Trinity Coating Systems, a 100% stakeholder owned by
Trinity Industrial Corp. Japan, into the business of
design, engineering, manufacture, fabrication,
installation & commission of
paint finishing systems / equipment and
paint application machine.
Trinity will propose solution
for customers' various concerns
with its unique after-sales service.



Low Air Pressure & Volume Automatic Spray Gun - GO5 Series

Top market share in digital electrical appliances and cellular phone.



ADVANTAGES:

► Atomizing at low pressure and low volume

- High efficiency for paint adhesion and little loss of paint
- Good paint penetration
- Less spattering and scattering of paint
- Preventing the stains on booth or jigs (Preventing the over spray)

▶ Atomizer nozzle is made of cemented carbide & precision processed

- Excels in atomizing
- Smooth paint layer can be done at low pressure

Specially shaped paint nozzle

- Preventing the paint dripping and spitting
- Less stain on air cap

LOW PRESSURE AUTOMATIC SPRAY GUN - GO5 SERIES:

Recently, low pressure atomizing spray guns are apt to be used taking place of electrostatic sprayer because of high efficiency paint adhesion, good paint penetration and lesspaint scattering. We have two types of "Low pressure atomizing gun" which are flat spray pattern (GO5-23) and round spray pattern (GO5-38). Many of our low pressure atomizing guns are adopted in the painting for cellular phone, electromagnetic wave shelld material on PC, functional paint on piston, valve, turbo charger of automotive parts fluorescent light (photocatalyst paint), super-thin paint layer of cosmetic bottle and receiving a favorable notice. Fluorine paint, UV paint, silicon paint and molybdenum are very expensive. Therefore, it requires high efficient paint adhesion even one percent for cost reduction and lesspaint spattering and scattering from the ponit of environmental. Mesac's low pressure atomizing qun GO5 series meet those market needs perfectly.

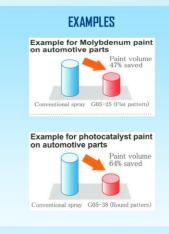
GO5-23 Flat Pattern



GOS-23 Round Pattern

SPECIFICATIONS Weight : 504a Paint nozzle bore : 1.0mm Atomizing pressure: 0.03~0.2 MPa : 0.35MPa or over Pilot air : 100~200N1/min Air Consumption : 30~120mm Pattern size : 5~12cc/min Paint delivery Weight : 471g Paint nozzle bore : 0.8mm Atomizing pressure: 0.02~0.1 MPa Pilot air : 0.35MPa or over Air Consumption : 15~30N1/min : 3~20mm Pattern size Paint delivery : 0.5~30cc/min

MAIN USES		
Print Type	Market	Printing object
Fluorine paint	Automotive	Carburetor throttle, Piston, Valve, O-ring
	Electrical	Copy machine roll, PC parts, Electromagnetic valve plunger
	Others	Camera lens tube, VCR parts, gear
UV Paint	Plastic	Cellular phone, Cosmetic bottle, Optical instruments
	Carpentry	Furniture, Desk, Door, Golf club
Silicon paint	Electrical	Buttons of PC, Cellular phone
Molybdenum	Automotive	Turbo charger, Compressor
Photocatalyst		Lighting instrument, Mirror, Building material, Glass product
Inorganic paint		Container bottle, Sink utensil



W TRINITY COATING SYSTEMS

Electrostatic paint spray gun with cascade module - RBG-42, RBG-40



Automatic electrostatic air spray guns 'Auto Radial' - ARG-20, ARG-30



RBG-12

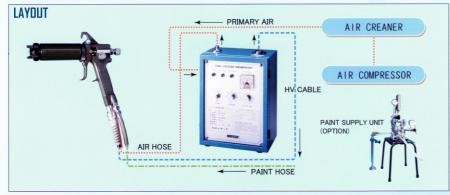


ELECTROSTATIC HAND SPRAY GUN









The gun of type "BS" is in general use for almost paint except water soluble paint, metalic paint, amino alkyd paint.

In case using electrical conductive paint such as "high-Metalic Paint, Amino Acid Paint (woodcraft use), please use gun type "BM".

TRINITY COATING SYSTEMS

About Us

Eastablished in the year 1998, Trinity Coating Systems Ltd. Bangalore is a 100% subsidiary company of Trinity Industrial Corporation Japan. Trinity has a wide range of innovative products like paint finishing systems / equipment, paint application machine, pre-treatment systems, electro coating systems, spray booths, air make-up equipments, baking ovens, exhaust gas treatment equipments, VOC abatement equipments, factory ventilation systems, paint circulation systems, conveyor systems that we develop and manufacture and are being used in various industrial sectors nationwide and all over the world.

For leading International and Indian organizations that are looking for single source responsibility from basic engineering to commissioning of Turnkey Paint Shops - TRINITY has the expertise. Both Trinity Japan and Trinity India work in close combination to give our customers the service they expects in terms of technology expertise, quality of the end project, timeliness of completion, safety and optimum cost.

The sphere of Trinity – India's activities encompasses, Design and Engineering of Turnkey Paint Shops, fabrication of mild steel, stainless steel and galvanised steel items, purchasing of local parts as per designed requirements, quality checking and progress review during manufacturing, erection of locally procured and manufactured items, erection of imported equipment, commissioning and testing, and overall project management.

Trinity – India has a dedicated team of people, widely experienced in handling total Paint Shop Projects put up to attain International Standards. With this support, experience and excellent start, Trinity – India is now looking forward to expand its operations to other prestigious customers.

Administrative Management Capabilities:

- Design & Engineering
- Fabrication of Equipment
- To Handle Bought Out Items like Pumps, Motors, Valves etc.
- Erection of Imported & Local Equipments
- Adherence to Governmental Laws and Tax Regulations

Paint Finishing System

Trinity's total guarantee covers any size of entire paint finishing systems from start to finish stage and from planning to after-sales services.

As a leading expert of paint finishing systems, Trinity offers a total plant engineering service including the design, manufacture, inatallation and start-up of complete paint finishing systems comprising all stages such as pre-treatment, electro coating, surface coating, finish coating and baking. All aspects of our services and supplies, including our after-sales service, carry our total quality guarantee. We have the rare ability to act as a general contractor on a world-scale.

The capability applies not only to large-sacle plants but also to mini-plants, which are handled with the same uncompromising commitment to quality and excellence. Trinity will propose optimum paint finishing system to meet the customers' need utilizing coating technologies developed with in-house coating experience.

Major Equipment

- ► Pretreatment
- ► Heat Exchange for Phosphating
- ► Electro Coating
- Spray Booth
- ► High Efficient Paint Collector
- ► Air Make-up
- ► Entharpy Wheel
- ► Baking Oven
- ► Incinerator
- ► VOC Treatment
- ► Waste Water Treatment
- ► Paint Sludge Treatment
- Conveyor
- ► Factory Air Conditioning

Major Paint Coating System

- ► High Efficient Water Rinse
- ► Iron Particle Removing
- Low Frequency Agitation
- ► High Quality Electro Coating
- Minimize Sludge at Pretreatment & E-Coating
- ► Closed Waste Water Treatment
- ► Powder Coating

- ► Water Borne Paint Coating
- 2-Stage Water Rinse Recovery System by UF
- ► Centralized Spray Booth Control
- ► Air Flow/Direction Control
- ► Energy Saving Temperature Control
- ► Paint Sludge Minimizing System
- ► Energy Monitoring

- ► Planet Link (System Operation Management)
- Digital Engineering
- System Operation Monitoring
- ► Hydrodynamic Analysis
- Conveyor Chain Weariness
 Measuring

Paint Application Machine

High performance and high efficiency are the hallmark of the extensive range of Trinity Paint Application Machine designed and manufactured by Trinity itself utilizing its superior know-how and experience.

Trinity undertakes the development, design and manufacture of a wide range of paint coating machines and related equipment. We offer a comprehensive array of systems designed to help our customers achieve major savings in coating costs. These systems include electrostatic paint coating equipment, alltypes of automatic paint coating equipment, paint circulation systems and a full range of painting machines. All of these products are developed with particular attention given to energy and resources savings, low manpower requirement, non-polluting and environment conserving features to make a decisive contribution to improving the efficiency and safety of paint finishing systems. Trinity paint application machines are completely manufactured in house to achieve and quarantee uncompromising standards.

Major Paint Application Machine

- ► Electrostatic Coating Machine
- ▶ Robot
- ► Reciprocator
- ► Automatic Coating Machine
- ► 2-Component Coating Machine
- ► Paint Circulation System
- ► Cartridge Paint Supply System
- ► Automatic Color Changer
- ► Electrostatic Spray Gun

- ► Electrostatic Rotating Bell Type Paint Adaptor
- ► Non Electro-Charge Bell
- ► Module Color Change Valve
- ► Multi Gear Pump
- ► Flushable Gear Pump
- ► Quick Washer
- ► Waste Liquid Recovery
- ► Electrostatic Flocking Machine

Major Paint Coating System

- ► Water Borne Paint Supply System
- ► Gun Change System
- ► Non-adjustable Dual Piping System

OVEN SYSTEMS



Spray Booth with built-in large size of glasses to visualize and make Kaizen Activity easy.



Entrapy Wheel



PT/ED Bumper Paint



Primer Paint Spray



Pre-Heat Oven for Water Borne Paint

Product Range

PAINT PLANTS

- ► PRE TREATMENT SYSTEM
 - Entrance
 - Bazooka Wash
 - Pre Wash Tank
- ► E-COAT SYSTEM
 - Entrance of ED Tank
 - Exit of ED Tank
 - E-Coat Paint Circulation

- ► PAINT EQUIPMENT SYSTEM
 - Primer Paint Robot
 - Too Coat Paint Robot
 - Paint Cartridge System
- ► BUMPER PAINT BOOTH
 - Primer Paint Spray
 - Clear Paint Spray
 - Booth Under Section

OVEN SYSTEM

- ► PRE TREATMENT
 - Piping
- ► E-COAT SYSTEMS
 - Ducting
 - Booth & Enclosures
 - Storage Tank & Automation
 - ED, Primer & Top Coat
- ► TOP COAT

CLEANING SERVICE

► BOOTH OVEN PT/ED SECTIONS

SMALL CONSTRUCTION

- ► DECK INSTALLATION
 - Deck, Piping & Duct



Automatic Lubrication

Trouble-free operation with automatic lubrication systems.

AUTOMATIC LUBRICATION

Perma CLASSIC / Perma FUTURA CLASSIC FUTURA FUTURA

Solutions

- Housing: perma CLASSIC metal / perma FUTURA transparent plastics
- Electrochemical / grease and oil
- ▶ Operating temperature 0°C to +40°C
- Discharge period at 20°C with SFO1: 1, 3, 6 or 12 months
- Pressure build-up: Max. 4 bar
- Lubricant volume: 120 cm³

Perma NOVA



Solutions

- ► Housing: Transparent plastics
- ▶ Electrochemical / grease and oil / temperature independent
- Operating temperature -20°C to +60°C
- Discharge period: 1, 2, 3... 12 months
- Pressure build-up: Max. 6 bar
- Lubricant volume: 130 cm³

Perma STAR Product Range



Solutions

- ► Housing: Transparent plastics
- ▶ Electrochemical / grease and oil / temperature independent
- ▶ Operating temperature -10°C to +50°C
- Discharge period: 1, 3, 6, 12 months or machine controlled
- ▶ Pressure build-up: Max. 5 bar
- Lubricant volume: 60 cm³, 120 cm³, 250 cm³

Perma PRO Product Range



Solutions

- ► Housing: Metal / transparent plastics
- ▶ Electrochemical / grease and oil / temperature independent
- ▶ Operating temperature -20°C to +60°C
- ▶ Discharge period: 1 day to 24 months or machine controlled
- Pressure build-up: Max. 25 bar
- Lubricant volume: 250 cm³, 500 cm³
- Number of lubrication points: 2-6

APPLICATIONS



Automatic lubrication system



Automatic lubrication system



Drive motor lubrication (2 points)

Welcome to "Techno-Forest" where New Environmental Technologies are developed

Our approach to INDUSTRY and ENVIRONMENT is how to minimize generating waste to treat and then how to treat the waste. Our goal is not only environment protection but also to realize cooperative relation between INDUSTRY and ENVIRONMENT.

High Quality



Energy Saving



Resource Saving



Bangalore Unit, India



Unmanned

Operation

Cost

Headquarters, Aichi, Japan



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