, on-site operator training, operating manuals, drawings, maintenance, and troubleshooting guidelines with a one-year full service warranty for manufacturing defects.

INDUSTRIAL SECTORS WHICH WE SERVE



Standalone ID/OD Spray Coating Machine (DC Motor/Servo Motor/Pneumatic Operated System)

SPECIFICATIONS

Gun movement for ID (height): Up to 100 mm

Gun movement for OD (height): Up to 100 mm

Auto Spray Guns: RD Gun/ Lumina Gun

Fluid Handling System: MS Pressure feed tank 10 lit / 20 lit/ 40 lit with Pneumatic stirrer motor and weighing scale.

Productivity per Minute: 16 (job length 25 mm, four job per fixture)

Cycle Time: 15 sec

Loading/ Unloading: Manual Operation



Two Station Conveyorized ID/OD Spray Coating Machine (DC Motor/Servo Motor/Pneumatic Operated System)

SPECIFICATIONS

Gun movement for ID (height): Up to 100 mm

Gun movement for OD (height): Up to 100 mm

Auto Spray Guns: Lumina Gun/ RD Gun

No. of Fixtures: 35-48

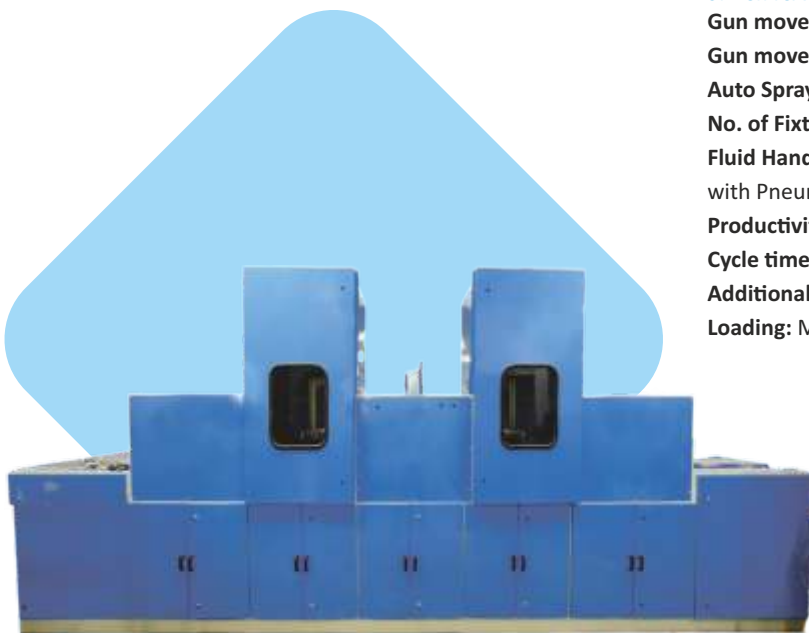
Fluid Handling System: MS Pressure feed tank 10 lit/ 20 lit/ 40 lit with Pneumatic stirrer system & Weighing Scale

Productivity: 16 (job length 25mm)

Cycle time: 15 sec

Additional Item: Temperature & Viscosity Control Unit

Loading: Manual operation



Standalone X-Y Axis Spray Coating Machine (DC Motor/Servo Motor/Pneumatic Operated System)

SPECIFICATIONS

Spraying Area: 400 mm / 600 mm / 800 mm

Flat Components and Plain Washers

Auto Spray Gun: Iwata Make 1.2 mm – 2 Nos

Cycle Time: Cubic Feet per Minute (CFM) 25



Two Station Conveyorized X-Y Axis Spray Coating Machine (DC Motor/Servo Motor/Pneumatic Operated System)



SPECIFICATIONS

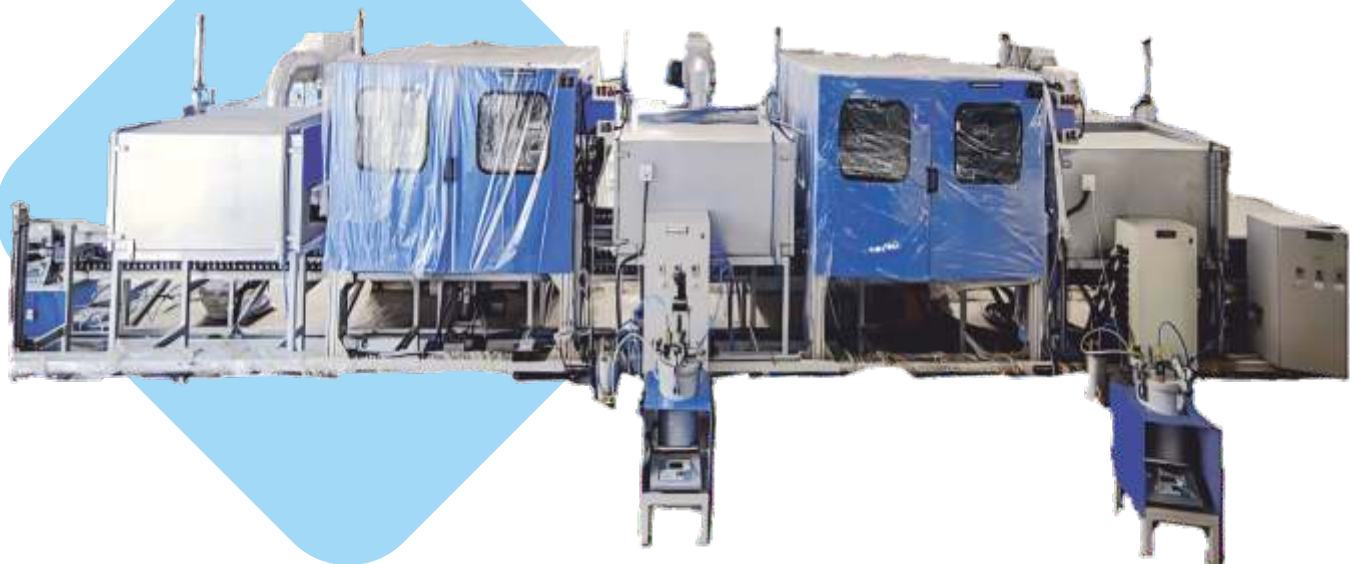
Spraying Area: 400 mm / 600 mm / 800 mm

Flat Components and Plain Washers

Auto Spray Gun: Iwata Make 1.2 mm – 2 Nos

Cycle Time: Cubic Feet per Minute (CFM) 44

Additional Items: Temperature Data Logger



Horizontal OD spray Coating Machine (DC Motor/Servo Motor/Pneumatic Operated System)

SPECIFICATIONS

Component: Round/Flat

Job Length: 410/1000mm

Outer Diameter: 10 - 300mm

Time Span: 2 sec/Job

Cycle Time: Cubic Feet per Minute (CFM) 25



Two Station Horizontal OD Spray Coating Machine (DC Motor/Servo Motor/Pneumatic Operated System)

SPECIFICATIONS

Spray Length: 410mm/1000mm

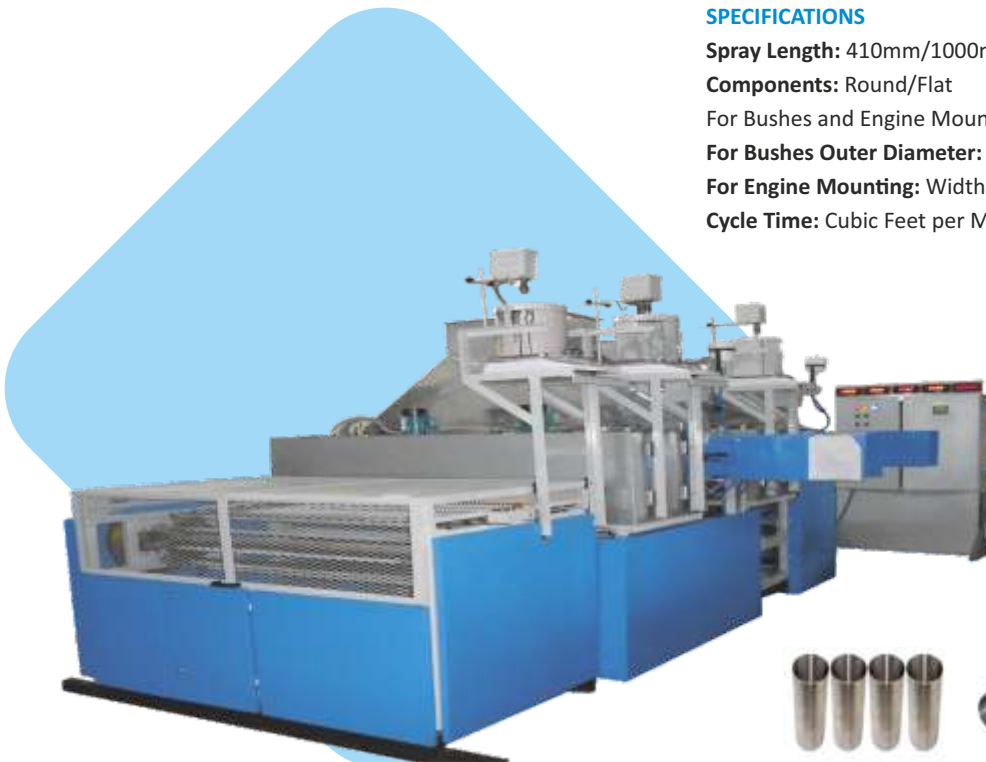
Components: Round/Flat

For Bushes and Engine Mountings

For Bushes Outer Diameter: 8mm to 100mm

For Engine Mounting: Width up to 300mm

Cycle Time: Cubic Feet per Minute (CFM) 55



Two Station Rotary Indexer ID/OD Spray Coating Machine (Servo Motor Operated System)

SPECIFICATIONS

Spraying Length ID/OD (height) : 0 - 300 mm

Diameter Range: 25 mm - 150 mm

Spraying Stations: For Primer & Topcoat

No. of Fixtures: 12-24-48



Two Station Chain on Edge ID/OD Spray Coating Machine

(Servo Motor Operated System)

SPECIFICATIONS

Spraying Length ID/OD (height) : 0 - 300 mm

Diameter Range: 25 mm - 150 mm

Auto Spray Guns: RD Gun/ IWATA Gun/ Lumina Gun

Additional Item: Temperature & Viscosity Control Unit

Loading / Unloading: Manual Operation



Vertical Pipe ID Spray Coating Machine

(Servo Motor Operated System)

SPECIFICATIONS

Spraying length for ID (height): 600mm

Diameter range: 25 mm to 200 mm

Auto Spray Gun: Lumina Gun

Productivity/min: 16 (job length 25mm, four jobs per fixture, spraying range 100mm)

Cycle time: 15 sec

Additional Item: Temperature & Viscosity Control Unit

Loading /Unloading: Manual operation



Horizontal Fabric Coating Machine (DC Motor/Servo Motor/Pneumatic Operated System)

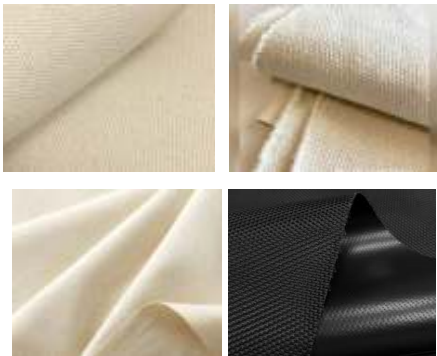
SPECIFICATIONS

Spraying Area: 1000 mm

Auto Spray Gun: As per requirement

Loading /Unloading: Manual operation

Components



Vertical Fabric Coating Machine (DC Motor/Servo Motor/Pneumatic Operated System)

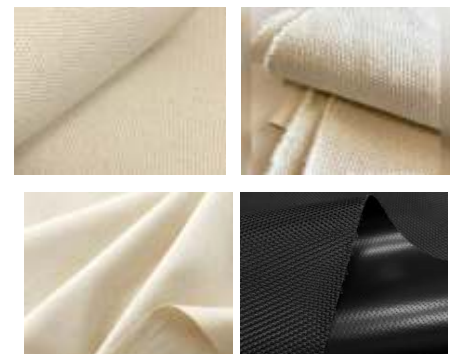
SPECIFICATIONS

Spraying Area: 1000 mm

Auto Spray Gun: As per requirement

Loading /Unloading: Manual operation

Components



Two Station Valve Coating Machine (DC Motor/Servo Motor/Pneumatic Operated System)

SPECIFICATIONS

- Spraying length for ID (height):** As per requirement
- Auto Spray Gun:** As per requirement
- Loading /Unloading:** Manual operation

Components



Viscosity and Temperature Control for Chemlock Coating Machine

SPECIFICATIONS

- Voltage:** 100-240VAC
- Current:** 5A-2.5A
- Frequency:** 50-60Hz
- Use with TCU and Heat Exchanger
- Control Voltage:** 24VDC
- Thermal Capacity:** 600BTUH@77°F(25°C)
- Control Temperature range :** 65°F-120°F(18°C-49°C)
- Ambient Temperature range:** 50°F-102°F(10°C-40°C)
- Thermal Fluid:** Propylene Glycol



Rotary Indexer ID/OD Spray Coating Machine (Servo Motor Operated System)

SPECIFICATIONS

- **Spraying length for ID/OD (height):** 500mm
- **Diameter range:** 25 mm to 200 mm
- **Auto Spray Gun:** Lumina Gun
- **Productivity/min:** 16 (job length 25mm, ten jobs per fixture, spraying)
- **Cycle time:** 15 sec
- **Additional Item:** Temperature & Viscosity Control Unit
- **Loading /Unloading:** Manual operation



Horizontal Pipe ID Spray Coating Machine

SPECIFICATIONS

- **Horizontal Spraying Range (length):** 1 - 10 m
- **Diameter Range:** 60 mm to 350 mm
- **Auto Spray Gun:** Lumina Gun
- **Productivity/min:** 16 (job length 25mm, ten jobs per fixture, spraying)
- **Cycle time:** 15 sec
- **Additional Item:** Temperature & Viscosity Control Unit
- **Loading /Unloading:** Manual operation



Spray Coating Machines

Universal Tumbling Spraying Machine

SPECIFICATIONS

Drum Capacity: 20Kg/35Kg/80Kg

Drum Rotation Speed: 9 to 30 rpm

Cubic Feet Per Minute (CFM): 12, 15, 20

Standard Nozzle: 1.00-1.5mm



Testing Machines

Horizontal Bond Testing Machine

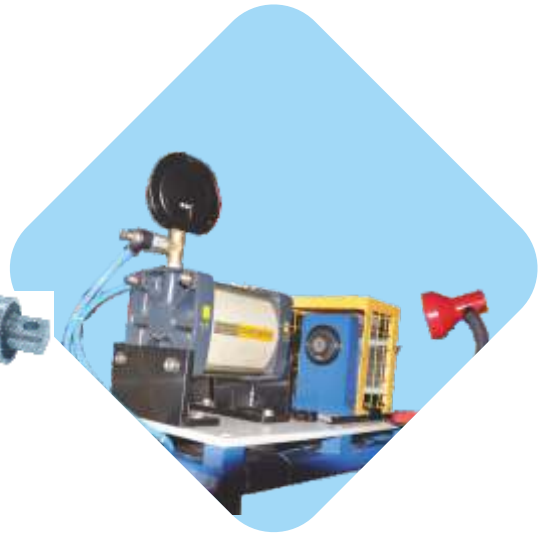
SPECIFICATIONS

Component: Round/Bush

Load Capacity: 2 Ton, 5 Ton and 10 Ton

Hydraulic Operator System

Pneumatic Operated System



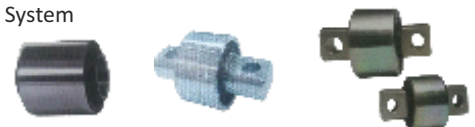
Vertical Bond Testing Machine

SPECIFICATIONS

Component: Round/Bush

Load Capacity : 2 Ton, 5 Ton and 10 Ton

Hydraulic Operator System



Push Pull Load Testing Machine

SPECIFICATIONS

- **Capacity:** 1 ton, 2 ton, 10 ton (optional)
- **Overall Size:** 0.8 meter x 0.5 meter x 0.8 meter height

Test Performed on the Machine:

1. Axial Test
2. Radial Test
3. Conical Test
4. Torsional Test



Cantilever Load Testing Machine

SPECIFICATIONS

- Load Capacity :** 2 Ton, 5 Ton and 10 Ton
Component : Ceramic Insulator
Hydraulic Operator System



Horizontal Swaging Machine

SPECIFICATIONS

Pressing capacity: 10 Ton, 60 Tons
 Working Pressure (Max) : 300bar
 Length & Width of machine: 1000x 1000mm
 Hydraulic Operator System



Vertical Swaging Machine

SPECIFICATIONS

Pressing capacity: 10 Ton, 60 Tons
 Working Pressure (Max) : 300bar
 Length & Width of machine: 1000x 1000mm
 Hydraulic Operator System



SALIENT FEATURES AND ADVANTAGES

Safety:

- Operator's safety is biggest advantage
- Operators don't interact with high-speed rotating parts like motors, brush etc.
- Localised and effective extraction of hazardous rubber particles

Productivity:

- Cycle time < 5 sec.
- Quick change over time of component fixtures (less than 5 min)
- Easy and quick loading and unloading of components which leads to high productivity

Quality:

- Uniform and accurate Deflashing of components
- Easily controllable parameters (like Deflashing time, stock and stroke) to achieve expected quality

Other Factors:

- Simple and rugged design
- Quick change over time for fixturing
- Fixture to accommodate wide range of components
- Easy for installation and handling
- Low maintenance machines

Deflashing Machine





Temperature Data Logger



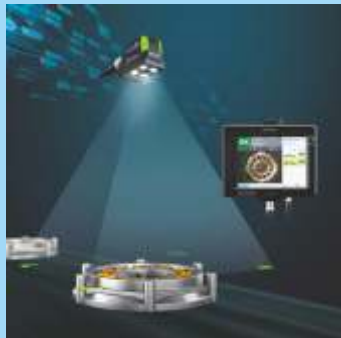
Pressure Feed Tank with Pneumatic Stirrer Motor



Temperature Viscosity and Control Unit



Pallet Handling Trolley



Camera Sensor



Colour Sensor



Spray Gun



Heating system



Exhaust System



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