

Name : 3-Way Stacker

Model : MC16

Category: Specifications Sheet

## MC16

The MC16 series forklift is a narrow aisle three-way stacker truck designed for applications in narrow aisles. It has a lifting height of 2.5-10m. The forklift does not require steering and achieves stacking and picking of goods on both sides through fork rotation and side shifting.

Suitable for:

Mid-to-high-level narrow aisle stacking



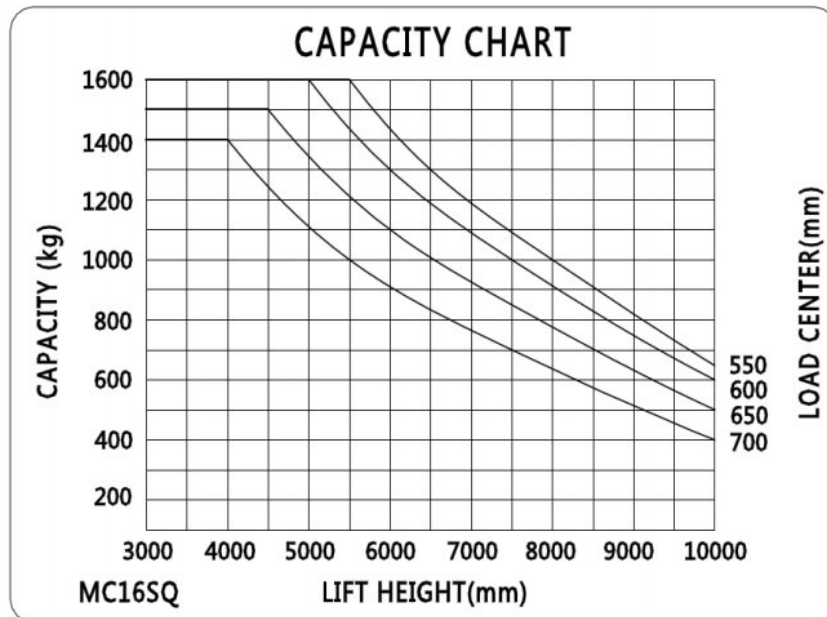
## MiMA electric three-way stacker features

- 1: Maintenance-free full AC system makes the whole vehicle react more quickly and accurately, more efficient and energy-saving, and meets the requirements of heavy working conditions;
- 2: Advanced Curtis controller, more stable and safe;
- 3: Equipped with pure electric three-way fork, the operation is safe, reliable, stable and efficient;
4. The mast is designed with H-shaped channel steel and a central guide rail, providing increased stability and accuracy for high-level stacking.
5. The ergonomic design includes backrest, leg cushion, and armrest, which enhances operator comfort and reduces fatigue during operations.
6. The minimum stacking channel width is only 1600mm, improving the warehouse capacity;
7. The narrow mast and open-frame carriage design ensure sufficient rigidity while providing the operator with excellent visibility.
8. Pure electronic steering system, energy-saving and efficient;
9. The standard fork video system makes the stacking operation more safe and efficient;
10. It is equipped with drive wheel angle display function, which is easier to operate;
11. Multiple navigation modes such as wire guidance, magnetic navigation, mechanical guide roadway mode are optional;
12. Multiple functions such as height preselection, addressing, deceleration and parking at the end of the roadway are selected to meet customers' requirements for efficiency and safety;
13. Specialized design can meet different working conditions of customers such as different pallets, shelf channel sizes, etc.

1.1	Manufacturer		MiMA
1.2	Model		MC16SQ
1.3	Power type		Battery
1.4	Operation		stand on
1.5	Load capacity	Q(kg)	1600
1.6	Load center distance	C(mm)	600
1.7	Front overhang	x(mm)	666
1.8	Wheelbase	y(mm)	1700
2.1	Service weight(incl.battery)	kg	5660
3.1	Tyre type, front/rear		Polyurethane
3.2	Tyre size, front	mm	φ140×127
3.3	Tyre size, rear	mm	φ380×165
3.4	Balance wheel	mm	φ204×76
3.5	Wheels, number front/rear (X=driven)		4 /1X+2
3.6	Track width, rear	b10(mm)	726
3.7	Track width, front	b11(mm)	1280
4.1	Mast retracted height	h1(mm)	2765
4.2	Free lift height	h2(mm)	1750
4.3	Lift height	h3(mm)	4500
4.4	Mast extended height	h4(mm)	5570
4.5	Overhead guard height	h6(mm)	2260/2300
4.6	Pedal height	h7(mm)	355
4.7	Overall length	l1(mm)	3020
4.8	Overall width	b1(mm)	1575[1]
4.9	Fork dimensions	l/e/s(mm)	1200/125/50
4.10	Installation level		II A
4.11	Fork outside spread	b5(mm)	265~765
4.12	Min. ground clearance	m1(mm)	60
4.13	Stacking aisle width pallet to pallet 1200x1200mm	Ast(mm)	1600[2]
4.14	Turning radius	Wa(mm)	1980
4.15	Main aisle width with pallet 1200x1200mm	Wa(mm)	≥(3450+350)[3]
5.1	Travelling speed, laden/unladen	km/h	7.5/8
5.2	Lift speed, laden/unladen	mm/s	260/300
5.3	Lowering speed, laden/unladen	mm/s	360/390
5.4	Service brake		Regenerative Braking, Electromagnetic Braking
6.1	Drive motor, rating S2=60	kw	5.5 AC
6.2	Lift motor, rating S3=15%	kw	15 AC
6.3	Lead acid battery, voltage/nominal capacity	V/Ah	48/480[4]
6.4	Battery weight	kg	765
6.5	Steering system		Electric power steering(EPS)
7.1	Battery replacement method		Side pull

Standard model data will vary according to the configuration without notice

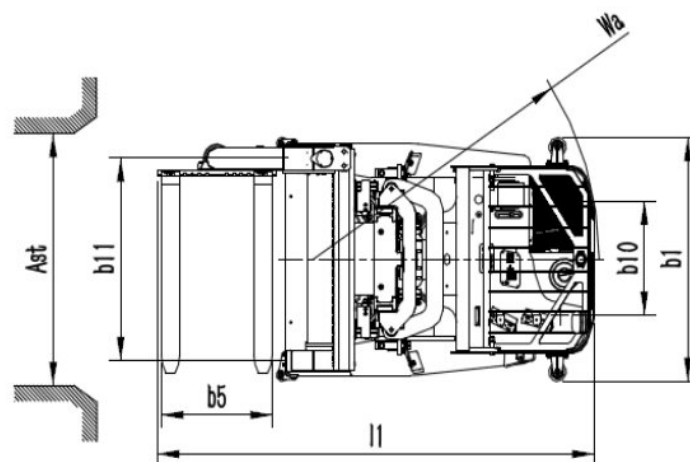
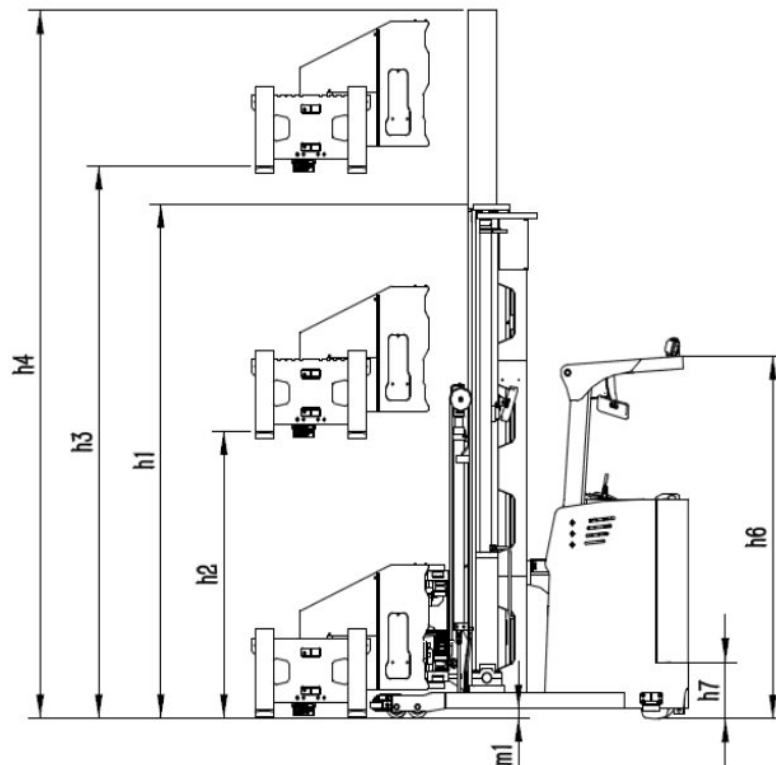
# Load Chart



## Configuration

NO.	Name	MC16
1	Gear pump	23ml/r
2	Electric control assembly	1234SE-5421
3	Drive motor	5.5 KW (AC)
4	Lifting motor	15 KW (AC)
5	Steering motor	0.6kw (AC)
6	Sideshift motor	0.5kw (DC)
7	Steering mode	③③
8	Battery assembly	48V/480Ah
9	Vision system	Wireless HD video

## 2D view



## Mast specification MC16

Trplex full free mast													
Model	MC	16SQ-45	16SQ-50	16SQ-55	16SQ-60	16SQ-65	16SQ-70	16SQ-75	16SQ-80	16SQ-85	16SQ-90	16SQ-95	16SQ-100
Lift height	h3(mm)	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
Mast extended height	h4(mm)	5570	6070	6570	7070	7570	8070	8570	9070	9570	10070	10570	11070
Mast retracted height	h1(mm)	2765	2935	3100	3265	3435	3600	3765	3935	4100	4265	4435	4600
Free lift height	h2(mm)	1750	1910	2080	2250	2410	2580	2750	2910	3080	3250	3410	3580

If you have special application or problems, please contact us.