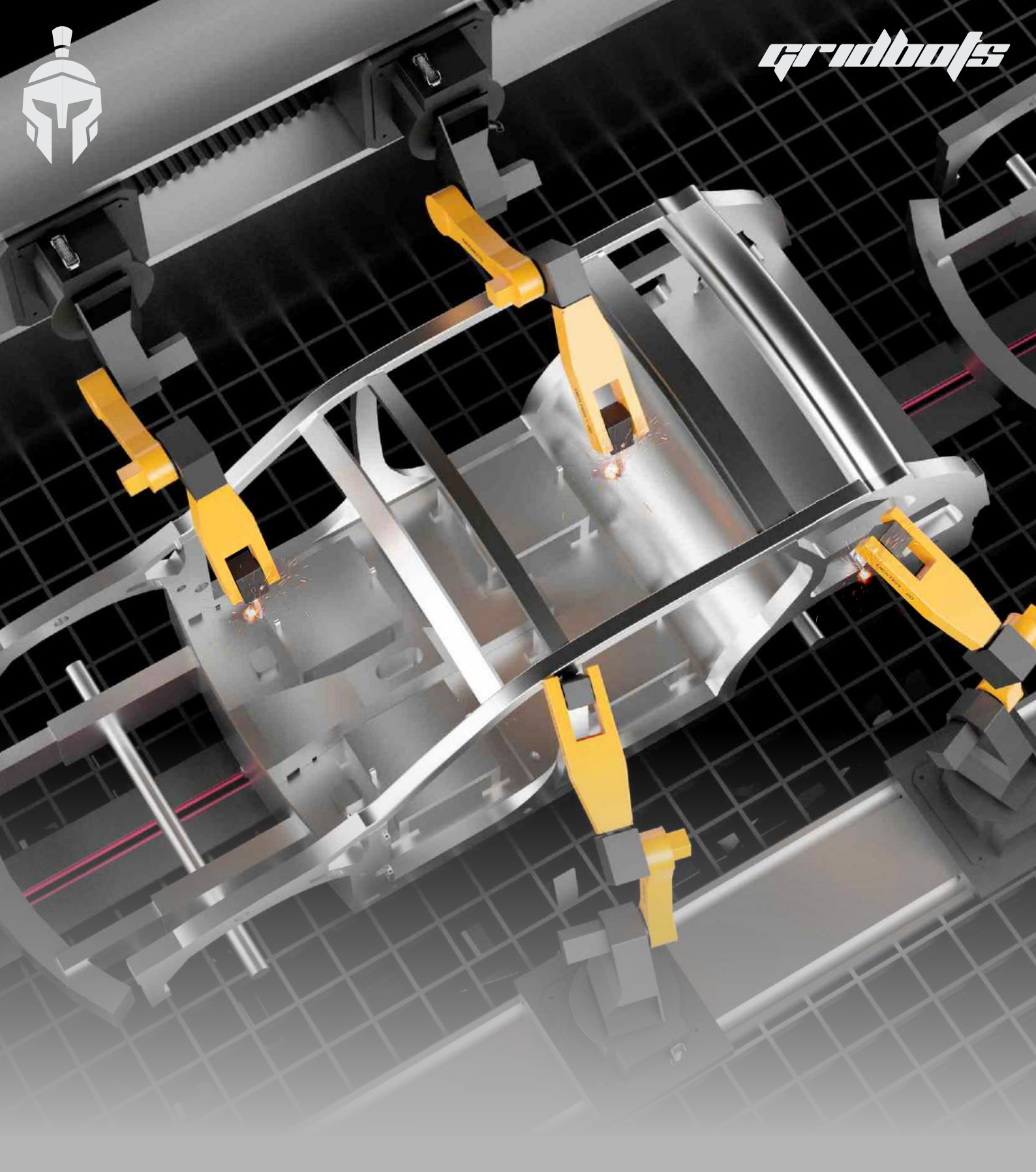




gridbols



ROBO-WELD

FULLY AUTOMATED ROBOTIC WELDING CELL



NO.1

Robot Manufacturer in India

50+

Projects Completed

100+

Robots Delivered

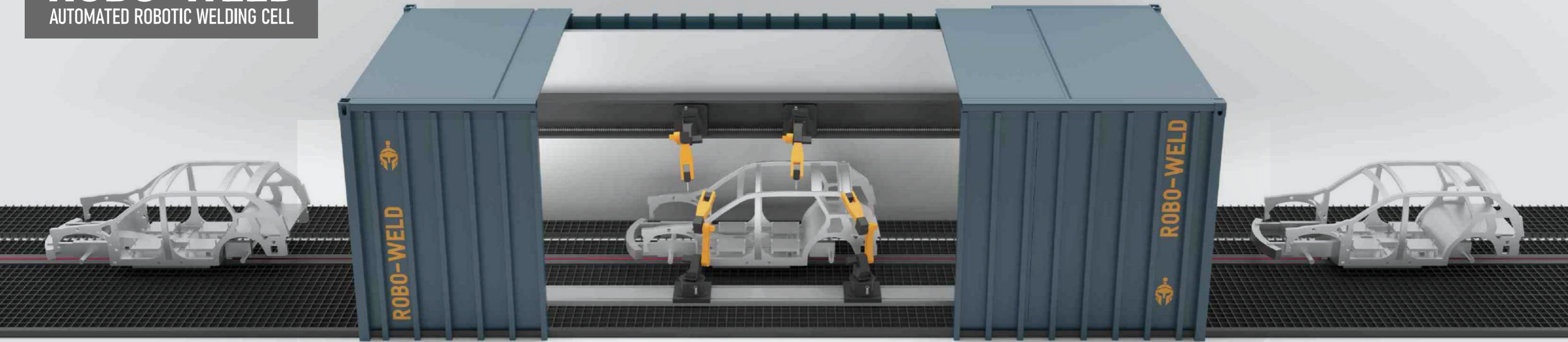
3

Manufacturing Units



ROBO-WELD

AUTOMATED ROBOTIC WELDING CELL



WELD ANY SURFACE



MULTI ROBOT COORDINATION



3D SEAM TRACKING



SELF PROGRAMMING

THE SOLUTION

Gridbots Roboweld is automated Welding cell which incorporates 9 - 12 Axis rugged robotic arms and positioners to automate the task of batch welding with high accuracy and repeatability.

The system utilises high precision robotic arms with extended capabilities to achieve two objectives - First one being the high repeatability in the process and second is the cycle time for the process is drastically reduced. The multi-axis robotic arms can reach to places where its difficult to weld and scan and automates the complete process.

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

PERFORMANCE

9/12/15 Axis Platform	3 Linear/6/9/12 Rotary Axis
Linear Speed	Upto 0.1 M/Sec Weld Speed
System Dimensions	20x8x8 Feet/Customisable
Air Pressure Required	8 Bar@5CFM
Weld Weave Mode	Stringer Bead, Zigzag Weave, Circular Weave ,J-Weave, C-Weave, Figure-8 Weave, Wiggle or Oscillating Weave
Transport Capable	Yes - Via Truck

CHASSIS

Dimensions	20x10x10 Feet [LxBxH]
Weight	750 Kgs
Suspension	Passive
Ground Clearance	900 MM
Built Material	Mild Steel
Fume Extractor	Anti-500 Sp

POWER SYSTEM

Power Requirement	Single Phase +3 Phase AC
Power Rating	Upto 3 Kw System
IOT System	Yes - Health and Performance Monitor
Power Consumption	Metered and Monitored
Performance Monitoring	Active [IOT Based]
Powered Conveyor	Servo Driven + Jigs

SAFETY

Curtain Sensors	4 Laser Curtain
Interlocks	All Axis
Safety Lidar	2x [SICK or Equivalent]
E-Stop	4x
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	+5 mm
3D Capture Speed	1 Cubic Meter per minute
Physical to Digital Model Transfer	Yes- Direct Capture to CAD to CAM Module

ENVIRONMENTAL

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



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