

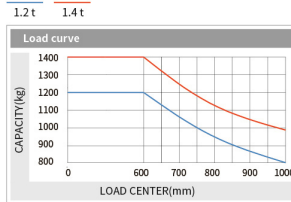
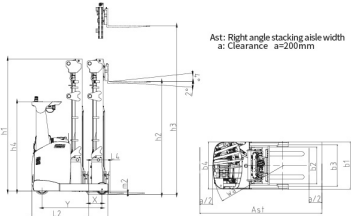
WIDE VIEW FULL FREE 3-STAGE MAST

Mast model	Max. lifting height (mm)	Load capacity (load center 600mm)(kg)		Mast overall height (mm)	Free lifting height (with backrest) (mm)	Service weight(kg)		Fork tilt angle (front/rear)°/β
		CQD12-GB25	CQD14-GB25			CQD12-GB25	CQD14-GB25	
ZSM460	4600	1200	1400	2314	1280	2914	3034	2°/4°
ZSM480	4800	1200	1400	2381	1340	2929	3049	2°/4°
ZSM540	5400	1200	1400	2581	1540	2971	3091	2°/4°
ZSM570	5700	1200	1400	2681	1640	2993	3113	2°/4°
ZSM630	6300	1100	1300	2881	1840	3037	3157	2°/4°
ZSM675	6750	1000	1200	2982	1940	3061	3181	2°/4°
ZSM700	7000	900	1100	3065	2030	3130	3250	2°/4°
ZSM715	7150		1100	3115	2080		3261	2°/4°
ZSM750	7500		1000	3232	2190		3287	2°/4°
ZSM800	8000		900	3398	2360		3325	2°/4°

Note: The free lift height is 4600mm-6300mm when the truck is not assembled with backrest. The free lift height is 175mm increased and other height is 25mm increased.

WIDE VIEW MAST

Mast model	Max. lifting height (mm)	Load capacity (load center 600mm)(kg)		Mast overall height (mm)	Service weight(kg)	Fork tilt angle (front/rear)°/β
		CQD12-GB25	CQD14-GB25			
M290	2900	1200	1400	2300	2758	2878
M320	3200	1200	1400	2450	2780	2900
M360	3600	1200	1400	2650	2810	2930
M380	3800	1200	1400	2750	2824	2944
M400	4000	1200	1400	2850	2839	2959
M420	4200	1200	1400	2950	2854	2974
M440	4400	1200	1400	3050	2909	3029
M460	4600	1200	1400	3150	2924	3044
M500	5000	1100	1300	3350	2955	3075



RENEWABLE ENERGY TECHNOLOGIES

With the use of the excellent load-sensing steering system and AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%.

15%

Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. The standard load means a cubic with 1000mm edge length. When mast is tilted forward, using non-standard forks or loading large goods, the load capacity will be reduced. The load capacity of standard mast at different load center can be known from this load chart.

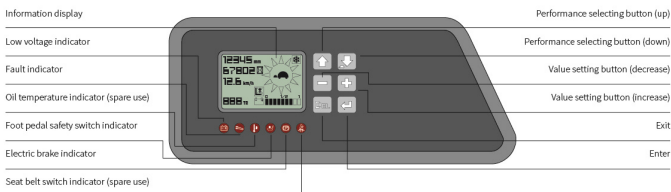
Manufacturer's Data and Design Characteristics

Character		TYMBIA	
1.01	Manufacturer		
1.02	Model	CQD12	CQD14
1.03	Configuration number	GB25	GB25
1.04	Load capacity	Q	kg
1.05	Load center distance	C	mm
1.06	Power mode		Battery
1.07	Driver mode		Seated
1.08	Wheel base	Y	mm
2.01	Type		
2.01	Tyre type		Polyurethaneated
2.02	Wheels, number front/rear(x=driven wheels)		1x/2
2.03	Track width, rear	b3	mm
2.04	Wheel size, rear		e250x95
2.05	Wheel size, front		e343x114
3.01	Lift height	h3	mm
3.02	Free lift	h2	mm
3.03	Mast height, lowered	h1	mm
3.04	Fork size, thickness X width X length	s/e/l	mm
3.05	Fork adjusting width		mm
3.06	Fork tilt angle(front/rear)	α/β	°
3.07	Fork sideshifting		mm
3.08	Truck body length(fork excluded)	L	mm
3.09	Length (the distance from the fork face to rear frame)	L2	mm
3.10	Truck body width	b1/b4	mm
3.11	Distance between support arms	b2	mm
3.12	Reach distance	L4	mm
3.13	Height of overhead guard(cab)	h4	mm
3.14	Ground clearance, below mast	m2	mm
3.15	Turning radius	Wa	mm
3.16	Load distance, centre of support arm wheel to face of fork	X	mm
3.17	Aisle width with pallet 1200×1200 across forks	Ast	mm
3.18	Aisle width with pallet 1000×1200 across forks	Ast	mm
4.01	Travelling speed: with/without load		km/h
4.02	Lift speed: with/without load		m/s
4.03	Lowering speed: with/without load		m/s
4.04	Reach speed: with/without load		m/s
4.05	Maximum climbing ability: with/without load		%
5.01	Total weight(with battery)		kg
5.02	Axle load, fork outreached without load, front/rear		kg
5.03	Axle load, fork retracted, without load, front/rear		kg
5.04	Axle load, fork outreached, with load, front/rear		kg
5.05	Axle load, fork retracted, with load, front/rear		kg
6.01	Battery voltage/capacity K5	V/Ah	48/310
6.02	Battery weight		kg
6.03	Battery box dimension		mm
7.01	Drive motor power		kW
7.02	Lifting motor power		kW
7.03	Steering motor power		kW
7.04	Type of driving control		MOSFET/AC
7.05	Type of lifting control		MOSFET/AC
7.06	Type of steering control		MOSFET/AC
7.07	Transmission box		HELJ special transmission box
7.08	Hydraulic system working pressure	Mpa	17.5

NOTE: *Detailed information about battery, please contact our salesmen or engineer.

Reliable special designed instrument

The reliable special instrument gives a complete display of the vital information, like operation status, fault detection, etc. It ensures the operator predominate the vehicle status more intuitive and convenient.



Standard configuration

AC travelling motor
AC lifting motor
AC steering motor
ZAPI travelling motor controller
ZAPI lifting motor controller
ZAPI steering motor controller
Electromagnetic brake
DC/DC converter
Low noisy gear pump
Control valve (four throw)
460mm three stage full free lift mast
Integral sideshifter
Standard fork
Backrest
Polyurethane tyre
LED meter
Front working light
Warning light
Rearview mirror with wide view angle
Safety belt
Blue warning light

Optional

Three-stage full free lift mast (other lifting height)
fork with other length
Fork extension
Lifting height pre-selector
Monitoring system
Reversing buzzer
Other battery
Germany hoppecker battery
Italy FAAM battery
Battery charger
Customer made color
Battery side pulling
HELJ smart fleet management system

Tymbia

1.2-1.4t
G2 SERIES
AC ELECTRIC
REACH TRUCK
(SIT-DOWN TYPE)



G2 SERIES 1.2-1.4 t

Three phase AC type motor technology

- Three phase AC type motor control on travelling, lifting and steering
- Good acceleration
- Fast and sensitive respond on travel direction shifting Free from maintenance motor without carbon brush having long service life and low maintenance cost
- Energy regenerating during deceleration extending operation hours
- Max. travelling speed without load 20% increased
- Max. travelling speed with load 27% increased

Newly designed hydraulic system

- Newly designed hydraulic system with high working efficiency
- High power lifting motor
- MOSFET lifting speed governing electric controller
- New type low noisy gear pump
- Max. lifting speed without load 15% increased
- Max. lifting speed with load 25% increased

Optimized intelligent design

- ZAPI travelling motor controller
- ZAPI lifting motor controller
- ZAPI steering motor controller
- CAN bus technology
- Emergency power off of both main circuit and control circuit
- Parking brake on slope
- Operation sequence protection
- Travelling speed control
- Electric controller self protection
- Lifting height pre-selector (optional)

Advanced EPS electric powered steering

- EPS electric powered steering offering easy, flexible, high efficient and mute operation
- Steering motor controller
- Automatic centering function
- Real-time shifting between 180°steering mode and 360° steering mode
- Automatic limit on speed and accelerated speed when steering

Easy operated thumb switch

- To control hydraulic functions
- Clear operating units
- Proportional solenoid offering a stable and comfort lowering action



Displayer

- High quality meter displaying important operating data
- Display of traveling direction and drive wheel angle
- Display of 180°/360° steering mode
- Display of battery quantity and fault code
- Travelling mode selection
- Lifting lock indication
- Hour meter
- Labor hour display
- Time
- Fork height display (optional)

Overhead guard

- Fence on top of the overhead guard offering driver wide view
- Beveled view angle design with front ring beam meeting humanized requirements

Wide view mast

- Good view when loaded
- Integral sideshifter
- Mast vertical, fork tilt
- High residual load capacity at high lift height
- Lift height range: 4600-8000mm
- Buffering during lifting and lowering
- Buffering on lifting and lowering limit
- Buffering when cylinder moving forward

Comfort cab

- Comfort cab offering driver good working environment
- and easy operation
- Easy reach to important operation
- Adjustable seat (seat position /backrest angle)

HELI smart fleet management system (optional)

- Vehicle positioning
- Remote diagnosis
- Remote monitoring
- Maintenance reminder
- Battery management
- Statistical form
- Vehicle management
- Identification recognition (optional)
- Weight management (optional)
- Collision management (optional)

