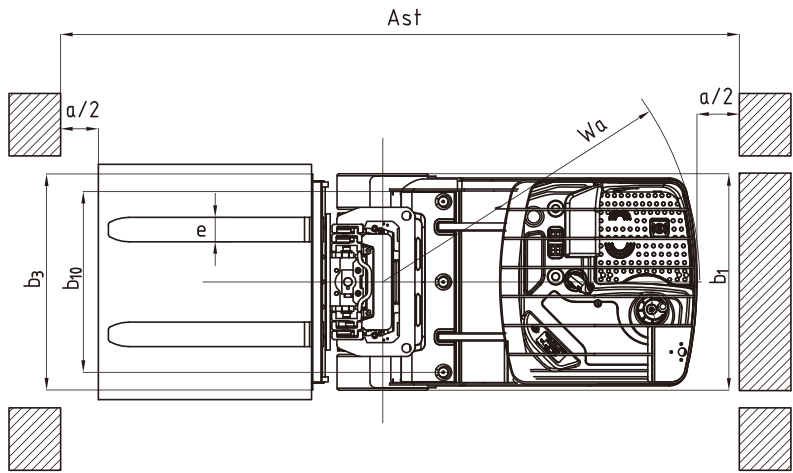
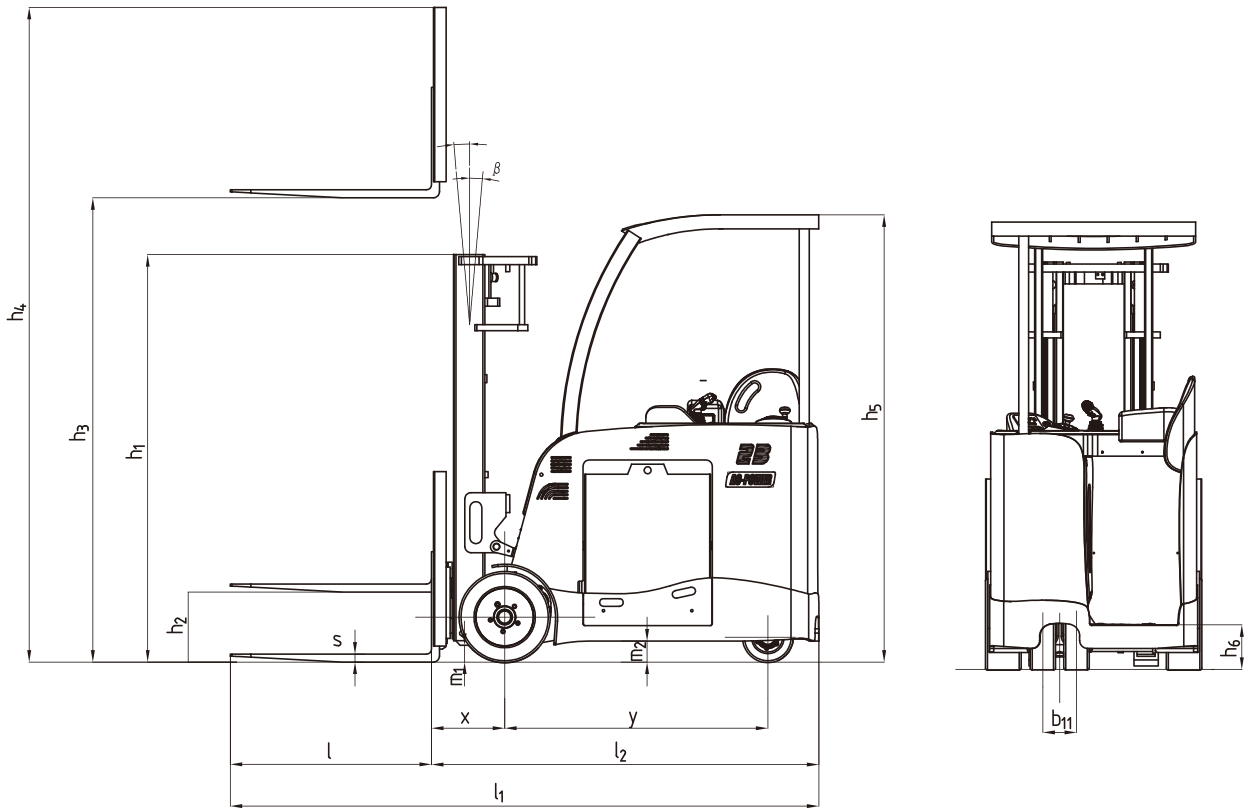


3,000-5,000lb Mast

| Type                              | Model | Lifting Height | Lowered Height | Overall Height |                  | Free Lifting Height |                  | Tilting Range |          | Capacity           |         |         |         |
|-----------------------------------|-------|----------------|----------------|----------------|------------------|---------------------|------------------|---------------|----------|--------------------|---------|---------|---------|
|                                   |       |                |                | With Backrest  | Without Backrest | With Backrest       | Without Backrest | Forward       | Backward | Load Center at 24" |         |         |         |
|                                   |       |                |                | in             | in               | in                  | in               | deg           | deg      | 3000lbs            | 3500lbs | 4000lbs | 5000lbs |
| Limited Free Lift<br>2 Stage Mast | M270  | 106            | 72             | 144            | 127              | 6.3                 | 6.3              | 5             | 5        | 3000               | 3500    | 4000    | 5000    |
|                                   | M300  | 118            | 78             | 156            | 139              | 6.3                 | 6.3              | 5             | 5        | 3000               | 3500    | 4000    | 5000    |
|                                   | M330  | 130            | 84             | 168            | 151              | 6.3                 | 6.3              | 5             | 5        | 3000               | 3500    | 4000    | 5000    |
|                                   | M360  | 142            | 92             | 179            | 163              | 6.3                 | 6.3              | 5             | 5        | 3000               | 3500    | 4000    | 5000    |
|                                   | M400  | 157            | 102            | 195            | 179              | 6.3                 | 6.3              | 5             | 5        | 3000               | 3500    | 4000    | 5000    |
|                                   | M430  | 169            | 107            | 207            | 190              | 6.3                 | 6.3              | 3.5           | 5        | 3000               | 3500    | 4000    | 5000    |
| Full Free Lift<br>2 Stage Mast    | U270  | 106            | 72             | 144            | 131              | 31                  | 44               | 5             | 5        | 3000               | 3500    | 4000    | 5000    |
|                                   | U300  | 118            | 78             | 155            | 143              | 41                  | 53               | 5             | 5        | 3000               | 3500    | 4000    | 5000    |
|                                   | U330  | 130            | 84             | 167            | 154              | 47                  | 59               | 5             | 5        | 3000               | 3500    | 4000    | 5000    |
|                                   | U360  | 142            | 90             | 179            | 166              | 53                  | 65               | 5             | 5        | 3000               | 3500    | 4000    | 5000    |
|                                   | U400  | 157            | 100            | 195            | 182              | 62                  | 75               | 5             | 5        | 3000               | 3500    | 4000    | 5000    |
|                                   | N400  | 157            | 74             | 195            | 182              | 37                  | 50               | 3.5           | 5        | 3000               | 3500    | 4000    | 5000    |
| Full Free Lift<br>3 Stage Mast    | N430  | 169            | 78             | 206            | 194              | 41                  | 53               | 3.5           | 5        | 3000               | 3500    | 4000    | 5000    |
|                                   | N450  | 177            | 80             | 215            | 202              | 43                  | 55               | 3.5           | 5        | 3000               | 3500    | 4000    | 4779    |
|                                   | N470  | 185            | 83             | 222            | 210              | 46                  | 58               | 3.5           | 5        | 2800               | 3400    | 3800    | 4559    |
|                                   | N480  | 189            | 84             | 227            | 214              | 47                  | 59               | 3.5           | 5        | 2800               | 3400    | 3800    | 4559    |
|                                   | N500  | 197            | 87             | 234            | 221              | 50                  | 62               | 3.5           | 5        | 2600               | 3200    | 3600    | 4338    |
|                                   | N550  | 217            | 94             | 254            | 241              | 56                  | 69               | 3.5           | 5        | 2200               | 2800    | 3200    | 3897    |
|                                   | N600  | 236            | 102            | 273            | 261              | 64                  | 77               | 3.5           | 5        | 1800               | 2400    | 2800    | 3456    |
|                                   | N650  | 256            | 111            | 293            | 280              | 74                  | 87               | 3.5           | 5        | 1400               | 2000    | 2400    | 3015    |
|                                   | N700  | 276            | 117            | 313            | 300              | 80                  | 93               | 3.5           | 5        | 600                | 1200    | 1600    | 2134    |
|                                   | F610  | 241            | 83             | 276            | 262              | 48                  | 63               | 5             | 3        | 1800               | 2400    | 2800    | 3456    |
| Quad Mast                         | F660  | 260            | 89             | 295            | 280              | 54                  | 69               | 5             | 3        | 1400               | 2000    | 2400    | 3015    |
|                                   | F700  | 277            | 95             | 313            | 298              | 60                  | 75               | 5             | 3        | 600                | 1200    | 1600    | 2134    |

With the sideshifter, subtract 440lbs (200kg). With the integral sideshifter, subtract 220lbs (100kg).  
\*When optioned with a Quad Mast, the forklift will come equipped with a Class II carriage and forks.



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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform to the European Safety Requirements.

HANGCHA GROUP CO., LTD. reserves the right to make any changes without notice concerning colors, equipment, or specifications detailed in this brochure, or to discontinue individual models. The colors of trucks, delivered may differ slightly from those in brochures.



A Series 3-Wheel Electric Lithium-ion  
Stand-up Counterbalanced Forklift

with capacity of 3,000 to 5,000lbs

Making Material Handling Easier  
SINCE 1956



# LITHIUM POWERED

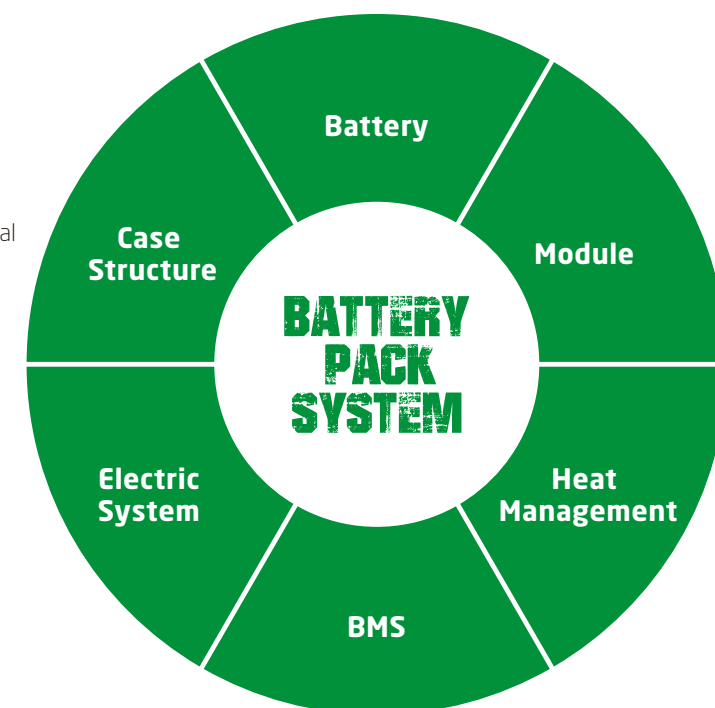


HANGCHA PROVIDES UP TO A  
**7 YEAR OR 15,000 HOUR** GUARANTEE  
ON THE LITHIUM-ION BATTERY PACKS.

## INNOVATIVE SOLUTIONS NEW POWER NOW

Lithium-ion technology (Lithium Iron-Phosphate), was developed jointly by HANGCHA and a leading Lithium Iron Phosphate cell manufacturer for use in material handling equipment applications. These innovative and reliable battery cells and modules are manufactured to the highest standard for HANGCHA's forklift line.

- / **Battery Technology:** We use square Lithium Iron Phosphate cells. These are the same type of batteries used in new electric vehicles.
- / **Design:** The module uses a sturdy and lightweight aluminum alloy frame. It is also designed to provide excellent heat dissipation.
- / **Safe and Effective:** Charging efficiency as high as 98% and the thermal runaway temperature is at 600 °C and above.
- / **Adapted to Low Temperatures:** Comes standard with an electrical heating feature, ensuring normal operation in low temperatures.
- / **Quick Charging:** Fully charges in 2 hours.
- / **Efficient:** Can use opportunity charging to allow for continuous use in multi-shift operations.
- / **Long-Lasting:** 4000 charging cycles with a capacity retention greater than 80%.
- / **Maintenance-Free:** Lithium-ion batteries do not require manual maintenance such as watering.
- / **Green and clean:** The batteries are pollution-free, release zero emissions, and are recyclable.



## RAPID CHARGING

Li-Ion  
**2 hours  
100%**

Using Dual Charger Function

Li-Ion  
**3 hours 100%**

Standard Charger

Lead-acid batteries  
**8-10 hours 100%**

**Rapid and opportunity charging ensure continuous availability of material handling equipment**

The chargers allow for fast full charging or boost charging (100 % charge in 2 hours). The lithium-ion batteries are maintenance free and do not require a battery change when used in multi-shift operations. Instead, the batteries can be charged during user breaks and shift changes which allows the forklift to continuously run during multi-shift operations.



**Standard Charger  
(48V/200Ah)**

**Tough  
Reliable  
Smart**



## Appearance

/ The A Series 3-Wheel Stand-Up Counterbalanced Lift Truck is designed to stack and retrieve goods efficiently in narrow aisles and at high lift heights while still maintaining a lifting capacity of up to 5,000lbs. The exterior of this forklift is powder coated in a durable, easy to see, green finish designating it as lithium-ion powered.

## Comfort

/ The user operates this forklift while standing in a side stance.  
/ The step is low for conveniently getting on and off the forklift.  
/ An anti-fatigue floor mat and generous padding for knees, hips, and arms keep operators comfortable over long shifts.  
/ The spacious operator compartment provides a comfortable work environment for the operator.

## High Performance

/ Thanks to the advanced front dual-drive AC motor, the traveling performance, maneuverability, and operating efficiency are greatly improved.  
/ Hangcha's AC hydraulic system provides smooth load handling and precise load placements.  
/ The electronic proportional multi-way valve reduces energy consumption.  
/ Electric Power Steering provides precise steering control with minimal effort. It also does not encroach into the operator compartment.

## Safety

/ Cornering speed control automatically slows the forklift's travel speed while turning to help prevent damage to loads.  
/ Operation is easy thanks to the foot-raising brake pedal.  
/ The electronic parking brake greatly improves the safety of the truck and the operator.  
/ With the pedal sensing system, the truck can be driven only if the operator stands on the pedal. If the operator takes their foot off the pedal, active braking is initiated to prevent an accident.

## Reliability

/ The vehicle's frame is robust and reliable thanks to its high-strength steel frame structure.  
/ All of the forklift's wires and cables are protected. This greatly improves the reliability of the electrical system.  
/ Switches, connectors, instruments, and other key parts are all high-quality products with excellent performance and quality.



The wide view mast provides great visibility. The hydraulic cushioning feature provides confidence and smooth load handling while operating this forklift.



Ergonomic: The truck is designed for maximum operator comfort while traveling forward or backward in a side stance position. The back and elbow supporting cushions provide better support for the operator.



The battery side roll out is a part of the standard configuration.



The intuitive, multifunction control handle is centrally positioned for easy access. The handle offers simultaneous control of the drive, lift, lower, and auxiliary hydraulic functions.

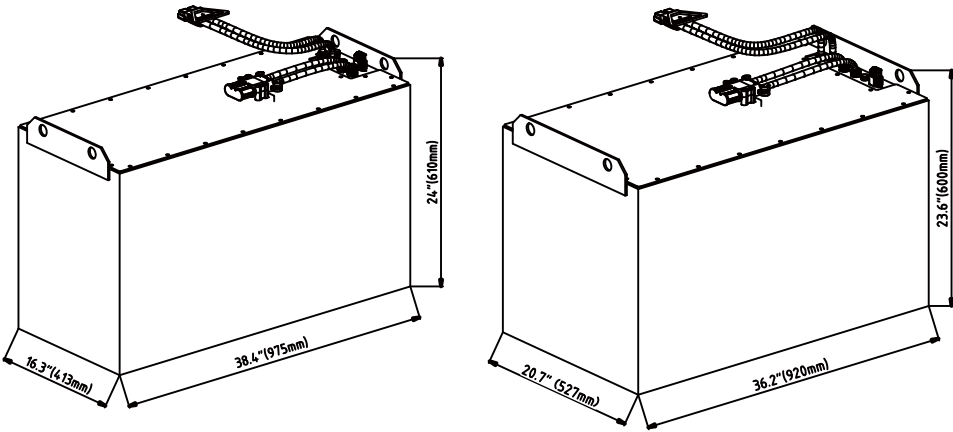


Lithium Iron Phosphate Battery Packs

- / Integrated Battery Management System (BMS) continually monitors energy management and ensures reliable operation.
- / HANGCHA provides these Lithium Iron Phosphate (LiFePO4) battery packs with up to a 7 year or 15,000 hour warranty.
- / See warranty certificate for specific warranty information on the Lithium Iron Phosphate battery packs.

Standard Battery Capacity

| Models                               | FBT15SLi, FBT18SLi     | FBT20SLi, FBT23SLi     |
|--------------------------------------|------------------------|------------------------|
| Battery Capacity<br>(V/Ah)<br>(kW-h) | 36V/684Ah<br>24.62kW-h | 36V/906Ah<br>32.62kW-h |



Standard Specification

- / AC Dual Drive Motors
- / AC Pump Motor
- / Multiple Operation Modes
- / Electric Power Steering System
- / Regenerative Braking
- / Electronic Parking Brake
- / Cornering Speed Control
- / Operator Presence Sensing System
- / Shock Absorption Pedal
- / Waist and Elbow Supporting Cushion
- / Multi-Functional Instrument Display
- / Smooth Cushion Tires
- / Emergency Cut Off Switch
- / Integrated Operating Handle
- / Quadruple and Multi-Way Valves
- / 117" Limited Free Lift 2 Stage Mast
- / Electric Horn
- / Cup & File Holder
- / Low Noise Gear Pump
- / Soft landing system
- / Battery Side Extraction Rollers
- / Strobe Light

Options

- / LED Work Lights
- / Blue Safety Light
- / Sideshifter
- / Full Free Lift 2 Stage Mast
- / Full Free Lift 3 Stage Mast
- / Various Fork Lengths
- / Specialty Attachments
- / Widened Load Bracket & Fork Carriage
- / Lower Overhead Guard
- / Charger
- / Freezer
- / Pin & Card Access System
- / 12V Socket
- / USB Charging Output
- / Overhead Fan
- / Fire Extinguisher

A Series 3-Wheel Lithium-ion Stand-up Counterbalanced Lift Truck Specification

| Distinguishing Marks | 1.1  | Manufacturer                                                    | HANGCHA GROUP CO.,LTD. |               |               |               |
|----------------------|------|-----------------------------------------------------------------|------------------------|---------------|---------------|---------------|
|                      |      | HCFA Model                                                      | FBT15SLi               | FBT18SLi      | FBT20SLi      | FBT23SLi      |
|                      | 1.2  | Manufacturers Type Designation                                  | CPDS15-AD4S-I          | CPDS18-AD4S-I | CPDS20-AD4S-I | CPDS23-AD4S-I |
| Weight               | 1.4  | Operator Type: hand, pedestrian, standing, seated, order-picker | Standing               | Standing      | Standing      | Standing      |
|                      | 1.5  | Load Capacity/Rated Load                                        | Q (lbs)                | 3000          | 3500          | 4000          |
|                      | 1.6  | Load Centre Distance                                            | c (in)                 | 24            | 24            | 24            |
| Tires & Chassis      | 1.8  | Load Distance, centre of drive axle to fork                     | x (in)                 | 12.8          | 12.8          | 12.8          |
|                      | 1.9  | Wheelbase                                                       | y (in)                 | 43.2          | 45.1          | 48            |
|                      | 2.1  | Service Weight                                                  | lbs                    | 7991          | 8454          | 8818          |
| Dimensions           | 2.2  | Axle Loading, laden front/rear                                  | lbs                    | 10110/881     | 10997/957     | 11792/1026    |
|                      | 2.3  | Axle Loading, unladen front/rear                                | lbs                    | 4154/3837     | 4395/4059     | 4585/4233     |
|                      | 3.1  | Tires                                                           | Cushion                | Cushion       | Cushion       | Cushion       |
| Performance Data     | 3.2  | Tire Size, front                                                |                        | 18×7-12.125   | 18×7-12.125   | 18×7-12.125   |
|                      | 3.3  | Tire Size, rear                                                 |                        | 10×5-6.5      | 10×5-6.5      | 10×5-6.5      |
|                      | 3.5  | Wheels, number front rear (x = driven wheels)                   |                        | 2x/2          | 2x/2          | 2x/2          |
| Electric Motor       | 3.6  | Tread, front                                                    | b <sub>0</sub> (in)    | 35.6          | 35.6          | 35.6          |
|                      | 3.7  | Tread, rear                                                     | b <sub>1</sub> (in)    | 6.6           | 6.6           | 6.6           |
|                      | 4.1  | Tilt of Mast/Fork Carriage Forward/Backward                     | Grad                   | 5/5           | 5/5           | 5/5           |
| Additional Data      | 4.2  | Height, mast lowered                                            | h <sub>1</sub> (in)    | 78            | 78            | 78            |
|                      | 4.3  | Free lift                                                       | h <sub>2</sub> (in)    | 6.3           | 6.3           | 6.3           |
|                      | 4.4  | Lift                                                            | h <sub>3</sub> (in)    | 118           | 118           | 118           |
|                      | 4.5  | Height, mast extended                                           | h <sub>4</sub> (in)    | 144           | 144           | 144           |
|                      | 4.7  | Height of Overhead Guard                                        | h <sub>5</sub> (in)    | 87.8          | 87.8          | 87.8          |
|                      | 4.8  | Stand Floor Height                                              | h <sub>6</sub> (in)    | 8.6           | 8.6           | 8.6           |
|                      | 4.19 | Overall Length                                                  | l <sub>1</sub> (in)    | 102.3         | 104.1         | 107           |
|                      | 4.20 | Length to Face of Forks                                         | l <sub>2</sub> (in)    | 66.1          | 67.9          | 70.8          |
|                      | 4.21 | Overall Width                                                   | b <sub>1</sub> (in)    | 42.6          | 42.6          | 42.6          |
|                      | 4.22 | Fork Dimensions                                                 | s/e/l (in)             | 1.57/4.8/36.2 | 1.57/4.8/36.2 | 1.57/4.8/36.2 |
|                      | 4.23 | Fork Carriage DIN 15 173 --- ISO 2328, class/type A,B           |                        | ISO2328 2A    | ISO2328 2A    | ISO2328 2A    |
|                      | 4.24 | Fork-Carriage Width                                             | b <sub>3</sub> (in)    | 39.4          | 39.4          | 39.4          |
|                      | 4.31 | Ground Clearance, laden, below mast                             | m <sub>1</sub> (in)    | 3.9           | 3.9           | 3.9           |
|                      | 4.32 | Ground Clearance, centre of wheelbase                           | m <sub>2</sub> (in)    | 3.8           | 3.8           | 3.8           |
|                      | 4.33 | Aisle Width for Pallets 40" x 48" Crossways                     | A <sub>st</sub> (in)   | 119           | 120.9         | 123.8         |
|                      | 4.34 | Aisle Width for Pallets 32" x 48" Crossways                     | A <sub>st</sub> (in)   | 123.8         | 125.7         | 128.6         |
|                      | 4.35 | Turning Radius                                                  | W <sub>a</sub> (in)    | 53.8          | 55.7          | 58.6          |
|                      | 5.1  | Travel Speed, laden/unladen                                     | mph                    | 7.7/8         | 7.7/8         | 7.7/8         |
|                      | 5.2  | Lift Speed, laden/unladen                                       | fpm                    | 78/110        | 68/110        | 62/110        |
|                      | 5.3  | Lowering Speed, laden/unladen                                   | fpm                    | 93/83         | 93/83         | 93/83         |
|                      | 5.7  | Gradeability, laden/unladen                                     | %                      | 15/15         | 15/15         | 15/15         |
|                      | 5.8  | Max. Gradeability, laden/unladen                                | %                      | 15/15         | 15/15         | 15/15         |
|                      | 5.9  | Acceleration Time, laden/unladen (0-10m)                        | s                      | 6.1/6         | 6.1/6         | 6.1/6         |
|                      | 5.10 | Service Brake                                                   |                        | Electric      | Electric      | Electric      |
|                      | 5.11 | Parking Brake                                                   |                        | Electric      | Electric      | Electric      |
|                      | 6.1  | Drive Motor Rating S2 60 min                                    | kW                     | 4.2×2 AC      | 4.2×2 AC      | 4.2×2 AC      |
|                      | 6.2  | Lift Motor Rating at S3 15%                                     | kW                     | 10AC          | 10AC          | 10AC          |
|                      | 6.4  | Battery Voltage, nominal capacity K5                            | V/Ah                   | 36/684        | 36/684        | 36/906        |
|                      | 6.5  | Battery Weight                                                  | lbs                    | 617           | 617           | 742           |
|                      | 6.6  | Battery Dimensions                                              | l/b/h(in)              | 38.4×16.3×24  | 38.4×16.3×24  | 38.4×21.1×24  |
|                      | 6.8  | Min. Battery Weight                                             | lbs                    | 573           | 573           | 694           |
|                      | 6.9  | Max. Battery Weight                                             | lbs                    | 648           | 648           | 815           |
|                      | 6.10 | Battery Roller Height                                           | in                     | 14.3          | 14.3          | 14.3          |
|                      | 8.1  | Manufacturer of Controller                                      |                        | INMOTION      | INMOTION      | INMOTION      |
|                      | 8.2  | Oil Volume for Attachments                                      | gal/min(l/min)         | 5.3(20)       | 5.3(20)       | 5.3(20)       |
|                      | 8.3  | Sound Level at the Driver's Ear According to EN / DIN 12 053    | dB (A)                 | 63            | 63            | 63            |