

Counterbalanced Electric Reach Stacker



Model:  
CQD12R  
CQD15R  
CQD20R  
Mast Reach Type

AC

EPS  
option



Conform to  
ISO3691-1  
EN1175:2020  
EN16307-1  
EN12053  
EN12100

Advantages:

- STRUCTURAL**
- Two lifting cylinders placed on outer sides of the mast.
  - Germany imported special steel mast.
  - Vertical driving wheel, driving efficiency, easy installation & maintenance.
  - Compact structure and low gravity.

- SAFETY AND EFFICIENCY**
- AC frequency conversion traction motor: compact structure, good performance, regenerative braking and easy maintenance.
  - Tilting system forks easy for loading and stacking.
  - High Storage battery ensures strong and long-lasting power.
  - Meter with BDI, prolonging the battery's using time.
  - The braking system combines magnetic brake and regenerative break, greatly prolongs the using life of friction plate.
  - With emergency stop switch and electricity lock button, and multi-valve controlling levers, ergonomic for operation .
  - The adjustable regulator valve can adjust the lowering speed of the masts.

- EASY MAINTENANCE**
- Magnet suction battery cover, easy for installation and maintenance.
  - AC controlling system, low noise, less maintenance.



| General Information | 1.2              | Manufacturer's type designation                                      |                             | CQD12R                             | CQD15R                             | CQD20R (EPS)                       |
|---------------------|------------------|----------------------------------------------------------------------|-----------------------------|------------------------------------|------------------------------------|------------------------------------|
|                     | 1.3              | Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas |                             | Electric                           | Electric                           | Electric                           |
|                     | 1.4              | Operator type: hand, pedestrian, standing, seated, order-picker      |                             | Standing                           | Standing                           | Standing                           |
|                     | 1.5              | Rated capacity/rated load                                            | Q (kg)                      | 1250                               | 1500                               | 2000                               |
|                     | 1.6              | Load centre distance                                                 | c (mm)                      | 500                                | 500                                | 500                                |
|                     | 1.8              | Load distance, centre of drive axle to fork                          | x (mm)                      | 430                                | 520                                | 550                                |
|                     | 1.9              | Wheelbase                                                            | y (mm)                      | 1380                               | 1480                               | 1600                               |
| Weight              | 2.1              | Service weight                                                       | kg                          | 1800                               | 2140                               | 2300                               |
|                     | 2.3              | Axle loading, unladen front/rear                                     | kg                          | 1200/600                           | 1360/760                           | 1660/2640                          |
|                     | 2.5              | Axle loading, fork retracted, laden front/rear                       | kg                          | 1080/2020                          | 1290/2350                          | 1620/680                           |
| Tyres               | 3.1              | Tyres: solid rubber, superelastic, pneumatic, polyurethane           |                             | Polyurethane                       | Polyurethane                       | Polyurethane                       |
|                     | 3.2              | Tyre size, front                                                     |                             | Φ250×70                            | Φ250×70                            | Φ250x80                            |
|                     | 3.3              | Tyre size, rear                                                      |                             | Φ210×85                            | Φ210×85                            | Φ210x115                           |
|                     | 3.4              | Additional wheels (dimensions)                                       |                             | Φ150×60                            | Φ150×60                            | -                                  |
|                     | 3.5              | Wheels, number front/rear (× = driven wheels)                        |                             | 1x+2/2                             | 1x+2/2                             | 1x/2                               |
|                     | 3.6              | Tread, front                                                         | b10 (mm)                    | 612                                | 612                                | -                                  |
|                     | 3.7              | Tread, rear                                                          | b11 (mm)                    | 908                                | 908                                | 945                                |
| Dimensions          | 4.1              | Tilt of mast/fork carriage forward/backward                          | a/b (°)                     | 3/6                                | 3/6                                | 3/6                                |
|                     | 4.2              | Height, mast lowered                                                 | h1 (mm)                     | 1880/2118/2400/1953/2128/2298/2495 | 1880/2118/2400/1953/2128/2298/2495 | 1888/2118/2400/1953/2128/2298/2495 |
|                     | 4.3              | Free lift                                                            | h2 (mm)                     | 0/0/0/1280/1480/1600/1870          | 0/0/0/1280/1480/1600/1870          | 0/0/0/1280/1480/1600/1870          |
|                     | 4.4              | Lift                                                                 | h3 (mm)                     | 2500/3000/3500/4000/4500/5000/5600 | 2500/3000/3500/4000/4500/5000/5600 | 2500/3000/3500/4000/4500/5000/5600 |
|                     | 4.5              | Height, mast extended                                                | h4 (mm)                     | 3500/4000/4500/5000/5500/6000/6600 | 3500/4000/4500/5000/5500/6000/6600 | 3500/4000/4500/5000/5500/6000/6600 |
|                     | 4.9              | Height drawbar in driving position min./max.                         | h14 (mm)                    | 1160/1460                          | 1160/1460                          | 1160/1460                          |
|                     | 4.19             | Overall length                                                       | l1 (mm)                     | 2150/2270/2350                     | 2250/2370/2450                     | 2276/2360/2440                     |
|                     | 4.20             | Length to face of forks                                              | l2 (mm)                     | 1200                               | 1240                               | 1290                               |
|                     | 4.21             | Overall width                                                        | b1/b2 (mm)                  | 990                                | 990                                | 1060                               |
|                     | 4.22             | Fork dimensions DIN ISO 2331                                         | s / e / l (mm)              | 35/100/950(1070/1150)              | 35/100/950(1070/1150)              | 40/100/950(1070/1150)              |
|                     | 4.25             | Fork spread                                                          | b5 (mm)                     | 200-680                            | 200-680                            | 200-680                            |
|                     | 4.28             | Reach distance                                                       | l4 (mm)                     | 560                                | 650                                | 710                                |
|                     | 4.31             | Ground clearance, laden, below mast                                  | m1 (mm)                     | 55                                 | 55                                 | 55                                 |
|                     | 4.34.1           | Aisle width for pallets 1000 × 1200 crossways                        | Ast (mm)                    | 2600                               | 2700                               | 2800                               |
|                     | 4.34.2           | Aisle width for pallets 800 × 1200 lengthways                        | Ast (mm)                    | 2650                               | 2750                               | 2830                               |
|                     | 4.35             | Turning radius                                                       | Wa (mm)                     | 1650                               | 1750                               | 1870                               |
|                     | Performance Data | 5.1                                                                  | Travel speed, laden/unladen | km/h                               | 6.8/7.0                            | 6.8/7.0                            |
| 5.2                 |                  | Lift speed, laden/unladen                                            | m/s                         | 0-0.13/0-0.2                       | 0-0.13/0-0.2                       | 0.11/0.2                           |
| 5.3                 |                  | Lowering speed, laden/unladen                                        | m/s                         | 0-0.25/0-0.2                       | 0.25                               | 0-0.23/0-0.2                       |
| 5.8                 |                  | Max. gradeability, laden/unladen                                     | %                           | 6/10                               | 6/10                               | 10/15                              |
| 5.10                |                  | Service brake                                                        |                             | Electromagnetic                    | Electromagnetic                    | Electromagnetic                    |
| Motors              | 6.1              | Drive motor rating S2 60 min                                         | kW                          | 1.2(AC)                            | 1.2(AC)                            | 2.2(AC)                            |
|                     | 6.2              | Lift motor rating at S3 15%                                          | kW                          | 4.5                                | 4.5                                | 4.5                                |
|                     | 6.4              | Battery voltage/nominal capacity K5                                  | (V)/(Ah) or kWh             | 24/270                             | 24/270                             | 24/280(320/360)                    |
|                     | 6.5              | Battery weight                                                       | kg                          | 260-320                            | 260-320                            | 280-330                            |
| Additional Data     | 10.7             | Sound pressure level at the driver's seat                            | dB (A)                      | 65                                 | 65                                 | 65                                 |

\*Option: With EPS the drive wheel size is 250x80mm.  
Li-ion Lithium battery 230AH (Charger 24V/100A)

