



EFX302/322

3.0/3.2 ton Li-ion Counterbalance Forklift Truck

LI-ION
TECHNOLOGY

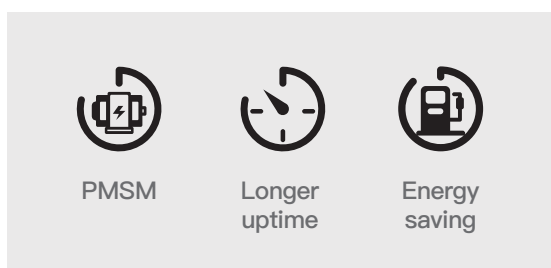
- PMSM technology for better efficiency and performance
- Removable Li-ion battery fitting multi-shift operation better
- All-rounder both for indoor and outdoor usage
- Ergonomic zone for fatigue-free work

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FEATURE

■ PMSM technology for better efficiency and performance

The EFX302/322 adopts permanent magnet synchronous motor (PMSM) technology to deliver longer battery life. This efficiency optimization motor brings better energy savings and maximizes the battery uptime at optimal working scenarios by 10% comparing to regular motors.



■ Removable Li-ion battery offering convenience for daily usage

The EFX302/322 is designed around the advantages of lithium technology, equipped with removable 80V/150Ah Li-ion battery as standard. It allows for not only opportunity charging and zero maintenance, but also being laterally pulled and replaced easily, which makes it a helper for rugged environments that lack of charging facilities.



■ All-rounder for both indoor and outdoor usage

The compact EFX series features a small turning radius, 2217mm of EFX302 and 2250mm of EFX322, and its agility ensures handling capacities in tight spaces and narrow aisles. Besides, the EFX302/322 is water-protected and can be operated outdoors, even in the rain.



■ Ergonomic zone for fatigue-free work

The EFX302/322 comes with a spacious workspace, a simplified panel, an adjustable steering wheel, and a comfortable pedal. All are designed in line with ergonomic considerations for operation comfort.



Simplified panel



Adjustable steering wheel

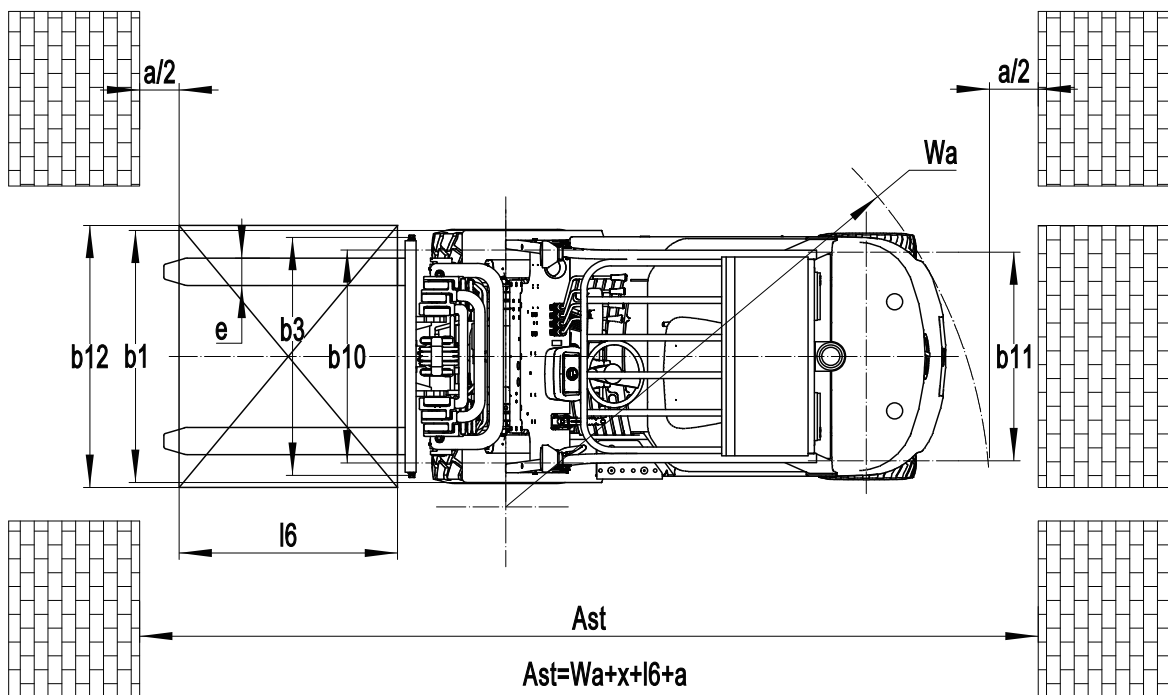
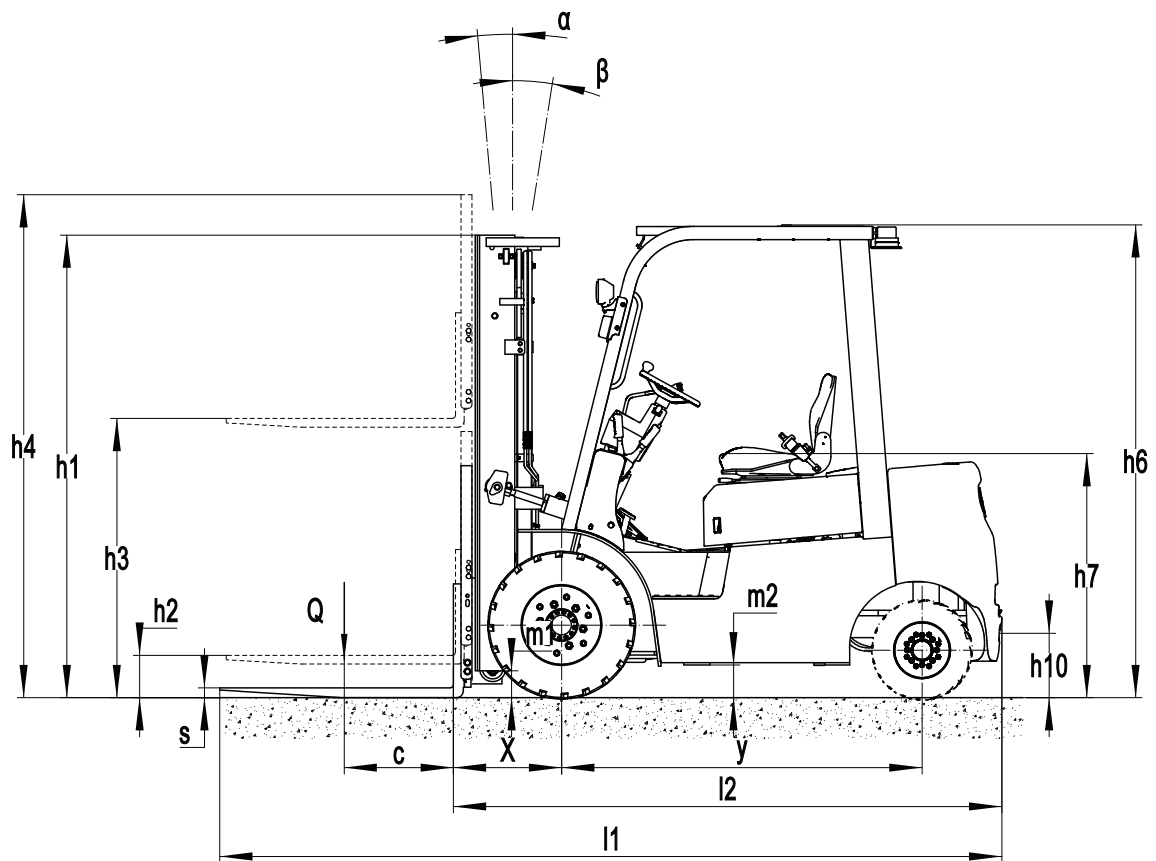


3.0/3.2 ton Li-ion Counterbalance Forklift Truck

EFX302/322

| Distinguishing mark | 1.1 | Manufacturer | | | EP | EP |
|---------------------|--------|---|-------|-------|--------------|--------------|
| | 1.2 | Model designation | | | EFX302 | EFX322 |
| | 1.3 | Drive | | | Electric | Electric |
| | 1.4 | Operator type | | | Seated | Seated |
| | 1.5 | Load capacity | Q | kg | 3000 | 3200 |
| | 1.6 | Load center distance | c | mm | 500 | 500 |
| | 1.8 | Load distance, centre of drive axle to fork | x | mm | 481 | 486 |
| | 1.9 | Wheelbase | y | mm | 1650 | 1650 |
| Service weight | 2.1 | Service weight | | kg | 4050 | 4255 |
| | 2.2 | Axle loading, laden front/rear | | kg | 6580/470 | 6925/530 |
| | 2.3 | Axle loading, unladen front/rear | | kg | 1790/2260 | 1805/2450 |
| Tyres/chassis | 3.1 | Tyre type | | | Solid rubber | Solid rubber |
| | 3.2 | Tyre size, front | | | 7.00-12 | 7.00-12 |
| | 3.3 | Tyre size, rear | | | 18X7-8 | 18X7-8 |
| | 3.5 | Wheels, number front/rear (x=drive wheels) | | mm | 2x/ 2 | 2x/ 2 |
| | 3.6 | Tread width, front | b10 | mm | 975 | 975 |
| | 3.7 | Tread width, rear | b11 | mm | 955 | 955 |
| | 4.1 | Tilt of mast/fork carriage forward/backward | α/β | ° | 6/ 10 | 6/ 10 |
| Dimensions | 4.2 | Retracted mast height | h1 | mm | 2070 | 2070 |
| | 4.3 | Free lift | h2 | mm | 135 | 135 |
| | 4.4 | Lift height | h3 | mm | 3000 | 3000 |
| | 4.5 | Height, mast extended | h4 | mm | 4095 | 4095 |
| | 4.7 | Height of overhead guard (cabin) | h6 | mm | 2170 | 2170 |
| | 4.8 | Seat height/standing height | h7 | mm | 1110 | 1110 |
| | 4.12 | Tow coupling height | h10 | mm | 295 | 295 |
| | 4.19 | Overall length | l1 | mm | 3566 | 3611 |
| | 4.20 | Length to face of forks | l2 | mm | 2496 | 2541 |
| | 4.21 | Overall width | b1/b2 | mm | 1154 | 1154 |
| | 4.22 | Fork dimensions | s/e/l | mm | 45×122×1070 | 50×122×1070 |
| | 4.23 | A,B Fork carriage class/type A, B | | | 3A | 3A |
| | 4.24 | Fork carriage width | b3 | mm | 1040 | 1040 |
| | 4.31 | Ground clearance, laden, below mast | m1 | mm | 120 | 120 |
| | 4.32 | Ground clearance, center of wheelbase | m2 | mm | 150 | 150 |
| | 4.34.1 | Aisle width for pallets 1000×1200 crossways | Ast | mm | 3898 | 3946 |
| | 4.34.2 | Aisle width for pallets 800×1200 crossways | Ast | mm | 4098 | 4146 |
| | 4.35 | Turning radius | Wa | mm | 2217 | 2250 |
| Performance data | 5.1 | Travel speed, laden/unladen | | km/h | 11/12 | 11/12 |
| | 5.2 | Lifting speed, laden/unladen | | m/s | 0.29/0.36 | 0.28/0.36 |
| | 5.3 | Lowering speed, laden/unladen | | m/s | 0.4/0.43 | 0.4/0.43 |
| | 5.5 | Drawbar pull, laden/unladen | | N | — | — |
| | 5.6 | Max. drawbar pull, laden/unladen | | N | — | — |
| | 5.8 | Max. gradeability, laden/unladen | | % | 15/15 | 15/15 |
| | 5.10 | Service brake | | | Hydraulic | Hydraulic |
| | 5.11 | Parking brake | | | Mechanical | Mechanical |
| Electric-engine | 6.1 | Drive motor rating S2 60 min | | kW | 8 | 8 |
| | 6.2 | Lift motor rating at S3 15% | | kW | 16 | 16 |
| | 6.4 | Battery voltage/nominal capacity | | V/Ah | 80V150AH | 80V150AH |
| | 6.5 | Battery weight | | kg | — | — |
| Addition data | 8.1 | Type of drive control | | | — | — |
| | 10.5 | Steering design | | | Hydraulic | Hydraulic |
| | 10.7 | Sound pressure level at the driver's ear | | dB(A) | < 74 | < 74 |

If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.



Mast Option

| Mast types | Lift height (h3) | Height, Mast | | | Height, Free lift(h2) | |
|-----------------|-----------------------|-----------------------------|---------------------------|---------------|-----------------------|---------------|
| | | Height, mast lowered(h1) | Height, mast extended(h4) | | No shelving | With shelving |
| | | | No shelving | With shelving | | |
| | mm | mm | mm | mm | mm | mm |
| 2-Standard Mast | 3000 | 2060 | 3630 | 4095 | 120 | 120 |
| | 3300 | 2210 | 3930 | 4395 | 120 | 120 |
| 3-Free Mast | 4500 | 2120 | 5130 | 5595 | 1490 | 1025 |
| | 4800 | 2220 | 5430 | 5895 | 1590 | 1125 |

Option

| No. | Optional items | EFX302 | EFX322 |
|------|------------------------------|--|--|
| 1.1 | Fork dimension | ○122*45*1070○122*45*1150○122*45*1220 ○122*45*1370○122*45*1520○122*45*1600 ○122*45*1700○122*45*1820○122*45*2000 ○122*45*2200○122*45*2400 | ○122*50*1070○122*50*1150○122*50*1220 ○122*50*1370○122*50*1520○122*50*1600 ○122*50*1700○122*50*1820○122*50*2000 ○122*50*2200○122*50*2420 |
| 1.4 | Fork carriage width | ●1040mm○Yes and can be customized | ●1040mm○Yes and can be customized |
| 1.5 | Fork carriage height | ●1095mm○Yes and can be customized | ●1095mm○Yes and can be customized |
| 2.5 | Front wheel material | ●solid○Pneumatic | ●solid○Pneumatic |
| 2.6 | Rear wheel material | ●solid○Pneumatic | ●solid○Pneumatic |
| 2.7 | Battery capacity | ●80V150AH | ●80V150AH |
| 2.8 | Charger | ○80V65A external●80V35A integrated ○80V60A integrated | ○80V65A external●80V35A integrated ○80V60A integrated |
| 2.9 | Battery indicator | ●With time | ●With time |
| 2.10 | Seat type | ○Rugular○Premium○Suspension ○Suspension + seatbelt logic switch | ○Rugular○Premium○Suspension ○Suspension + seatbelt logic switch |
| 2.11 | Attachments | ●No○Built-in sideshifter ○External shifter○Fork positioner | ●No○Built-in sideshifter ○External shifter○Fork positioner |
| 2.13 | Traction pin | ●Yes | ●Yes |
| 2.14 | Electrostatic chain | ●Yes | ●Yes |
| 3.5 | Front lamp | ●LED | ●LED |
| 3.6 | Rear lamp | ●No○LED | ●No○LED |
| 3.7 | Warning lamp | ●Yes | ●Yes |
| 3.8 | Steering lamp | ●Yes | ●Yes |
| 3.9 | Blue lamp | ●No○2 front○1 rear○2 front + 1 rear | ●No○2 front○1 rear○2 front + 1 rear |
| 3.10 | Area warning lamp | ●No○1 left + 1 right | ●No○1 left + 1 right |
| 3.11 | Rearview mirror | ●1 rearview mirror ○Add rearview mirror on both sides | ●1 rearview mirror ○Add rearview mirror on both sides |
| 3.12 | Buzzer | ●Yes | ●Yes |
| 3.17 | OPS system | ●No○Yes and not customized | ●No○Yes and not customized |
| 3.23 | Telematics | ●No○Yes and not customized | ●No○Yes and not customized |
| 4.1 | Battery side pull function | ●Yes and not customized | ●Yes and not customized |
| 4.3 | Cabin | ●No○Tempered glass overhead guard | ●No○Tempered glass overhead guard |
| 5.1 | Battery side pull attachment | ●No○Yes and not customized | ●No○Yes and not customized |

Note: ●Standard ○ Optional - Inconformity