# ECL15B/N

## Powered Stackers


### INTRODUCTION

ECL 15B/N series is an economical long-tiller pallet stacker, with the rated load capacity of 1500KG and lift height from 1600 to 3600mm, it meets customers' demands for increasing economic performance, handling efficiency and safety.

High maneuverable, economical and practical design, it can fully meets customers' demands. With compact design, its turning radius is smaller than conventional stackers, which is more suitable for small stacking warehouse operation.

- Long-tiller Design
- Capacity 1500Kg
- Easy Maintenance
- CURTIS Technology
- Powerful Battery
- Robust Design
- High Maneuverability
- Best Cost-Performance Ratio

# Highlights Presentation

## General Design


- Electrical box cover is based on long-tiller series design
- Mast is based on the existing structure design
- Hydraulic system is based on EDGE PSE12N stacker design
- Tiller is based on ECL10 tiller structure design

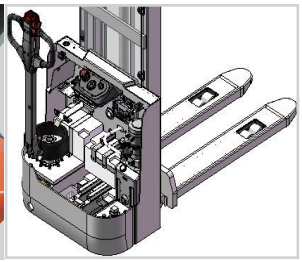
## Long-tiller design meets the requirements of ergonomics and safety

- Long-tiller design ensure the operators high efficiency and safe distance from stacker-body.
- Long-tiller stacker uses less operating force, comparedwith the short-tiller stacker.
- Height is adjustable according to operators operating habits and height preference.
- 4-wheel design with sideways long-tiller gives operators a better view to the pallet.
- The safety distance and good view makes stacking operation more efficient and faster.

Economic but durable tiller with internal structure design and plastic coating, ensures reliable and comfortable operation.
CAN-BUS technology reduces the connection number and improves system reliability.
CAN-BUS technology is convenient to check and shoot trouble, it also reduces maintenance time.
Components use digital signals has longer lifetime than those use analog signals.


CAN communication is used for all functions of the electrical system to improve the stability and consistency of performance.
Handheld programmer or computer software can make diagnosis, including troubleshooting, which makes maintenance easier than other controllers used by logistics industry.

Battery deep discharge protection device, voltage discharge indicator with low voltage automatic cutting and lifting function, for higher battery lifetime.
Proofed emergency switch and voltage discharge indicator, make it more durable and reliable.
Indicator shows faults through CAN-BUS, there is no need to remove the indicator housings.



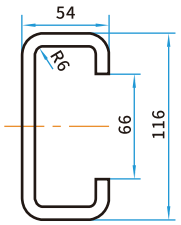
All parts of the stacker is maintenance-convenient, no need for special tools.
Built-in 8A charger.
Maintenance-free lead-acid battery, 48Vx60Ah.
48v2.2kw powerful pump system& powerful drive.


48V DC brushless motor, low energy cost, no carbon brush, no spark, smooth operation, high efficiency, low fault rate, low maintenance cost, low noise, long lifetime.

Convenient stability casters adjustment, no need for lifting the stacker.

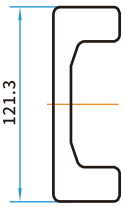
## Stability Test Record

**Cheap manufacturers**

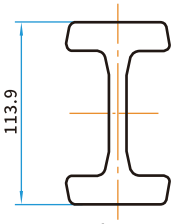



8 mm inside the edge
Wx=70.6cm³
The weight per meter14.38Kg

**Noblelift Design of Mast**

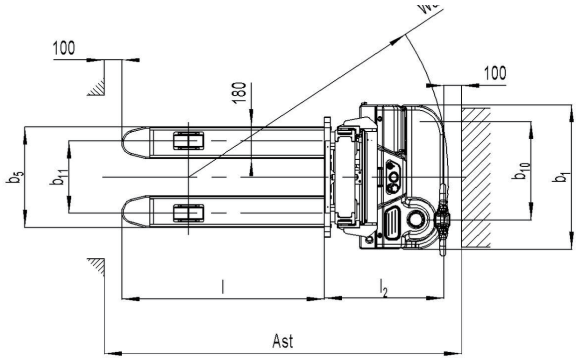


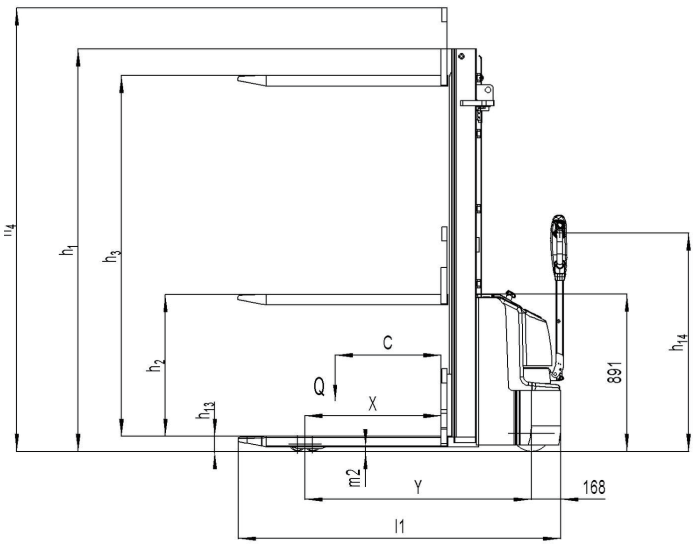

2810steel
Wx=81cm³
The weight per meter20.9Kg




3019steel
Wx=105cm³
The weight per meter25.9Kg

Solid steel channel for better stability and longer lifetime.
High stability, safety standards (GB/T10827.1: ISO1691.1), big load value at maximum lifting height.




## ECL15B/N

| Designation | Lowered mast height h1 (mm) | Free lift height h2 (mm) | Lift height h3 (mm) | Extended mast height h4 (mm) | Lift+fork height h3+h13 (mm) |
|---|---|---|---|---|---|
| One stage mast | 1978 | 1510 | 1515 | 1985 | 1600 |
| | 2378 | 1910 | 1915 | 2385 | 2000 |
| Two-stage mast | 1930 | 78 | 2815 | 3305 | 2900 |
| | 2080 | 78 | 3115 | 3605 | 3200 |
| | 2280 | 78 | 3515 | 4005 | 3600 |

## Type sheet for industrial truck acc. to VDI 2198 1KG=2.2LB 1INCH=25.4MM

| | | | | |
|---|---|---|---|---|
| **Identification** | | | | |
| 1.2 | Manufacturer`s type designation | | ECL15B/N | |
| | | | 1600 | 3600 |
| 1.3 | Drive | | Battery | |
| 1.4 | Operator type | | Pedestrian | |
| 1.5 | Load Capacity / rated load | Q (t) | 1.5 | |
| 1.6 | Load centre distance | c (mm) | 600 | |
| 1.8 | Load distance ,centre of drive axle to fork | x (mm) | 770 | |
| 1.9 | Wheelbase | y (mm) | 1258 | 1283 |
| **Weights** | | | | |
| 2.1 | Service weight | kg | 641(589)[1)] | 782(730)[1)] |
| 2.2 | Axle loading, laden front/rear | kg | 677/1464(661/1428)[1)] | 722/1560(706/1524)[1)] |
| 2.3 | Axle loading, unladen front/rear | kg | 446/195(410/179)[1)] | 544/238(507/223)[1)] |
| **Wheels、Chassis** | | | | |
| 3.1 | Tires | | Polyurethane | |
| 3.2 | Tire size,front | Øx w (mm) | Ø210×70 | |
| 3.3 | Tire size,rear | Øx w (mm) | Ø80×70 | |
| 3.4 | Additional wheels(dimensions) | Øx w (mm) | Ø100x50 | |
| 3.5 | Wheels,number front/rear(x=driven wheels) | | 1x +1/4 | |
| 3.6 | Tread, front | b10 (mm) | 557 | |
| 3.7 | Tread, rear | b11 (mm) | 410/525 | |
| **Basic Dimemsions** | | | | |
| 4.2 | Lowered mast height | h1(mm) | 1978 | 2280 |
| 4.3 | Free Lift height | h2(mm) | 1510 | 78 |
| 4.4 | Lift | h3(mm) | 1515 | 3515 |
| 4.5 | Extended maximal height | h4(mm) | 1985 | 4005 |
| 4.9 | Height of tiller in drive position min./ max. | h14 (mm) | 710/1245 | |
| 4.15 | Height, lowered | h13 (mm) | 85 | |
| 4.19 | Overall length | l1 (mm) | 1806 | 1830 |
| 4.20 | Length to face of forks | l2 (mm) | 656 | 681 |
| 4.21 | Overall width | b1 (mm) | 820 | |
| 4.22 | Fork dimensions | s/e/l (mm) | 60 / 180 / 1150 | |
| 4.25 | Width across forks | b5 (mm) | 570/685 | |
| 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 25 | |
| 4.33 | Aisle width for pallets1000X1200 crossways | Ast (mm) | 2293 | 2317 |
| 4.34 | Aisle width for pallets800X1200 lengthways | Ast (mm) | 2237 | 2261 |
| 4.35 | Turning radius | Wa (mm) | 1450 | 1474 |
| **Performance Data** | | | | |
| 5.1 | Travel speed, laden/ unladen | km/h | 4.4/4.7 | |
| 5.2 | Lift speed, laden/ unladen | m/s | 0.105/0.17 | |
| 5.3 | Lowering speed, laden/ unladen | m/s | 0.126/0.126 | |
| 5.8 | Max. gradeability, laden/ unladen | % | 5/10 | |
| 5.10 | Service brake | | Electromagnetic | |
| **E-Motor** | | | | |
| 6.1 | Drive motor rating S2 60min | kW | 0.75 | |
| 6.2 | Lift motor rating at S3 10% | kW | 2.2 | |
| 6.3 | Battery acc. to DIN 43531/ 35/ 36 A, B, C, no | | No | |
| 6.4 | Battery voltage, nominal capacity K5 | V / Ah | 4x12/64(48/50)[1)] | |
| 6.5 | Battery weight | kg | 4x20(28)[1)] | |
| 6.6 | Energy consumption acc. to VDI cycle | kWh/h | 0.5/(0.74)[1)] | |
| **Other Details** | | | | |
| 8.1 | Type of drive control | | DC | |
| 8.4 | Sound level at driver`s ear acc. to EN 12053 | dB(A) | <70 | |

1).the parameters in bracket are for ECL15N