



ARV Zalpa

- * **Assembly**
- * **Fastening**
- * **Pick And Place**
- * **Machine Tending**
- * **Packaging**
- * **Palletizing**
- * **Vision Inspection**
- * **Mobile Manipulation**

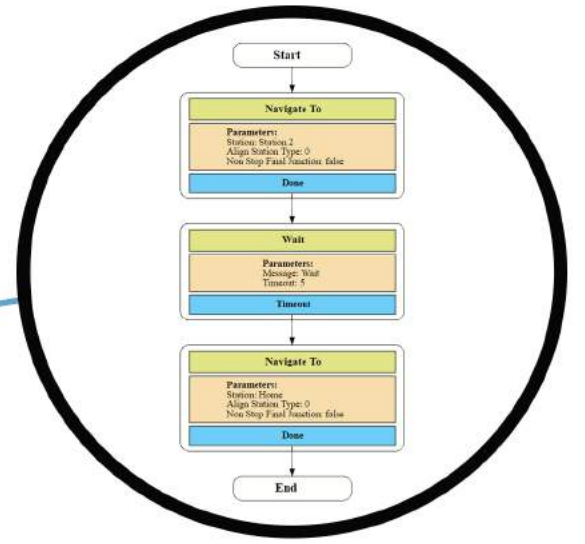
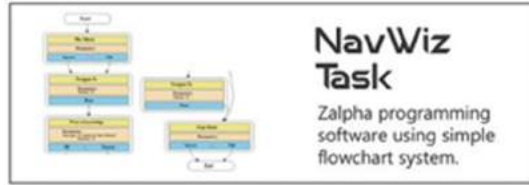
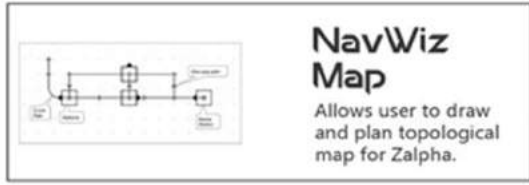
*Product images are for illustration purpose only and may differ from the actual product

ARV

Autonomous Robotic Vehicles (ARV) is an Autonomous Mobile Robot (AMR) equipped with robotics arm capable of doing material handling, machine tending, vision inspection and many more

Flexible Manufacturing

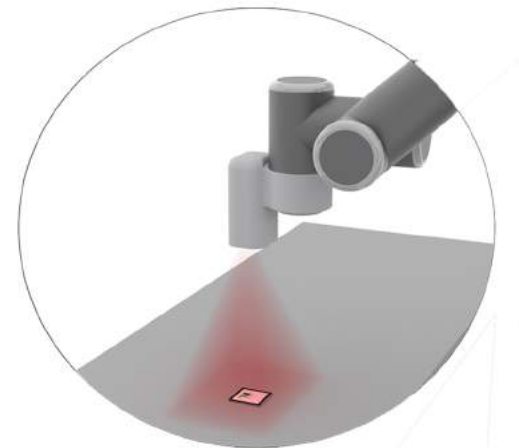
Flowchart based programming allows quick and easy deployment



Built-In Vision



Pattern recognition, object positioning and feature identification with cobot Landmark



- | | | | | | | |
|---------------------------|--------------|----------------------------|----------------------------|--------------------|----------------|--------------------------|
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Landmarks |
Contrast |
Color Plane Extraction |
Smoothing |
Thresholding |
Morphology |
Image Flipping |
|
Character Recognition |
Anchor |
Pattern Matching |
Fiducial Mark Matching |
Blob Detection |
Barcode |
Color Identification |

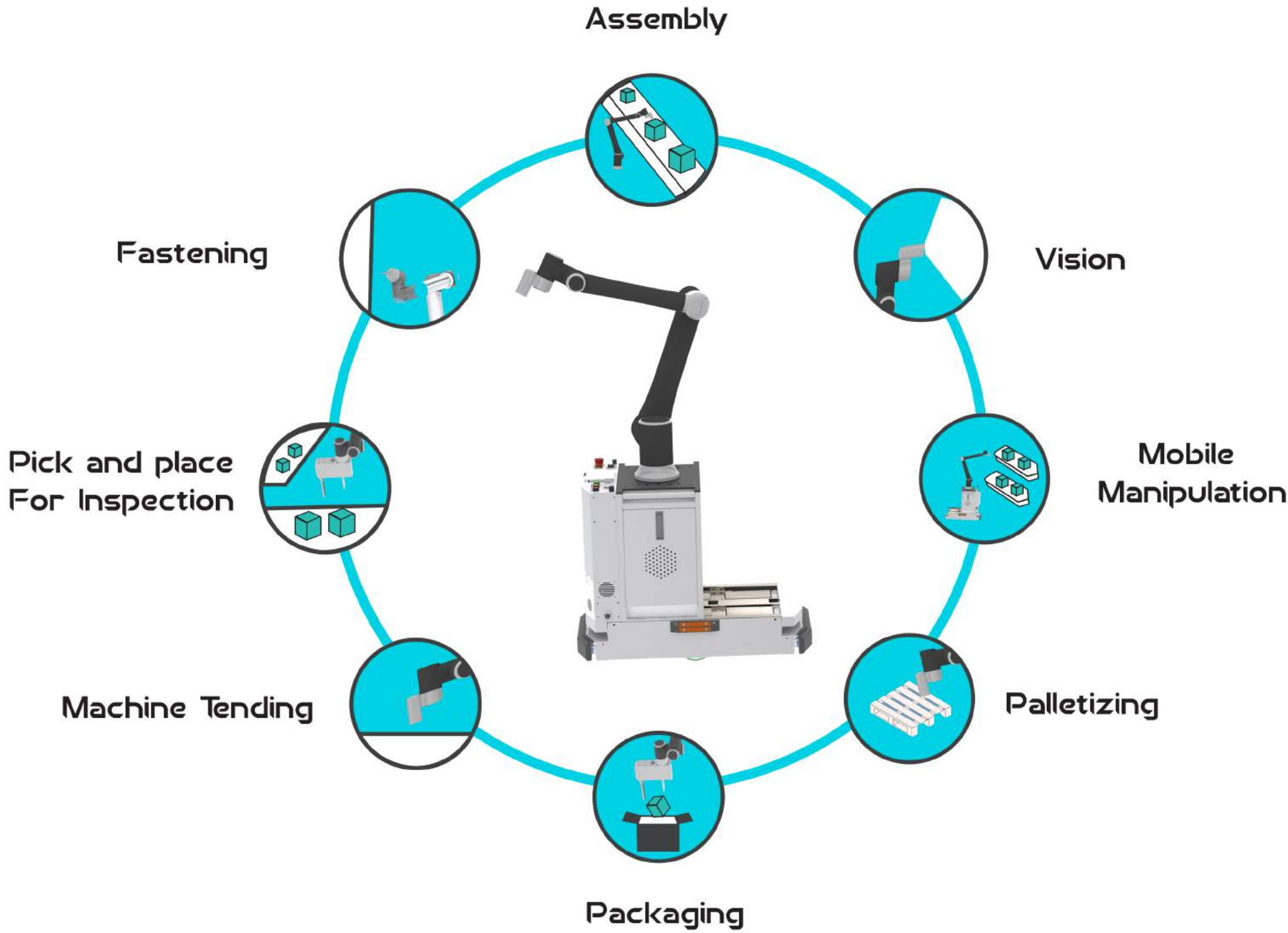
End Effector



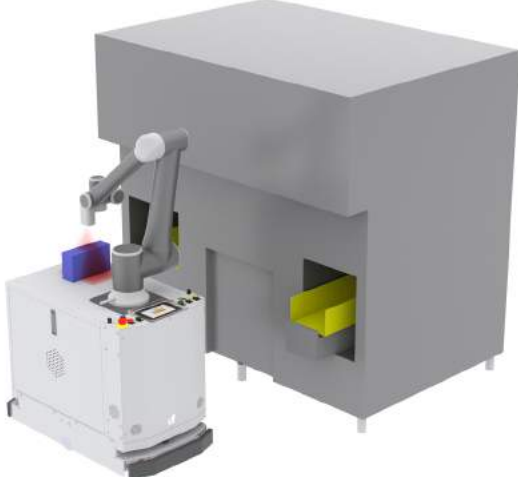
Standard mounting allows quick change to different end effectors type



Applications



Pick and place



Machine Tending



Specifications

General	
Product Name	ARV12
ARV Weight (KG)	Approximate 207 Kg
Reach (mm)	1300
Typical Speed (m/s)	1.3
Repeatability (mm)	+/- 0.1
Integrated Camera	5M pixels, color
Max Payload (KG)	AMR: 300 Kg Robot Arm: 12 Kg
AMR Max Speed (m/s)	1 (m/s), 3.6 (km/h)
Driving System	Differential
Run Time (100% to 10%)	Approximate 10 hours
Charge Time (10% to 100%)	4 hours
Charging Method	Automatic & Manual Charging available
Operating System	NavWiz
Communications protocol	REST, Modbus, Webhooks
Safety indicator	Color LED lighting, Music playback & Alarm
Safety Features	5m adjustable range laser sensor (MG)/ LiDar (TS) x2 Bumper switch x2 Emergency switch x1 External safety input/ output

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