



# EFX4-353

## LI-ION COUNTERBALANCE FORKLIFT 3500KG WITH LATERAL-SWAP BATTERY

 3500 kg    6000 mm    80 V Li-Ion



The EFX4-353 is engineered for heavy-duty logistics and high-intensity industrial environments. Its robust chassis and strong gradeability make it perfect for both indoor and outdoor usage, including slopes and uneven surfaces. Thanks to the lateral-swap battery system, this truck specifically excels in multi-shift scenarios—such as large distribution centers, manufacturing plants, and the beverage industry—where 24/7 continuous operation is required without downtime.

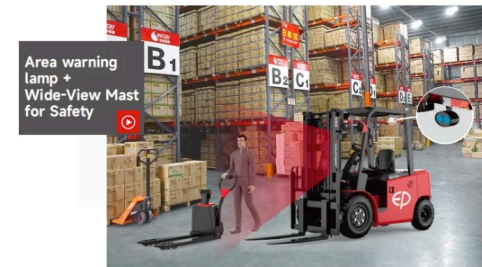
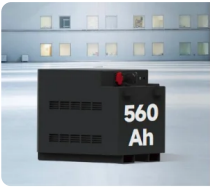
| SPECIFICATION           | REF       | UNIT | VALUE       |
|-------------------------|-----------|------|-------------|
| Manufacturer            |           |      | EP          |
| Model designation       |           |      | EFX4-353    |
| Battery voltage         |           | V    | 80          |
| Rated capacity          | Q         | kg   | 3500        |
| Load centre distance    | c         | mm   | 500         |
| Service weight          |           | kg   | 5058        |
| Height, mast lowered    | $h_1$     | mm   | 2070        |
| Lift                    | $h_3$     | mm   | 3000        |
| Height, mast extended   | $h_4$     | mm   | 4130        |
| Overall length          | $l_1$     | mm   | 3735        |
| Overall width           | $b_1/b_2$ | mm   | 1228        |
| Length to face of forks | $l_2$     | mm   | 2665        |
| Fork dimensions         | s/e/l     | mm   | 50×122×1070 |
| Turning radius          | Wa        | mm   | 2428        |
| Drive                   |           |      | Electric    |
| Operator type           |           |      | Seated      |

# Features

## Lateral Battery Swap for Extended Runtime

Extended Runtime: Long-lasting 560Ah lithium battery meets high-intensity and long-time operations.

Lateral Battery Swap: The lateral battery swap design boosts efficiency and minimizes truck downtime.



## Optimized Ergonomics for Greater Comfort

- OPS system for enhanced safety.
- A wide-view mast design reduces blind spots and improves safety.
- Informative LED display
- Rear grab handle with a horn button for more convenient operation.
- The large foot brake pedal is designed for fatigue-free operation.

## Robust Design for High-Intensity Conditions

Improved performance for high-intensity and heavy-duty environments

- Max travel speed: 17 km/h
- Max gradeability: 25%
- Lifting speed (laden/unladen) : 0.37/0.51m/s



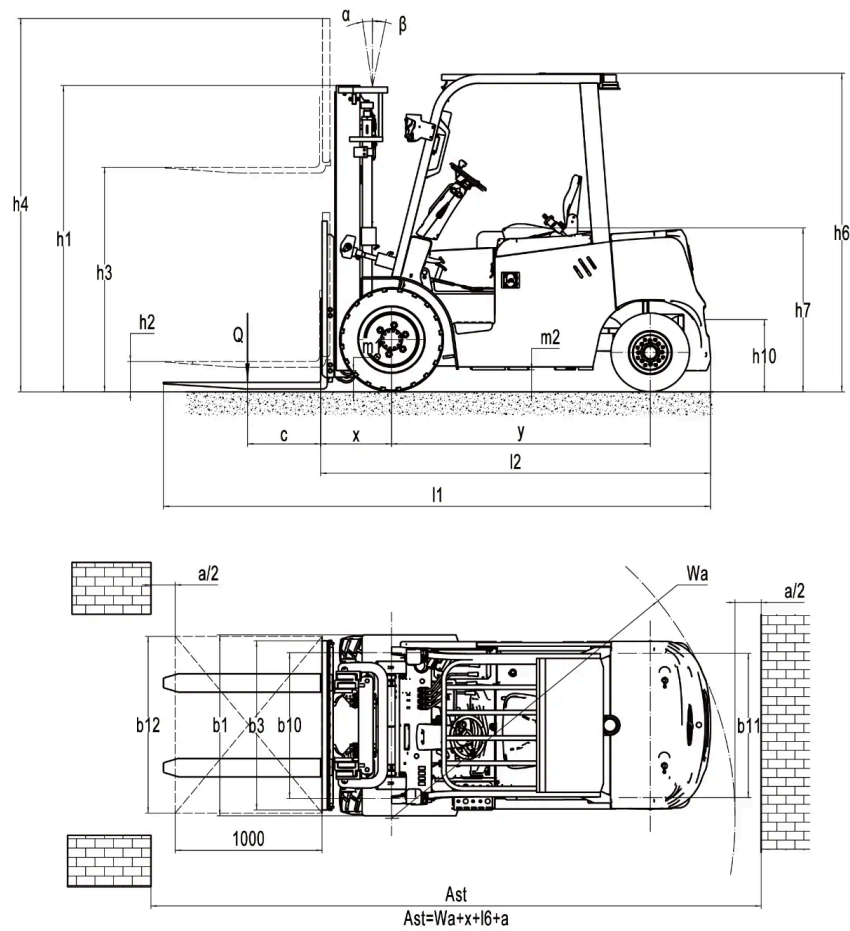
# VDI Chart

| SPECIFICATION |                                             | REF | UNIT | VALUE    |
|---------------|---------------------------------------------|-----|------|----------|
| 1.1           | Manufacturer                                |     |      | EP       |
| 1.2           | Model designation                           |     |      | EFX4-353 |
| 1.3           | Drive                                       |     |      | Electric |
| 1.4           | Operator type                               |     |      | Seated   |
| 1.5           | Rated capacity                              | Q   | kg   | 3500     |
| 1.6           | Load centre distance                        | c   | mm   | 500      |
| 1.8           | Load distance, centre of drive axle to fork | x   | mm   | 486      |

|        | SPECIFICATION                                 | REF                            | UNIT | VALUE        |
|--------|-----------------------------------------------|--------------------------------|------|--------------|
| 1.9    | Wheelbase                                     | y                              | mm   | 1760         |
| 2.1    | Service weight                                |                                | kg   | 5058         |
| 2.2    | Axle loading, laden front/rear                |                                | kg   | 7705/853     |
| 2.3    | Axle loading, unladen front/rear              |                                | kg   | 2244/2814    |
| 3.1    | Tyres                                         |                                |      | Pneumatic    |
| 3.2    | Tyre size, front                              |                                | mm   | 28X9-15-14PR |
| 3.3    | Tyre size, rear                               |                                | mm   | 6.50-10-10PR |
| 3.5    | Wheels, number front/rear (x=drive wheels)    |                                |      | 2x/2         |
| 3.6    | Tread width, front                            | b <sub>10</sub>                | mm   | 989          |
| 3.7    | Tread width, rear                             | b <sub>11</sub>                | mm   | 980          |
| 4.1    | Tilt of mast/fork carriage forward/backward   | $\alpha/\beta$                 | °    | 6/10         |
| 4.2    | Height, mast lowered                          | h <sub>1</sub>                 | mm   | 2070         |
| 4.3    | Free lift                                     | h <sub>2</sub>                 | mm   | 130          |
| 4.4    | Lift                                          | h <sub>3</sub>                 | mm   | 3000         |
| 4.5    | Height, mast extended                         | h <sub>4</sub>                 | mm   | 4130         |
| 4.7    | Height of overhead guard (cabin)              | h <sub>6</sub>                 | mm   | 2143         |
| 4.8    | Seat height relating to SIP/stand height      | h <sub>7</sub>                 | mm   | 1141         |
| 4.12   | Coupling height                               | h <sub>10</sub>                | mm   | 468          |
| 4.19   | Overall length                                | l <sub>1</sub>                 | mm   | 3735         |
| 4.20   | Length to face of forks                       | l <sub>2</sub>                 | mm   | 2665         |
| 4.21   | Overall width                                 | b <sub>1</sub> /b <sub>2</sub> | mm   | 1228         |
| 4.22   | Fork dimensions                               | s/e/l                          | mm   | 50×122×1070  |
| 4.23   | Fork carriage ISO 2328, class/type A, B       |                                |      | 3A           |
| 4.24   | Fork carriage width                           | b <sub>3</sub>                 | mm   | 1100         |
| 4.31   | Ground clearance, laden, below mast           | m <sub>1</sub>                 | mm   | 125          |
| 4.32   | Ground clearance, centre of wheelbase         | m <sub>2</sub>                 | mm   | 130          |
| 4.34.1 | Aisle width for pallets 1000×1200 crossways   | Ast                            | mm   | 4115         |
| 4.34.2 | Aisle width for pallets 800 × 1200 lengthways | Ast                            | mm   | 4315         |
| 4.35   | Turning radius                                | Wa                             | mm   | 2428         |
| 5.1    | Travel speed, laden/unladen                   |                                | km/h | 16/17        |
| 5.2    | Lift speed, laden/unladen                     |                                | m/s  | 0.37/0.51    |
| 5.3    | Lowering speed, laden/unladen                 |                                | m/s  | 0.41/0.44    |
| 5.8    | Max. gradeability, laden/unladen              |                                | %    | 18/25        |
| 5.10   | Service brake                                 |                                |      | Hydraulic    |

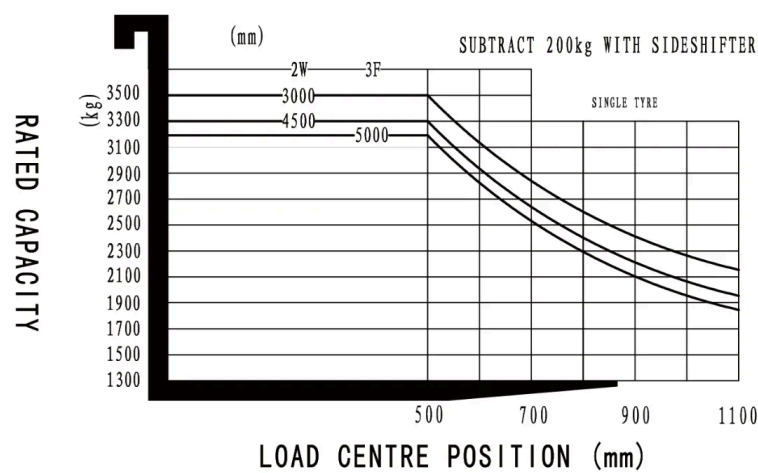
| SPECIFICATION |                                           | REF | UNIT  | VALUE      |
|---------------|-------------------------------------------|-----|-------|------------|
| 5.11          | Parking brake                             |     |       | Mechanical |
| 6.1           | Drive motor rating S2 60 min              |     | kW    | 16         |
| 6.2           | Lift motor rating at S3 15%               |     | kW    | 30         |
| 6.4.1         | Battery voltage                           |     | V     | 80         |
| 6.4.2         | Battery nominal capacity K5               |     | Ah    | 560        |
| 6.4.3         | Battery type                              |     |       | Li-Ion     |
| 6.5           | Battery weight                            |     | kg    | 439        |
| 8.1           | Type of drive unit                        |     |       | AC+PMSM    |
| 10.1          | Operating pressure for attachments        |     | bar   | 180        |
| 10.2          | Oil volume for attachments                |     | ℓ/min | 35         |
| 10.5          | Steering design                           |     |       | Hydraulic  |
| 10.7          | Sound pressure level at the driver's seat |     | dB(A) | < 74       |

Subject to modification of specifications and designs without prior notice as part of continuous product improvement. Images and technical data shown may include optional features and are provided for reference only. All dimensions are subject to standard manufacturing tolerances.



EFX4-353

RATED CAPACITIES AND LOAD CENTERES GRAPH



# Mast Options

| MAST TYPE       | LIFT HEIGHT (H3, MM) | MAST LOWERED HEIGHT (H1, MM) | MAST EXTENDED HEIGHT, NO BACKREST (H4, MM) | MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM) | FREE LIFT HEIGHT, NO BACKREST (H2, MM) | FREE LIFT HEIGHT, WITH BACKREST (H2, MM) |
|-----------------|----------------------|------------------------------|--------------------------------------------|----------------------------------------------|----------------------------------------|------------------------------------------|
| 2-Standard Mast | 3000                 | 2065                         | 3665                                       | 4130                                         | 135                                    | 135                                      |
| 2-Standard Mast | 3300                 | 2215                         | 3965                                       | 4430                                         | 135                                    | 135                                      |
| 2-Standard Mast | 3500                 | 2315                         | 4165                                       | 4630                                         | 135                                    | 135                                      |
| 2-Standard Mast | 3600                 | 2365                         | 4265                                       | 4730                                         | 135                                    | 135                                      |
| 2-Standard Mast | 4000                 | 2615                         | 4665                                       | 5130                                         | 135                                    | 135                                      |
| 2-Standard Mast | 4500                 | 2865                         | 5165                                       | 5630                                         | 135                                    | 135                                      |
| 2-Free Mast     | 3000                 | 2045                         | 3715                                       | 4175                                         | 1410                                   | 950                                      |
| 2-Free Mast     | 3300                 | 2195                         | 4015                                       | 4475                                         | 1560                                   | 1100                                     |
| 2-Free Mast     | 3600                 | 2345                         | 4315                                       | 4775                                         | 1710                                   | 1250                                     |
| 3-Free Mast     | 4300                 | 2080                         | 5030                                       | 5435                                         | 1390                                   | 985                                      |
| 3-Free Mast     | 4500                 | 2160                         | 5220                                       | 5625                                         | 1470                                   | 1065                                     |
| 3-Free Mast     | 4800                 | 2265                         | 5520                                       | 5925                                         | 1575                                   | 1170                                     |
| 3-Free Mast     | 5000                 | 2350                         | 5720                                       | 6125                                         | 1660                                   | 1255                                     |
| 3-Free Mast     | 5500                 | 2600                         | 6220                                       | 6625                                         | 1910                                   | 1505                                     |
| 3-Free Mast     | 6000                 | 2850                         | 6720                                       | 7125                                         | 2160                                   | 1755                                     |

# Options

| ITEM                 | OPTIONS (optional items marked in yellow)                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fork dimension       | 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 |
| Front wheel material | Pneumatic   Normal solid   Non-marking solid                                                                                                            |
| Rear wheel material  | Pneumatic   Normal solid   Non-marking solid                                                                                                            |
| Battery capacity     | 80V/560AH                                                                                                                                               |
| Charger              | 80V-60A External charger   80V100A External charger   80V150A External charger   80V200A External charger                                               |

| ITEM                                           | OPTIONS (optional items marked in yellow)                                         |
|------------------------------------------------|-----------------------------------------------------------------------------------|
| Battery indicator                              | With hourmeter (Bluetooth) without ESP                                            |
| Seat type                                      | Comfortable   Regular   Suspension   Suspension with armrest                      |
| Attachments                                    | No   Built-in sideshifter   External sideshifter   Fork positioner with sideshift |
| Traction pin                                   | Yes and not customized                                                            |
| Electrostatic chain                            | Yes and not customized                                                            |
| Front lamp                                     | LED                                                                               |
| Rear lamp                                      | No   LED                                                                          |
| Warning lamp                                   | Yes and not customized                                                            |
| Steering lamp                                  | LED                                                                               |
| Blue lamp                                      | No   Rear   Front and rear                                                        |
| Area warning lamp                              | No   Both sides   Both sides and rear                                             |
| Rearview mirror                                | One in front   Two on sides and one in front                                      |
| Buzzer                                         | Yes and not customized                                                            |
| OPS system                                     | Yes and not customized                                                            |
| USB interface                                  | No   Yes and not customized                                                       |
| Telematics                                     | Yes and not customized                                                            |
| Cabin                                          | No                                                                                |
| Overhead guard                                 | No   With tempered glass                                                          |
| Clamp interlock                                | No                                                                                |
| Turn speed control                             | No                                                                                |
| Heating system during lithium battery charging | No   Yes and not customized                                                       |
| Operator identification device                 | No   Card reader   Fingerprint lock                                               |
| Lifting electronic limit                       | No   Yes and not customized                                                       |
| Hydraulic system operating mode                | Mechanical lever                                                                  |
| Rear armrest horn                              | Yes and not customized                                                            |
| Lifting and lowering function                  | Proportional lifting                                                              |
| Windshield washer system                       | No                                                                                |