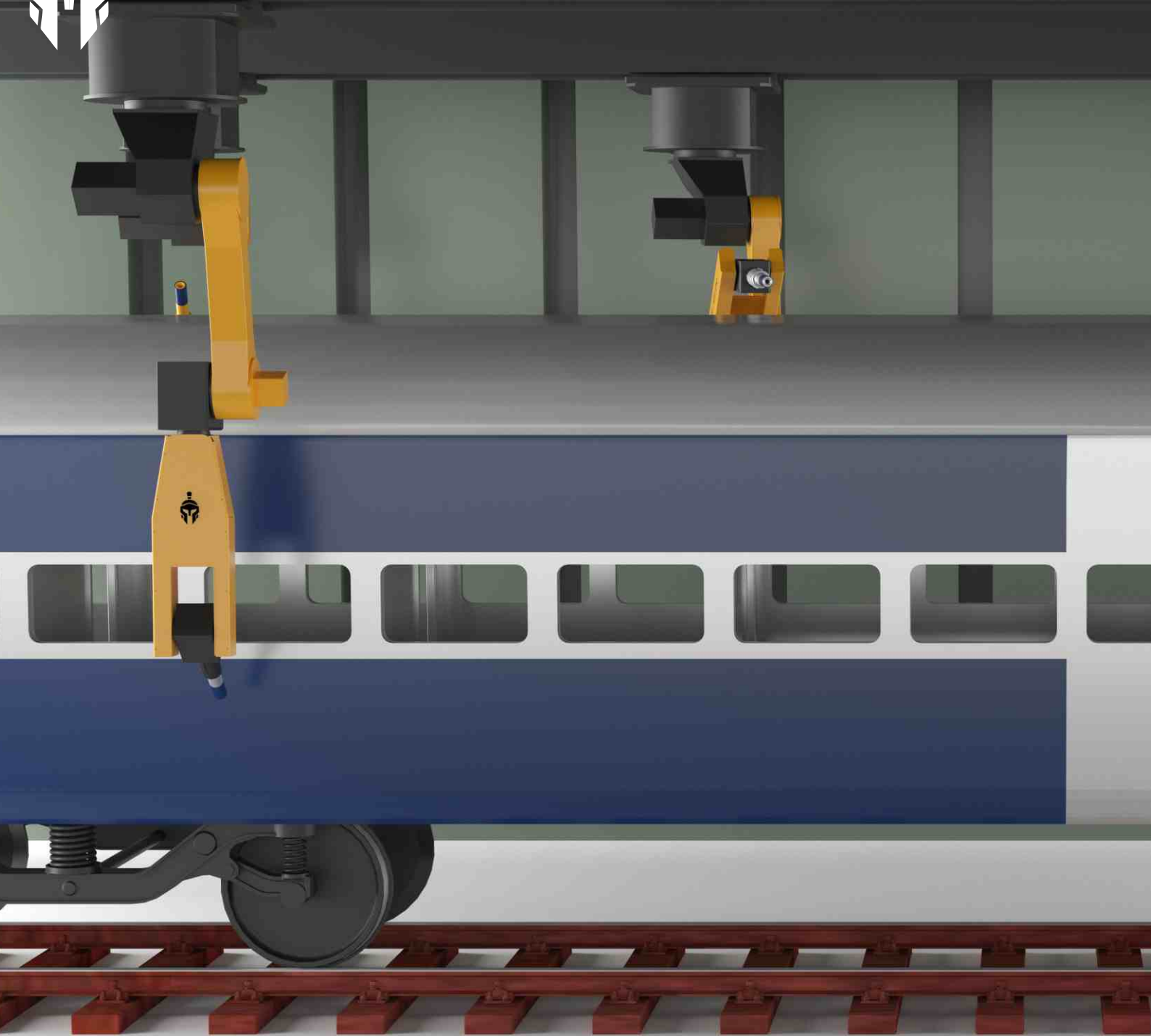




gridbots



ROBO-BLAST

ROBOTIC GRIT BLASTING CELL



NO.1

Robot Manufacturer in India

50+

Projects Completed

100+

Robots Delivered

3

Manufacturing Units



ROBO-BLAST

ROBOTIC GRIT BLASTING CELL



BLAST ANY SURFACE



MULTI ROBOT COORDINATION



3D SEAM TRACKING



SELF PROGRAMMING

THE SOLUTION

Gridbots RoboBlast is an automated Grit/Sand blasting system which utilises 8 Axis rugged robotic system to accurately blast the items in uniform way and provides SAE3 Finish to the items.

The system utilises high pressure air compressor and Grit dispenser which is accurately positioned at a perfect angle from the work piece and moved in a defined speed to get perfect finish.

The system can operate fully autonomously and utilises state of art 3D image capture system to form the 3D structure of the item and then self programs its trajectories to ensure optimum time and finish.

PERFORMANCE

Robot Axis	8 Axis 3 Linear/8 Rotary
Linear Speed	Upto 0.5 M/Sec
System Dimensions	20x8x8 Feet
Air Pressure	Upto 2000 Bar
Blasting Mode	Grit/Sand/Composite
Transport Capable	Yes - Via Truck

CHASSIS

Dimensions	20x10x10 Feet [LxBxH]
Weight	3000 Kgs
Suspension	Passive
Ground Clearance	900 MM
Built Material	Mild Steel
Paint/Coating	Powder Coating With internal Special Rubber Coating

POWER SYSTEM

Power Requirement	230V / Single Phase AC
Power Rating	2 Kw System
Battery Power	Yes - Optional
Power Consumption	Metered and Monitored
Power Monitoring	Active [IOT Based]
Box Height Supported	150-600 mm

SAFETY

Curtain Sensors	2x
Interlocks	All Axis
Safety Lidar	2x [SICK or Equivalent]
E-Stop	1x
Over Current	Yes - All Axis
Collision 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
Direct to Robot	Yes - Direct CAD to CAM Module

ENVIRONMENTAL

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



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