

**OUTDATED ASSEMBLY LINES,  
MANUAL MATERIAL HANDLING**

**IS YOUR **MANUFACTURING**  
KEEPING UP OR FALLING BEHIND?**



Imagine a factory where efficiency meets intelligence—seamless, adaptive, and designed for tomorrow.



Say goodbye to rigid systems. Meet the future: agile mobile robots transforming how manufacturing works.





# Challenges

## Line Stoppages

In conventional conveyor assembly lines, stoppages can occur due to equipment malfunctions, single point failure.



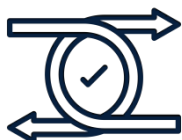
## High Capex

The auto industry's high capex is due to labor-intensive, less efficient conventional manufacturing methods.



## Limited Flexibility

Conventional Conveyor lines in automotive lack adaptability, slowing response to changing needs.



## Shorter Product Life Cycle

In automobile manufacturing, a fast paced production cycle requires rapid production timetables and exceptional reliability



## Varied Components & Suppliers

With a wide range of suppliers & numerous variations of similar components, sorting errors could easily become commonplace.



## Storage Space

The widespread application of the Just-In-Time (JIT) mode leads to limited storage space in the factory.



## Safety Risks

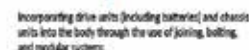
The transport of heavy components creates significant safety risks.





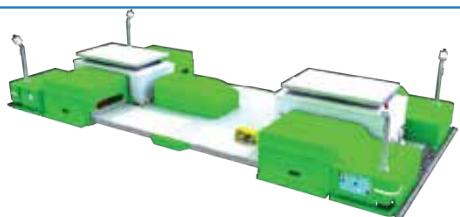
## SMART INTRALOGISTICS

*Autonomous and synchronized management of components and parts movement for assembly operations*



# Complete Production Lines

## SMART ASSEMBLY LINES



**SMART ASSEMBLY ROBOTS**

- AGV with direct fixture
- AGV with Single lifter
- AGV with dual lifter
- Auto Decking AGV
- Or As Per Requirement.....



**AUXILIARY ASSEMBLY ROBOTS**

- Engine Assembly
- Axle Assembly
- Transmission Assembly
- Battery Assembly
- IP/Cockpit Assembly
- Cabin Assembly.....



**HEAVY DUTY ROBOTS**

- 3 TON
- 6 TON
- 13 TON
- 20 TON
- Or As Per Requirement.....



# Complete Production Lines

## Smart IntraLogistics



INTRALOGISTICS ROBOTS

- *Tunnelling AGV*
- *Lifter AGV*
- *Tugging AGV*
- *ABOPT G2G*
- *Stacker for G2H*

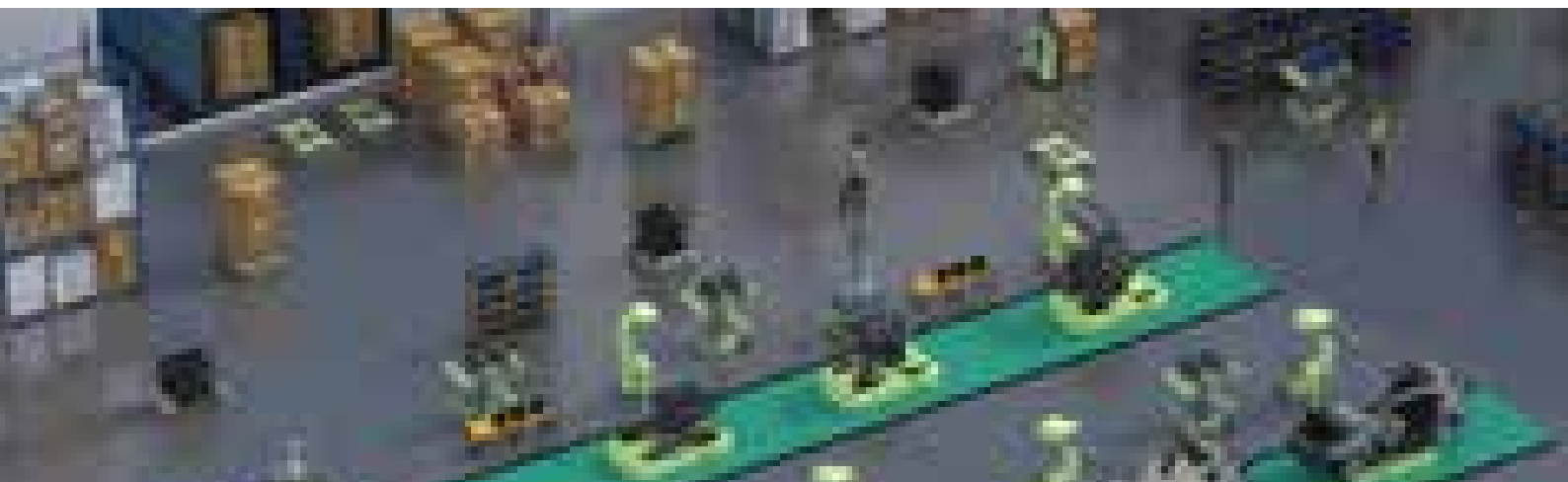
## Custom Applications



CUSTOM ROBOTS

- *Hybrid Robot*
- *High Precision Robot*
- *Omni Direction*
- .....

Industry X.0 Software + Novus Analytics



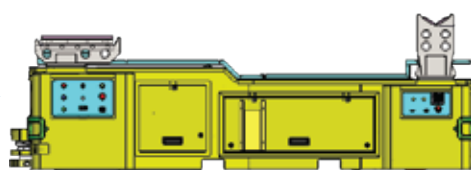


# Smart Assembly Robots

AGV with  
Single Lifter



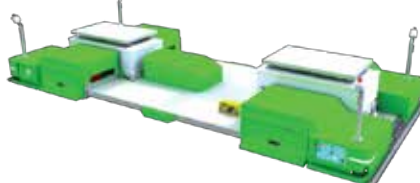
AGV with  
Direct Fixture



AGV for  
Auto Decking



AGV with  
Dual Lifter





# Auxiliary Assembly Robots



**TRANSMISSION ASSEMBLY**



**ENGINE ASSEMBLY**



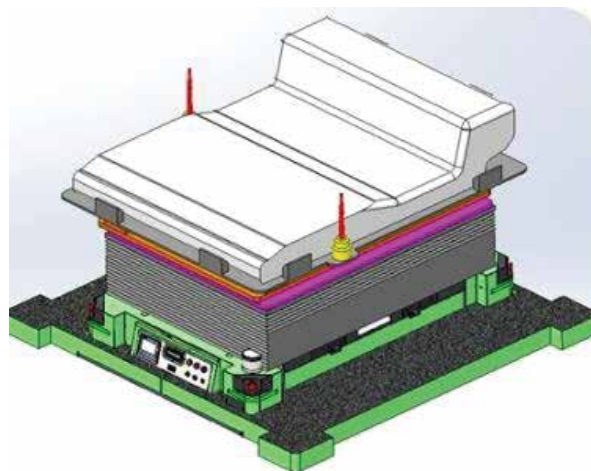
**FRONT & REAR AXLE ASSEMBLY**



**IP/COCKPIT ASSEMBLY**



**CABIN ASSEMBLY**



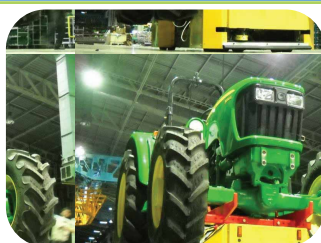
**BATTERY ASSEMBLY**

# Heavy Duty Robots

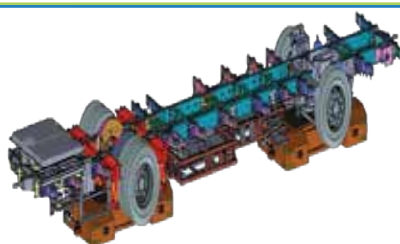
6 TON



3 TON



20 TON



13 TON





# Custom Robots

## CUSTOM ROBOT APPLICATIONS





# Industry Use Cases Smart Assembly Lines

## ENGINE ASSEMBLY



Base Engine Assembly

Engine Peripheral  
Component Assembly

## TRANSMISSION ASSEMBLY



Transmission Assembly

Engine Transmission  
Marriage

## IP/COCKPIT ASSEMBLY



4W Instrument  
Panel Assembly

Cabin Assembly

Door Panel Assembly

## BATTERY ASSEMBLY



Battery Sub Assembly  
Transfer

Battery Storage  
& Testing

Battery Decking  
in main Vehicle  
Assembly Line

## FRONT & REAR AXLE ASSEMBLY



Front and Rear Axle  
Sub Assembly

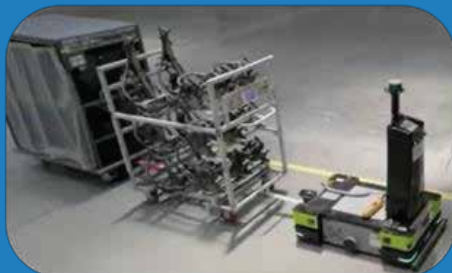
Front and Rear  
Axle Storage

Front and Rear Axle  
Decking in main Vehicle  
Assembly Line

# Intralogistics Robots



**TUNNELLING AGV/AMR**



**TUGGING AGV/AMR**



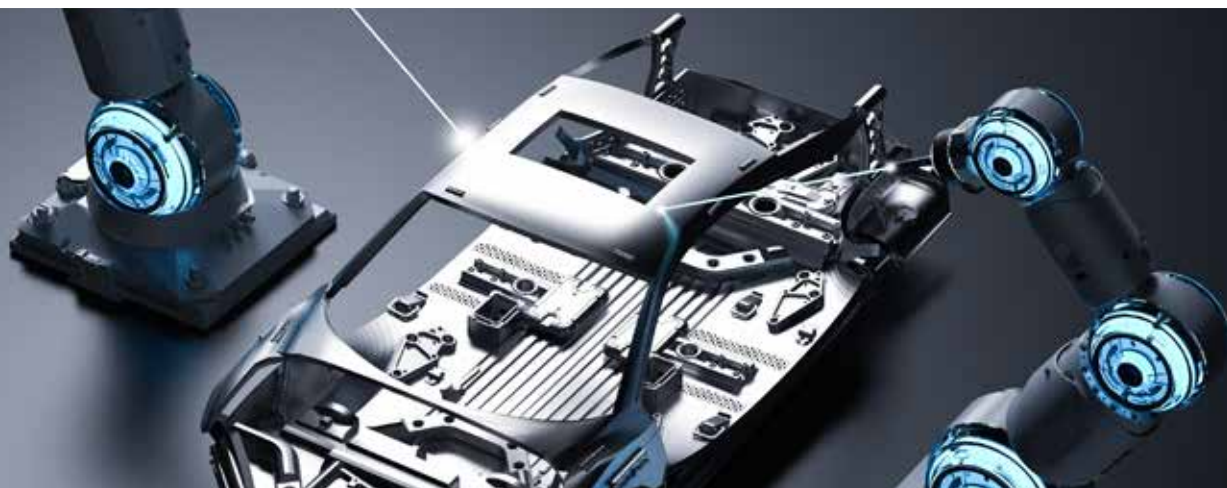
**LIFTER AGV/AMR**

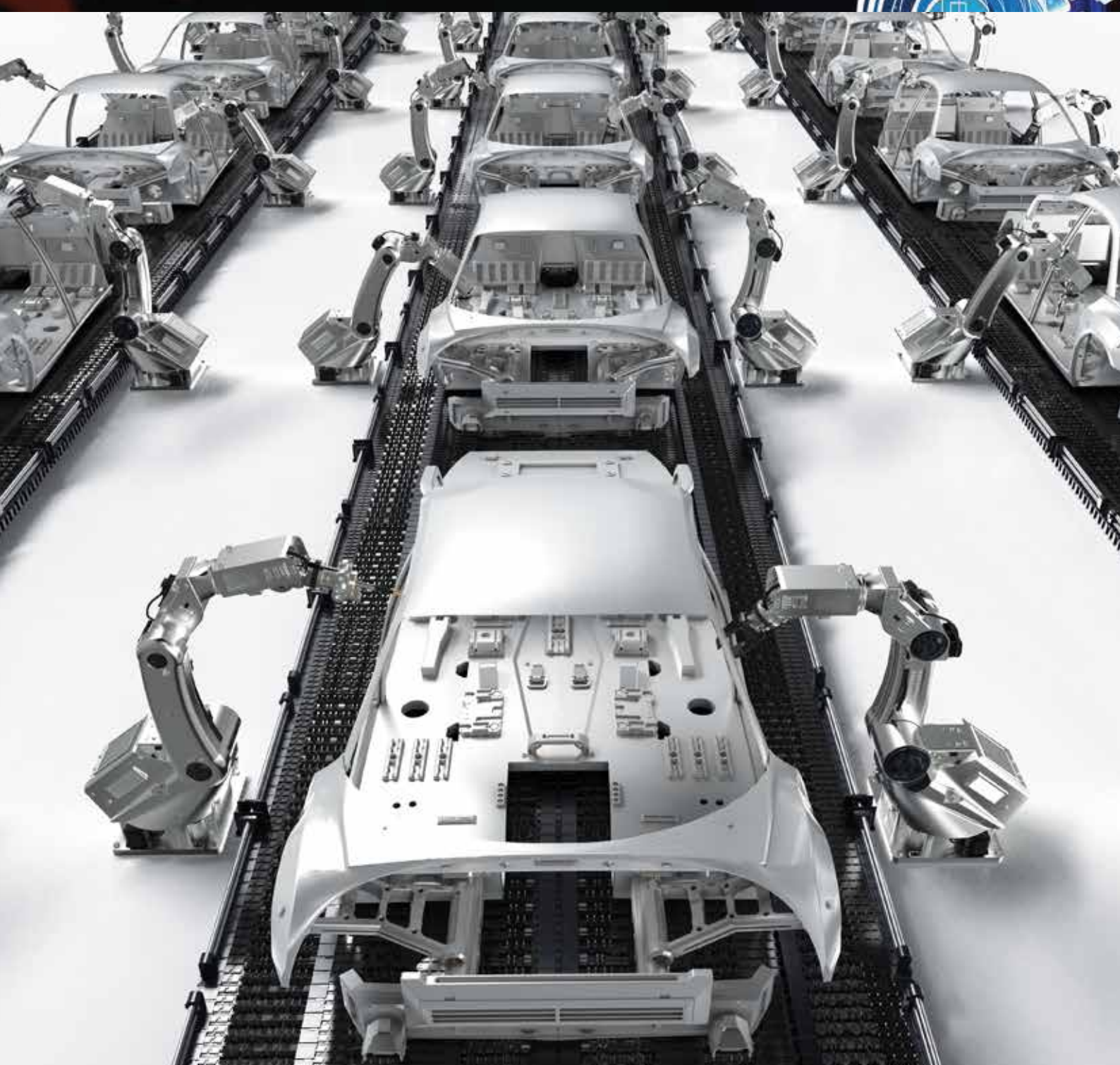


**ABOPT G2G PALLET  
MOVER**



**STACKER G2H PALLET  
MOVER**





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# Contact Us

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