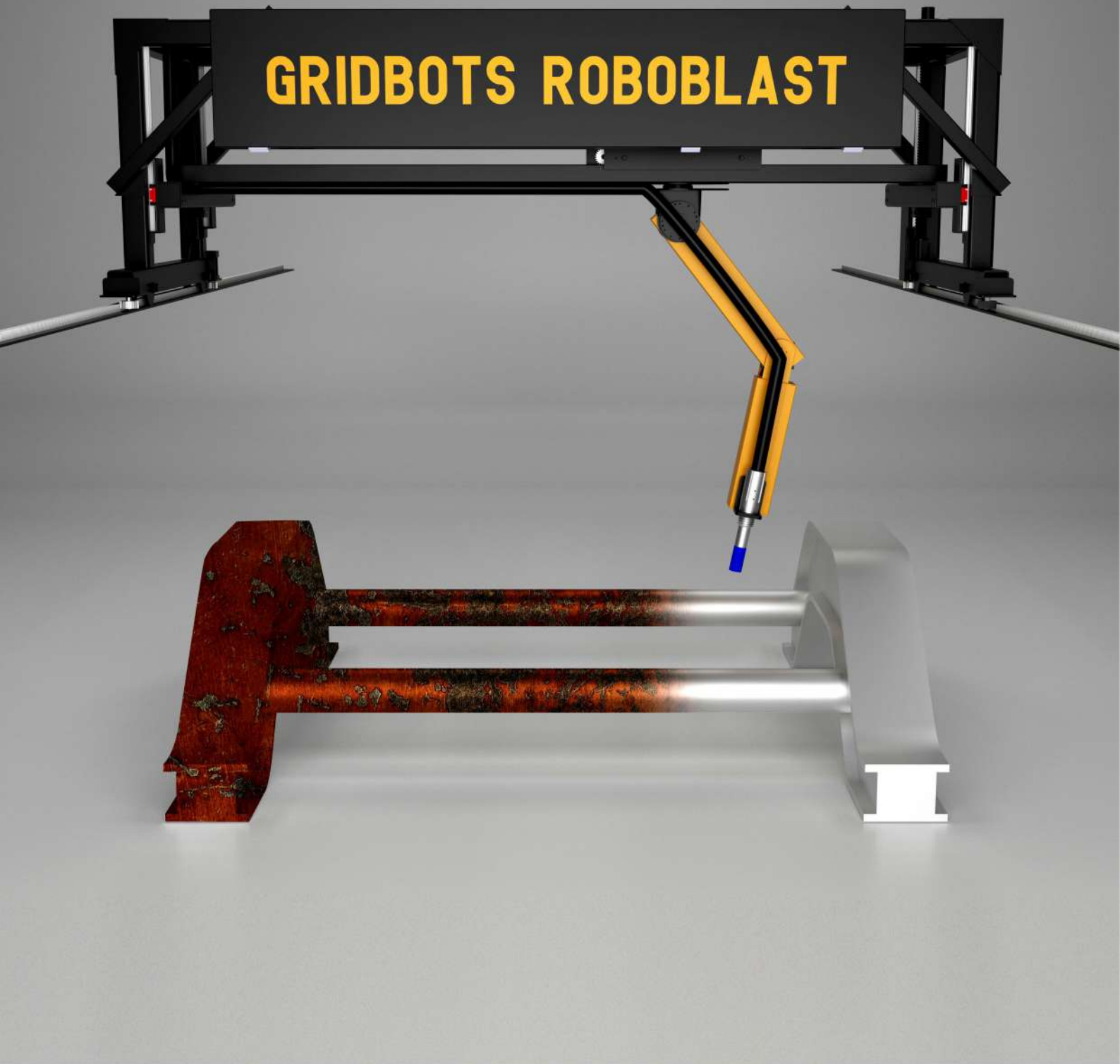


GRIDBOTS ROBOBLAST



ROBOBLAST
ROBOTIC GRIT BLASTING CELL

ABOUT GRIDBOTS

We are a Technology company from India and work in the field of Robotics - Artificial Intelligence and Machine Vision. Founded in August 2007 by young and passionate innovator Mr. Pulkit Gaur [TED Fellow and MIT Young Innovator of the year]. We today are a team of more than 50 people- Head quartered in Ahmedabad and having offices in Pune and Delhi.

We design and develop ultra high performance systems which are used in the industry for defect detection - dimension measurement - sorting applications - grading application and many other ways. With our machine vision and robotic solutions we are helping our clients achieve digital factory goals in a time bound manner.

We would be glad to hear about your industry 4.0 adaptation strategy and would love to get in touch with you to explore the synergies in working together !

NO.1

Robot Manufacturer from India

95+

Projects Completed

100+

Robots Delivered

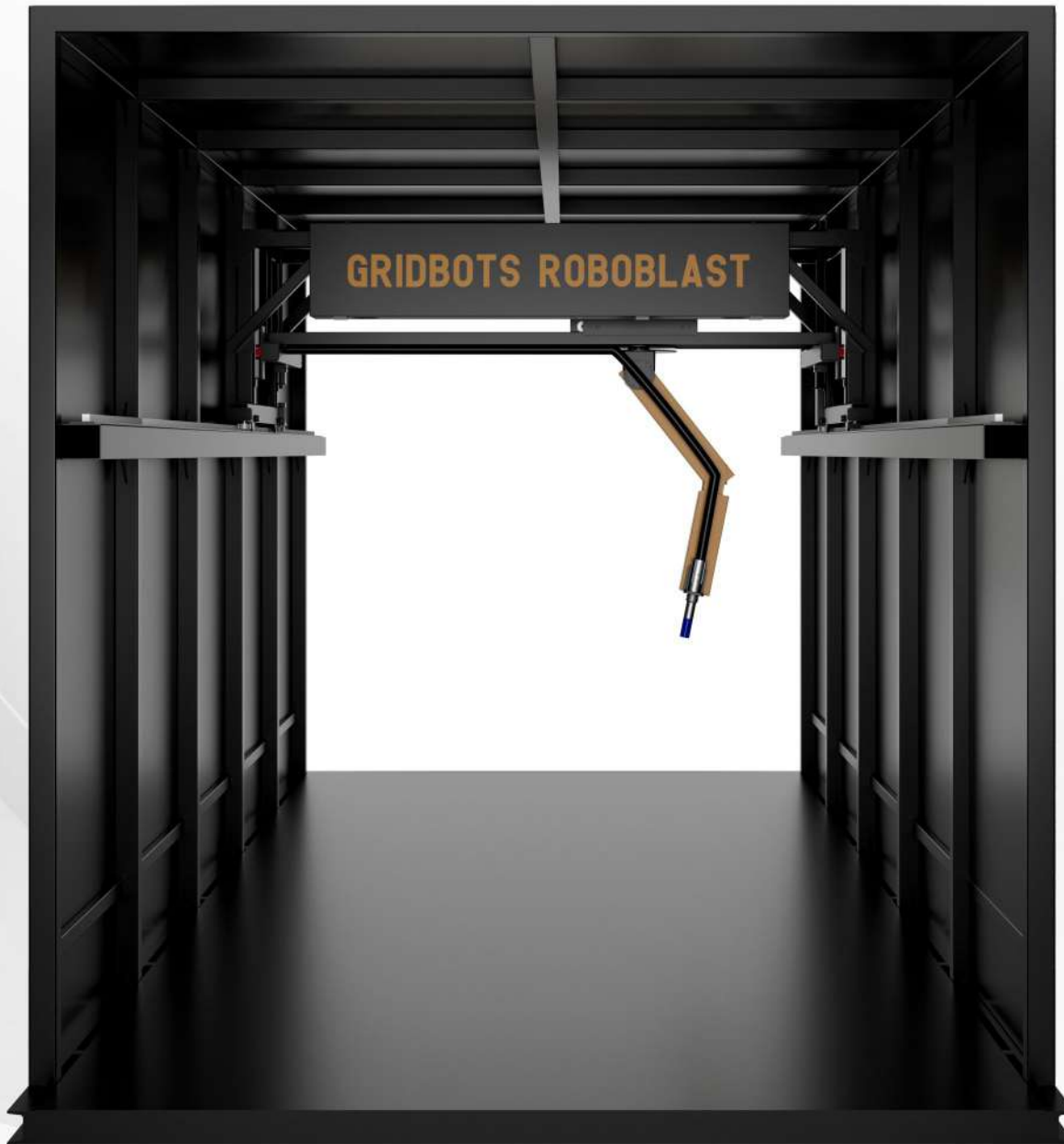
50+

Happy Clients



ROBOBLAST

ROBOTIC GRIT BLASTING CELL



BLAST MEDIA

GRIT/SAND

BLASTING SPEED

0.5 M/S

FINISH

SAE 3

ROBOT AXIS

8 AXIS

SYSTEM DIMENSIONS

20X8X8 FEET

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 Media	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]

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/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	42
Temperature	0-60 Degrees
Humidity	95%, Non- Condensing

COMPUTER

On Board Computer	i7 [11'th Gen]
GPU	RTX [NVIDIA]
RAM	64 GB
Aux Controller	ARM-32 Bit

GRIDBOTS ROBOBLAST



GRIDBOTS TECHNOLOGIES PVT. LTD.

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