



CQE12R

CQE15R

Electric Stacker 1.2/1.5t

EP EQUIPMENT CO.,LTD
www.ep-ep.com

FEATURE

Performance

- The innovative AC system offers strong power, accurate control, excellent performance.
- High strength vertical gearbox, longer working life.
- Low-noise but durable hydraulic unit, good quality cylinder as well as hose ensure the high reliability of hydraulic system.
- AMP connector electric wires and cables, greatly reducing electric parts failure rate.
- H shape mast channel improves the strength of the whole truck.
- Applied with electric valve on & better heat releasing systems support long time operation.

Safety

- Safe hydraulic system design prevents mast from falling down abruptly when hydraulic pipeline cuts off.
- Emergency reverse belly button protects the operator from getting hurt.
- Emergency disconnecter will cut off power source to avoid accident when truck goes out of control.
- Multiple lifting limit protection ensures safety.
- Anti-rolling back brake keeps the truck from skidding down when truck is out of control or travelling on ramp.
- Electric valve will be locked up when power is cut off.
- Dual-monitoring power steering.
- Automatically slow down speed when in turn (EPS).



Operation

- With the new design of ergonomical tiller head, all buttons can be reached conveniently & comfortably.
- Foldable platform reduces vibration which makes operator feel more comfortable.
- Compact design, flexible and operational.
- When platform is folded, truck can work at low speed in smaller space.
- Ergonomically designed safety guard with high strength feature.
- Electric proportional valve equipped as standard feature.
- Electric power steering, smooth & comfortable (EPS).



Maintenance

- AC traction motor, maintenance free.
- Hour meter and battery indicator remind the operator of battery charging.
- Easily remove the back cover by only loosening two bolts; Access to all key components for inspection, maintenance and replacement.
- Vertical motor makes the inspection & service much more convenient.
- Control system allows easy trouble-shooting.
- Low voltage lift cut off design protects the battery.



Electric Stacker 1.2t CQE12R

| Distinguishing mark | | | | |
|---------------------|---|---------------------------------|--------|-----------------------------|
| 1.1 | Manufacturer | | | EP |
| 1.2 | Model designation | | | CQE12R |
| 1.3 | Drive unit | | | Battery |
| 1.4 | Operator type | | | standing |
| 1.5 | rated capacity | Q | t | 1.2 |
| 1.6 | Load center distance | c | mm | 500 |
| 1.9 | Wheelbase | y | mm | 1310 |
| Weight | | | | |
| 2.1 | Service weight (include battery) | | kg | 1745 ^① |
| 2.2 | Axle loading, fork advanced, unladen driving side/loading side | | kg | 1052/782 |
| 2.3 | Axle loading, fork retracted, unladen driving side/loading side | | kg | 1286/539 |
| 2.4 | Axle loading, fork advanced, laden driving side/loading side | | kg | 454/2510 |
| 2.5 | Axle loading, fork retracted, laden driving side/loading side | | kg | 1110/1875 |
| Types, Chassis | | | | |
| 3.1 | Tyre type driving wheels/loading wheels | | | poly urethane/poly urethane |
| 3.2 | Tyre size, driving wheels (diameter×width) | | mm | Φ230× 75 |
| 3.3 | Tyre size, loading wheels (diameter×width) | | mm | Φ210× 85 |
| 3.4 | Tyre size, caster wheels (diameter×width) | | | Φ130× 55 |
| 3.5 | Wheels, number driving, caster/loading (x=drive wheels) | | mm | 1×2/2 |
| 3.6 | Track width, front, driving side | b ₁₀ | mm | 0 |
| 3.7 | Track width, rear, loading side | b ₁₁ | mm | 900 |
| Dimensions | | | | |
| 4.1 | Tilt of mast/fork carriage forward/backward | α/ β | ° | 2/4 |
| 4.2 | Height, mast lowered | h ₁ | mm | 2065 ^② |
| 4.3 | Free lift (load backrest) | h ₂ | mm | 0 ^② |
| 4.4 | Lift height | h ₃ | mm | 3000 ^② |
| 4.5 | Height, mast extended | h ₄ | mm | 4000 ^② |
| 4.8 | Seat height/standing height | h ₇ | mm | 150 |
| 4.10 | Height of wheel arms | h ₈ (mm) | mm | 235 |
| 4.19 | Overall length (minimum) | l ₁ | mm | 2312 ^③ |
| 4.20 | Length to face of forks | l ₂ | mm | 1242 ^③ |
| 4.21 | Overall width | b ₁ / b ₂ | mm | 850/988 |
| 4.22 | Fork dimensions | s/ e/ l | mm | 40/100/1070 |
| 4.23 | Fork carriage class/type A, B | | mm | A |
| 4.24 | Fork carriage width | b ₃ | mm | 956 |
| 4.25 | Distance between fork-arms | b ₅ | mm | 200-650 ^⑤ |
| 4.26 | Distance between wheel arms/loading surfaces | b ₄ | mm | 698 |
| 4.28 | Reach distance | l ₄ | mm | 500 ^③ |
| 4.31 | Ground clearance, laden, below mast | m ₁ | mm | 75 |
| 4.32 | The minimum ground clearance of frame | m ₂ | mm | 70 |
| 4.34.1 | Aisle width for pallets 1000 × 1200 crossways | Ast | mm | 2684 ^③ |
| 4.34.2 | Aisle width for pallets 800 × 1200 lengthways | Ast | mm | 2739 ^③ |
| 4.35 | turning radius | Wa | mm | 1597 |
| 4.37 | Length across wheel arms (exclusive fork) | l ₇ | mm | 1700 |
| Performance data | | | | |
| 5.1 | Travel speed, laden/ unladen | | km/ h | 5.5/6.0 |
| 5.2 | Lifting speed, laden/ unladen | | m/ s | 0.11/0.18 |
| 5.3 | Lowering speed, laden/ unladen | | m/ s | 0.22/0.21 |
| 5.4 | Reaching speed, laden / unladen | | m/ s | 0.08/0.10 |
| 5.8 | Max. gradeability, laden/unladen | | % | 6/10 |
| 5.10 | Service brake type | | | Electromagnetic |
| Electric-engine | | | | |
| 6.1 | Drive motor rating S2 60 min | | kW | 1.5 |
| 6.2 | Lift motor rating at S3 15% | | kW | 3 |
| 6.3 | The maximum allowed size battery | | mm | 815×208×630 |
| 6.4 | Battery voltage/nominal capacity K5 | | V/ Ah | 24/210 ^④ |
| 6.5 | Battery weight | | kg | 190 ^④ |
| Addition data | | | | |
| 8.1 | Type of drive unit | | | AC |
| 10.5 | Steering type | | | Electronic |
| 10.7 | Sound pressure level at the driver's ear | | dB (A) | 74 |

1.The parameters in the table are of the standard model. For more information please contact us.

2.The parameters are subject to change without notice.

① Service weight (include battery)

| Mast height (mm) | Service weight(kg) |
|------------------|--------------------|
| 2-stage mast | |
| 2500 | 1710 |
| 2700 | 1725 |
| 3000 | 1745 |
| 3300 | 1765 |
| 3600 | 1785 |
| 4000 | 1810 |
| 4300 | 1830 |
| 3-stage mast | |
| 3500 | 1880 |
| 4000 | 1910 |
| 4500 | 1940 |
| 4800 | 1960 |
| 5000 | 1970 |
| 5500 | 2000 |

③ Dimensions(mm)

| | | without side shift | | with side shift | |
|--|-------|--------------------|--------------|-----------------|--------------|
| | | 2-stage mast | 3-stage mast | 2-stage mast | 3-stage mast |
| Overall length(minimum) | l_1 | 2312 | 2354 | 2347 | 2389 |
| Length to face of forks | l_2 | 1242 | 1284 | 1277 | 1319 |
| Reach distance | l_4 | 490 | 450 | 450 | 415 |
| Aisle width for pallets1000*1200crossways | Ast | 2699 | 2734 | 2724 | 2761 |
| Aisle width for pallets800*1200lengthways | Ast | 2757 | 2800 | 2788 | 2831 |
| Aisle width for pallets1000*1200lengthways | Ast | 2803 | 2844 | 2833 | 2875 |
| Aisle width for pallets800*1200crossways | Ast | 2561 | 2590 | 2617 | 2612 |

④ Battery

| | standard | option | option |
|---------------------|----------|--------|--------|
| Capacity (Ah) | 210 | 280 | 360 |
| Battery weight (kg) | 190 | 230 | 300 |

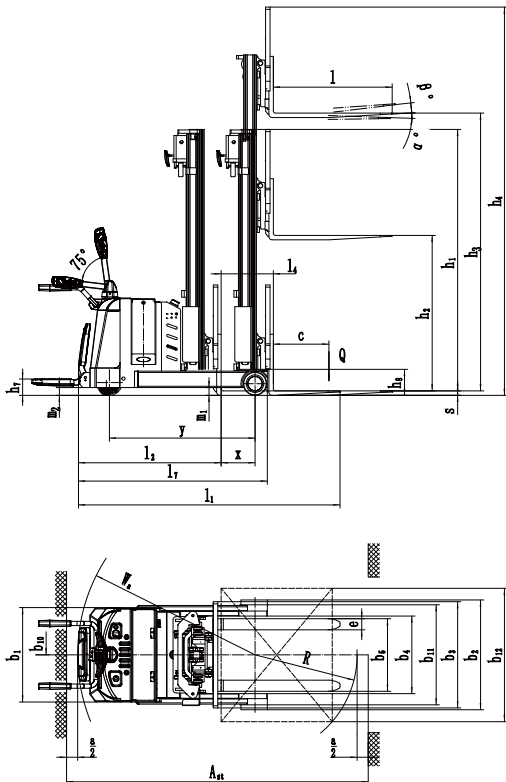
⑤

| | standard | option |
|----------------------|----------|---|
| Lateral shifter | nothing | Optional fork adjustment width is 200-570mm |
| Side pulling trolley | nothing | Optional |

② Mast

| without side shift | | | | | | with side shift | | | | | |
|--------------------|---------------------|----------------------|-------------|----------------------|---------------------|----------------------|---------------------|-------------|-------------|----------------------|-------------|
| 2-stage mast | | | | | | 2-stage mast | | | | | |
| Lift height | Lowered mast height | Extended mast height | | Lift height | Lowered mast height | Extended mast height | | | | | |
| h3 | h1 | h4 | h4(*) | h3 | h1 | h4 | h4(*) | | | | |
| 2500 | 1815 | 3500 | 3075 | 2500 | 1815 | 3525 | 3075 | | | | |
| 2700 | 1915 | 3700 | 3275 | 2700 | 1915 | 3725 | 3275 | | | | |
| 3000 | 2065 | 4000 | 3575 | 3000 | 2065 | 4025 | 3575 | | | | |
| 3300 | 2215 | 4300 | 3875 | 3300 | 2215 | 4325 | 3875 | | | | |
| 3600 | 2365 | 4600 | 4175 | 3600 | 2365 | 4625 | 4175 | | | | |
| 4000 | 2565 | 5000 | 4575 | 4000 | 2565 | 5025 | 4575 | | | | |
| 4300 | 2715 | 5300 | 4875 | 4300 | 2715 | 5325 | 4875 | | | | |
| 3-stage mast | | | | | | 3-stage mast | | | | | |
| Lift height | Lowered mast height | Free lift | | Extended mast height | | Lift height | Lowered mast height | Free lift | | Extended mast height | |
| h3 | h1 | h2 | h2(*) | h4 | h4(*) | h3 | h1 | h2 | h2(*) | h4 | h4(*) |
| 3500 | 1735 | 740 | 1165 | 4500 | 4075 | 3500 | 1735 | 715 | 1165 | 4525 | 4075 |
| 4000 | 1900 | 905 | 1330 | 5000 | 4575 | 4000 | 1900 | 880 | 1330 | 5025 | 4575 |
| 4500 | 2065 | 1070 | 1495 | 5500 | 5075 | 4500 | 2065 | 1045 | 1495 | 5100 | 5075 |
| 4800 | 2165 | 1170 | 1595 | 5800 | 5375 | 4800 | 2165 | 1145 | 1595 | 5400 | 5375 |
| 5000 | 2230 | 1235 | 1660 | 6000 | 5575 | 5000 | 2230 | 1210 | 1660 | 5600 | 5575 |
| 5500 | 2395 | 1400 | 1825 | 6500 | 6075 | 5500 | 2395 | 1375 | 1825 | 6100 | 6075 |

note: (*)for without backrest



Electric Stacker 1.5t

CQE15R

| Distinguishing mark | | | | |
|---------------------|---|---------------------------------|--------|---------------------------|
| 1.1 | Manufacturer | | | EP |
| 1.2 | Model designation | | | CQE15R |
| 1.3 | Drive unit | | | Battery |
| 1.4 | Operator type | | | standing |
| 1.5 | rated capacity | Q | t | 1.5 |
| 1.6 | Load center distance | c | mm | 500 |
| 1.9 | Wheelbase | y | mm | 1412 |
| Weight | | | | |
| 2.1 | Service weight (include battery) | | kg | 1955 ^① |
| 2.2 | Axle loading, fork advanced, unladen driving side/loading side | | kg | 1132/901 |
| 2.3 | Axle loading, fork retracted, unladen driving side/loading side | | kg | 1425/610 |
| 2.4 | Axle loading, fork advanced, laden driving side/loading side | | kg | 391/3093 |
| 2.5 | Axle loading, fork retracted, laden driving side/loading side | | kg | 1244/2237 |
| Types, Chassis | | | | |
| 3.1 | Tyre type driving w heels/loading w heels | | | polyurethane/polyurethane |
| 3.2 | Tyre size, driving w heels (diameter×width) | | mm | Φ230×75 |
| 3.3 | Tyre size, loading w heels (diameter×width) | | mm | Φ254×102 |
| 3.4 | Tyre size, caster w heels (diameter×width) | | | Φ130×55 |
| 3.5 | Wheels, number driving, caster/loading (x=drive w heels) | | mm | 1, 2, 2 |
| 3.6 | Track width, front, driving side | b ₁₀ | mm | 0 |
| 3.7 | Track width, rear, loading side | b ₁₁ | mm | 914 |
| Dimensions | | | | |
| 4.1 | Tilt of mast/fork carriage forward/backward | α/β | ° | 2/4 |
| 4.2 | Height, mast lowered | h ₁ | mm | 2065 ^② |
| 4.3 | Free lift (load backrest) | h ₂ | mm | 0 ^② |
| 4.4 | Lift height | h ₃ | mm | 3000 ^② |
| 4.5 | Height, mast extended | h ₄ | mm | 4000 ^② |
| 4.8 | Seat height/standing height | h ₇ | mm | 150 |
| 4.10 | Height of wheel arms | h ₈ (mm) | mm | 275 |
| 4.19 | Overall length (minimum) | l ₁ | mm | 2332 ^③ |
| 4.20 | Length to face of forks | l ₂ | mm | 1262 ^③ |
| 4.21 | Overall width | b ₁ / b ₂ | mm | 850/1018 |
| 4.22 | Fork dimensions | s/ e/ l | mm | 40/100/1070 |
| 4.23 | Fork carriage class/type A, B | | mm | A |
| 4.24 | Fork carriage width | b ₃ | mm | 956 |
| 4.25 | Distance between fork-arms | b ₅ | mm | 200-650 ^⑤ |
| 4.26 | Distance between wheel arms/loading surfaces | b ₄ | mm | 698 |
| 4.28 | Reach distance | l ₄ | mm | 610 ^③ |
| 4.31 | Ground clearance, laden, below mast | m ₁ | mm | 75 |
| 4.32 | The minimum ground clearance of frame | m ₂ | mm | 70 |
| 4.34.1 | Aisle width for pallets 1000 × 1200 crossways | A _{st} | mm | 2726 ^③ |
| 4.34.2 | Aisle width for pallets 800 × 1200 lengthways | A _{st} | mm | 2766 ^③ |
| 4.35 | turning radius | W _a | mm | 1697 |
| 4.37 | Length across wheel arms (exclusive fork) | l ₇ | mm | 1822 |
| Performance data | | | | |
| 5.1 | Travel speed, laden/ unladen | | km/ h | 5.5/6.0 |
| 5.2 | Lifting speed, laden/ unladen | | m/ s | 0.1/0.145 |
| 5.3 | Lowering speed, laden/ unladen | | m/ s | 0.22/0.14 |
| 5.4 | Reaching speed, laden / unladen | | m/ s | 0.07/0.08 |
| 5.8 | Max. gradeability, laden/unladen | | % | 6/10 |
| 5.10 | Service brake type | | | Electromagnetic |
| Electric-engine | | | | |
| 6.1 | Drive motor rating S2 60 min | | kW | 1.5 |
| 6.2 | Lift motor rating at S3 15% | | kW | 3 |
| 6.3 | The maximum allowed size battery | | mm | 815×208×630 |
| 6.4 | Battery voltage/nominal capacity K5 | | V/ Ah | 24/270 ^④ |
| 6.5 | Battery weight | | kg | 230 ^④ |
| Addition data | | | | |
| 8.1 | Type of drive unit | | | AC |
| 10.5 | Steering type | | | Electronic |
| 10.7 | Sound pressure level at the driver's ear | | dB (A) | 74 |

1.The parameters in the table are of the standard model. For more information, please contact us.

2.The parameters are subject to change without notice.

① Service weight (include battery)

| Mast height (mm) | Service weight(kg) |
|------------------|--------------------|
| 2-stage mast | |
| 2500 | 1920 |
| 2700 | 1935 |
| 3000 | 1955 |
| 3300 | 1975 |
| 3600 | 1995 |
| 4000 | 2010 |
| 4300 | 2040 |
| 3-stage mast | |
| 3500 | 2090 |
| 4000 | 2120 |
| 4500 | 2150 |
| 4800 | 2170 |
| 5000 | 2180 |
| 5500 | 2210 |

③ Dimensions(mm)

| | | without side shift | | with side shift | |
|--|----------|--------------------|--------------|-----------------|--------------|
| | | 2-stage mast | 3-stage mast | 2-stage mast | 3-stage mast |
| Overall length(minimum) | l_1 | 2332 | 2379 | 2367 | 2413 |
| Length to face of forks | l_2 | 1262 | 1309 | 1297 | 1344 |
| Reach distance | l_4 | 610 | 570 | 570 | 535 |
| Aisle width for pallets1000*1200crossways | A_{st} | 2726 | 2759 | 2751 | 2784 |
| Aisle width for pallets800*1200lengthways | A_{st} | 2766 | 2808 | 2797 | 2839 |
| Aisle width for pallets1000*1200lengthways | A_{st} | 2817 | 2857 | 2847 | 2886 |
| Aisle width for pallets800*1200crossways | A_{st} | 2603 | 2629 | 2622 | 2649 |

④ Battery

| | option | option |
|---------------------|--------|--------|
| Capacity (Ah) | 280 | 360 |
| Battery weight (kg) | 230 | 300 |

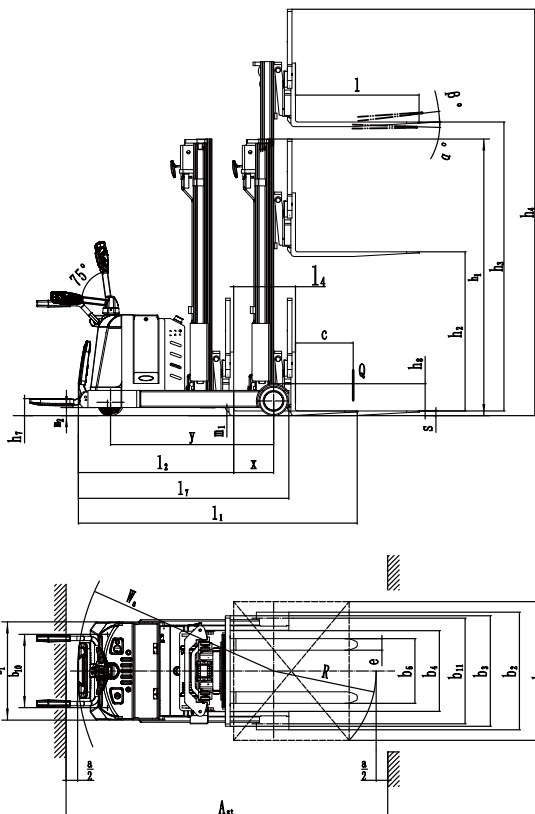
⑤

| | standard | option |
|----------------------|----------|---|
| Lateral shifter | nothing | Optional fork adjustment width is 200-570mm |
| Side pulling trolley | nothing | Optional |

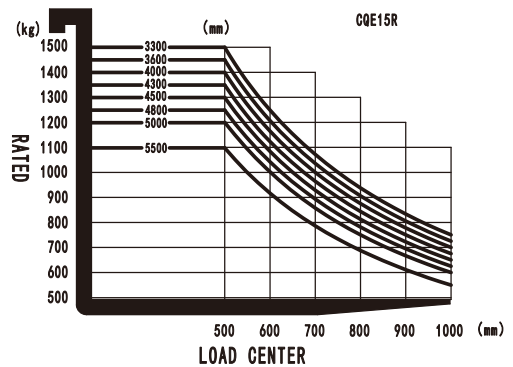
② Mast

| without side shift | | | | | | with side shift | | | | | |
|--------------------|---------------------|----------------------|----------|----------------------|---------------------|----------------------|---------------------|-------------|---------------------|----------------------|----------|
| 2-stage mast | | | | | | 2-stage mast | | | | | |
| Lift height | Lowered mast height | Extended mast height | | Lift height | Lowered mast height | Extended mast height | | Lift height | Lowered mast height | Extended mast height | |
| h_3 | h_1 | h_4 | $h_4(*)$ | h_3 | h_1 | h_4 | $h_4(*)$ | h_3 | h_1 | h_4 | $h_4(*)$ |
| 2500 | 1815 | 3500 | 3075 | 2500 | 1815 | 3525 | 3075 | 2500 | 1815 | 3525 | 3075 |
| 2700 | 1915 | 3700 | 3275 | 2700 | 1915 | 3725 | 3275 | 2700 | 1915 | 3725 | 3275 |
| 3000 | 2065 | 4000 | 3575 | 3000 | 2065 | 4025 | 3575 | 3000 | 2065 | 4025 | 3575 |
| 3300 | 2215 | 4300 | 3875 | 3300 | 2215 | 4325 | 3875 | 3300 | 2215 | 4325 | 3875 |
| 3600 | 2365 | 4600 | 4175 | 3600 | 2365 | 4625 | 4175 | 3600 | 2365 | 4625 | 4175 |
| 4000 | 2565 | 5000 | 4575 | 4000 | 2565 | 5025 | 4575 | 4000 | 2565 | 5025 | 4575 |
| 4300 | 2715 | 5300 | 4875 | 4300 | 2715 | 5325 | 4875 | 4300 | 2715 | 5325 | 4875 |
| 3-stage mast | | | | | | 3-stage mast | | | | | |
| Lift height | Lowered mast height | Free lift | | Extended mast height | | Lift height | Lowered mast height | Free lift | | Extended mast height | |
| h_3 | h_1 | h_2 | $h_2(*)$ | h_4 | $h_4(*)$ | h_3 | h_1 | h_2 | $h_2(*)$ | h_4 | $h_4(*)$ |
| 3500 | 1735 | 740 | 1165 | 4500 | 4075 | 3500 | 1735 | 715 | 1165 | 4525 | 4075 |
| 4000 | 1900 | 905 | 1330 | 5000 | 4575 | 4000 | 1900 | 880 | 1330 | 5025 | 4575 |
| 4500 | 2065 | 1070 | 1495 | 5500 | 5075 | 4500 | 2065 | 1045 | 1495 | 5100 | 5075 |
| 4800 | 2165 | 1170 | 1595 | 5800 | 5375 | 4800 | 2165 | 1145 | 1595 | 5400 | 5375 |
| 5000 | 2230 | 1235 | 1660 | 6000 | 5575 | 5000 | 2230 | 1210 | 1660 | 5600 | 5575 |
| 5500 | 2395 | 1400 | 1825 | 6500 | 6075 | 5500 | 2395 | 1375 | 1825 | 6100 | 6075 |

note: (*)for without backrest



RATED CAPACITIES GRAPH



Option

| Options | CQE15R |
|---------------------------|--------|
| driving pedal | ● |
| Electronic Power steering | ● |
| Cold storage | ○ |
| Side shift | ○ |
| Water auto-filling system | ○ |
| Proportional valve | ● |
| ● standard ○ option | |