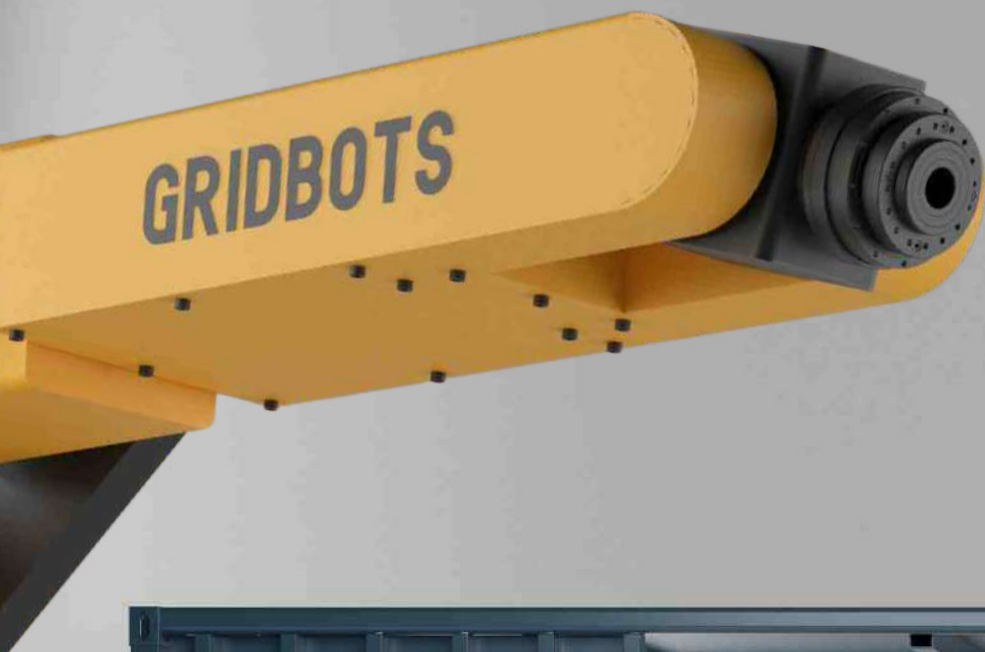




*gridbots*



# ROBO-PAINT

FULLY AUTOMATED ROBOTIC PAINT CELL





**NO.1**

Robot Manufacturer in India

**50+**

Projects Completed

**100+**

Robots Delivered

**3**

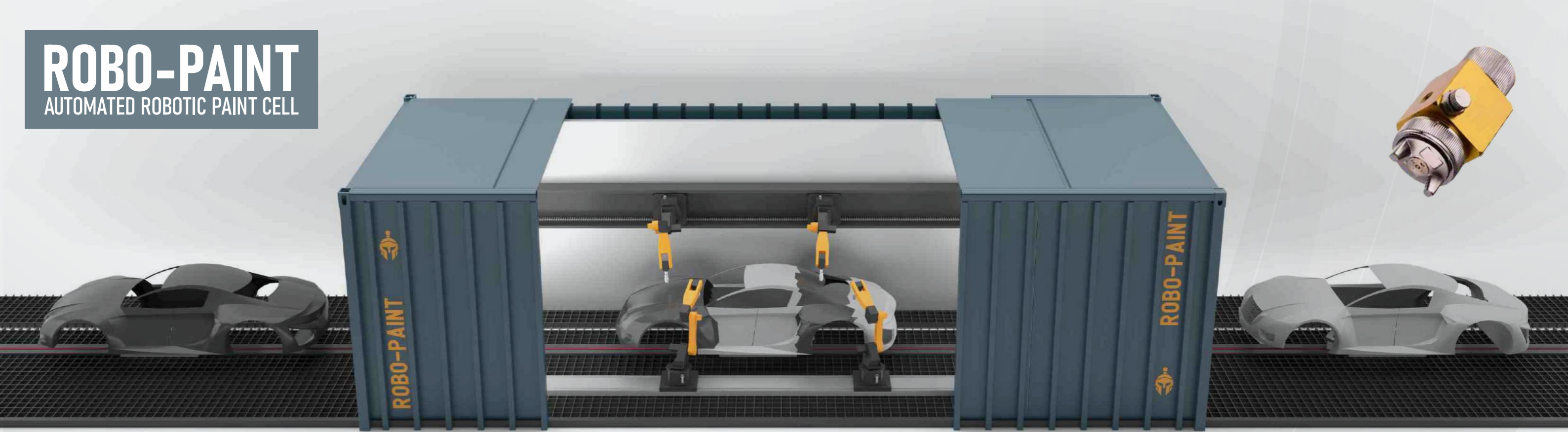
Manufacturing Units





# ROBO-PAINT

AUTOMATED ROBOTIC PAINT CELL



**PAINT ANY SURFACE**



**MULTI ROBOT COORDINATION**



**LARGE PAINT VOLUME**



**SELF PROGRAMMING**

## THE SOLUTION

Gridbots Robo-Paint is an automatic painting solution for batch painting of products which needs to be painted automatically in a pre-defined manner.

The system can be custom extended to any size and can accommodate any size of product which requires custom painting maneuvers.

The paint booth is fitted with multiple 3D Scan sensors to ensure that the surface of the product to be painted is properly dimensioned and scanned before paint process begins - Making it free from manual programming cycles.

The under carriage can carry product upto 1 tonnes with fast speeds and with high precision stop and go slides. The system can be integrated with the blasting and coating solution to ensure that blasting, coating and painting system can work in tandem.

Multiple robots as per the requirement of the painting speed and product geometry can be fitted on the line to ensure the uptime and productivity.

### PERFORMANCE

|                        |                                  |
|------------------------|----------------------------------|
| 11 Axis Robotic System | 3 Axis Linear/6 Axis Articulated |
| Linear Speed           | Upto 0.5 M/Sec                   |
| System Dimensions      | 20x8x8 Feet                      |
| Air Pressure Required  | Upto 8 Bar@5 CFM                 |
| Painting Mode          | Water/ Waterless /Power Spary    |
| Booth Transport Option | Yes - Via Truck Loader           |

### CHASSIS

|                          |                              |
|--------------------------|------------------------------|
| Dimensions               | 20x10x10 Feet [LxBxH]        |
| Weight                   | 700 Kgs                      |
| Suspension               | Passive                      |
| Ground Clearance         | 900 MM                       |
| Booth Built Material     | Mild Steel                   |
| Internal Surface Coating | Anti-Sticking Teflon Coating |

### POWER SYSTEM

|                           |                         |
|---------------------------|-------------------------|
| Power Requirement         | Single Phase AC         |
| Power Rating              | 3 Kw System             |
| Battery Power             | Yes - Optional          |
| Power Consumption         | Metered and Monitored   |
| System Health Monitoring  | Active [IOT Based]      |
| Material Carriage Support | Yes Upto 2 Tonne Puller |

### SAFETY

|                                    |                          |
|------------------------------------|--------------------------|
| Laser Curtain Sensors              | 6 Sides                  |
| Interlocks                         | All Axis                 |
| Safety Lidar                       | 2x [SICK or Equivalent]  |
| E-Stop                             | 4 Sides                  |
| Camera Monitoring                  | Yes - 8 Cameras          |
| Collision Detection with Workpiece | Yes - TOF Based - On TCP |

### 3D RECONSTRUCTION

|                                    |  |
|------------------------------------|--|
| Technology                         | Stereo Vision/ Optional TOF Sensor/ Optional Laser Projector |
| Model Accuracy                     | +10 mm   |
| 3D Capture Speed                   | 1 Cubic Meter per minute                                     |
| Physical to Digital Model Transfer | Yes  |

### ENVIRONMENTAL

|             |                      |
|-------------|----------------------|
| IP Rating   | 55                   |
| Temperature | 0-60 Degrees         |
| Humidity    | 90%, Non- Condensing |



## **GRIDBOTS TECHNOLOGIES PVT. LTD.**

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