

# Counterbalanced Reach Truck



Model:  
**CQD25-D**

## Advantages:

### HIGH EFFICIENCY AND FLEXIBILITY

- One-key start + password login , more convenient to start the truck .
- Electric power steering system(EPS).
- 180/360 degree steering mode.
- AC motor provides high driving speed (laden/unladen): 10.5/11 km per hour.
- 4-stage driving speed selection.
- Intelligently optimized turning speed control system: The system analyzes the tire angle, driving and steering direction, then automatically adjusts the speed to achieve maximum safety performance.
- Fork side camera system provides better view, avoids the problem of being blocked by the pallets while stacking.
- Luxurious cushion seat equipped with OPS function.
- Standard integral side shifter.

### SAFETY AND STABILITY

- The mast adopts an offset design, optimizes the operator views.
- Height limit function, high speed limit function, turning speed limit function.
- The mast moving speed will be automatically reduce while reaching the end position.
- FULL AC control system with CAN communication technology.
- The service brake is operated by hydraulic brake and regenerative brake at the same time , with short braking distance.
- Automatic electromagnetic brake after parking.
- Seat with power-off switch while operator leave the seat.
- Standard: warning lights, headlights, rear view mirrors.
- Option: ACS function (when the mast is lifted and moved forward, it can reduce the truck vibration)

### SERVICE ABILITY

- One-piece upper cover with open design, convenient to maintain the controller, lifting pumps, hydraulic devices, drive motors and brake systems, etc.
- Sideway battery can be moved out with mast together, convenient to maintain/ replace the battery.
- All electric parts are integrated modular design, easy for installation/ maintenance.

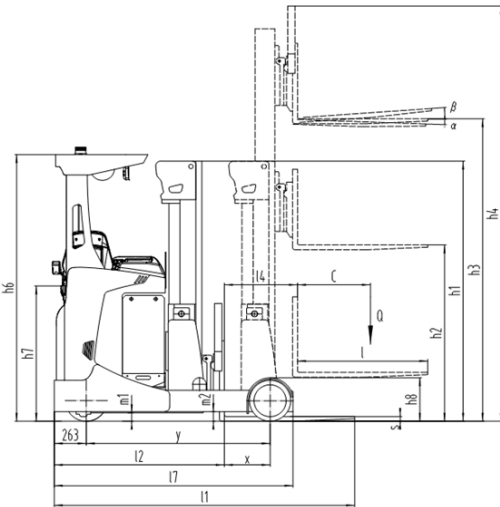
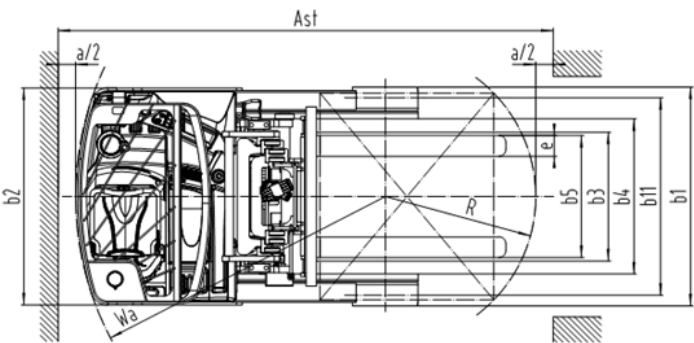


NEW

2500KG

| Features | 1.2 Manufacturer's type designation                                      |                 | CQD25-D                                                               |
|----------|--------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------|
|          | 1.3 Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas |                 | Electric                                                              |
|          | 1.4 Operator type: hand, pedestrian, standing, seated, order-picker      |                 | Seated                                                                |
| Weight   | 1.5 Rated capacity/rated load                                            | Q (kg)          | 2500                                                                  |
|          | 1.6 Load centre distance                                                 | c (mm)          | 600                                                                   |
|          | 1.8 Load distance, centre of drive axle to fork                          | x (mm)          | 378                                                                   |
|          | 1.9 Wheelbase                                                            | y (mm)          | 1650                                                                  |
|          | 2.1 Service weight                                                       | kg              | 5830                                                                  |
|          | 2.3 Axle loading, unladen front/rear                                     | kg              | 2850/3180                                                             |
|          | Axle loading, fork retracted, unladen front/rear                         | kg              | 2350/3750                                                             |
|          | 2.4 Axle loading, fork advanced, laden front/rear                        | kg              | 1150/6950                                                             |
|          | 2.5 Axle loading, fork retracted, laden front/rear                       | kg              | 2850/5330                                                             |
| Tyres    | 3.1 Tyres: solid rubber, superelastic, pneumatic, polyurethane           |                 | polyurethane                                                          |
|          | 3.2 Tyre size, front                                                     | mm              | Φ343×140                                                              |
|          | 3.3 Tyre size, rear                                                      | mm              | Φ343×140                                                              |
|          | 3.5 Wheels, number front/rear (× = driven wheels)                        |                 | 1x/2                                                                  |
|          | 3.6 Tread, front                                                         | b10 (mm)        | N/A                                                                   |
|          | 3.7 Tread, rear                                                          | b11 (mm)        | 1195                                                                  |
|          | 4.1 Tilt of mast/fork carriage forward/backward                          | a/b (°)         | 2/4                                                                   |
|          | 4.2 Height, mast lowered                                                 | h1 (mm)         | 2240/2490/2740/2340/2740/3190/3390/3590/3890/4220/4520/4720/4820      |
|          | 4.3 Free lift(with load-backrest)                                        | h2 (mm)         | 0/0/0/1400/1800/2250/2450/2650/2950/3280/3580/3780/3880               |
|          | Free lift(without load-backrest)                                         | h2(*) (mm)      | 0/0/0/1736/2136/2536/2736/2936/3236/3600/3900/4100/4200               |
|          | 4.4 Lift height                                                          | h3 (mm)         | 3000/3500/4000/5000/6200/7400/8000/8600/9500/10200/11100/11700/12000  |
|          | 4.5 Height, mast extended                                                | h4 (mm)         | 3940/4440/4940/5940/7140/8340/8940/9540/10440/11140/12040/12640/12940 |
|          | 4.7 Height of overhead guard (cabin)                                     | h6 (mm)         | 2210                                                                  |
|          | 4.8 Seat height relating to SIP/stand height                             | h7 (mm)         | 1116                                                                  |
|          | 4.10 Height of wheel arms                                                | h8 (mm)         | 360                                                                   |
|          | 4.19 Overall length                                                      | l1 (mm)         | 2610                                                                  |
|          | 4.20 Length to face of forks                                             | l2 (mm)         | 1536                                                                  |
|          | 4.21 Overall width                                                       | b1/b2 (mm)      | 1345/1260                                                             |
|          | 4.22 Fork dimensions DIN ISO 2331                                        | s / e / l (mm)  | 45/125/1070                                                           |
|          | 4.23 Fork carriage ISO 2328, class/type A, B                             |                 | 2B                                                                    |
|          | 4.24 Fork-carriage width                                                 | b3 (mm)         | 928                                                                   |
|          | 4.25 Fork spread                                                         | b5 (mm)         | 330/688                                                               |
|          | 4.26 Distance between wheel arms/loading surfaces                        | b4 (mm)         | 900                                                                   |
|          | 4.28 Reach distance                                                      | l4 (mm)         | 600                                                                   |
|          | 4.31 Ground clearance, laden, below mast                                 | m1 (mm)         | 70                                                                    |
|          | 4.32 Ground clearance, centre of wheelbase                               | m2 (mm)         | 60                                                                    |
|          | 4.34.1 Aisle width for pallets 1000 × 1200 crossways                     | Ast (mm)        | 2980                                                                  |
|          | 4.34.2 Aisle width for pallets 800 × 1200 lengthways                     | Ast (mm)        | 3025                                                                  |
|          | 4.35 Turning radius                                                      | Wa (mm)         | 1920                                                                  |
|          | 4.37 Length across wheel arms                                            | l7 (mm)         | 2100                                                                  |
|          | 5.1 Travel speed, laden/unladen                                          | km/h            | 10/12                                                                 |
|          | 5.2 Lift speed, laden/unladen                                            | mm/s            | 350/580                                                               |
|          | 5.3 Lowering speed, laden/unladen                                        | mm/s            | 450/450                                                               |
|          | 5.4 Reaching speed, laden/unladen                                        | mm/s            | 120/120                                                               |
|          | 5.7 Gradeability, laden/unladen                                          | %               | 10/11                                                                 |
|          | 5.8 Max. gradeability, laden/unladen                                     | %               | 10/11                                                                 |
|          | 5.10 Service brake                                                       |                 | Electromagnetic                                                       |
|          | 6.1 Drive motor rating S2 60 min                                         | kW              | 6.5(AC)                                                               |
|          | 6.2 Lift motor rating at S3 15%                                          | kW              | 15                                                                    |
|          | 6.4 Battery voltage/nominal capacity K5                                  | (V)/(Ah) or kWh | 48/840                                                                |
|          | 6.5 Battery weight                                                       | kg              | 1240                                                                  |
|          | 10.1 operation pressure                                                  | bar             | 18                                                                    |
|          | 10.7 Sound pressure level at the driver's seat                           | dB (A)          | 69.7                                                                  |

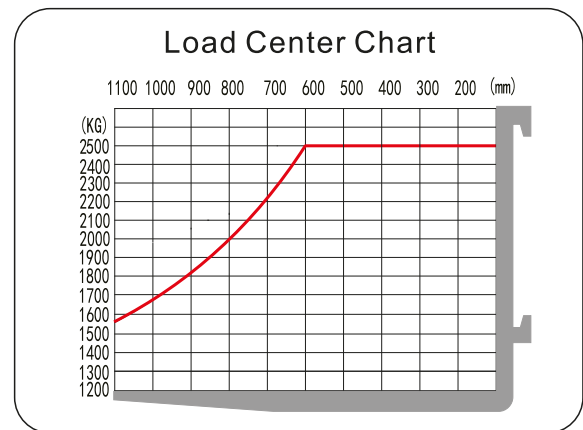
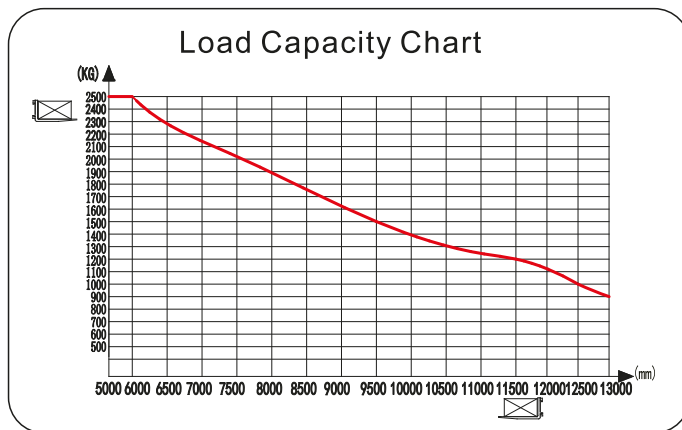
Option: 1) Camera  
2) ASC  
3) Lead-Acid Battery option : 48V/700AH , 48V/775AH , 48V/840AH , 48V/930AH  
4) Lithium battery option : 48V /400AH , 48V /450AH , 48V /600AH , 48V/750AH , 48V/875AH



# Counterbalanced Reach Truck

**CQD25D Mast Table**

| Max Lifting Height  | Height, mast lowered | Free lifting(with Load backrest ) |                     | Height, mast extended |
|---------------------|----------------------|-----------------------------------|---------------------|-----------------------|
| h <sub>3</sub> (mm) | h <sub>1</sub> (mm)  | h <sub>2</sub> (mm)               | h <sub>2</sub> (mm) | h <sub>4</sub> (mm)   |
| 3000                | 2240                 | 0                                 | 0                   | 3940                  |
| 3500                | 2490                 | 0                                 | 0                   | 4440                  |
| 4000                | 2740                 | 0                                 | 0                   | 4940                  |
| 5000                | 2340                 | 1400                              | 1736                | 5940                  |
| 5500                | 2480                 | 1568                              | 1904                | 6440                  |
| 6200                | 2740                 | 1800                              | 2136                | 7140                  |
| 7400                | 3190                 | 2250                              | 2536                | 8340                  |
| 8000                | 3390                 | 2450                              | 2736                | 8940                  |
| 8600                | 3590                 | 2650                              | 2936                | 9540                  |
| 9500                | 3890                 | 2950                              | 3236                | 10440                 |
| 10200               | 4220                 | 3280                              | 3600                | 11140                 |
| 11100               | 4520                 | 3580                              | 3900                | 12040                 |
| 11700               | 4720                 | 3780                              | 4100                | 12640                 |
| 12000               | 4820                 | 3880                              | 4200                | 12940                 |
| 12500               | 4990                 | 4050                              | 4368                | 13440                 |
| 13000               | 5190                 | 4250                              | 4536                | 13940                 |



**Load Capacity chart ( For STD ACID Battery 48V/700AH )**

|                  | LC=600mm                                        | LC=685mm | LC=800mm | LC=900mm | LC=1000mm | LC=1050mm | LC=2050mm | LC=2050mm |
|------------------|-------------------------------------------------|----------|----------|----------|-----------|-----------|-----------|-----------|
| Lift height (mm) | Residual Capacity (kg), with integral sideshift |          |          |          |           |           |           |           |
| ≤6000            | 2500                                            | 2063     | 2006     | 1826     | 1598      | 1343      | 1035      | 955       |
| 6200             | 2350                                            | 1927     | 1886     | 1716     | 1574      | 1454      | 844       | 789       |
| 7400             | 2050                                            | 1656     | 1645     | 1497     | 1373      | 1269      | 827       | 727       |
| 8000             | 1900                                            | 1520     | 1525     | 1387     | 1273      | 1176      | 767       | 617       |
| 8600             | 1750                                            | 1384     | 1404     | 1278     | 1172      | 1083      | 628       | 573       |
| 9500             | 1500                                            | 1158     | 1204     | 1095     | 1005      | 928       | 538       | 483       |
| 10200            | 1400                                            | 1067     | 1123     | 1022     | 938       | 805       | 579       | 499       |
| 10750            | 1350                                            | 1022     | 1083     | 986      | 904       | 532       | 545       | 445       |
| 11100            | 1250                                            | 1113     | 1003     | 913      | 837       | 774       | 517       | 437       |
| 11500            | 1200                                            | 1068     | 963      | 876      | 804       | 743       | 473       | 418       |
| 11700            | 1150                                            | 1024     | 923      | 840      | 770       | 712       | 413       | 358       |
| 12000            | 1100                                            | 979      | 883      | 803      | 737       | 681       | 395       | 340       |
| 12500            | 950                                             | 846      | 762      | 694      | 636       | 611       | 393       | 313       |
| 13000            | 850                                             | 757      | 682      | 621      | 569       | 547       | 305       | 250       |

**CQD25D Load Capacity chart**

| Lead- acid       | 700 Ah                                                    | 775 Ah       | 840 Ah       | 930 Ah       |
|------------------|-----------------------------------------------------------|--------------|--------------|--------------|
|                  | 1000kg                                                    | 1090Kg       | 1250Kg       | 1350 Kg      |
|                  | 1215*420*751                                              | 1215*420*751 | 1215*500*751 | 1215*500*751 |
| Lift height (mm) | Residual Capacity (kg), LC=600mm, with integral sideshift |              |              |              |
| ≤6000            | 2500                                                      | 2500         | 2500         | 2500         |
| 6200             | 2250                                                      | 2300         | 2350         | 2400         |
| 7400             | 1950                                                      | 2000         | 2050         | 2100         |
| 8000             | 1800                                                      | 1850         | 1900         | 1950         |
| 8600             | 1650                                                      | 1700         | 1750         | 1800         |
| 9500             | 1400                                                      | 1450         | 1500         | 1550         |
| 10200            | 1300                                                      | 1350         | 1400         | 1450         |
| 10750            | 1250                                                      | 1300         | 1350         | 1400         |
| 11100            | 1200                                                      | 1200         | 1250         | 1300         |
| 11500            | 1100                                                      | 1150         | 1200         | 1250         |
| 11700            | 1050                                                      | 1100         | 1150         | 1200         |
| 12000            | 1000                                                      | 1050         | 1100         | 1150         |
| 12500            | 850                                                       | 900          | 950          | 1000         |
| 13000            | 750                                                       | 800          | 850          | 900          |