

AGV FORKLIFT BODY SELECTION GUIDE



Website

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Full series AGV forklift body

www.mimachina.com | Q

PROFESSIONAL AGV FORKLIFT BODY! WHY MIMA?

NO.1 Fast Delivery

- More than 90% of MiMA's design, manufacture, inspection, and testing are done within the company.
- The Whole Process Control is used in the design process and all aspects of the production process. Providing the fastest delivery time according to AGV customer project orders.
- At the same time, MIMA can better control design, manufacturing and various costs through modular design.



NO.2 Strong Manufacturing Capacity

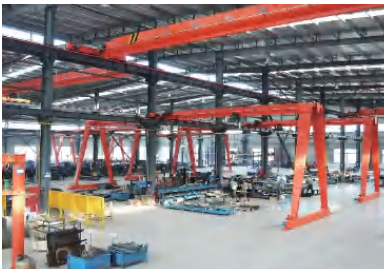
- MiMA owns 5 major production workshops, which are scientifically arranged according to the forklift manufacturing process.
- With more than 20 years of experience in manufacturing specialized electric forklifts, MiMA can easily handle the rapid manufacturing of AGV forklift vehicle bodies.



Raw material cutting workshop



Material processing workshop



Welding workshop



Painting workshop



Assembly workshop



Quality Inspection

NO.3 Professional Technical and Sales Team

- MiMA R&D engineers and sales engineers know what AGV customers are most concerned about.
- Timely project delivery, high security, high reliability and high performance.
- The sales team provides professional pre-sales technical support to help AGV customers quickly implement projects .
- The technical team provides professional design solutions and uses the best R&D software to meet the technical requirements of the AGV forklift vehicle body



Factory Area	Employees	Senior Sales Engineers	R & D Engineers over 8 years experience	History
72000m ² +	550+	90+	80+	SINCE1994

NO.4 Powerful Customized Design and Technical Docking Capabilities

- MIMA'S professional technical design team can provide the best solution according to customer requirements in the shortest time.
- Mechanical engineer 30+, electrical engineer 20+, PLC vehicle control software engineer 10+.

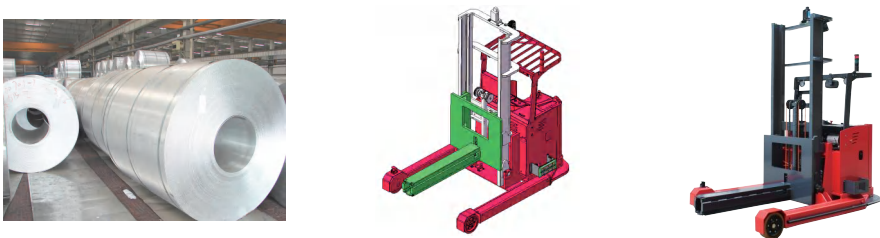


TECHNOLOGY DOCKING PROCESS

1.Customer demand	2.Preliminary version scheme	3.Confirmation of technical solutions
4.Detailed digital model and scheme	5.Confirmation of digital model and scheme	6.Issue drawings and production

NO.5 More than 10,000 Units of Customized Products Project Experience

- MiMA has delivered more than 10,000 customized vehicles to thousands of customers
- Rich experience in non-standard projects is a worry-free guarantee for AGV forklift projects.



COMPANY PROFILE

BANYITONG SCIENCE&TECHNOLOGY DEVELOPING CO., LTD. was founded in 1994. It is a high-tech enterprise that specialized in designing and manufacturing electric material handling equipment and customized products.

"Safe, durable, comfortable, and low-carbon" is the design concept. Relying on a strong technical team, the company provides customers with 500Kg-100000Kg application solutions, full-range material handling equipment and related services. After years of technological innovation and patents accumulation, now the products have involved more than 50 varieties in 12 categories. Products are widely used in logistics, machinery, chemical, food and other industries. Especially in the fields of intensive storage in narrow aisles, long material handling, large tonnage handling and AGV forklift vehicle bodies, we have more than 15 years of industry experience, and we have basically determined our position as a leader in the segmented industry. Products are widely used in logistics, machinery, pharma, chemical, food and other industries.

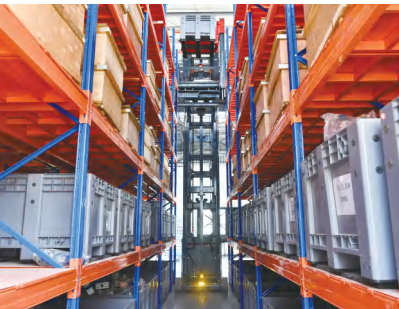
MiMA is the brand of the company. "Minimum Space, Maximum Performance". Help customers through professional material handling equipment, bring higher application value to customers, and realize their expected dreams. In the future, MiMA will stand in the east of the world with a more proud posture, and present it to customers with a more excellent design concept and comprehensive service system, so that customers can shake hands once and become friends for life.



Professional Material Handling Solutions

NO.6 More than 1,000 Units of AGV Forklift Vehicle Bodies Have Been Delivered

- Since 2012, MiMA has provided various types of specialized AGV forklift vehicle bodies for AGV manufacturers.
- Over 1,000 AGV forklift vehicle bodies have been delivered.



VNA



LONG MATERIAL HANDLING



HEAVY-DUTY HANDLING

Product Catelog (VEHICLE FOR AGV)

Pallet Truck



MEV20 Pallet Truck
Rated Load:2000kg
Lift Stroke:110mm



ME25/ME30/ME40 Pallet Truck
Rated Load:2500kg/3000kg/4000kg
Lift Stroke:115mm



ME50/ME60 Pallet Truck
Rated Load:5000kg/6000kg
Lift Stroke:110mm



MEA100 Pallet Truck
Rated Load:10000kg
Lift Stroke:100mm

Pallet Stacker



SLIM Type MB14 Pallet Stacker
Rated Load:1400kg
Lift Stroke:1600-3500mm



Standard Type MB20 Pallet Stacker
Rated Load:2000kg
Lift Stroke:1600-5000mm



Heavy-duty Type TM30 Pallet Stacker
Rated Load:3000kg
Lift Stroke:1600-3500mm

Counter Balance Stacker



MBV15 Counter Balance Stacker
Rated Load:1500kg
Lift Height:2000-3500mm



MBV20 Counter Balance Stacker
Rated Load:2000kg
Lift Height:2000-5000mm



MBV20 Pro/MBV25 Pro Counter Balance Stacker
Rated Load:2000kg/2500kg
Lift Height:2500-4500mm



MBV30 Counter Balance Stacker
Rated Load:3000kg
Lift Height:2500-4500mm



TKA15 Counter Balance Stacker
Rated Load:1500kg
Lift Height: 2500-4500mm



MKV20/25 Counter Balance Stacker
Rated Load:2000kg/2500kg
Lift Height:2000-6000mm



MKV30/35/40 Counter Balance Stacker
Rated Load:3000kg/3500kg/4000kg
Lift Height:2000-6000mm

Tow Tractor



MG30 Tow Tractor
Rated Traction Capacity:3000kg



MGA40 Tow Tractor
Rated Traction Capacity:4000kg



MGA60 Tow Tractor
Rated Traction Capacity:6000kg



MGA100 Tow Tractor
Rated Traction Capacity:10000kg

Reach Truck



MF15/MF20 Reach Truck
Rated Load:1500kg/2000kg
Lift Height:3000-7500mm



MF25/MF30 Reach Truck
Rated Load:2500kg/3000kg
Lift Height:3000-8000mm



MFZ16/MFZ20 Reach Truck
Rated Load:1600kg/2000kg
Lift Height:4600-12000mm



MFZ25 Reach Truck
Rated Load:2500kg
Lift Height:4500-8000mm



MFV16/MFV20 Reach Truck
Rated Load:1600kg-2500kg
Lift Height:4600-8000mm

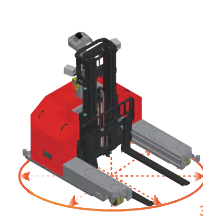
Multi-directional Forklift



MQV15 Multi-directional Forklift (Double drive four point, 24V)
Rated Load:1500kg
Lift Height:2500-4500mm



MQV20 Multi-directional Forklift (Double drive four point, 24V)
Rated Load:2000kg
Lift Height:2000-5000mm



MQV30 Multi-directional Forklift (Double drive four point, 48V)
Rated Load:3000kg
Lift Height:3000-8000mm



MQC25 Multi-directional Forklift (Double drive four point, 48V)
Rated Load:2500kg
Lift Height:3000-8000mm



MQC35 Multi-directional Forklift (Double drive four point, 48V)
Rated Load:3500kg
Lift Height:3000-8000mm

VNA 3 WAY Forklift



VNA 3 way Forklift MC10/MC15 (Four Point)
Rated Load:1000kg/1500kg
Lift Height:3000-9000mm



VNA 3 way Forklift MCA16 (Three Point)
Rated Load:1600kg
Lift Height:4500-12000mm



VNA 3 way Forklift MCC16 (Three Point)
Rated Load:1600kg
Lift Height:3000-14200mm

Heavy -Duty Stacker/Truck



TM30J-TM130J Heavy-Duty Coil Stacker
Rated Load:3000kg-13000kg
Lift Height:1600-5000mm



TM30-TM130 Heavy-Duty Coil Stacker
Rated Load:3000kg-13000kg
Lift Height:1600-5000mm



ME80-ME250 Heavy-Duty Coil Stacker (Fixed Platform)
Rated Load:8000kg-25000kg



MEA80-MEA250 Heavy Duty Stacker (Lift Platform)
Rated Load:8000kg-25000kg
Lift Height:120-300mm

VEHICLE FOR AGV



Pallet truck
MEV20
ME25/30/40
ME50/60
MEA100



Heavy-duty truck
ME80/100
ME120/150
ME200/250



Tow tractor
MG30
MGA40
MGA60
MGA100

Pallet Type

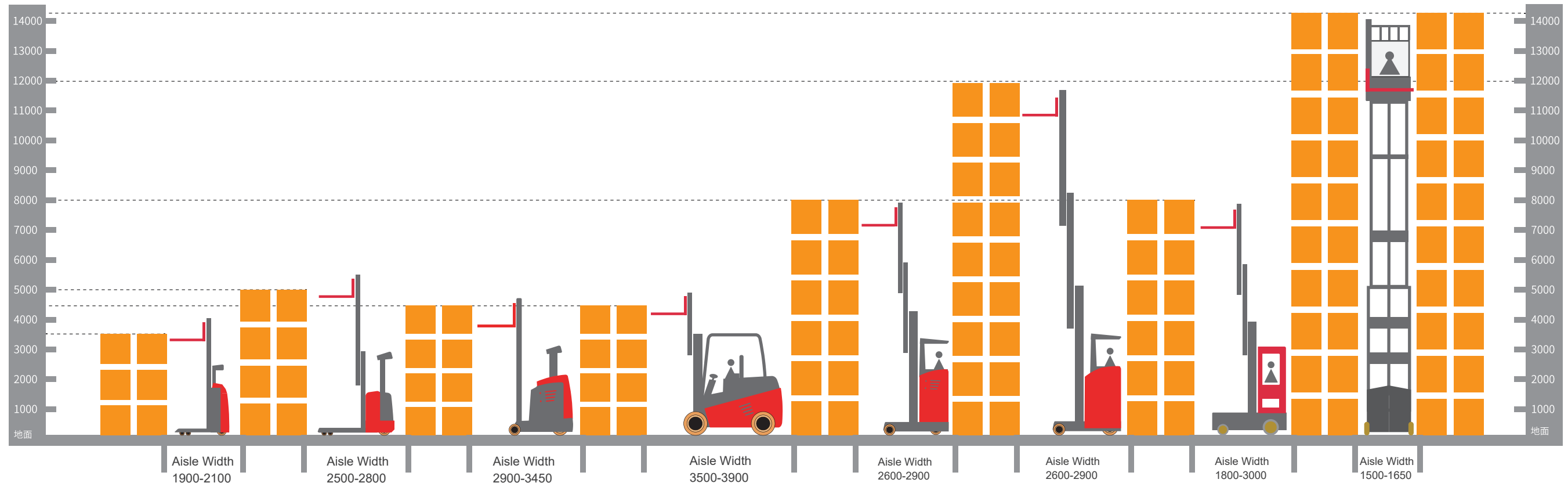


Single-deck



Double-deck

Customized AGV Forklift Body
Coil stacker
Heavy-duty stacker
Heavy-duty truck



Pallet Stacker
SLIM type
1.4t
MB14



Pallet Stacker
Standard Type/
Heavy-duty Type
2t-3t
MB20/TM30



Counter Balance Stacker
Indoor Working Condition
1.5t-3t
MBV15/MBV20/MBV30
MBV20 Pro/MBV25 Pro



Counter Balance Stacker
Indoor/Outdoor
1.5t-4t
TKA15 MKV20/25
MKV30/35/40



Reach Truck
Stand on Type Four Point
1.5t-3t
MF15/MF20
MF25/MF30
MFV16/MFV20



Reach Truck
Seated Type Three Point
1.6t-2.5t
MFZ16/MFZ20
MFZ25






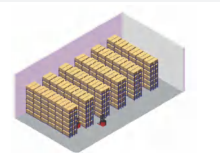
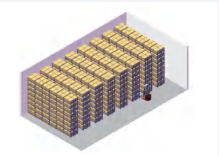
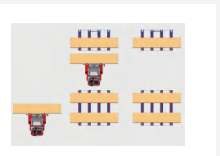
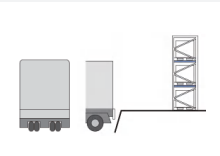
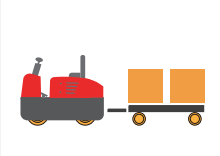








Multi-Directional Forklift
Double Drive Four Point
1.5t-3.5t
MQV15/MQV20/MQV30
MQC25/MQ35



VNA 3 Way Forklift
1.0t-1.6t
MC10/MC15
MCA16/MCC16

VEHICLE FOR AGV








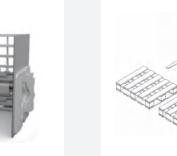
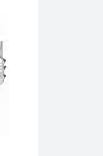








How to adapt applications

Applications									
		Horizontal Handling	Horizontal Carrying/ Low Stacking	Horizontal Carrying/ Medium-Low Stacking	Narrow Aisle Storage/ Medium-High Stacking	Very Narrow Aisle Storage / High Stacking	Long Material Handling/ Low&Medium&High Stacking	Truck loading&unloading operation/ Indoor&Outdoor	Horizontal Traction/ Indoor&Outdoor
	Pallet truck MEV20 ME25/30/40 ME50/60 MEA100	●							
	Pallet stacker MB14 MB20 TM30	●	●	●					
	Counter Balance Stacker MBV15/20/30 MBV20 Pro/MBV25 Pro TKA15 MKA20/25 MKV30/35/40	●	●	●				○ Indoor	
	Reach Truck Stand-on Type MF15/MF20 MF25/MF30/ MFV16/MFV20	●	●	●	●			○ Indoor	
	Reach Truck Seated Type MFZ16/20/25	●	●	●	● VNA, Higher Position			○ Indoor	
	Multi-Directional Forklift Double Drive Four Point MQV15/MQV20/MQV30 MQC25/MQC35	●	●	●	● VNA, Higher Position	○	●	○ Indoor	
	VNA 3 way forklift MC10/MC15 MCA16/MCC16	●	●	●	● VNA, Higher Position	●	●	●	
	Tow tractor MGA30/40/60/100								●

Remarks: ● Adaptation ○ According to true working condition to choose adaptation, Please ask MiMA sale engineer for more customization.

VEHICLE FOR AGV

How pallet and parts adapted?

Pallet & Attachments										
		Single-deck pallet	Double-deck pallet	Sideshifter	Fork positionner	Rotator	Paper rolled clamp	Universal clamp	Paper box clamp	Double forks
	Pallet truck ME20/25/30 ME40/50/60	●								
	Pallet stacker MB12/14 MB15/20	●	○ Straddle leg	○ Straddle leg	○ Straddle leg	○ Straddle leg	○ Straddle leg	○ Straddle leg	○ Straddle leg	
	Counter Balance Stacker MBV12/15 MBV20/30 MKV20/MKC320	●	●	●	●	●	●	●	●	●
	Reach Truck Stand on Type Four Point MF15/MF20 MF25/MF30	●	●	●	●	○	○	○	○	○
	Reach Truck Seated Type Three Point MFZ16/20/25	●	●	●	●	○	○	○	○	○
	Multi-Directional Forklift Double Drive Four Point MQV20/MQA20 MQC25/MQC35	●	●	●	●	○	○	○	○	○
	VNA 3 Way Forklift MC10/MC15 MCA15/MCC16	●	●							
	Tow Tractor MGA30/40/60/100									

Remarks: ● Adaptation ○ According to true working condition to choose adaptation, Please ask MiMA sale engineer for more customization.

PALLET TRUCK

PALLET STACKER



MEV20 Pallet Truck



MEV25/ME30/ME40 Pallet Truck



ME50/ME60 Pallet Truck



MEA100 Pallet Truck

Model	Rated Load (kg)	Lift Height (mm)	Aisle Width (mm)	Fork Size (mm)	Customization
MEV20	2000	110	(Pallet 1000x1200) 1775	LxWxH:1150/175/65 Fork outside width:650	Long forks/wide forks customized fork outside width& customized beveled fork
MEV25/30	2500-3000	110	(Pallet 1000x1200) 2150	LxWxH:1150/175/65 Fork outside width:685	Long forks/wide forks customized fork outside width& customized beveled fork
ME40	4000	115	(Pallet 1000x1200) 2150	LxWxH:1150/225/56 Fork outside width:685	Long forks/wide forks customized fork outside width& customized beveled fork
ME50/60	5000-6000	110	(Pallet 1000x1200) 2250	LxWxH:1200/255/87 Fork outside width:715	Long forks/wide forks customized fork outside width& customized beveled fork
MEA100	10000	100	Decide based on the situation	Decide based on the situation	Customized according to customer needs
<ul style="list-style-type: none">● Adaption: Open pallet● Working function:Handling,adapted in medium distance cargo transportation in warehouse					



Customization solutions&Please consult with sale engineers according to your actual working condition. MiMA provides the most professional service to you!



SLIM type MB14 Pallet Truck



Standard type MB20 Pallet Truck



Heavy-duty Type TM30 Pallet Truck

Model	Rated Load (kg)	Lift Height (mm)	Aisle Width (mm)	Fork Size (mm)	Customization
MB14	1400	1600-3500	(Pallet 1000x1200) 2100	LxWxH:1150/180/60 Fork outside width:685	Long forks/wide forks customized fork outside width& customized beveled fork
MB20	2000	1600-3500	(Pallet 1000x1200) 2490	LxWxH:1150/190/56 Fork outside width:680/560	Long forks/wide forks customized fork outside width& customized beveled fork
TM30	3000	1600-3500	Decide based on the situation	Decide based on the situation	Customized according to customer needs
<ul style="list-style-type: none">● Applications: Open pallet● Working function: transportation+stacking, adapted in medium distance cargo transshipment and medium-low level position stacking in warehouse					



Customization solutions&Please consult with sale engineers according to your actual working condition. MiMA provides the most professional service to you!

COUNTER BALANCE STACKER (Indoor)

COUNTER BALANCE STACKER (Indoor&Outdoor)



MBV15
Counter Balance Stacker



MBV20
Counter Balance Stacker



MBV 20 Pro/MBV 25 Pro
Counter Balance Stacker



MBV30
Counter Balance Stacker

Model	Rated Load (kg)	Lift Height (mm)	Aisle Width (mm)	Fork Size (mm)	Customization
MBV15	1500	2000-4500	(Pallet 1000x1200) 2900	L×W×H:1070/122/40 Fork outside width:264-732	Long forks/wide forks customized fork outside width& customized beveled fork
MBV20	2000	2000-4500	(Pallet 1000x1200) 3200	L×W×H:1070/122/40 Fork outside width:264-732	Long forks/wide forks customized fork outside width& customized beveled fork
MBV20 Pro	2000	2500-4500	(Pallet 1000x1200) 3300	L×W×H:1070/122/40 Fork outside width:750	Long forks/wide forks customized fork outside width& customized beveled fork
MBV25 Pro	2500	2500-4500	(Pallet 1000x1200) 3450	L×W×H:1070/122/40 Fork outside width:750	Long forks/wide forks customized fork outside width& customized beveled fork
MBV30	3000	1600-4500	(Pallet 1000x1200) 3450	L×W×H:1070/125/45 Fork outside width:750	Long forks/wide forks customized fork outside width& customized beveled fork

Applications.....

Adapted in Open pallet /Closed pallet
Adapted in stacking, carrying internal and
external of the warehouse;
Working function:
Stacking+Carrying+Loading & Unloading



TKA15
Counter Balance stacker



MKV20/25
Counter Balance stacker



MKV30/35/40
Counter Balance stacker

Model	Rated Load (kg)	Lift Height (mm)	Aisle Width (mm)	Fork Size (mm)	Customization
TKA15	1500	2500-4500	(Pallet 1000x1200) 2845	LxWxH:920/100/35 Fork outside width:220-680	Adapt in kinds of attachments
MKV20/25	2000/2500	2000/6000	(Pallet 1000x1200) 3500	LxWxH:1070/122/40 Fork outside width:250~1100	Adapt in kinds of attachments
MKV30/35/40	3000/3500/4000	3000-4500	(Pallet 1000x1200) 3760	LxWxH:1070/125/50 Fork outside width:250~1100	Adapt in kinds of attachments

Applications.....

Adapted in Open pallet /Closed pallet
Adapted in stacking, carrying internal and
external of the warehouse;
Working function:
Stacking+Carrying+Loading&Unloading



Customization solutions&Please consult with sale engineers according to your actual working condition.
MiMA provides the most professional service to you!

REACH TRUCK



MF15 Reach Truck



MF20 Reach Truck



MF25 Reach Truck



MF30 Reach Truck

Model	Rated Load (kg)	Lift Height (mm)	Aisle Width (mm)	Fork size (mm)	Customization
MF15	1500	3000-7500	(Pallet 1000x1200)2663	L×W×H:1070/100/35 Fork outside width: 222-650	According to requirements
MF20	2000	3000-7500	(Pallet 1000x1200)2746	L×W×H:1070/122/40 Fork outside width: 244-772	According to requirements
MF25	2500	3000-8000	(Pallet 1000x1200)2894	L×W×H:1070/122/40 Fork outside width: 244-772	According to requirements
MF30	3000	3000-8000	(Pallet 1000x1200)3045	L×W×H:1070/125/45 Fork outside width: 250-750	According to requirements



MFZ16 Reach Truck



MFZ20 Reach Truck



MFZ25 Reach Truck



MFV16/MFV20 Reach Truck

Model	Rated Load (kg)	Lift Height (mm)	Aisle Width (mm)	Fork Size (mm)	Customization
MFZ16	1600	4600-12000	(Pallet 1000x1200)2764	L×W×H:1070/100/35 Fork Outside Width:222-750	According to requirements
MFZ20	2000	4600-12000	(Pallet 1000x1200)2838	L×W×H:1070/122/40 Fork Outside Width:266-772	According to requirements
MFZ25	2500	4500-8000	(Pallet 1000x1200)2973	L×W×H:1070/125/45 Fork Outside Width:250-750	According to requirements
MFV16/MFV20	1600/2000	4600-8000	(Pallet 1000x1200) 2700 (1.6t) 2742 (2t)	L×W×H:1070/122/40	According to requirements

Applications:

Adapted in Open pallet /Closed pallet
Adapted in stacking, carrying internal and external of the warehouse;
Working function:
Stacking+Carrying+Loading & Unloading

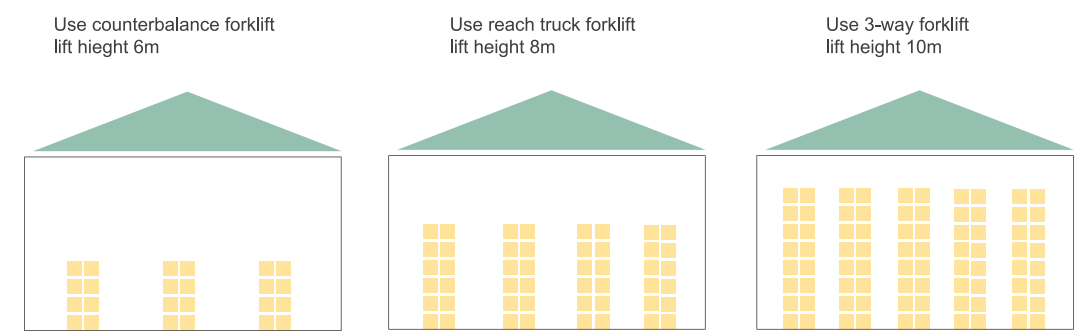


Applications:

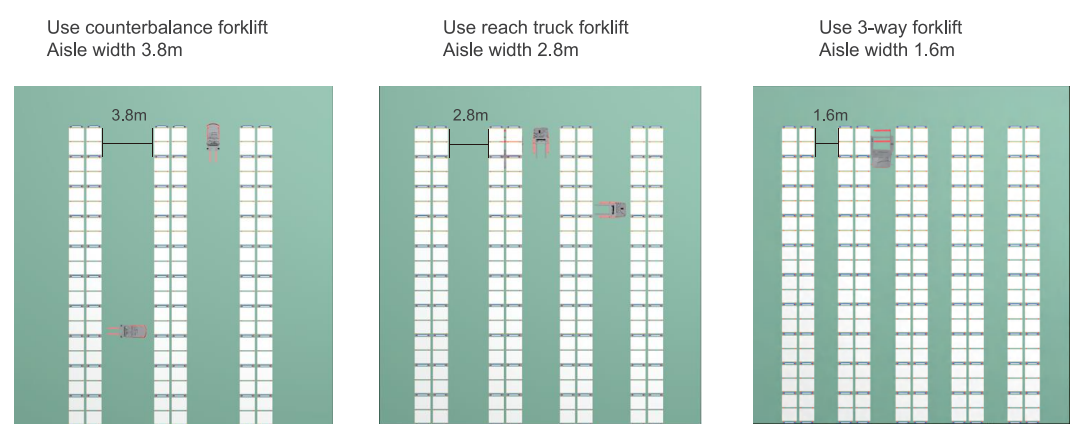


VNA 3-WAY FORKLIFT

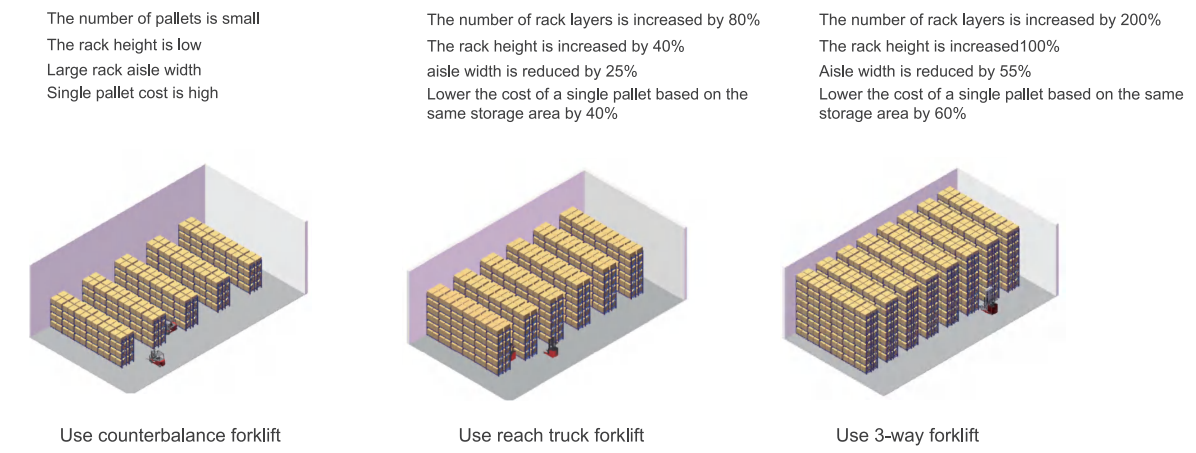
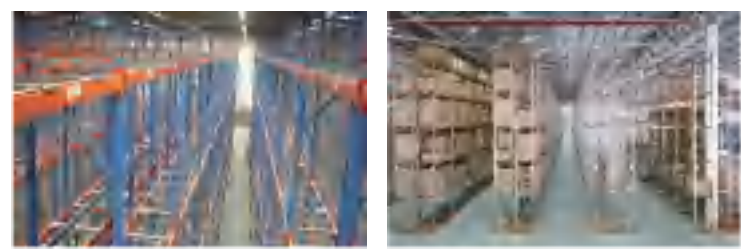
NARROW AISLE&HIGH STORAGE CAPACITY



Model	Rated Load (kg)	Lift Height (mm)	Aisle Width (mm)	Fork Size (mm)	Customization
MC10	1000	3000-7500	(Pallet 1000x1000)1500	L×W×H:1000/125/50 Fork outside width:265-760	According to requirements
MC15	1500	3000-9000	(Pallet 1200x1200) 1600	L×W×H:1200/125/50 Fork outside width:265-760	According to requirements
MCA16 (three point)	1600	3000-10000	(Pallet 1200x1200) 1600	L×W×H:1200/125/50 Fork outside width:270-780	According to requirements
MCC16 (three point)	1600	3000-14200	(Pallet 1200x1200) 1650	L×W×H:1200/125/50 Fork outside width:260-725	According to requirements

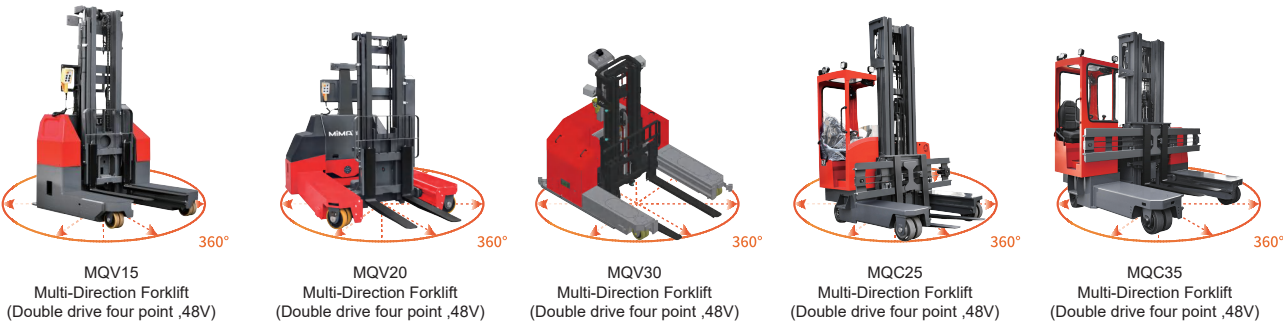


Applications.....



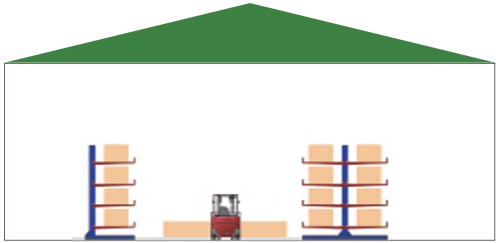
MULTI-DIRECTIONAL FORKLIFT

LONG MATERIAL&HIGH STORAGE CAPACITY

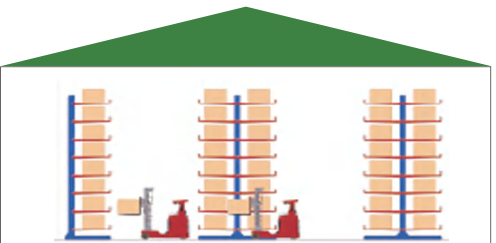


Model	Rated Load (kg)	Lift Height (mm)	Aisle Width (mm)	Fork Size (mm)
MQV15 (Double drive four point ,48V)	1500	2500-4500	(Pallet 1000x800) 2080	L×W×H:920/122/40 Fork outside width:600
MQV20 (Double drive four point ,48V)	2000	1600-4500	(Pallet 1000x1000) 2340	L×W×H:920/100/50 Fork outside width:600
MQV30 (Double drive four point ,48V)	3000	3000-8000	(Pallet 1200x800) 2680	L×W×H:1200/150/50 Fork outside width:1100
MQC25 (Double drive four point ,48V)	2500	3000-8000	(Pallet 1000x1000) 2700	L×W×H:1070/125/45 Fork outside width:550~2100
MQC35 (Double drive four point ,48V)	3500	3000-8000	(Pallet 1200x1000) 2700	L×W×H:1200/150/50 Fork outside width:610~2800

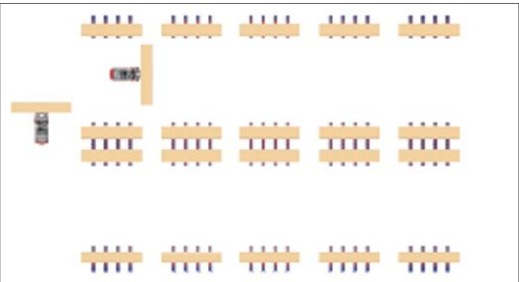
Applications.....



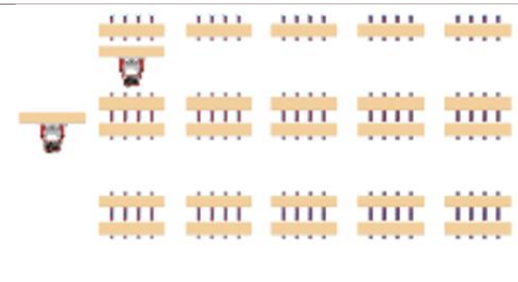
Use ordinary forklift Lift height reach to 6m



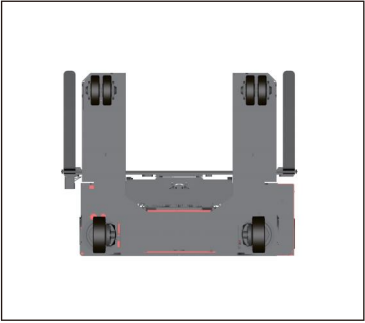
Use multi- directional forklift Lift height reach to 8m



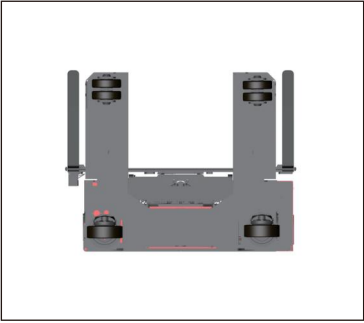
Use ordinary forklift rack channel 7.5m



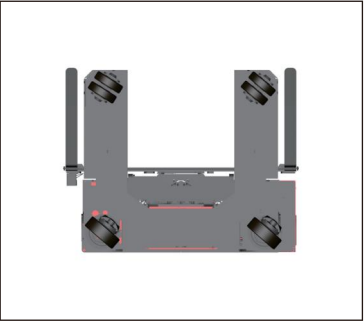
Use multi- directional forklift rack channel 1.8m



Forward move mode



Side move mode



360° center rotate

TOW TRACTOR

HEAVY-DUTY STACKER



MG30 tow tractor



MGA40 tow tractor



MGA60 tow tractor



MGA100 tow tractor

Model	Rated Load (kg)	Traction	Customization
MG30	3000	750	According to requirements
MGA40	4000	800	According to requirements
MGA60	6000	1200	According to requirements
MGA100	10000	2000	According to requirements

Applications.....

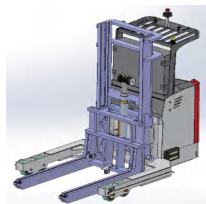


Customization solutions&Please consult with sale engineers according to your actual working condition. MiMA provides the most professional service to you!



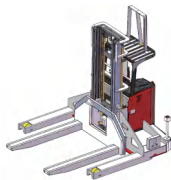
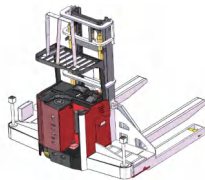
TM30J-TM100J Heavy-duty stacker

Model	Rated Load (kg)	Lift Height (mm)	Aisle Width (mm)	Fork size (mm)	Customization
TM30J-TM100J	3000-10000	Up to 3500	According to requirements	According to requirements	According to requirements



TM30-TM130 Heavy-duty stacker

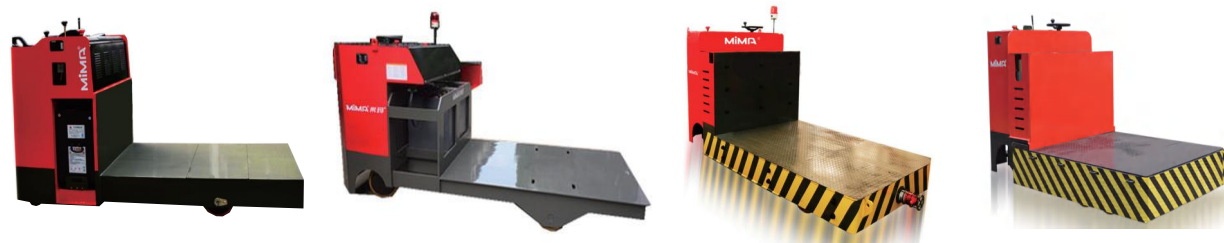
Model	Rated Load (kg)	Lift Height (mm)	Aisle Width (mm)	Fork size (mm)	Customization
TM30-TM130	3000-10000	Up to 3500	According to requirements	According to requirements	According to requirements



TM30A-TM130A Heavy-duty straddle stacker

Model	Rated Load (kg)	Lift Height (mm)	Aisle Width (mm)	Fork size (mm)	Customization
TM30A-TM130A	3000-10000	Up to 3500	According to requirements	According to requirements	According to requirements

HEAVY-DUTY TRUCK



ME80-ME250 Heay-duty truck (fixed platform)

Model	Rated Load (kg)	Platform Size LxW(mm)	Customization
ME80-ME250	8000-250000	L:1000-3000 W:800-2000	According to requirements

Applications.....

Large mold, Non-ferrous metal coiled material, non-ferrous metal rough material, large steel structure, Heavy equipment and other large tonnage heavy materials

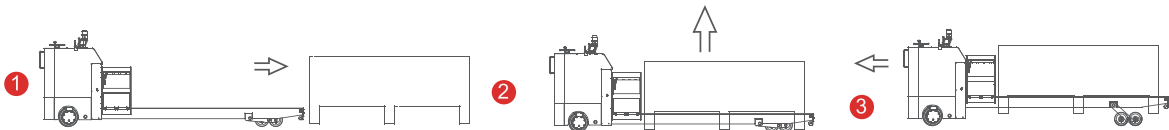


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MEA80-MEA250 Heay-duty truck (Lifting platform)

Model	Rated Load (kg)	Lift Height (mm)	Platform Size LxW(mm)	Customization
MEA80-MEA250	8000-250000	120-200	L:1000-3000 W:800-2000	According to requirements



Customization solutions&Please consult with sale engineers according to your actual working condition. MiMA provides the most professional service to you!

CUSTOMER CASES.....

Pallet truck (customized)



Pallet stacker (customized)



Electric forklift(customized)



CUSTOMER CASES.....

Various customized forklifts



Various customized forklifts

