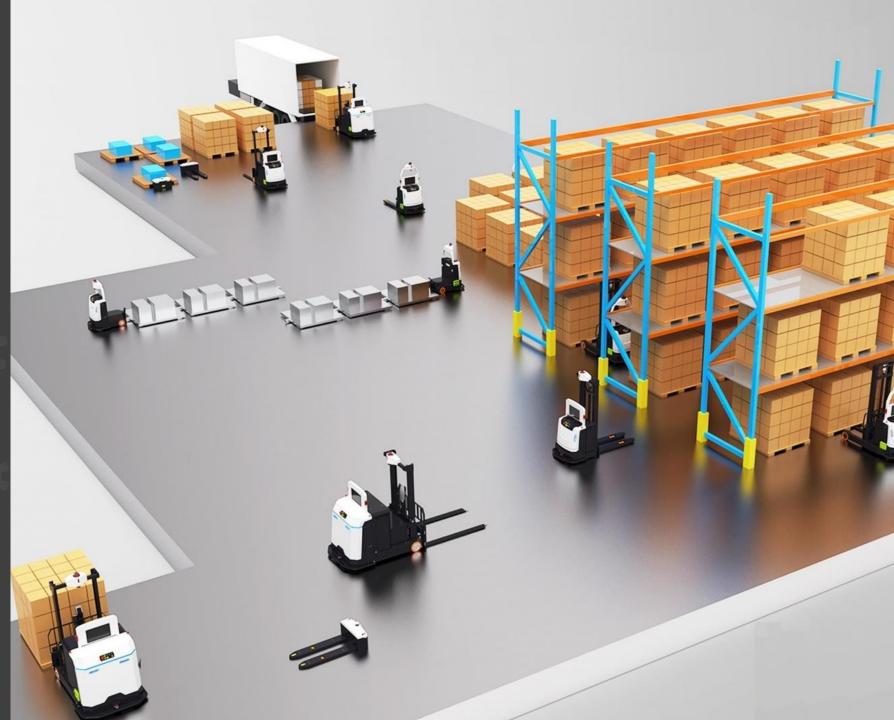
ROBONETICS
AUTONOMOUS MOBILE
ROBOTS





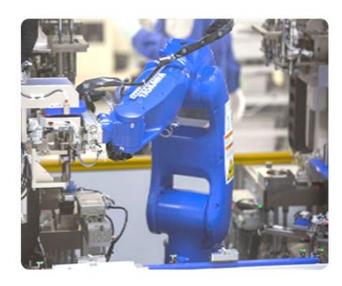
❖ About ROBONETICS



> HISTORY:

Technologies was established in 2018 and has already taken a significant place across World. Our company able to System Integration of Yaskawa, UR, KUKA, ABB, Fanuc, Nachi, Kawasaki etc.. Nevertheless, we are also affiliated with Hardware supplier. We are currently implementing heavy industrial solutions for companies which involve stone, metal, foam, wood, ceramics, plastic and glass works in their production line. However, Robonetics focuses not only on heavy industry projects but also on other creative sectors such as education, transportation, media, military industries and robots in public areas.

SERVICES







Solutions Robotics Training

Robotics Solutions

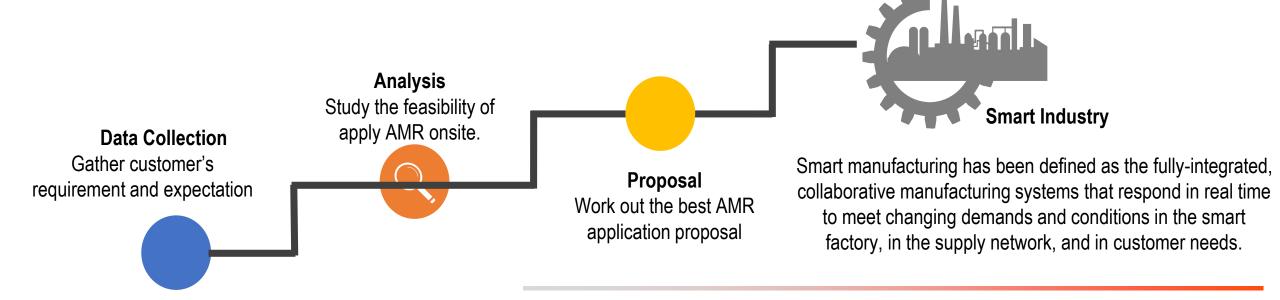


Vision

To Become a Trusted SMART Factory Integrator for our clients by providing competitive advantage by designing and delivering world-class distribution and production solutions.

Mission

Constantly deliver premium quality, innovative robotic solutions, superior support, and a prodigious customer experience, such that our employees thrive, and our customers are completely gratified.







Designation	Name	Expertise
Director – Product Design	Chandrashekar. V	Design Software, Automation and Machine Building
Director – Sales & Projects	Prasanna. V	Machine building and Architecture development for robots

25 Plus Trained and Experienced Engineers comprised of Design team, Assembly Team, control Engineers - PLC, AMR, vision dedicated to each model of AMR.

❖ Our Service Locations

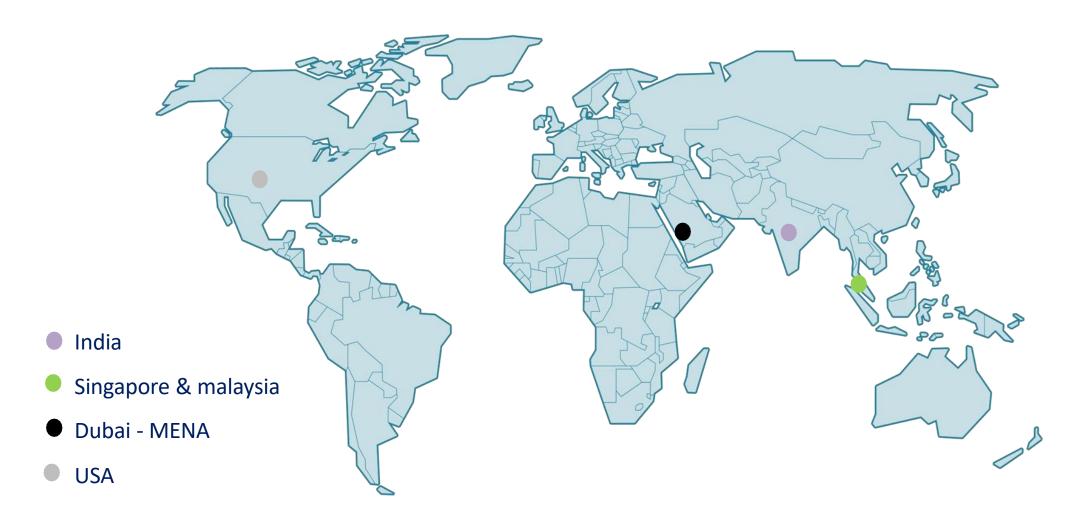






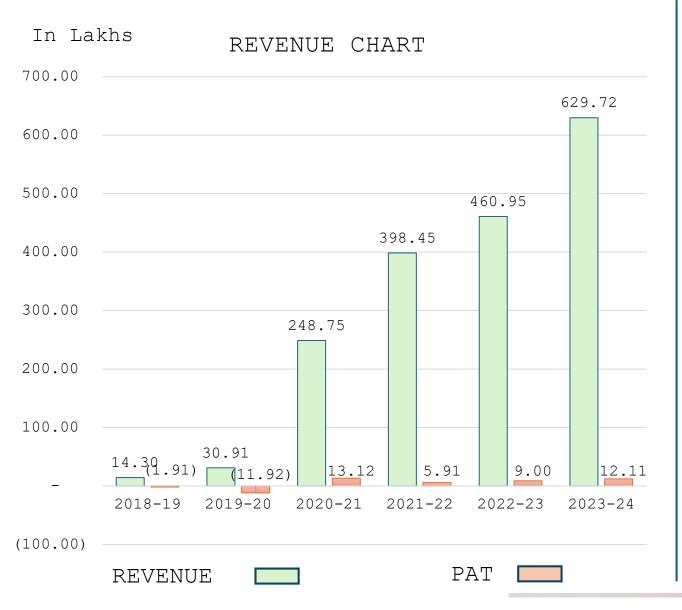
❖ Our Clientele

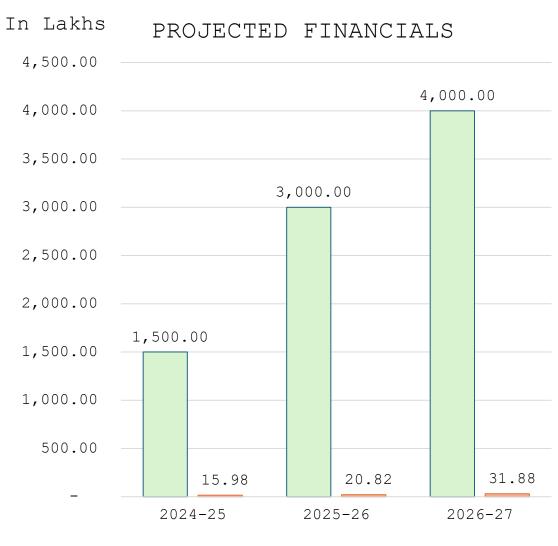




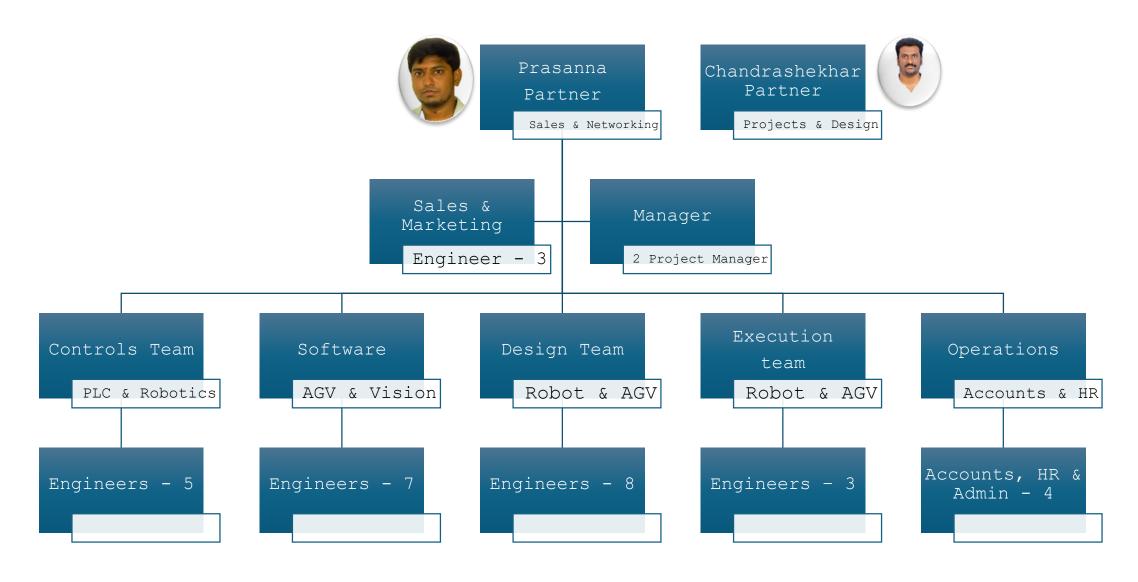
❖ Business Revenue





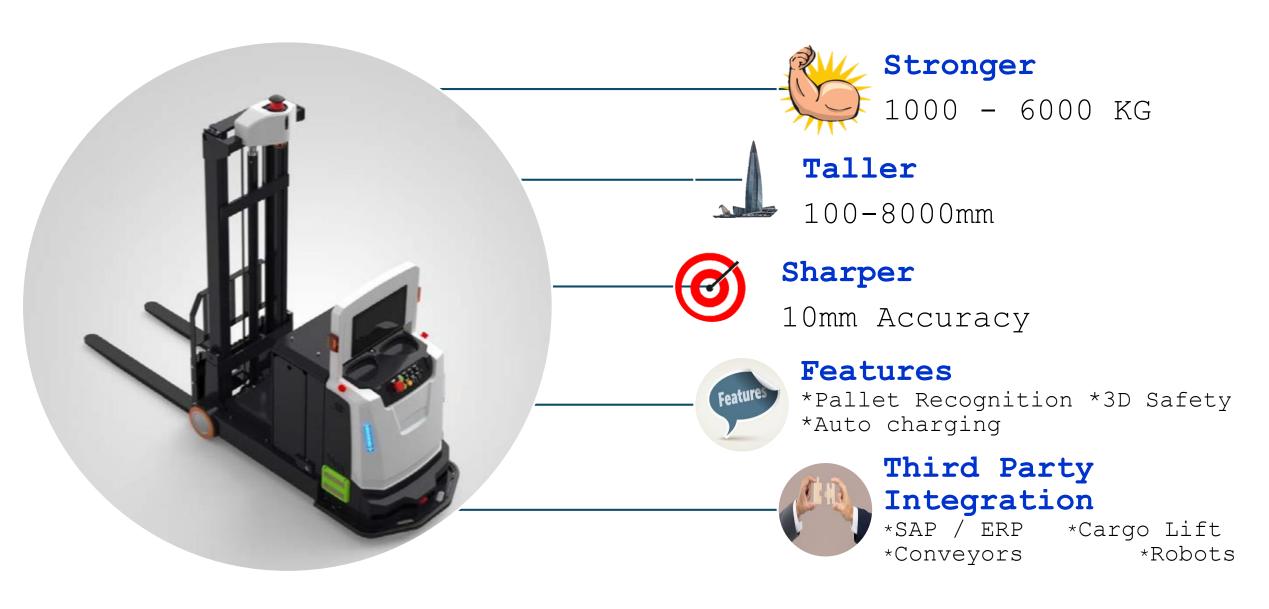






Why Robonetics





Current Industrial Scenario for Material Handling



90% of Industry Handling

Manual Process

Digitalization of Industry

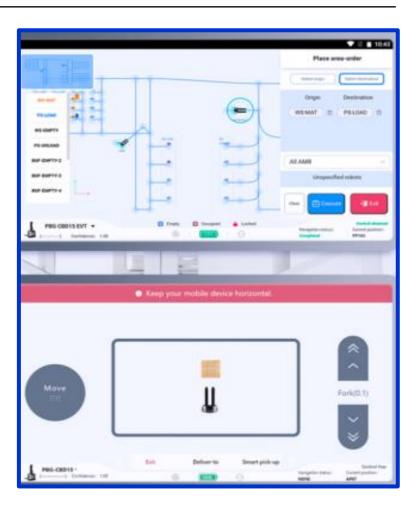












AMR in market Does not suit for a current Pallet or Bin



Jack Type Series



Pallet Mover AMR Series



Payload – 500 KG to 3000 KG Application – Towing, Lifting & Rotating

Payload – 1 to 6 ton Lifting Height - 1 to 6 meter

PT Series – Pallet Truck **AMR**



Payload – 1 to 6 ton Lifting Height – 1 to 6 meter

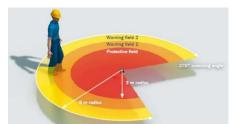
AGV safety character



◆ Laser anti-collision

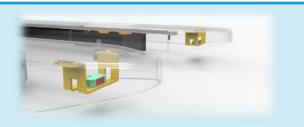
Cover all the areas of the AGV running direction. When the worker goes into some safety range (0-5m, adjustable), the safety protection would be triggered. The AGV would stop. When the worker leaves, the AGV would return to the normal operation.





◆ Photoelectric anti-collision

It is installed on the AGV fork tip. AGV would stop once the distance value is reached between the AGV and the object. When the object is removed, AGV would return to the normal operation



◆ Mechanical anti-collision

The AGV is equipped with mechanical anti-collision strips for multiple safety protection



◆ Audible and visual alarm, emergency stop button

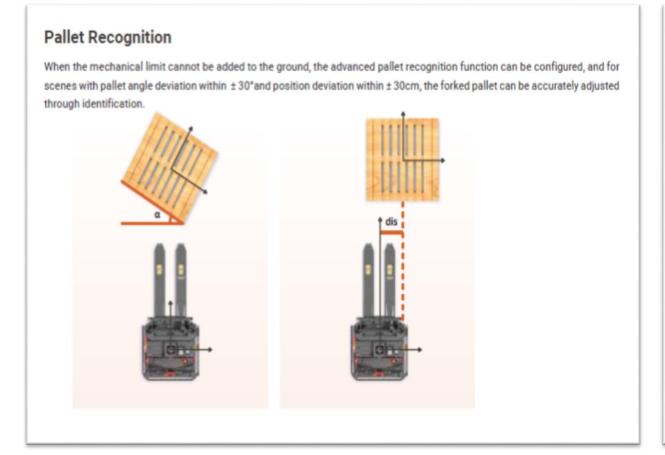
AWhen the AGV is driving, the warning music will be played and the warning light will flash continuously to remind workers to avoid in time. The effects of warning music and warning light are also different in different states of AGV.

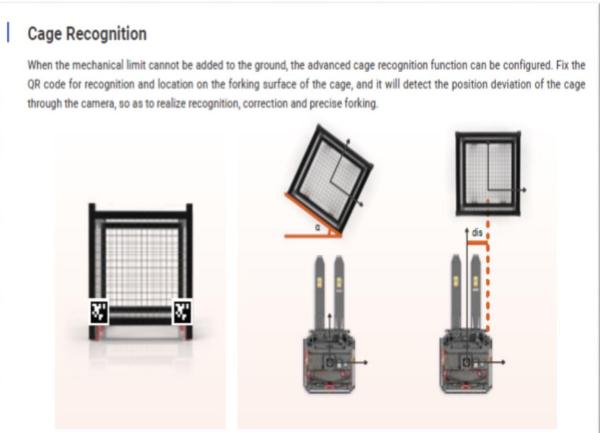






Precise Forking and Load Recognition





Smart Charging & Indication





Low battery value setting: When the battery volume is lower than the setting value(usually it is 20%,adjustable), the AMR would not receive the new task (the proceeded task would be finished) and would charge automatically at the charging station until the setting minimum value without receiving any task in the period. If the charging station is occupied, the AMR would wait in the resting position unit the charging station is available.



Charging value setting: In the charging process, if the AMR battery value is lower than one number (Usually it is 60%, adjustable), the AMR would charge without receiving the new task. When the AMR power is higher than this threshold (60%), if a new task is released, the AMR will stop charging and accept and complete the new task.



Normal power threshold setting: Normal power threshold setting: if no new task is released during the whole autonomous charging process, the AMR will charge until the power is higher than a certain threshold (for example, 90%, this value can be configured), and then stop charging. After the AMR stops charging, it will return to the rest position and wait for the release of a new task.



Maintenance and charging: when the battery power reaches the specified charging times or time (for example, the specified charging reaches 100 times or weekly and quarterly), the system forces the AMR to fully charge to 100% and continuously supply power for more than 3 hours.

Charging Type: Automatic & Induction Charging

Charging time: 2 Hours if it is Automatic Charging

Battery time : 6 to 8 Hours

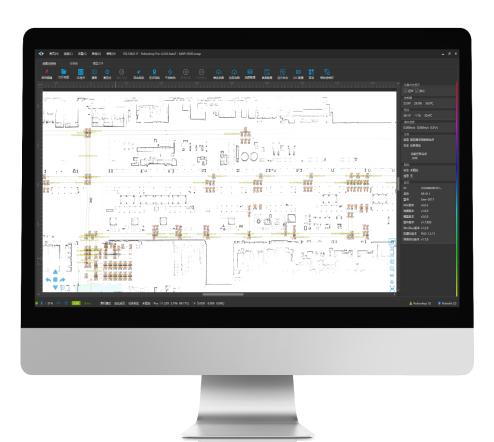
Battery Life : 1500 cycles, 1 Year Warranty

Battery Type : LifePo4

Smart Controlling & Monitoring



- One-stop implementation flexible and convenient
- Rich Function Tips
- Smart Map Editing
- Robust network communications
- powerful configuration systems
- One-stop robot calibration, mapping, navigation, configuration, monitoring and other visual operations



Smart Connectivity



Introduction of Multi-machine dispatch system

Provides a multi - machine scheduling software, multi - machine collaborative work and MES seamless docking. Achieve multi-vehicle scheduling, planning, traffic control.

Machine Collaboration

Can guide any robot using our controller to work together, no matter what it is, a forklift, a handling robot, or a composite robot.

Optimal Planning

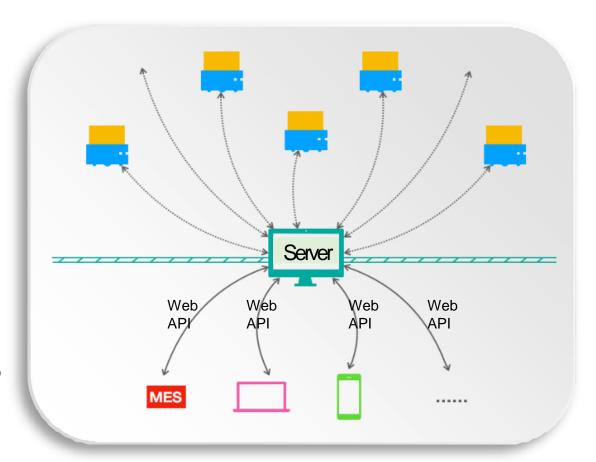
Automatically select the most suitable robots to perform tasks and carry out path planning and traffic control in the entire plant environment.

Seamless Docking

Provide concise Web API network protocol, seamless docking with MES, WMS and other systems.

Easy operation

AMR tasks can be adjusted and modified in a very short time





Cabin Handling



Sub Components Handling



AGV with Karakuri Bin Handling

Dolley Handling





AGV with Cobot



Lead Pallet Handling





Pallet Handling



Engine Handling



Tyre Handling



Motor Casing Handling



Assembly Handling

ROBONETICS AUTOMATION SOLUTIONS LLP

1] AGV /AMR – Jack Type



Technical parameter	Detail	
Model	Box / Piggyback Type	
Navigation mode	Magnetic Strip / Laser navigation	
Vehicle dimension	1540mm to 2250 (L) *989mm (W) *250mm (H)	
Application	Lifting, Towing, Assembly Operation	
 Payload 	500 Kg to 3000 Kg	
Lifting Height	60 mm	
Drive mode	Differential speed	
max load	500-3000Kg	
the minimum turning radius	1200-12700mm	
Rotational Diameter	1000mm to 2500mm	
Charging mode	Manual /automatic/ Induction	
Battery	48V/24Ah to 150ah depends on payload Lithium iron phosphate	
Climbing capability	4 (unload, unit:%) /1 (full load, unit:%)	
Communication mode	Wifi (2.4G/5G Dual frequency WIFI Or operator 5G)	
Application	Jack, Lifting, Assembly, Towing	

ROBONETICS AUTOMATION SOLUTIONS LLP

2] Pallet Mover



Technical parameter	Detail
Model	PALLET MOVER (Heighten mast)
Navigation mode	Laser navigation
Vehicle dimension	1475mm (L) *735mm (W) *480mm (H)
Fork dimension	1154mm (L) *186mm (W) *60mm (Sickness)
the outer width of the forks	570mm
the fork height (the lowest level)	86mm
Drive mode	Differential speed
max load	1000/1500 Kg
the max lifting height	156mm
the minimum turning radius	1000mm
Width of the aisle	2000mm
Charging mode	Manual /automatic (with the automatic charging station)
Battery	48V/24Ah Lithium iron phosphate battery
Climbing capability	4 (unload, unit:%) /1 (full load, unit:%)
Communication mode	Wifi (2.4G/5G Dual frequency WIFI Or operator 5G)



3] Pallet Stacker



Technical parameter	Detail
Model	PALLET STACKER (heighten mast)
Navigation mode	Laser navigation
Vehicle dimension	1640mm (L) *989mm (W) *2060mm (H)
Fork dimension	1150mm (L) *186mm (W) *55mm (Sickness)
the outer width of the forks	570mm
the fork height (the lowest level)	86mm
Drive mode	Differential speed
max load	1000-5000Kg
the max lifting height	1000-6000mm
the minimum turning radius	1200-1700mm
Width of the aisle	2000-2500mm
Charging mode	Manual /automatic (with the automatic charging station)
Battery	48V/24Ah Lithium iron phosphate battery
Climbing capability	4 (unload, unit:%) /1 (full load, unit:%)
Communication mode	Wifi (2.4G/5G Dual frequency WIFI Or operator 5G)

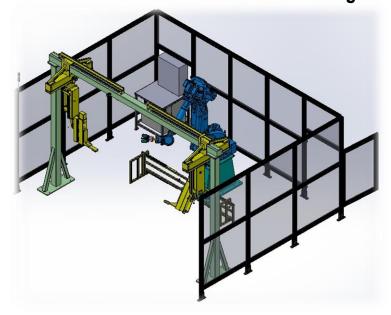
Projects details



Sealant Application



Robotic Tractor Gear Endurance testing



Ingot Pick and Place



Spray Paint

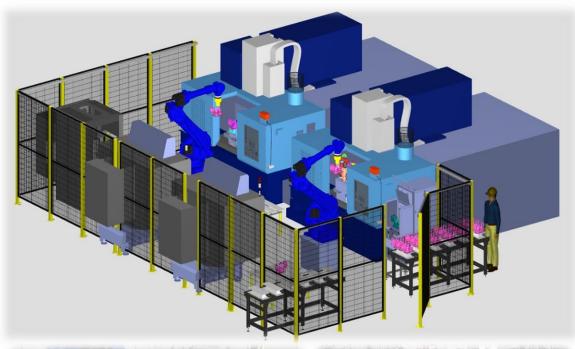


Robotic Forming



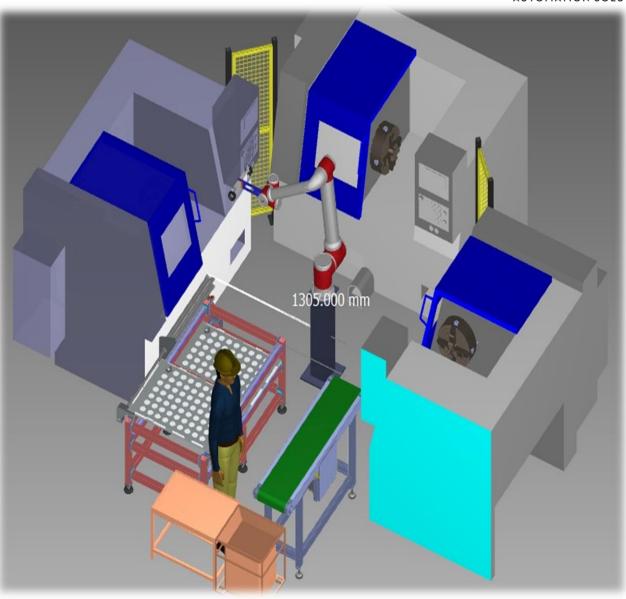
❖ Projects details – Machine Tending











Projects details



Vision Based Pail Inspection – Asian Paints



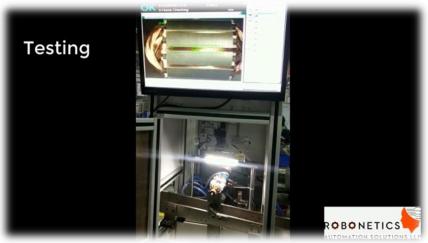


Vision based Bobbin Pick and Place - SRF

Bolt Inspection - Caterpillar



Motor Inspection - Philips



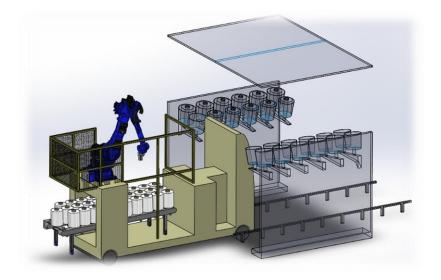


Mobile Phone Testing using Vision - Foxconn

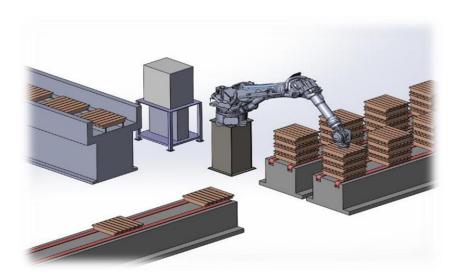
❖ Projects details



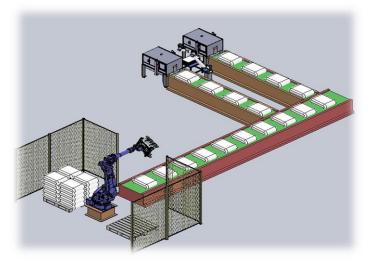
☐ Simulation and Consultant Support











Project Launch & Recognition



Tamilnadu industrial minister Recognition



Defence team Recognition

Tamilnadu Chief minister Recognition

















Major Clients and Deployments







































CATERPILLAR®











Robonetics - Innovating Intelligence









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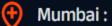
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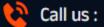
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Thank you

