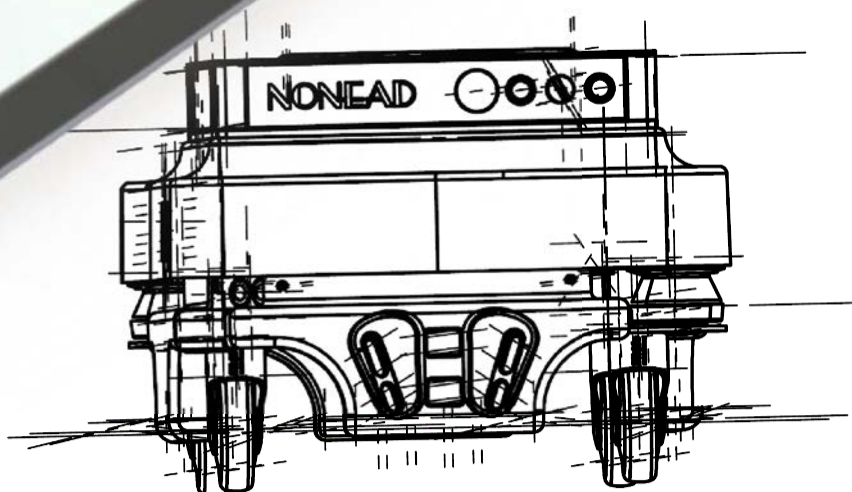


NONEAD Shelf Carrier System CB4 Brochure

Document Version: 1.0.06191

Updated Date: 2020/6/19



Software Version 4.1.0

Suzhou Nonead Robot S&T Co., LTD.

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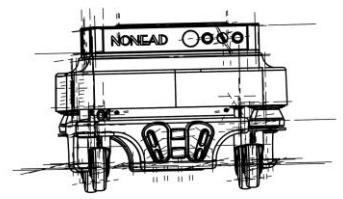
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Technical parameters are subject to change without prior notice

New version download: https://www.nonead.com/en/hardware_content/20706.html

ICS CODE: NH0145
NO. DOC1911010000671-3

NONEAD Shelf Carrier System CB4



MiR-robots is a kind of indoor industrial cooperative autonomous mobile robot, which can realize the automation of material transportation in the factory, improve the speed of internal logistics, and liberate the employees from the repetitive and dangerous transportation work, so as to ensure the safety and efficiency of employees and robots, and improve productivity.

MiR-robots has the characteristics of rapid arrangement, simple programming, safety and reliability, and does not need to change the working environment layout. MiR-robots enables user to adapt the changing market demands, new products and new production processes. Users can easily replace top modules, modify tasks, and add new features without external integration services.

The fourth generation of NONEAD Shelf Carrier System is a multi-functional bottom traction system customized by NONEAD technology for MiR-robots. As the top standard module of MiR-robots, this system has the characteristics of fast installation, no need for additional programming, safety and reliability. NONEAD technology has designed a series of modular standard vehicles for the bottom traction system. These vehicles can be directly connected and used to adapt to different product sizes and weights in various industries. In addition, we also provide base carts so that users can design the upper loading platform at will, match with the NONEAD power supply signal module, and can synchronously provide power and signal for the upper platform.



Standby



Operating State

NH0145 NONEAD Shelf Carrier System CB4

Features: Modular installation, simple; MiR-robots can be directly controlled without additional programming; double emergency stop buttons at the front and back sides to ensure safety; manual automatic switching, convenient inspection; programmable buttons to increase HCI for MiR-robots; optional power supply module to supply power and signal interaction for the carts; standard modular carts that customers can deploy independently; CE, FCC, ROSH certification.

Test on a standard epoxy floor to fit the base carts (maximum load = carts weight + cargo weight)



MiR100 maximum load 200kg



MiR200 maximum load 300kg



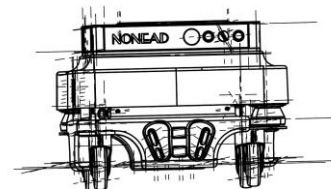
MiR250 maximum load on the way

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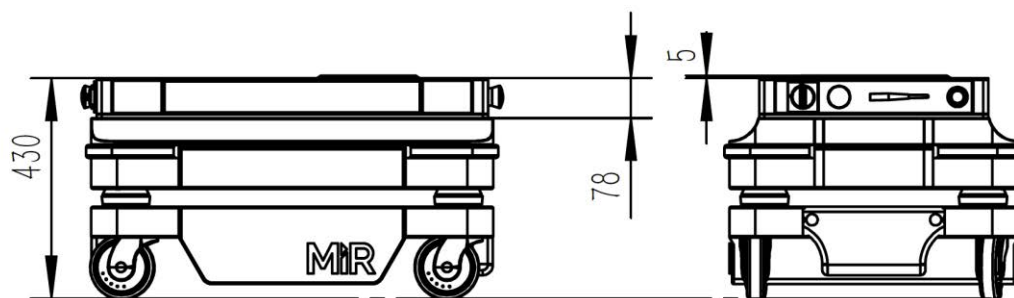
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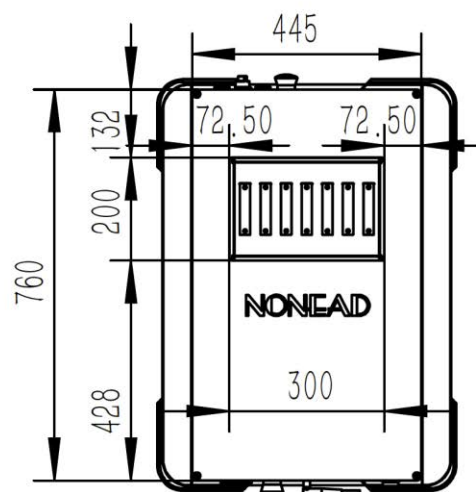
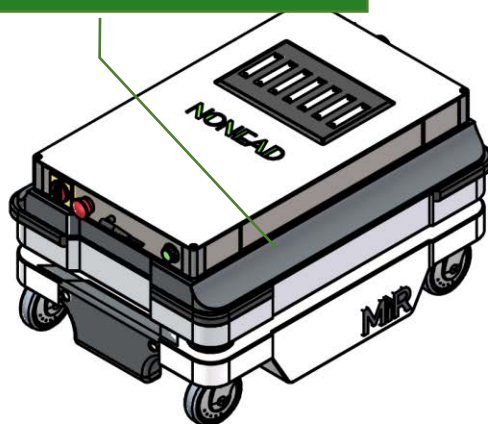
NONEAD Shelf Carrier System CB4



Dimensions chart

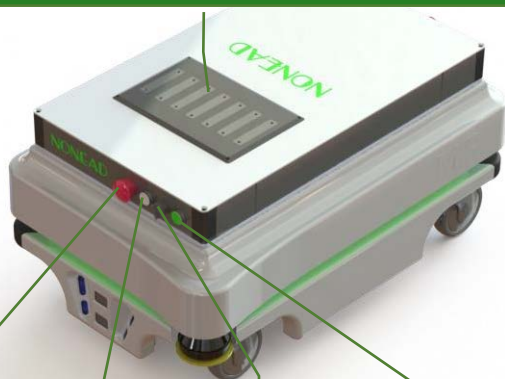


NH0198 MiR250 Special adapter (optional)



Installation the MiR250 of the NONEAD Shelf Carrier System CB4 unit: mm

NH0191 Top power supply signal / module (optional)



Scram button

Reset button

Manual / automatic switching

Programmable button



Electric switch

Emergency stop button

WIFI

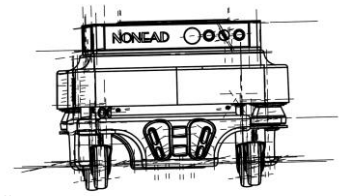
Power supply and warning light

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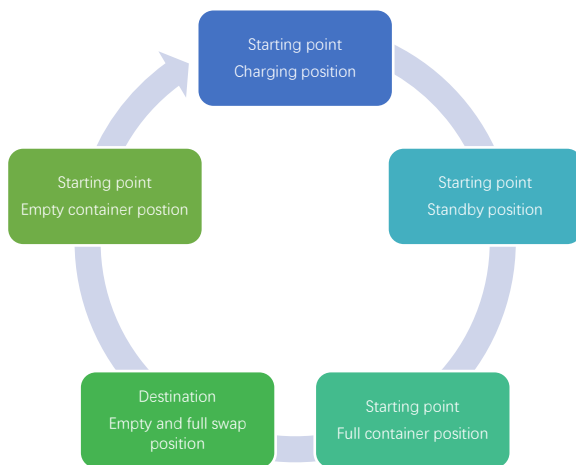
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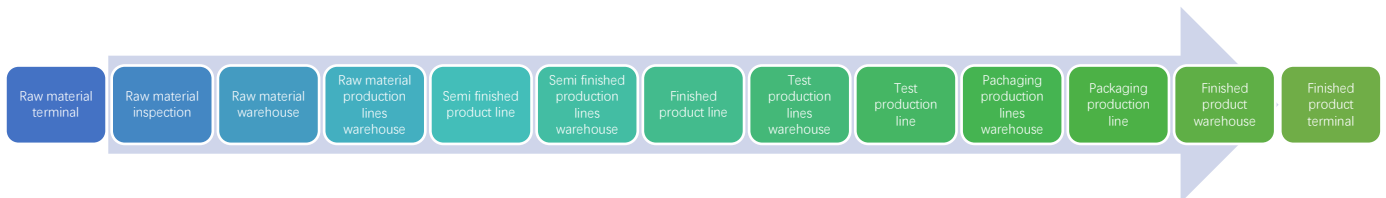
NONEAD Shelf Carrier System CB4



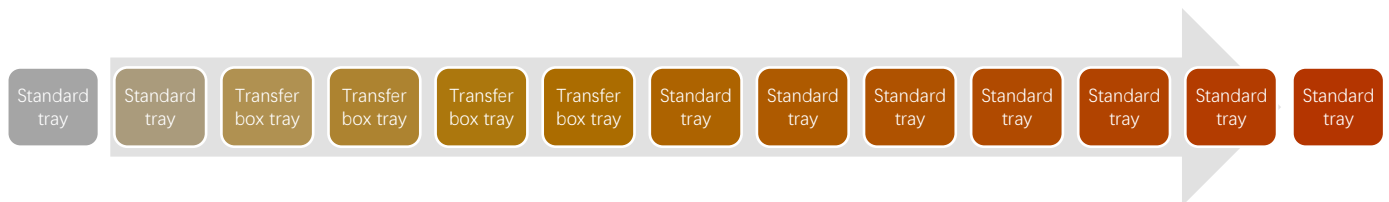
Fully automatic closed-loop transfer scheme for manufacturing enterprises



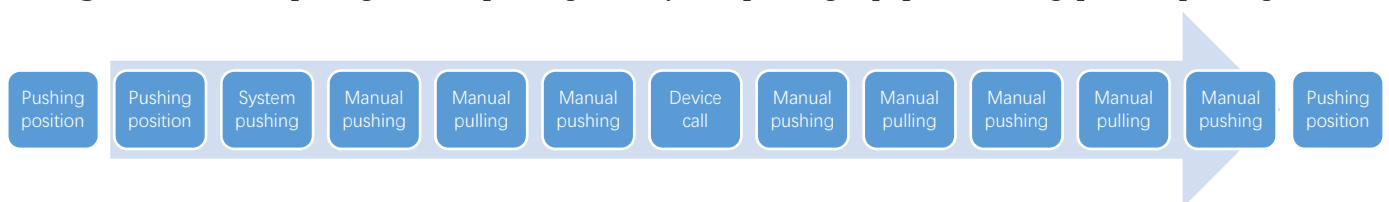
Customer demands: automatic transfer of materials in the factory of manufacturing enterprises, as follows:



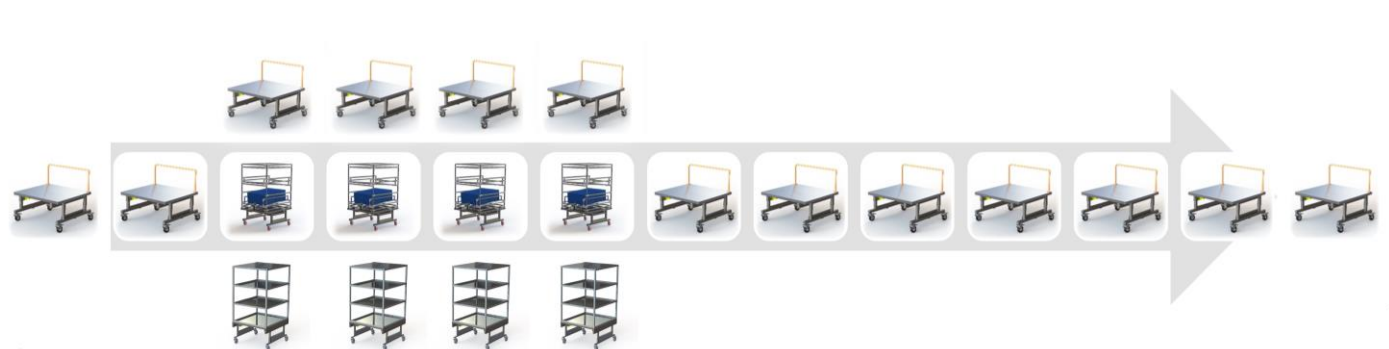
Mode of transportation: due to different product packaging in each process, different carts will be used as means of transportation:



Calling mode: manual pulling, manual pushing, MES system pushing, equipment calling, position pushing



Executive system: MiR-Robots (body & charging station), NH0145, NH0191, NH0182, NH0193, NH0186, NH0195

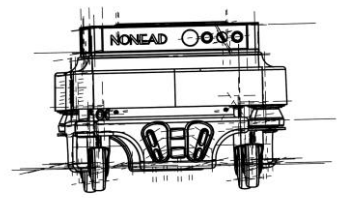


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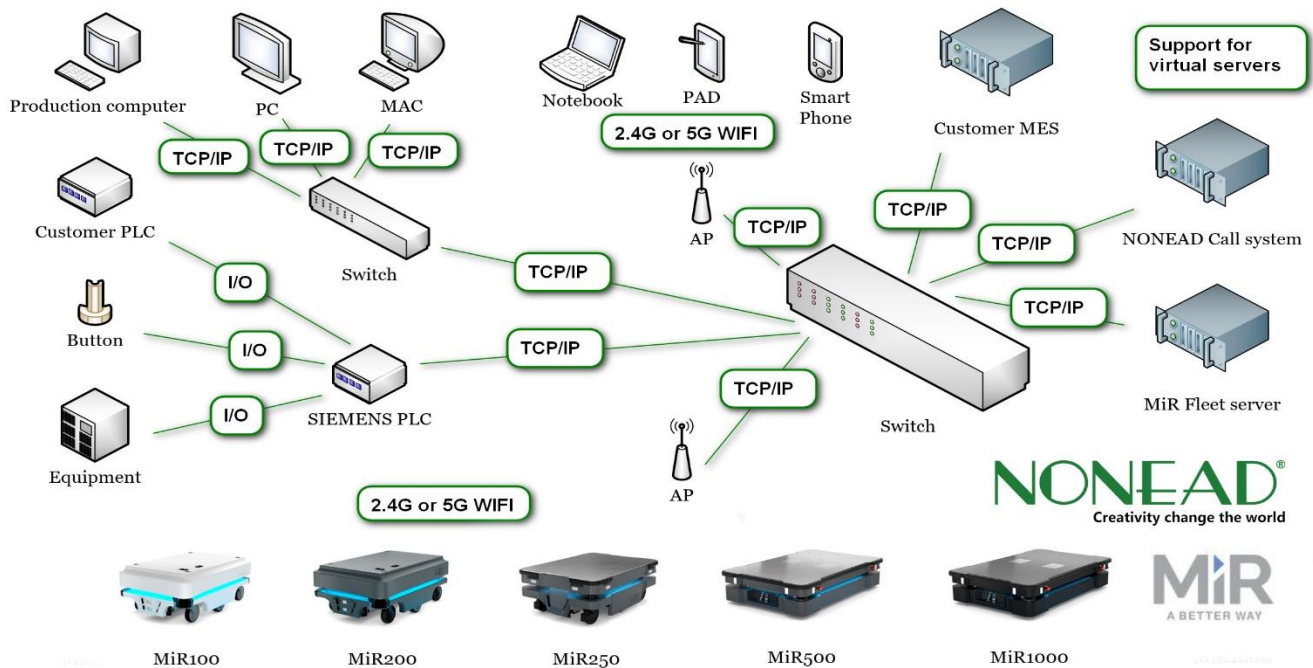
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NONEAD Shelf Carrier System CB4



System architecture: MiR dispatching system, NONEAD call system, secondary development of customer MES interface



NH0182 Standard mobile gravity cart
MiR100&MiR200



NH0186 Standard mobile gravity shelves
MiR100&MiR200&MiR250



NH0195 Standard cart MiR100_MiR200



NH0202 Standard three-layer cart MiR100 MiR200

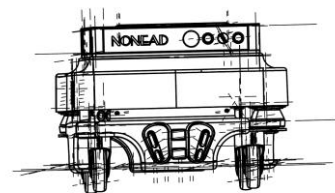


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Give full play to your imagination

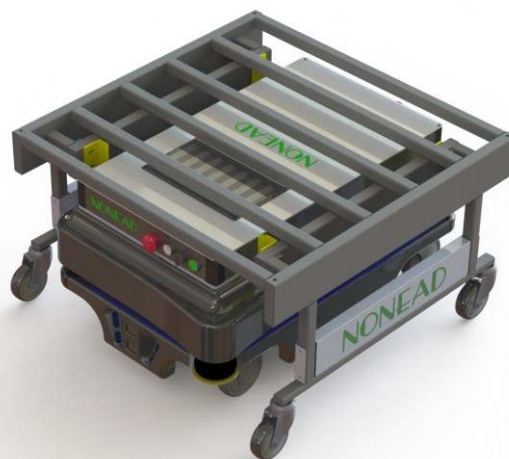
NH0189 Base cart MiR100&MiR200

NH0190 Base cart MiR250

If none of NONEAD's existing cart & accessories is suitable for you, you can purchase our base carts. The upper carrier can be designed independently according to the site situation and product size. The base carts support NH0191 top power supply / signal / control module, providing power supply, signal feedback and control signal.



NH0189 Base cart MiR100&MiR200



MiR100/MiR200+nMiRBTS_CB4 Carrier base cart



NH0190 Base cart MiR250



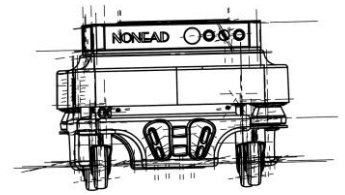
MiR250+nMiRBTS_CB4 Carrier base cart

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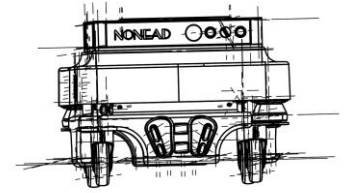


Technical parameters

NH0145 NONEAD Shelf Carrier System CB4 Standard Version

Technische Parameter	
Produktbezeichnung	NONEAD Boden Träger System CB4
ICS CODE	NH0145
Bild	
Abkürzung	nMIRBTS_CB4.1
Länge	760mm
Breite	445mm (565mm im Traktionszustand)
Höhe	78mm
Höhe über dem Boden	430mm (einschließlich der Höhe von MiR100, MiR200, MiR250)
Gewicht	35kg
Energieverbrauch	Maximaler Stromverbrauch DC24V56W, Standby-Stromverbrauch DC24V20W
maximal Belastung	MiR100/200kg MiR200/300kg MiR250/Bleib dran (Standard Epoxidboden floor)
IP-Bewertung	IP20
Sicherheitssystem	zwei Not-Aus-Taster, ein Reset-Taster
Zertifizierung	CE, FCC, ROHS
Schutzfunktion	Motorschutzgerät
Steuermodus	Eine zweistufige Taste zum Umschalten zwischen automatisch und manuell
Multifunktionstaste	eine programmierbare Taste
Stromversorgung	ein Hauptschalter
Visualisierung	eine Fehlerwarnleuchte
Antenne	ein 2,4G- und 5G-Verlängerungskabel und eine ASUS-Antenne

NONEAD Shelf Carrier System CB4



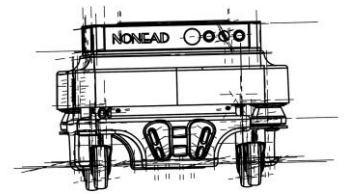
NH0189 Base Carts for MiR100&MiR200

Accessories	
Product Name	Base Carts for MiR100&MiR200
ICS CODE	NH0189
Picture	
Function	MiR100&MiR200 match nMiRBTS_CB4's Base Carts, There is no carrier function, users can design freely, and the four corners of the mechanical interface have M10 threaded holes.
Length	900mm
Width	800mm
Height	478mm
Height above floor	478mm
Weight (without load)	35kg
Maximum Payload	400kg
Upper mechanical interface	The upper surface has four M10 mounting holes which can be used for installing other parts.
Scalability	The NH0191 top power supply/signal/control module can be separately ordered.

NH0198 Installation adapter for MiR250

Accessories	
Product Name	Installation adapter for MiR250
ICS CODE	NH0198
Picture	
Function	Used for mechanical interface conversion, power supply voltage conversion 48Vto24V, electrical interface connection conversion

NONEAD Shelf Carrier System CB4



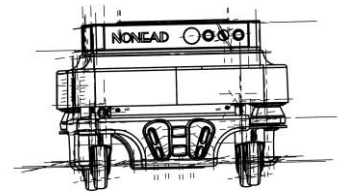
NH0190 Base Carts for MiR250

Accessories	
Product Name	Base Carts for MiR250
ICS CODE	NH0190
Picture	
Function	MiR250 match installation adapter for MiR250 and nMiRBTS_CB4's Base Carts, There is no carrier function, users can design freely, and the four corners of the mechanical interface have M10 threaded holes.
Length	900mm
Width	800mm
Height	478mm
Height above floor	478mm
Weight (without load)	35kg
Maximum Payload	400kg
Upper mechanical interface	The upper surface has four M10 mounting holes which can be used for installing other parts.
Scalability	The NH0191 top power supply/signal/control module can be separately ordered.

NH0191 Top power supply/signal/control module

Accessories	
Product Name	Top power supply/signal/control module
ICS CODE	NH0191
Picture	
Function	It can supply power and signal control for carts and upper mechanism, it shall be used together with NH0182 standard moving gravity cart MiR100&MiR200 or NH0193 standard moving gravity cart MiR250.
Length	300mm
Width	200mm
Height	10mm
Height above floor	435mm
Weight (without load)	10kg
Electrical interface	7 touch spot, 24v+, 0V, 0V, 4 digital input
Protection function	Guarantee of direction, safe power supply

NONEAD Shelf Carrier System CB4



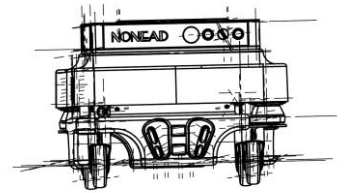
NH0198 Standard carts for MiR100 MiR200

Accessories	
Product Name	Standard carts for MiR100&MiR200
ICS CODE	NH0195
Picture	
Function	Cooperate with MiR100&MiR200 and nMiRBTS_CB4's Base Carts to transport transit boxes, pallets and other goods, the four corners of the platform surface include right-angle limit and anti-drop mechanism.
Length	904mm
Width	804mm
Height	480mm
Height above floor	480mm
Weight (without load)	45kg
Maximum Payload	400kg

NH0196 Standard carts for MiR250

Accessories	
Product Name	Standard carts for MiR250
ICS CODE	NH0196
Picture	
Function	Cooperate with MiR250 and installation adapter for MiR250 and nMiRBTS_CB4's Base Carts to transport transit boxes, pallets and other goods, the four corners of the platform surface include right-angle limit and anti-drop
Length	904mm
Width	804mm
Height	480mm
Height above floor	480mm
Weight (without load)	45kg
Maximum Payload	400kg

NONEAD Shelf Carrier System CB4



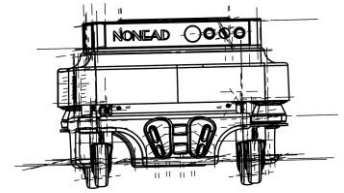
NH0182 Standard moving gravity carts MiR100 MiR200

Accessories	
Product Name	Standard moving gravity carts MiR100&MiR200
ICS CODE	NH0182
Picture	
Function	Place in the warehouse, cooperate with MiR100 and MiR200 to send full boxes to the material collection point of the production line, and send empty boxes back to the warehouse.
Length	900mm
Width	800mm
Height	1570mm
Height above floor	Docking side: under layer 620mm, upper layer 1145mm; Feed side: under layer 700mm, upper layer 1050mm.
Weight (without load)	65kg
Maximum Payload	300kg
Load size	Maximum load size of single-layer 600mmx400mmx280mm x 2cases
Docking mechanism	Includes a set of gravity docking mechanism
Electrical part	It includes 2 sensors, 1 multi-function button, card box alarm and continue task, which need to be used together with the NH0191 top power supply/signal/control module.

NH0193 Standard moving gravity carts MiR250

Accessories	
Product Name	Standard moving gravity carts MiR250
ICS CODE	NH0193
Picture	
Function	Place in the warehouse, cooperate with MiR250 to send full boxes to the material collection point of the production line, and send empty boxes back to the warehouse.
Length	900mm
Width	800mm
Height	1570mm
Height above floor	Docking side: under layer 620mm, upper layer 1145mm; Feed side: under layer 700mm, upper layer 1050mm.
Weight (without load)	65kg
Maximum Payload	300kg
Load size	Maximum load size of single-layer 600mmx400mmx280mm x 2cases
Docking mechanism	Includes a set of gravity docking mechanism
Electrical part	It includes 2 sensors, 1 multi-function button, card box alarm and continue task, which need to be used together with the NH0191 top power supply/signal/control module.

NONEAD Shelf Carrier System CB4



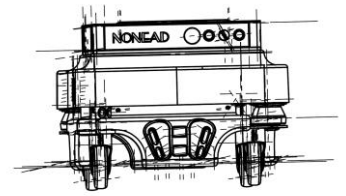
NH0186 Standard site gravity shelf MiR100&MiR200&MiR250

Accessories	
Product Name	Standard site gravity shelf MiR100&MiR200&MiR250
ICS CODE	NH0186
Picture	
Function	It is placed at the collection site of the production line, and Standard moving gravity carts is used to collect the boxes and send the empty boxes.
Length	900mm
Width	800mm
Height	1690mm
Height above floor	Docking side: under layer 615mm, upper layer 1150mm; Feed side: under layer 540mm, upper layer 1250mm.
Weight (without load)	40kg
Maximum Payload	300kg
Load size	Maximum load size of single-layer 600mmx400mmx280mm x 2cases
Docking mechanism	Includes a set of gravity docking mechanism
Calibration objects	Includes a set of VL-Mark supporting MiR100, MiR200, MiR250
Accessory	Anchor with fixing holes

NH0202 Standard three-layer carts MiR100 MiR200

Accessories	
Product Name	Standard three-layer carts MiR100_MiR200
ICS CODE	NH0202
Picture	
Function	Place in the warehouse, cooperate with MiR100&MiR200 to send full boxes to the material collection point of the production line, and send empty boxes back to the warehouse.
Length	900mm
Width	800mm
Height	1590mm
Height above floor	under layer 485mm, middle layer 845, upper layer 1205mm, sidebar height
Weight (without load)	55kg
Maximum Payload	300kg
Load size	Maximum load size of single-layer 600mmx400mmx280mm x 2cases
Electrical part	It can be installed with multi-function buttons, alarm lights and other accessories, which need to be used with the NH0191 top power supply / signal / control module

NONEAD Shelf Carrier System CB4



NH0203 Standard three-layer carts MiR250

Accessories	
Product Name	Standard three-layer carts MiR250
ICS CODE	NH0203
Picture	
Function	Place in the warehouse, cooperate with MiR100&MiR200 to send full boxes to the material collection point of the production line, and send empty boxes back to the warehouse.
Length	900mm
Width	800mm
Height	1590mm
Height above floor	under layer 485mm, middle layer 845, upper layer 1205mm, sidebar height
Weight (without load)	55kg
Maximum Payload	300kg
Load size	Maximum load size of single-layer 600mmx400mmx280mm x 2cases
Electrical part	It can be installed with multi-function buttons, alarm lights and other accessories, which need to be used with the NH0191 top power supply / signal / control module

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