

NONEAD Lift Top System CB4- MiR250

第四代拓德顶部举升系统

Brochure

宣传册



Document Version:

1.1.04261

Update Date:

2026/4/30

Software Version 4.6.0

苏州拓德机器人科技有限公司
Suzhou Nonead Robot S&T Co., LTD.

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技术参数，如有变更，恕不另行通知

ICS CODE: NH0398
NO.

NONEAD Lift Top System CB4- MiR250

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MiR-Robots is an indoor industrial collaborative autonomous mobile robot, that can achieve automated material transport within factories, enhance internal logistics speed, free employees from repetitive and hazardous transportation work, thus ensuring safe and efficient work for both employees and robots and improving productivity. MiR-Robots industrial collaborative mobile robot features rapid deployment, simple programming, and safe and reliable operation, operation requires no modification to the workplace layout.

4Gen Nonead MiR Top Lift System is Nonead Corporation for MiR-Robots customized custom dev's multi-functional top lift system, serving as MiR-Robots' Standard Carrier Module, featuring fast installation, no additional programming required, and safe and reliable operation. Nonead Corporation A series of modular standard carriers have been designed for the top lift system. These carriers can be directly adapted for use with the lift system. To accommodate different product sizes and weights across various industries, we also provide Reference rack and Reference Cart. Users can freely design the upper loading platform. Paired with Nonead power supply signal module, which can simultaneously provide power and signal to the upper platform.

Top lift system consists of MiR Battery powered, with built-in control system, connected via internal Ethernet to MiR to interact, when MiR After reaching the lift position, the controller drives the internal electric push rod to lift the top Platform liftout, cart bottom Contact with lift platform After, the fixing device will engage with the lift platform. Nonead Corporation is an autonomous lift control system with a large contact area, providing stronger lifting force to enhance the stability and reliability of the entire transport system. Its modular design allows users to easily install it onto MiR, featuring quick-connect plugs for plug-and-play use. Both front and rear panels provide 2 safety E-stops and include a programmable button, allowing operators to interact with the mobile robot through this button during actual operation.

compatible with MiR250



NH0398 4th Gen Nonead Top Lift System Standby State



NH0398 4th Gen Nonead Top Lift System Working State



NH0398 4th Gen Nonead Top Lift System Standby State



NH0398 4th Gen Nonead Top Lift System Working State

Features: Modular installation, simple and convenient; MiR-Robots directly Control, no additional programming required; Front rear dual E-stop button, safe and reliable; manual/automatic switching with easy self-check; programmable button for MiR-Robots increase Station-level Human-machine interface.

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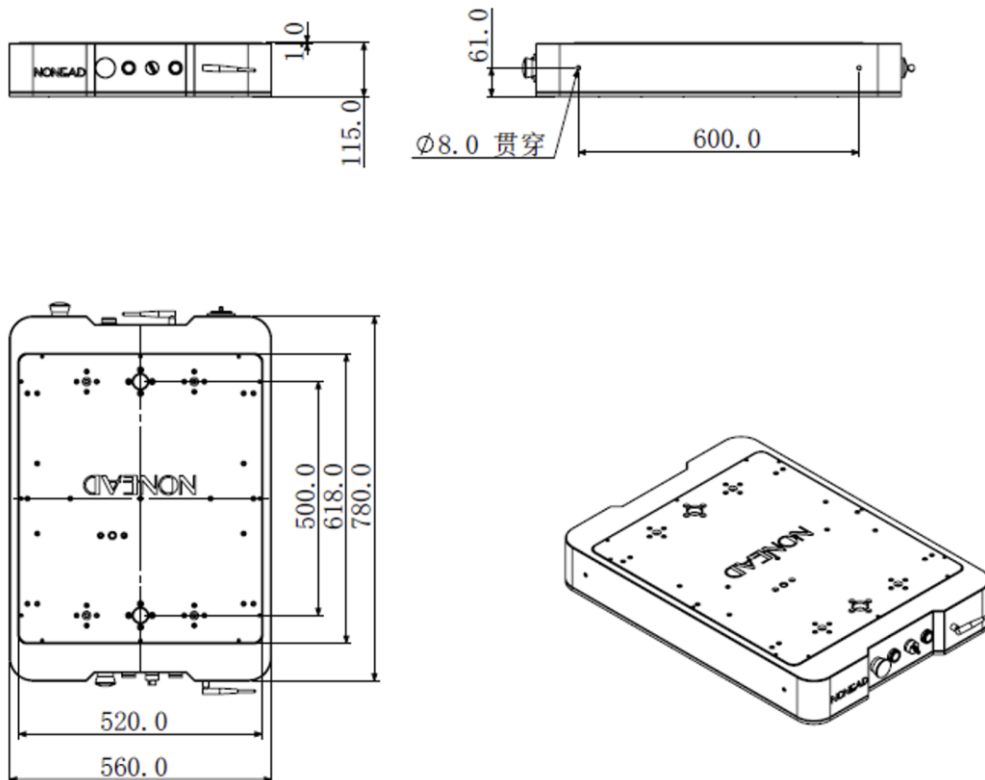
Max load

Standard env Tested on level concrete floor, compatible with Reference Cart (Max load 250KG, Max load=Reference Cart+Upper material rack+ total product weight)



loaded with NH0398 4th Gen Nonead Top Lift System of MiR250

Dimensions(Standby State)



NH0398 4th Gen Nonead Top Lift System Standby Dimensions Unit: mm

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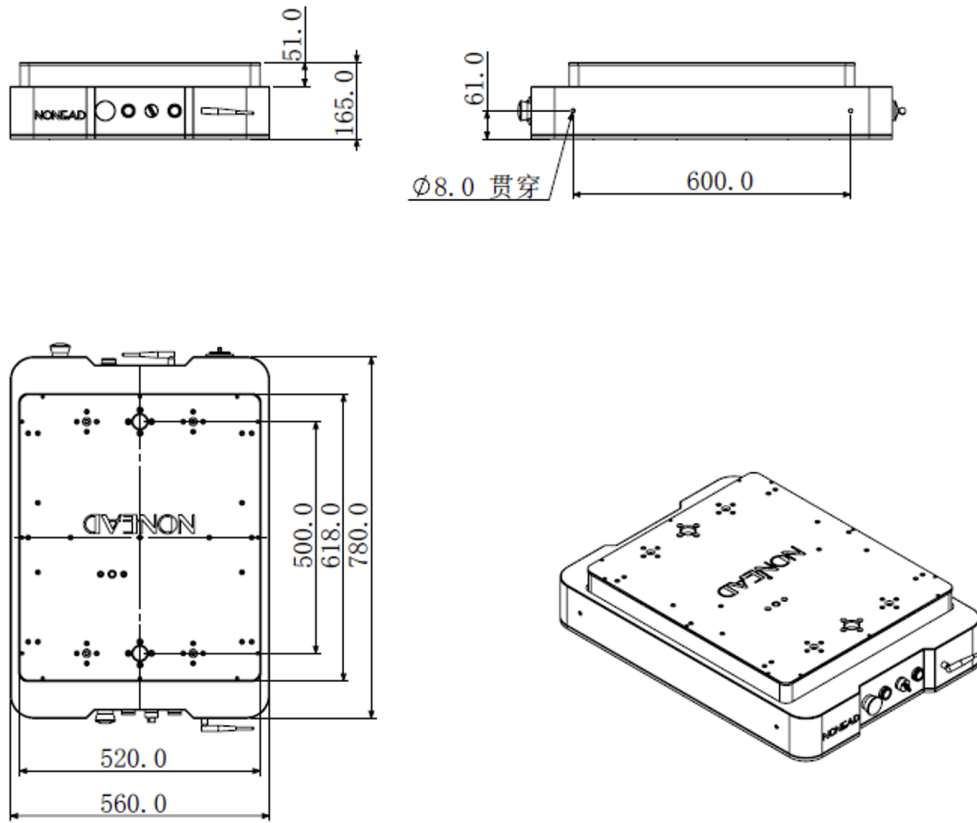
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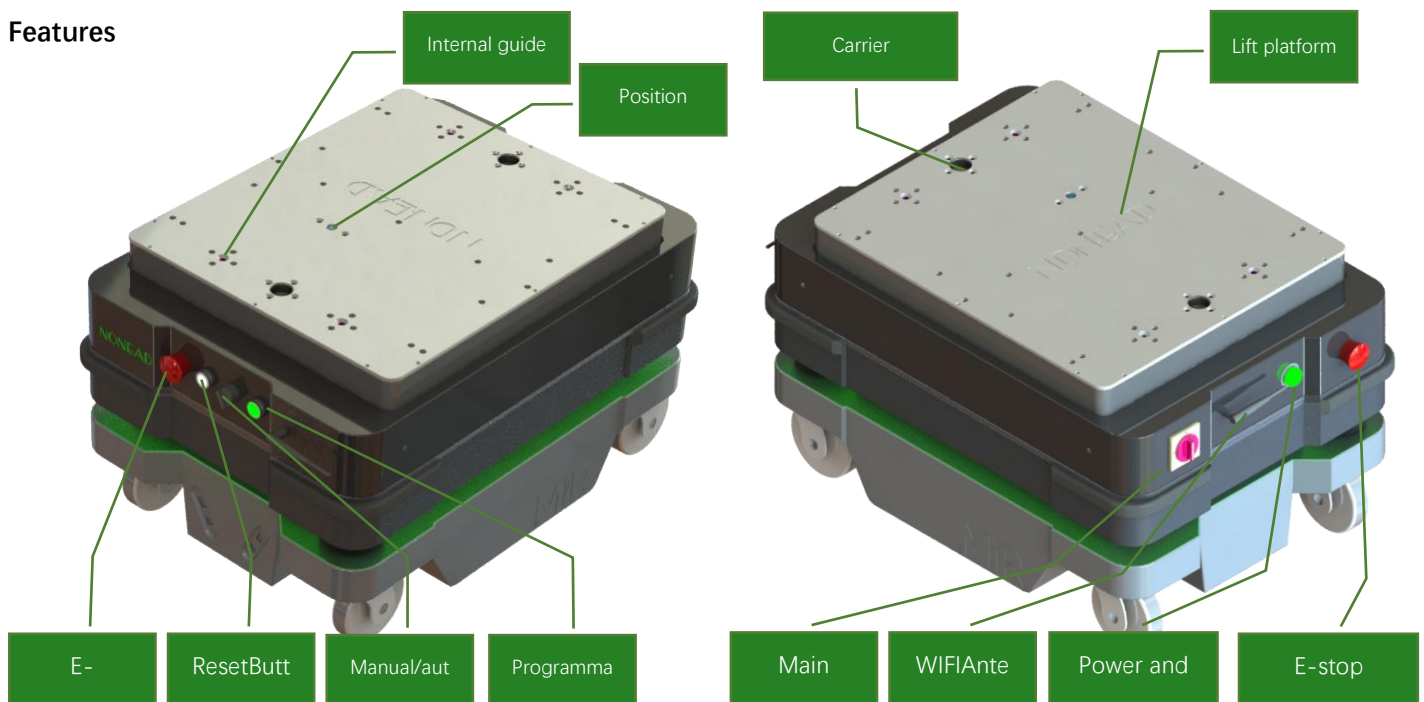
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Dimensions(Lift State)



NH0398 4th Gen Nonead Top Lift System Lift dimensions Unit: mm

Features



4th Gen Nonead Top Lift System Function Button Introduction

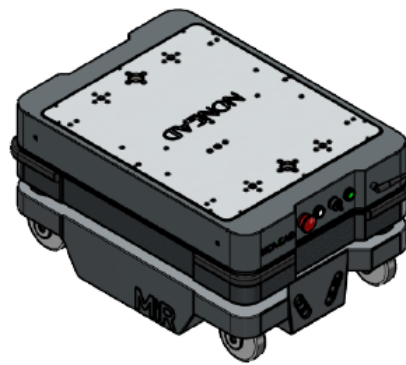
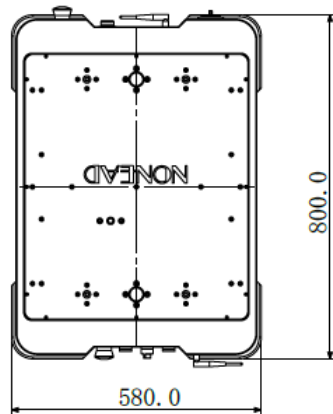
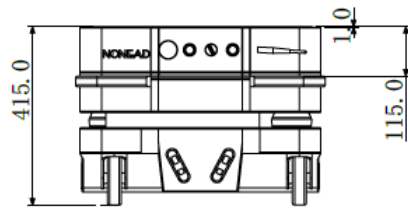
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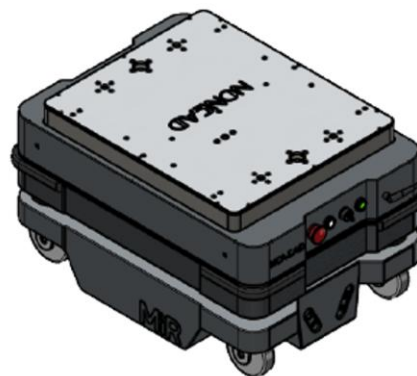
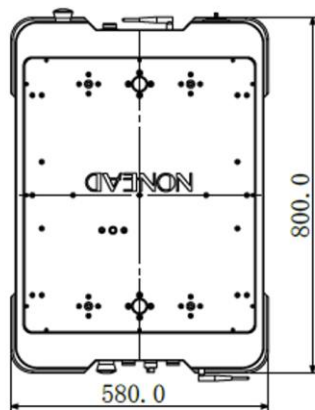
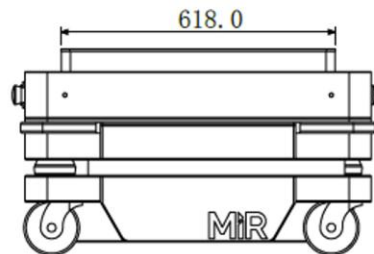
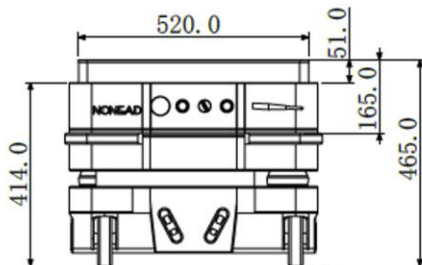
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installed NH0398 4th Gen Nonead Top Lift System of MiR250 Standby State

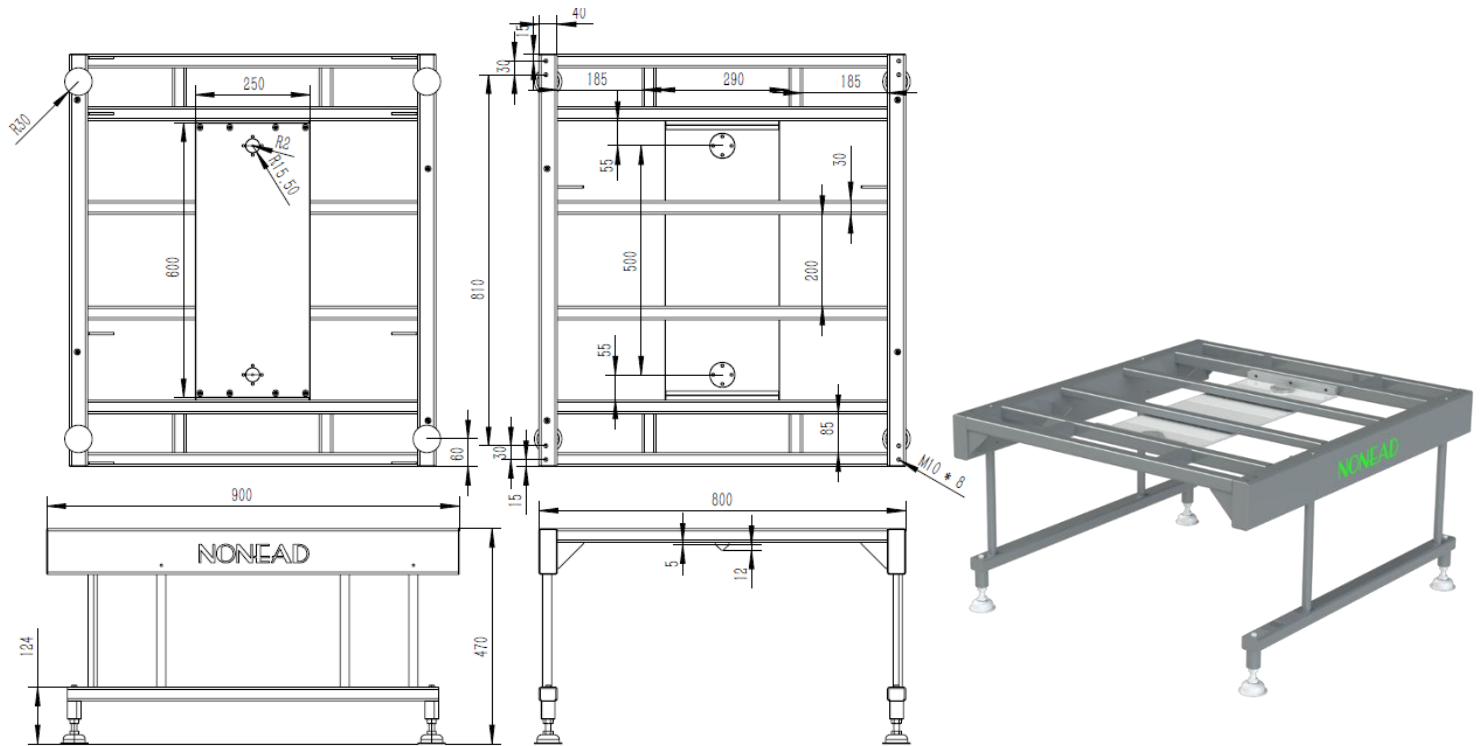


installed NH0398 4th Gen Nonead Top Lift System of MiR250 Lift State

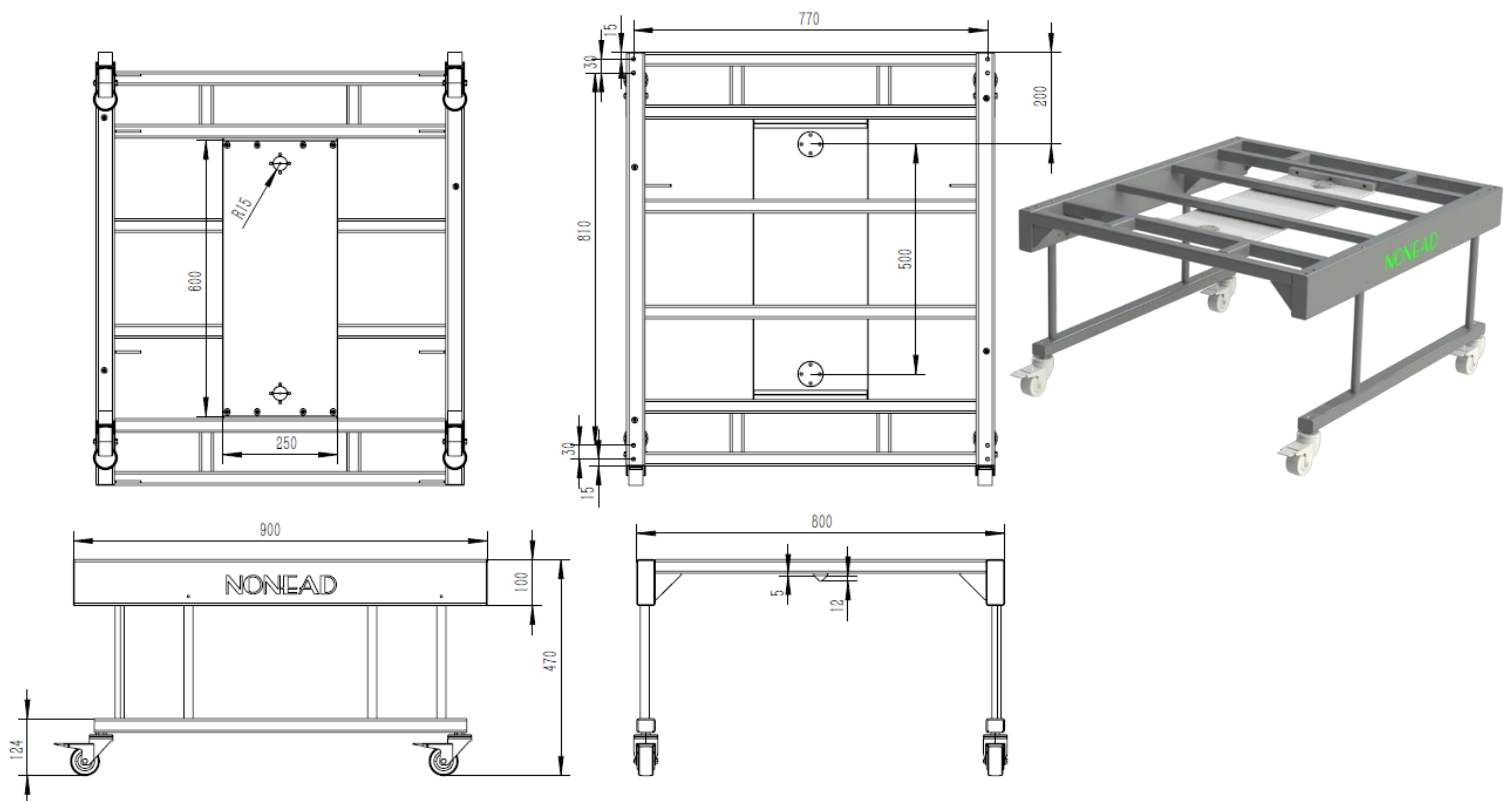
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Reference rack



Reference Cart



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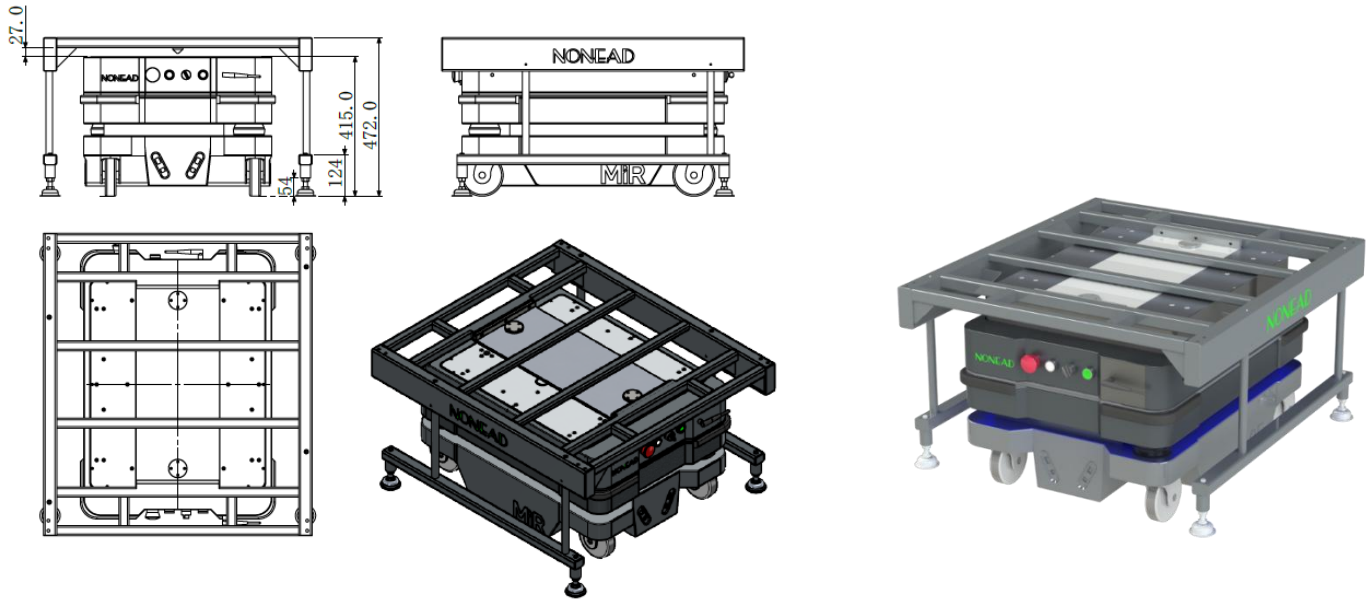
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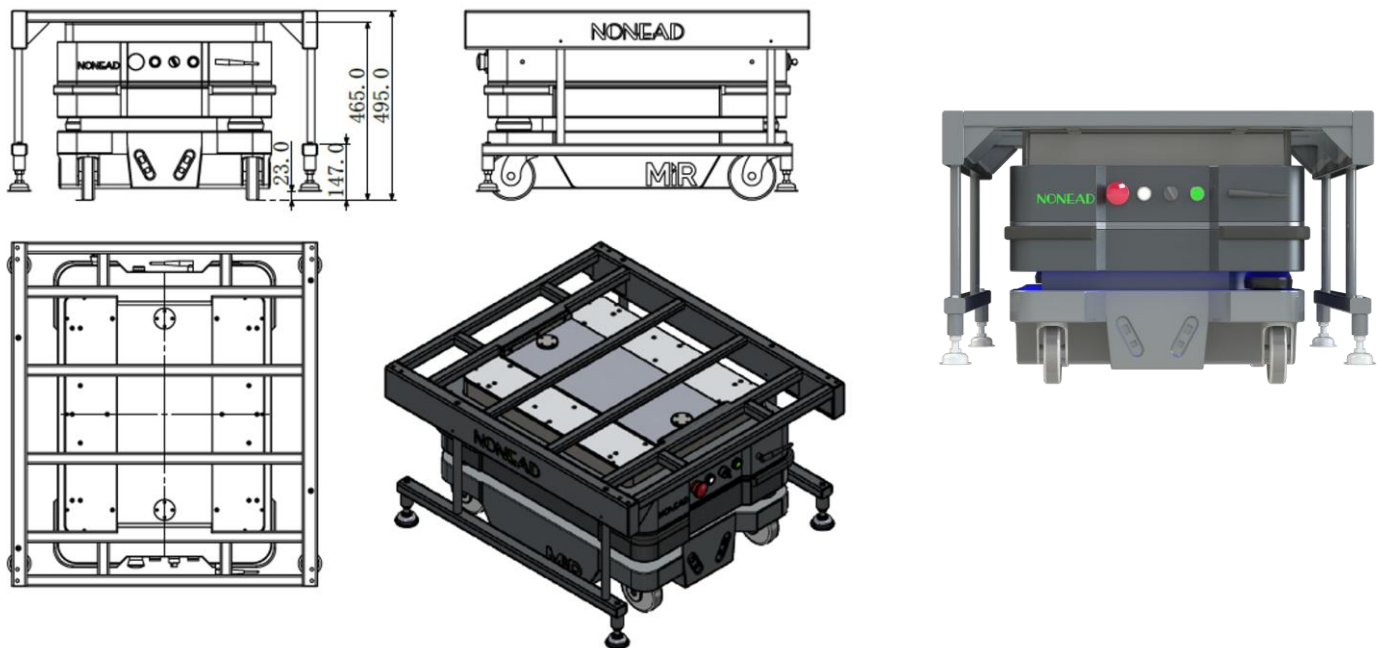
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ReferenceRack positioningDimensions



ReferenceRack liftingDimensions



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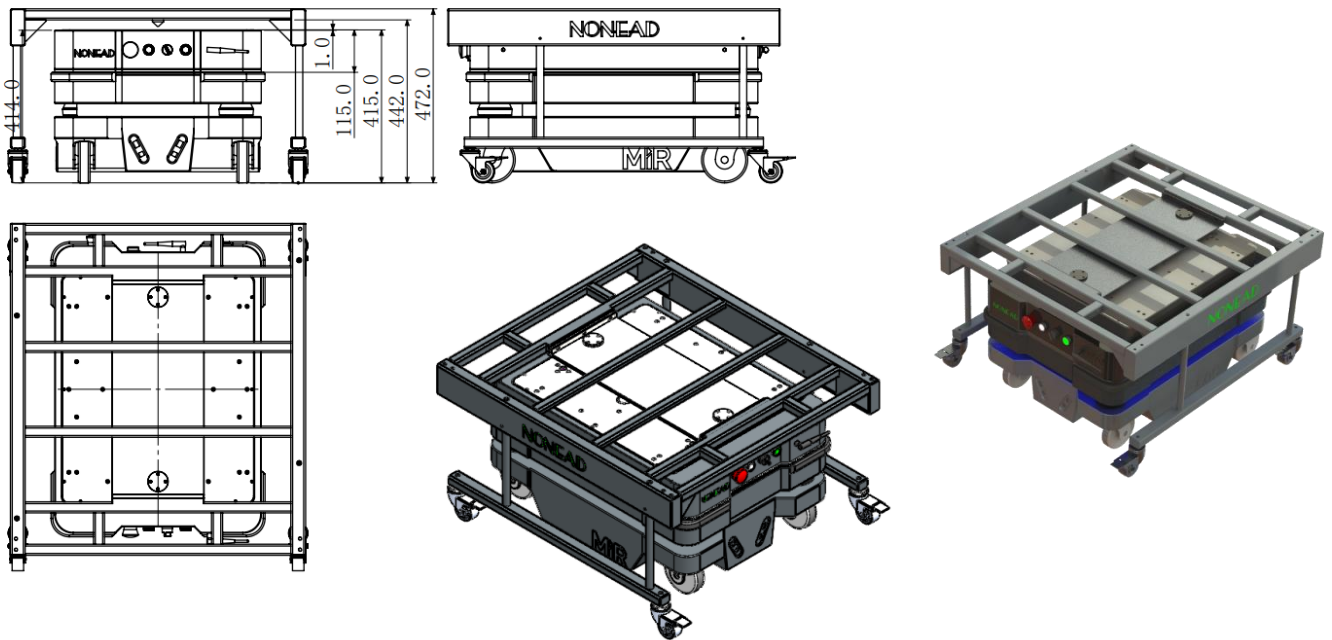
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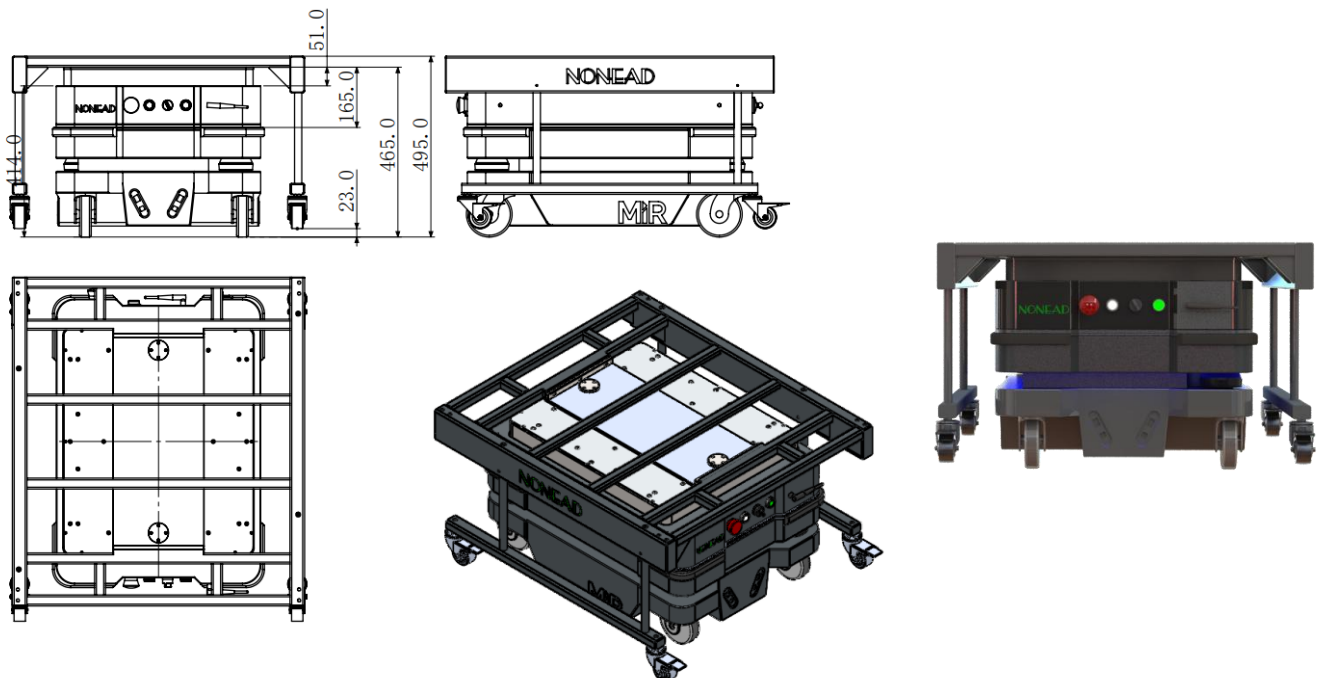
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Reference Cart Positioning Dimensions



ReferencematerialcartLift Dimensions Drawing



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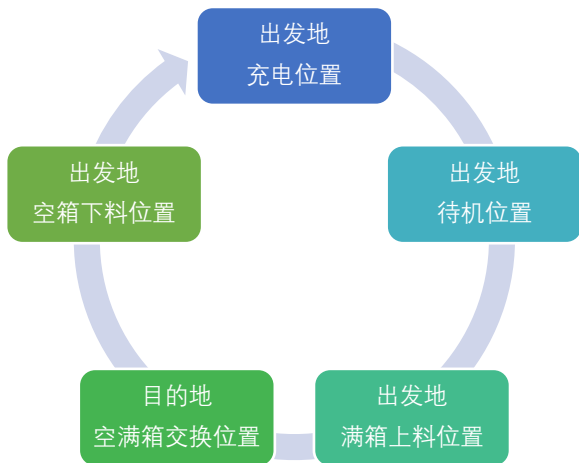
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Fully automated closed-loop material transport solution for manufacturing enterprises



Customer requirements: Fully automated in-plant material transport needs for manufacturing enterprises. The transport process is as follows:



Transport mode: Due to differences in product packaging, different carts are used as transport tools for each process:



Call mode: Manual pull, Manual push, MES system push, equipment call, Position push:



Execution system: MiR-Robots (body and charging station), all Compatible with Nonead bottom Traction System

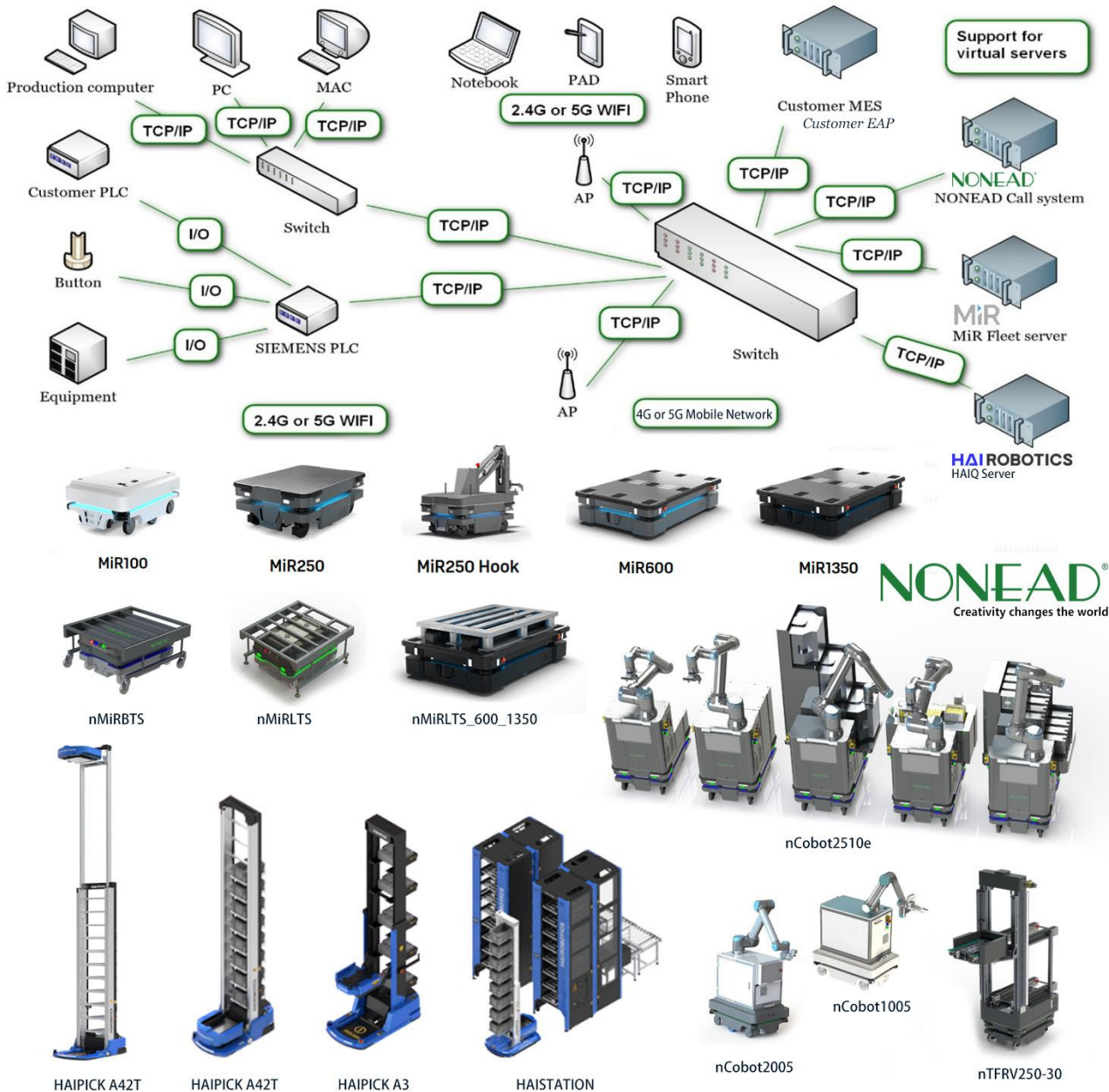


CB5, Nonead TopLift System CB4 of carriers

NONEAD Lift Top System CB4- MiR250

第四代拓德顶部举升系统

System architecture: NONEAD Call system, MiR Dispatch System, HAI Robotics dispatch, customer MES interface



secondary development;

raw material warehouse, electronic material warehouse, fixture warehouse, line-side warehouse, semi-finished product warehouse, finished product warehouse are recommended Hai Robotics Box storage robot



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Technical parameters

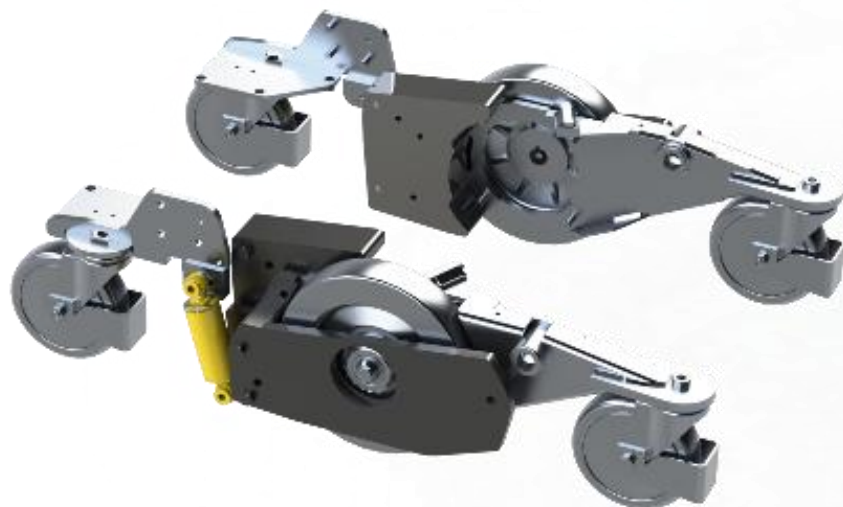
NH0398 4th GenNonead TopLift System for MiR250

Product name	4th Gen Nonead Top Lift System
ICS CODE	NH0398
Image	
Abbrev.	nMiRLTS_CB4
L x W x H	Standby 780mm x 560mm x 115mm Work 780mm x 560mm x 165mm
Ground clearance	Standby 415mm Work 465mm
Weight	46KG
Material	Stainless steel, aluminum, iron
Power	MaxPower DC24V 56W, StandbyPower DC24V 20W
Maximum traction load	Maximum lift load 250KG
IP Rating	IP20
Safety system	One E-stop button at the front and rear, and one reset button at the front
Cert.	CE, FCC
Protection functions	Motor overload automatic protection
Control system	Nonead general Controller NONEAD nUC-S_CB4.6 MCU: Cortex-M7 216MHz
Control mode	A two-position button at the front can switch between automatic/manual mode
Multi-function button	A multi-function button at the front, can MiR-Robots to set required functions
Switch	One main power switch at the rear
Visualization	One power indicator at the rear, Error reporting Alarm light
Antenna	Front rear one feed line extended interface, with 2.4G & 5G Wi-Fi Antenna
Note	MaxLiftLoad test environment, Standard env level concrete floor, ground should be level. Different floor materials and uneven floors may result in reduced load capacity. Actual load Based on customer site test as the standard.

NONEAD Lift Top System CB4- MiR250

第四代拓德顶部举升系统

NH0260 MiR250Lift anti-slip kit



Product name	MiR250Lift anti-slip kit
ICS CODE	NH0260
Image	
Abbrev.	MiR250Lift anti-slip kit
L x W x H	Special
Installation position	MiR250inside, left and right drive wheels
Weight	12KG x 2
Material	Stainless steel, iron
Function	add MiR250Drive wheel friction on the ground enhances transport stability
IP Rating	IP20
Note	MaxLiftLoad test environment, Standard envlevel concrete floor, ground should be level. Different floor materials and uneven floors may result in reduced load capacity. Actual loadBased on customer sitetest as the standard.

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NH0311 4th Gen Nonead Top Lift Reference Material Rack_nMiRLTS_CB4

Product name	4th Gen Nonead Top Lift Reference Material Rack_nMiRLTS_CB4
ICS CODE	NH0311
Image	
Abbrev.	4th Gen Nonead Top Lift Reference Material Rack
L x W x H	900mm x 800mm x 470mm
Ground clearance	470mm
Weight	30KG
Material	iron
Max load	300KG
Upper mechanical interface	8 x M10, for connecting various mechanisms
Docking mechanical interface	compatible with nMiRLTS_CB4 Nonead Top Lift System CB4
Wheel	no
Scalability	High-precision positioning device can be added, Docking power module can be added
Note	MaxLiftLoad test environment, Standard env level concrete floor, ground should be level. Different floor materials and uneven floors may result in reduced load capacity. Actual load Based on customer site test as the standard.

NONEAD Lift Top System CB4- MiR250

第四代拓德顶部举升系统

NH0312 4th Gen Nonead Top Lift Reference Materialcart_nMiRLTS_CB4

Product name	4th GenNonead Top Lift Reference Cart_nMiRLTS_CB4
ICS CODE	NH0312
Image	
Abbrev.	4th GenNonead Top Lift Reference Cart
L x W x H	900mm x 800mm x 470mm
Ground clearance	470mm
Weight	30KG
Material	iron
Max load	300KG
Upper mechanical interface	8 x M10, for connecting various mechanisms
Docking mechanical interface	compatible with nMiRLTS_CB4 Nonead Top Lift System CB4
Wheel	with brake Cart small wheels x 4
Scalability	High-precision positioning device can be added, Docking power module can be added
Note	MaxLiftLoad test environment, Standard envlevel concrete floor, ground should be level. Different floor materials and uneven floors may result in reduced load capacity. Actual loadBased on customer sitetest as the standard.