



# EFX5-251

## ELECTRIC COUNTERBALANCE FORKLIFT TRUCK 2.5T

2500 kg 6000 mm 80 V



The X5 Series is ideal for medium to heavy-duty operations, from manufacturing and construction to logistics centers and outdoor yards. Its pneumatic tires, 150 mm ground clearance, and sealed electrical components enable smooth, safe operation even on uneven or unpaved surfaces. The modular Li-ion battery system allows companies to expand energy capacity from 280Ah to 560Ah, adapting to single-shift, multi-shift, or seasonal high-demand applications without changing the truck setup.

| SPECIFICATION                               | REF       | UNIT | VALUE       |
|---|-----------|------|-------------|
| Battery nominal capacity                    |           | Ah   | 280         |
| Battery voltage                             |           | V    | 80          |
| Load capacity                               | Q         | kg   | 2500        |
| Load centre distance                        | c         | mm   | 500         |
| Service weight                              |           | kg   | 3835        |
| Retracted mast height                       | $h_1$     | mm   | 2090        |
| Lift height                                 | $h_3$     | mm   | 3000        |
| Height, mast extended                       | $h_4$     | mm   | 4065        |
| Overall length                              |           | mm   | 3590        |
| Overall width                               | $b_1/b_2$ | mm   | 1154        |
| Length to face of forks                     | l2        | mm   | 2520        |
| Fork dimensions                             | s/e/l     | mm   | 40×122×1070 |
| Turning radius                              |           | Wa   | 2270        |
| Operator type                               |           |      | Seated      |
| Load distance, centre of drive axle to fork |           | mm   | 495         |
| Wheelbase                                   |           | mm   | 1685        |

# Features

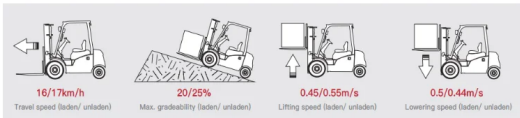
## Modular Li-ion battery system for maximum flexibility

The X5 Series introduces a modular battery architecture, allowing operators to install one or two battery modules depending on workload intensity. Each 80V/280Ah unit can be combined to achieve 560Ah total capacity, offering long runtime and seamless power management. This flexibility supports 24/7 operations and makes the X5 adaptable to evolving user needs over time



## High performance for productivity boost

Delivering travel speeds up to 17 km/h, lifting speeds up to 0.55 m/s, and gradeability up to 25%, the X5 ensures fast, efficient handling comparable to traditional IC forklifts. Its lithium technology guarantees consistent performance and fast recovery through opportunity charging, enabling maximum uptime in fast-paced operations.



## All-terrain capability with 150 mm ground clearance

With pneumatic tires and 150 mm ground clearance, the X5 Series effortlessly manages ramps, potholes, and rough surfaces. The robust undercarriage prevents chassis damage and ensures reliable mobility across mixed terrains, making it a dependable solution for both warehouse and outdoor logistics.



## Operator comfort and improved components

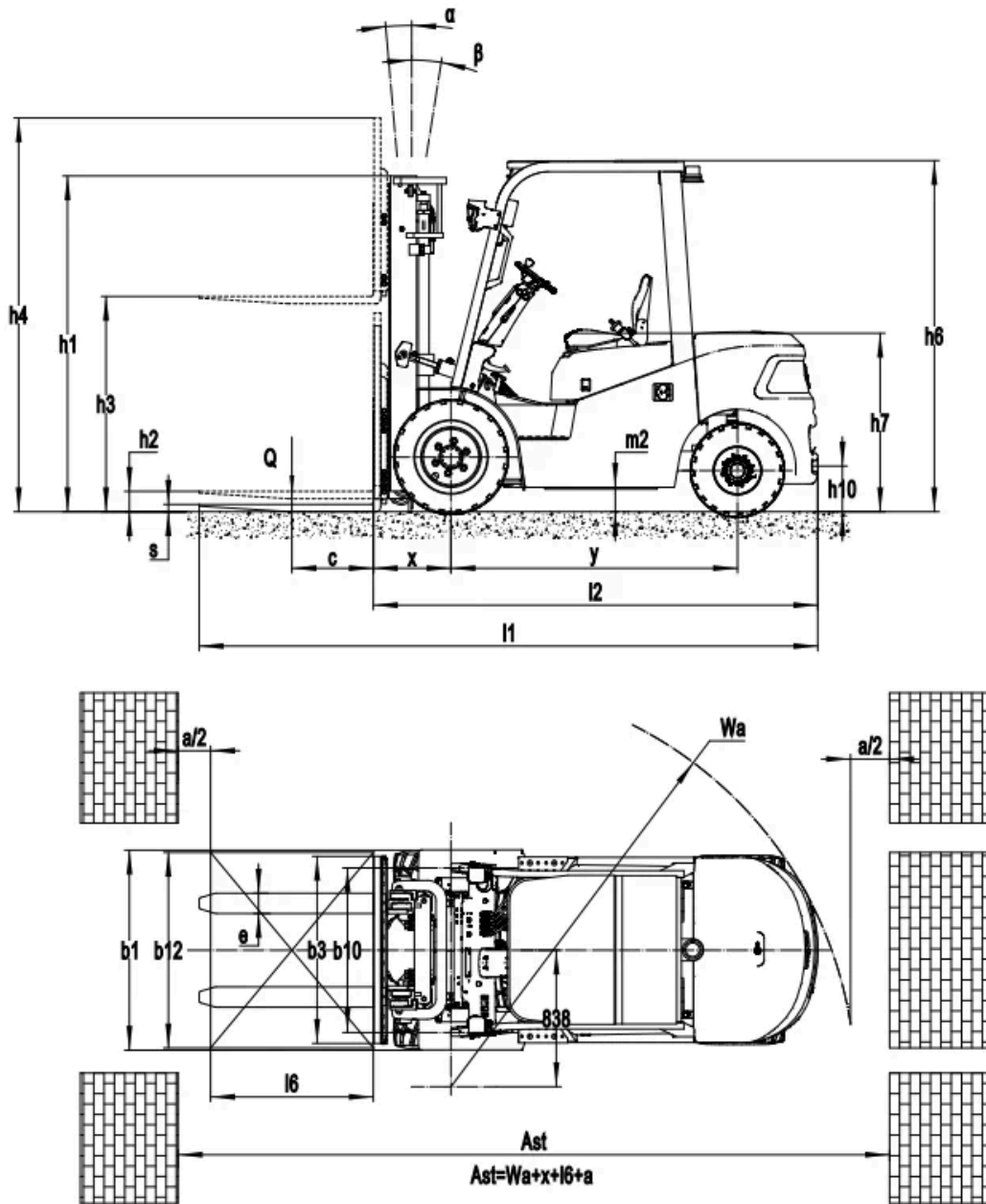
The X5 prioritizes operator safety and comfort with a redesigned cabin, high-visibility mast, ergonomic seat with armrest, wide brake pedal, and large LED display. Enhanced LED front lighting and improved hydraulic controls offer excellent visibility and smooth, precise operation throughout the workday.



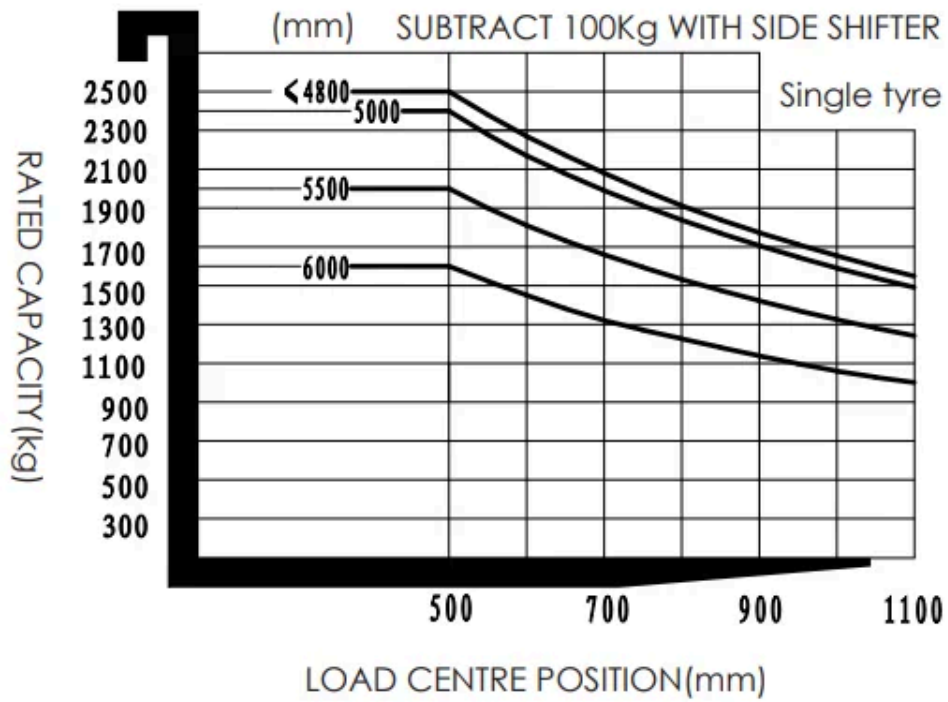
# VDI Chart

|        | SPECIFICATION                               | REF       | UNIT | VALUE        |
|--------|---|-----------|------|--------------|
| 1.4    | Operator type                               |           |      | Seated       |
| 1.5    | Load capacity                               | Q         | kg   | 2500         |
| 1.6    | Load centre distance                        | c         | mm   | 500          |
| 1.8    | Load distance, centre of drive axle to fork |           | mm   | 495          |
| 1.9    | Wheelbase                                   |           | mm   | 1685         |
| 2.1    | Service weight                              |           | kg   | 3835         |
| 2.2    | Axle loading, laden front/rear              |           | kg   | 5679/656     |
| 2.3    | Axle loading, unladen front/rear            |           | kg   | 1711/2124    |
| 3.1    | Tyre type                                   |           |      | Pneumatic    |
| 3.2    | Tyre size, front                            |           | mm   | 7.00-12-12PR |
| 3.3    | Tyre size, rear                             |           | mm   | 18X7-8-14PR  |
| 3.5    | Wheels, number front/rear (x=drive wheels)  |           |      | 2x/2         |
| 3.6.1  | Tread width, front                          | $b_{10}$  | mm   | 975          |
| 3.7.1  | Tread width, rear                           | $b_{11}$  | mm   | 955          |
| 4.0    | Max lift height                             | H         | mm   | 6000         |
| 4.1    | Tilt of mast/fork carriage forward/backward |           | °    | 6/10         |
| 4.12   | Tow coupling height                         |           | mm   | 315          |
| 4.19   | Overall length                              |           | mm   | 3590         |
| 4.2    | Retracted mast height                       | $h_1$     | mm   | 2090         |
| 4.2.1  | Overall height                              |           |      | 4065         |
| 4.20   | Length to face of forks                     | l2        | mm   | 2520         |
| 4.21   | Overall width                               | $b_1/b_2$ | mm   | 1154         |
| 4.22   | Fork dimensions                             | s/e/l     | mm   | 40×122×1070  |
| 4.23   | A,B Fork carriage class/type A, B           |           |      | 2A           |
| 4.24   | Fork carriage width                         |           | mm   | 1040         |
| 4.3    | Free lift                                   |           | mm   | 195          |
| 4.31   | Ground clearance, laden, below mast         |           | mm   | 100          |
| 4.32   | Ground clearance, centre of wheelbase       |           | mm   | 150          |
| 4.34.1 | Aisle width for pallets 1000×1200 crossways |           | Ast  | 3965         |
| 4.34.2 | Aisle width for pallets 800×1200 lengthways |           | Ast  | 4165         |
| 4.35   | Turning radius                              |           | Wa   | 2270         |
| 4.4    | Lift height                                 | $h_3$     | mm   | 3000         |

|      | SPECIFICATION                                | REF   | UNIT  | VALUE             |
|------|--|-------|-------|-------------------|
| 4.5  | Height, mast extended                        | $h_4$ | mm    | 4065              |
| 4.7  | Height of overhead guard (cabin)             |       | mm    | 2165              |
| 4.8  | Seat height/standing height                  |       | mm    | 1095              |
| 5.1  | Travel speed, laden/unladen                  |       | km/h  | 16/17             |
| 5.10 | Service brake                                |       |       | Hydraulic         |
| 5.11 | Parking brake                                |       |       | Mechanical        |
| 5.2  | Lifting speed, laden/unladen                 |       | m/s   | 0.38/0.45         |
| 5.3  | Lowering speed, laden/unladen                |       | m/s   | 0.54/0.56         |
| 5.8  | Max. gradeability, laden/unladen             |       | %     | 17/25             |
| 6.1  | Drive motor rating S2 60 min                 |       | kW    | 16                |
| 6.2  | Lift motor rating at S3 15%                  |       | kW    | 24                |
| 6.4  | Battery nominal capacity                     |       | Ah    | 280               |
| 6.4  | Battery voltage                              |       | V     | 80                |
| 6.6  | Energy consumption according to DIN EN 16796 |       | kWh/h | 7.7 <sup>1)</sup> |
| 6.7  | Turnover output according to VDI 2198        |       |       | 6.85              |
| 6.8  | Turnover efficiency according to VDI 2198    |       |       | 21.9              |
| 8.1  | Type of drive control                        |       |       | AC                |
| 10.5 | Steering design                              |       |       | Hydraulic         |
| 10.7 | Sound pressure level at the drivers ear      |       | dB(A) | <74               |



## RATED CAPACITIES AND LOAD CENTERS GRAPH



## Mast Options

| MAST TYPE       | LIFT HEIGHT (H3, MM) | MAST LOWERED HEIGHT (H1, MM) | HEIGHT, MAST EXTENDED, NO SHELVING (H4, MM) | HEIGHT, MAST EXTENDED, WITH SHELVING (H4, MM) | HEIGHT, FREE LIFT, NO SHELVING (H2, MM) | HEIGHT, FREE LIFT, WITH SHELVING (H2, MM) |
|-----------------|----------------------|------------------------------|---|---|---|---|
| 2-Standard Mast | 3000                 | 2090                         | 3595  | 4060  | 195                                     | 195                                       |
| 2-Standard Mast | 3300                 | 2240                         | 3895  | 4360  | 195                                     | 195                                       |
| 2-Standard Mast | 3500                 | 2340                         | 4095  | 4560  | 195                                     | 195                                       |
| 2-Standard Mast | 3600                 | 2390                         | 4195  | 4660  | 195                                     | 195                                       |
| 2-Standard Mast | 4000                 | 2640                         | 4595  | 5060  | 195                                     | 195                                       |
| 2-Standard Mast | 4500                 | 2890                         | 5095  | 5560  | 195                                     | 195                                       |
| 2-Free Mast     | 3000                 | 2035                         | 3765  | 4100  | 1345                                    | 1010                                      |
| 2-Free Mast     | 3300                 | 2185                         | 4065  | 4400  | 1495                                    | 1160                                      |
| 2-Free Mast     | 3600                 | 2335                         | 4365  | 4700  | 1645                                    | 1310                                      |
| 3-Free Mast     | 4300                 | 2080                         | 5040  | 5355  | 1370                                    | 1055                                      |
| 3-Free Mast     | 4500                 | 2160                         | 5280  | 5595  | 1450                                    | 1240                                      |
| 3-Free Mast     | 4800                 | 2265                         | 5580  | 5895  | 1555                                    | 1325                                      |

| MAST TYPE   | LIFT HEIGHT (H3, MM) | MAST LOWERED HEIGHT (H1, MM) | HEIGHT, MAST EXTENDED, NO SHELVING (H4, MM) | HEIGHT, MAST EXTENDED, WITH SHELVING (H4, MM) | HEIGHT, FREE LIFT, NO SHELVING (H2, MM) | HEIGHT, FREE LIFT, WITH SHELVING (H2, MM) |
|-------------|----------------------|------------------------------|---|---|---|---|
| 3-Free Mast | 5000                 | 2350                         | 5730  | 6045  | 1640                                    | 1325                                      |
| 3-Free Mast | 5500                 | 2600                         | 6230  | 6545  | 1890                                    | 1575                                      |
| 3-Free Mast | 6000                 | 2850                         | 6730  | 7045  | 2140                                    | 1825                                      |

## Options

| ITEM   | OPTIONS (optional items marked in yellow)  |
|--|--|
| Fork dimension                                 | 122*40*1070   122*40*920   122*40*1150   122*40*1220   122*40*1370   122*40*1500   122*40*1600   122*40*1700   122*40*1820   122*40*1900   122*40*2000   122*40*2200 |
| Seat type                                      | Comfortable + safety belt switch   Seat with armrest with safety belt switch   Suspension + safety belt switch   |
| Attachments                                    | Built-in sideshifter   External shifter   Fork positioner with sideshift   Clamp   |
| Traction pin                                   | Yes and not customized   |
| Front wheel material                           | Pneumatic   Normal solid   Traceless solid   |
| Rear wheel material                            | Pneumatic   Normal solid   Traceless solid   |
| Battery capacity                               | 80V280AH   80V560AH  |
| Charger  | 80V35A integrated   80V60A integrated   80V60A◦80V100A   80V150A   80V200A (560AH)   |
| Battery display indicator (BDI)                | With time Bluetooth without PSE  |
| Area warning lamp                              | No   Both side   Both side and rear  |
| Rearview mirror                                | One in front   Two on sides   Two on side and one in front   |
| Buzzer   | Yes and not customized   |
| OPS system                                     | Yes and not customized   |
| USB interface                                  | USB with A and C type  |
| Telematics                                     | Yes and not customized   No  |
| Front lamp                                     | LED  |
| Blue lamp                                      | No   Rear   Front and rear   |
| Cabin  | No   Basic half cabin   Upgrade half cabin   Full cabin  |
| Overhead guard                                 | With tempered glass   No   |
| Heating system during lithium battery charging | No   Yes and not customized  |

| ITEM                           | OPTIONS (optional items marked in yellow) |
|--------------------------------|---|
| Operator identification device | No   Card reader                          |
| Lifting electronic limit       | No   Yes and not customized               |
| Hydraulic control              | Mechanical lever   Joystick   Fingertip   |
| Rear armrest horn              | Yes and not customized                    |