



## Pallet Stackers

# D06 – D10 | D08 M

Capacity 0.6 t – 1.0 t | Series 1162

PB

ION

### Versatile manoeuvrable pallet handler

- Compact pedestrian double stacker for transporting goods over short-to-medium distances
- Versatile use in busy loading areas in supermarkets or in warehouses
- Lifting height up to 2 metres and load capacity up to 2000 kilograms
- Capable of handling two pallets at the same time
- Compact mono-mast version with optimum visibility, ideal for retail applications (D08 M)

# MAST TABLES

## STANDARD MAST (in mm)

| Lift                            | h3: 1574         | h3: 1724         | h3: 2024         |
|---------------------------------|------------------|------------------|------------------|
| Height measurements             | h1: 1240 h2: 150 | h1: 1315 h2: 150 | h1: 1465 h2: 150 |
| Manufacturer's type designation |                  |                  |                  |
| D06                             | ○                | ○                | ○                |
| D08                             | ○                | ○                | ○                |
| D10                             | ○                | ○                | ○                |

## SIMPLEX MAST (in mm)

| Lift                            | h3: 989          | h3: 1730         | h3: 958          | h3: 1590         |
|---------------------------------|------------------|------------------|------------------|------------------|
| Height measurements             | h1: 1532 h2: 150 | h1: 2056 h2: 150 | h1: 1635 h2: 150 | h1: 1989 h2: 150 |
| Manufacturer's type designation |                  |                  |                  |                  |
| D06                             | ○                | ○                | –                | –                |
| D08                             | ○                | ○                | –                | –                |
| D08 M*                          | –                | –                | ○                | ○                |

○ Optional equipment    – Not available

**h1:** Mast height, lowered

**h2:** Free lift

**h3:** Lift

\* Mono mast

# STANDARD AND OPTIONAL EQUIPMENT

| Manufacturer's type designation/equipment |  | D06 | D08 | D08 M | D10 |
|---|--|-----|-----|-------|-----|
| Safety                                    | Active foot bumper – foot protection system  | ○   | ○   | ○     | ○   |
|   | Long tiller and low chassis skirt  | ●   | ●   | ●     | ●   |
|   | Automatic speed reduction when cornering   | ●   | ●   | ●     | ●   |
|   | Easily accessible emergency stop button  | ●   | ●   | ●     | ●   |
|   | Buzzer – for operation in low noise environments   | ●   | ●   | ●     | ●   |
|   | Horn – for operation in noisy environments   | ○   | ○   | ○     | ○   |
|   | Key switch   | ●   | ●   | ●     | ●   |
|   | Log in PIN code  | ○   | ○   | ○     | ○   |
| Service                                   | Linde BlueSpot – visual warning of truck presence  | ○   | ○   | ○     | ○   |
| Service                                   | CAN bus technology   | ●   | ●   | ●     | ●   |
| Digitalisation                            | Data transmission online   | ○   | ○   | ○     | ○   |
|   | Data transmission WIFI   | ○   | ○   | ○     | ○   |
|   | Linde connect:ac pre-shift check – allows operator to report truck condition before use                    | ○   | ○   | ○     | ○   |
|   | Linde connect:dt crash detection – allows electronic impact damage monitoring                              | ○   | ○   | ○     | ○   |
| Operation/load handling                   | Automatic lifting – up and down  | ○   | ○   | ○     | ○   |
|   | Additional side buttons to raise and lower forks   | ○   | ○   | –     | ○   |
|   | Lift end stop sensor   | ●   | ●   | ●     | ●   |
|   | Soft landing of forks  | ○   | ○   | ○     | ○   |
|   | Proportional speed control – traction speed dependent on tiller angle                                      | ○   | ○   | ○     | ○   |
|   | Creep speed control – allows operation at reduced speed when tiller is vertical                            | ●   | ●   | ●     | ●   |
|   | OptiLift fully proportional lifting function   | ●   | ●   | ●     | ●   |
| Environment                               | Coldstore protection-35°C (in/out)   | ○   | ○   | ○     | ○   |
| Workplace                                 | Multi-function display – hour meter, maintenance due, battery discharge and internal fault code indication | ●   | ●   | ●     | ●   |
|   | Ergonomic tiller head with easy access to all controls   | ●   | ●   | ●     | ●   |
|   | Load backrest h = 800 mm, or h = 900 mm, from top of forks   | ○   | ○   | ○     | ○   |
|   | Accessory support  | ○   | ○   | ○     | ○   |
|   | Support for clipboard and scanner  | ○   | ○   | ○     | ○   |
|   | Metal battery cover  | ○   | ○   | ○     | ○   |
| Mast                                      | Standard mast  | ○   | ○   | –     | ○   |
|   | Simplex mast   | ○   | ○   | –     | –   |
|   | Mono mast simplex  | –   | –   | ○     | –   |
|   | Mast protection, polycarbonate   | ●   | ●   | ○     | ●   |
|   | Mast protection, wire mesh   | ○   | ○   | –     | ○   |
|   | Mast protection, metallic  | –   | –   | ●     | –   |
| Attachment/forks                          | Width over forks: 520 mm, 535 mm, 540 mm, 560 mm   | ○   | ○   | ○     | ○   |
|   | Fork length: 1150 mm, 1190 mm, with overhang 55 mm   | ○   | ○   | ○     | ○   |
| Axles and tyres                           | Drive wheel: standard duty   | ●   | ●   | ●     | ●   |
|   | Drive wheel: heavy duty, high grip   | ○   | ○   | ○     | ○   |
|   | Single load wheel, polyurethane  | ●   | ●   | ●     | ●   |
|   | Tandem load wheels, polyurethane   | ○   | ○   | ○     | ○   |
|   | Tandem load wheels, polyurethane greasable   | ○   | ○   | ○     | ○   |
|   | Auto-adjustable castor wheels  | ●   | ●   | ●     | ●   |
| Drive and brake system                    | Maintenance-free AC motor  | ●   | ●   | ●     | ●   |
|   | Electromagnetic braking system   | ●   | ●   | ●     | ●   |
|   | Battery compartment for vertical change  | ○   | ○   | ●     | –   |
|   | Battery compartment, 2 PzS-B, vertical change  | ●   | ●   | –     | ●   |
|   | Battery compartment, 2 PzS, lateral or vertical change   | ○   | ○   | –     | ○   |
| Energy                                    | Li-ION batteries – different battery capacities  | ○   | ○   | ○     | ○   |
|   | Lead acid batteries  | ○   | ○   | ○     | ○   |
|   | On-board charger 35 A or 70 A for lead-acid and Li-ION batteries   | ○   | ○   | ○     | ○   |
|   | Li-ION front plug for fast, easy opportunity charging  | ○   | ○   | ○     | –   |
|   | Li-ION plug, laterally or vertically mounted for convenient opportunity charging                           | ○   | ○   | –     | ○   |
|   | External stand-alone chargers  | ○   | ○   | ○     | ○   |

● Standard equipment    ○ Optional equipment    – Not available

# TECHNICAL DATA (according to VDI 2198)

|                 |        |  | Linde MH        |                                     |                                     |                                     |                                     |
|-----------------|--------|--|-----------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|                 |        |  | D06             | D08                                 | D08 M                               | D10                                 |                                     |
| Characteristics | 1.1    | Manufacturer (abbreviation)                                | Linde MH        | Linde MH                            | Linde MH                            | Linde MH                            |                                     |
|                 | 1.2    | <b>Manufacturer's type designation</b>                     | <b>D06</b>      | <b>D08</b>                          | <b>D08 M</b>                        | <b>D10</b>                          |                                     |
|                 | 1.2a   | Series   | 1162-00         | 1162-00                             | 1162-00                             | 1162-00                             |                                     |
|                 | 1.3    | Drive  | Battery         | Battery                             | Battery                             | Battery                             |                                     |
|                 | 1.4    | Operation  | Pedestrian      | Pedestrian                          | Pedestrian                          | Pedestrian                          |                                     |
|                 | 1.5    | Rated capacity/rated load                                  | Q (t)           | 1.6/(0.6 + 1.0)                     | 1.8/(0.8 + 1.0)                     | 1.8/(0.8 + 1.0)                     | 2.0/(1.0 + 1.0)                     |
|                 | 1.6    | Load centre distance                                       | c (mm)          | 600                                 | 600                                 | 600                                 | 600                                 |
|                 | 1.8    | Load distance, centre of drive axle to fork                | x (mm)          | 873/936 <sup>12)</sup>              | 873/936 <sup>12)</sup>              | 859/922 <sup>12)</sup>              | 874/937 <sup>12)</sup>              |
|                 | 1.9    | Wheelbase  | y (mm)          | 1306/1369 <sup>12)3)</sup>          | 1306/1369 <sup>12)3)</sup>          | 1306/1369 <sup>12)3)</sup>          | 1425/1488 <sup>12)16)</sup>         |
| Weight          | 2.1    | Service weight   | kg              | 638 <sup>4)5)</sup>                 | 664 <sup>4)5)</sup>                 | 621 <sup>4)5)</sup>                 | 830 <sup>4)5)</sup>                 |
|                 | 2.2    | Axle loading, laden front/rear                             | kg              | 797/1441 <sup>4)5)</sup>            | 858/1606 <sup>4)5)</sup>            | 808/1613 <sup>4)5)</sup>            | 986/1844 <sup>4)5)</sup>            |
|                 | 2.3    | Axle loading, unladen front/rear                           | kg              | 463/175 <sup>4)5)</sup>             | 482/182 <sup>4)5)</sup>             | 451/170 <sup>4)5)</sup>             | 601/229 <sup>4)5)</sup>             |
| Tyres/chassis   | 3.1    | Tyres: solid rubber, superelastic, pneumatic, polyurethane |                 | Polyurethane                        | Polyurethane                        | Polyurethane                        | Polyurethane                        |
|                 | 3.2    | Tyre size, front   |                 | Ø 230 × 75                          | Ø 230 × 75                          | Ø 230 × 75                          | Ø 230 × 75                          |
|                 | 3.3    | Tyre size, rear  |                 | Ø 85 × 80 (Ø 85 × 60) <sup>9)</sup> | Ø 85 × 80 (Ø 85 × 60) <sup>9)</sup> | Ø 85 × 80 (Ø 85 × 60) <sup>9)</sup> | Ø 85 × 80 (Ø 85 × 60) <sup>9)</sup> |
|                 | 3.4    | Additional wheels (dimensions)                             |                 | 2x Ø 125 × 40                       | 2x Ø 125 × 40                       | 2x Ø 125 × 40                       | 2x Ø 125 × 40                       |
|                 | 3.5    | Wheels, number front/rear (x = driven wheels)              |                 | 1x + 2/2 (1x + 2/4) <sup>9)</sup>   | 1x + 2/2 (1x + 2/4) <sup>9)</sup>   | 1x + 2/2 (1x + 2/4) <sup>9)</sup>   | 1x + 2/2 (1x + 2/4) <sup>9)</sup>   |
|                 | 3.6    | Tread, front   | b10 (mm)        | 482 <sup>2)</sup>                   | 482 <sup>2)</sup>                   | 482 <sup>2)</sup>                   | 482 <sup>2)</sup>                   |
|                 | 3.7    | Tread, rear  | b11 (mm)        | 338/353/378 <sup>2)7)</sup>         | 338/353/378 <sup>2)7)</sup>         | 353/378 <sup>2)7)</sup>             | 353/378 <sup>2)7)</sup>             |
| Dimensions      | 4.2    | Mast height, lowered                                       | h1 (mm)         | 1536                                | 2060                                | 1988                                | 1474                                |
|                 | 4.3    | Free lift  | h2 (mm)         | 989                                 | 1730                                | 1460                                | 150                                 |
|                 | 4.4    | Lift   | h3 (mm)         | 989 <sup>3)</sup>                   | 1730 <sup>3)</sup>                  | 1590 <sup>3)</sup>                  | 2024 <sup>3)</sup>                  |
|                 | 4.5    | Mast height, extended                                      | h4 (mm)         | 1661                                | 2185                                | 2220                                | 2270                                |
|                 | 4.6    | Initial lift   | h5 (mm)         | 125                                 | 125                                 | 125                                 | 125                                 |
|                 | 4.9    | Height drawbar in operating position min./max.             | h14 (mm)        | 810/1205 <sup>2)</sup>              | 810/1205 <sup>2)</sup>              | 810/1205 <sup>2)</sup>              | 810/1205 <sup>2)</sup>              |
|                 | 4.10   | Height of wheel arms                                       | h8 (mm)         | 60                                  | 60                                  | 60                                  | 60                                  |
|                 | 4.15   | Height, lowered  | h13 (mm)        | 86 <sup>8)</sup>                    | 86 <sup>8)</sup>                    | 86 <sup>8)</sup>                    | 86 <sup>8)</sup>                    |
|                 | 4.19   | Overall length   | l1 (mm)         | 1742 <sup>2)3)</sup>                | 1742 <sup>2)3)</sup>                | 1756 <sup>2)</sup>                  | 1860 <sup>2)16)</sup>               |
|                 | 4.20   | Length to fork face  | l2 (mm)         | 592 <sup>2)3)</sup>                 | 592 <sup>2)3)</sup>                 | 606 <sup>2)</sup>                   | 710 <sup>2)16)</sup>                |
|                 | 4.21   | Overall width  | b1/b2 (mm)      | 720 <sup>2)</sup>                   | 720 <sup>2)</sup>                   | 720 <sup>2)</sup>                   | 720 <sup>2)</sup>                   |
|                 | 4.22   | Fork dimensions DIN ISO 2331                               | s / e / l (mm)  | 55/182/1150                         | 55/182/1150                         | 55/182/1150                         | 55/182/1150                         |
|                 | 4.24   | Fork carriage width  | b3 (mm)         | 514/529/554                         | 514/529/554                         | 650                                 | 710                                 |
|                 | 4.25   | Fork spread  | b5 (mm)         | 520/535/560                         | 520/535/560                         | 535/560                             | 560                                 |
|                 | 4.31   | Ground clearance, laden, below mast                        | m1 (mm)         | 20/145 <sup>2)10)</sup>             | 20/145 <sup>2)10)</sup>             | 20/145 <sup>2)10)</sup>             | 20/145 <sup>2)10)</sup>             |
|                 | 4.32   | Ground clearance, centre of wheelbase                      | m2 (mm)         | 20/145 <sup>2)10)</sup>             | 20/145 <sup>2)10)</sup>             | 20/145 <sup>2)10)</sup>             | 20/145 <sup>2)10)</sup>             |
|                 | 4.34.1 | Aisle width for pallets 1000 × 1200 crossways              | Ast (mm)        | 2325 <sup>2)11)12)</sup>            | 2325 <sup>2)11)12)</sup>            | 2328 <sup>2)11)12)</sup>            | 2444 <sup>2)11)12)16)</sup>         |
|                 | 4.34.2 | Aisle width for pallets 800 × 1200 lengthways              | Ast (mm)        | 2229 <sup>2)11)12)</sup>            | 2229 <sup>2)11)12)</sup>            | 2328 <sup>2)11)12)</sup>            | 2347 <sup>2)11)12)16)</sup>         |
|                 | 4.35   | Turning radius   | Wa (mm)         | 1512/1575 <sup>13)</sup>            | 1512/1575 <sup>13)</sup>            | 1512/1575 <sup>13)12)</sup>         | 1631/1694 <sup>13)16)</sup>         |
| Performance     | 5.1    | Travel speed, laden/unladen                                | km/h            | 6/6 <sup>13)</sup>                  | 6/6 <sup>13)</sup>                  | 5/5 <sup>13)</sup>                  | 5/5 <sup>13)</sup>                  |
|                 | 5.1.1  | Travel speed, laden/unladen, backwards                     | km/h            | 6/6 <sup>13)</sup>                  | 6/6 <sup>13)</sup>                  | 5/5 <sup>13)</sup>                  | 5/5 <sup>13)</sup>                  |
|                 | 5.2    | Lifting speed, laden/unladen                               | m/s             | 0.094/0.152 <sup>3)</sup>           | 0.094/0.152 <sup>3)</sup>           | 0.129/0.197 <sup>3)</sup>           | 0.12/0.183 <sup>3)</sup>            |
|                 | 5.3    | Lowering speed, laden/unladen                              | m/s             | 0.352/0.133 <sup>3)</sup>           | 0.352/0.133 <sup>3)</sup>           | 0.331/0.201 <sup>3)</sup>           | 0.272/0.278 <sup>3)</sup>           |
|                 | 5.8    | Max. gradeability, laden/unladen                           | %               | 10.02/20.0                          | 10.0/20.0                           | 10.0/20.0                           | 10.0/20.0                           |
|                 | 5.9    | Acceleration time, laden/unladen                           | s               | 7.0/6.6                             | 7.3/7.0                             | 7.0/6.5                             | 7.3/6.6                             |
|                 | 5.10   | Service brake  |                 | Electric-engine                     | Electric-engine                     | Electric-engine                     | Electric-engine                     |
| Electric-engine | 6.1    | Drive motor rating S2 60 min                               | kW              | 1.3                                 | 1.3                                 | 1.3                                 | 1.3                                 |
|                 | 6.2    | Lift motor rating at S3 15%                                | kW              | 1.2                                 | 1.2                                 | 1.2                                 | 1.2                                 |
|                 | 6.3    | Battery according to DIN 43531/35/36 A, B, C, no           |                 | Li-ION compact                      | Li-ION compact                      | Li-ION compact                      | 2 PzS-B                             |
|                 | 6.4    | Battery voltage/nominal capacity K5                        | (V)/(Ah) or kWh | 24/62 (125) <sup>14)</sup>          | 24/62 (125) <sup>14)</sup>          | 24/62 (125) <sup>14)</sup>          | 24/150                              |
|                 | 6.5    | Battery weight (±5%)                                       | kg              | 14/23 <sup>9)</sup>                 | 14/23 <sup>9)</sup>                 | 14/23 <sup>9)</sup>                 | 134/154 <sup>9)</sup>               |
|                 | 6.6    | Energy consumption according to DIN EN 16796               | kWh/h           | 0.51                                | 0.59                                | 0.64                                | 0.68                                |
|                 | 6.7    | Turnover output according to VDI 2198                      | t/h             | 21.0                                | 26.0                                | 29.0                                | 32.0                                |
|                 | 6.8    | Turnover efficiency according to VDI 2198                  | t/kWh           | 28                                  | 32                                  | 45                                  | 37                                  |
| Additional data | 10.7   | Sound pressure level LpAZ (at the operator's seat)         | dB(A)           | 58 <sup>15)</sup>                   | 58 <sup>15)</sup>                   | 61 <sup>15)</sup>                   | 58 <sup>15)</sup>                   |

1) Forks upraised/lowered

2) (±5 mm)

3) +50 mm = BS battery (2 PzS-B); +105 mm = 2 PzS battery

4) Figures with battery, see line 6.4/6.5.

5) (±10%)

6) Figures in parenthesis with tandem load wheels.

7) Depending on the forks spread; see 4.25

8) (-0/+5 mm)

9) min./max.

10) (±2 mm)

11) Including a 200 mm (min.) operating aisle clearance.

12) With creep speed = tiller in vertical position

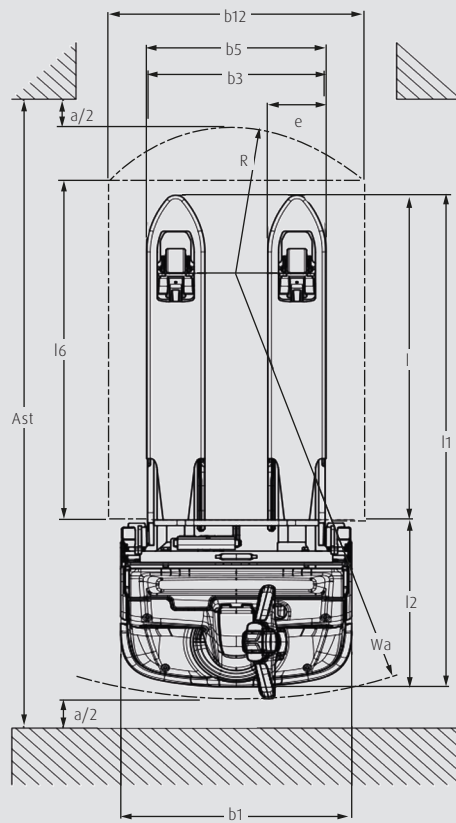
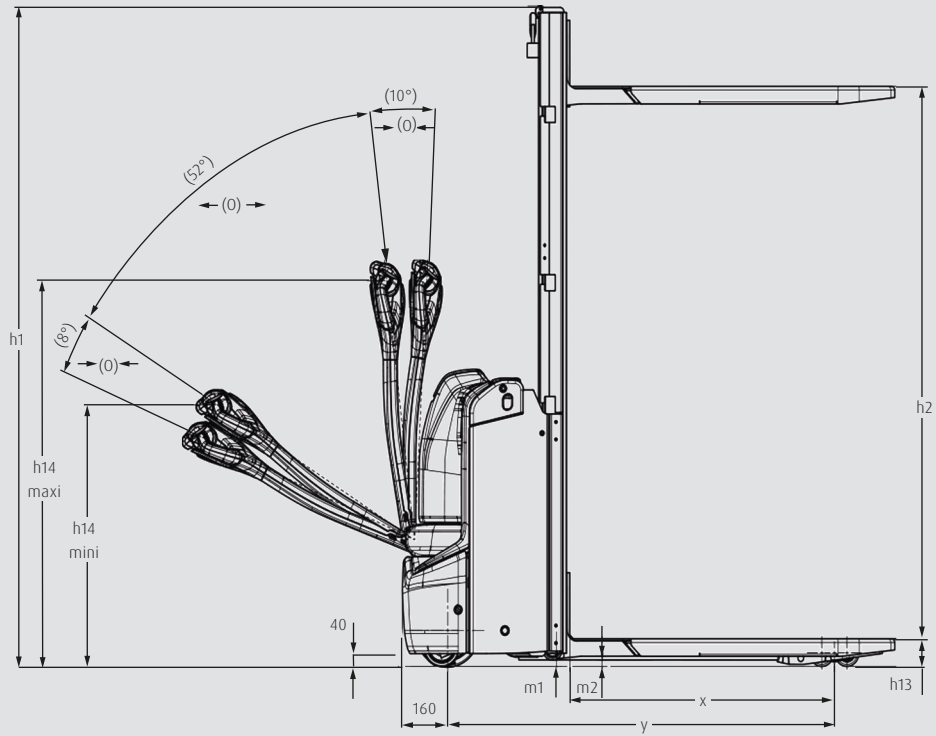
13) (±5%)

14) (Option)

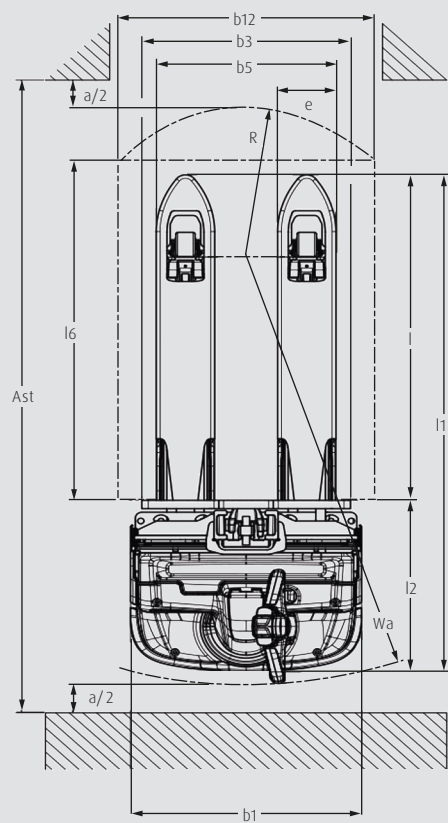
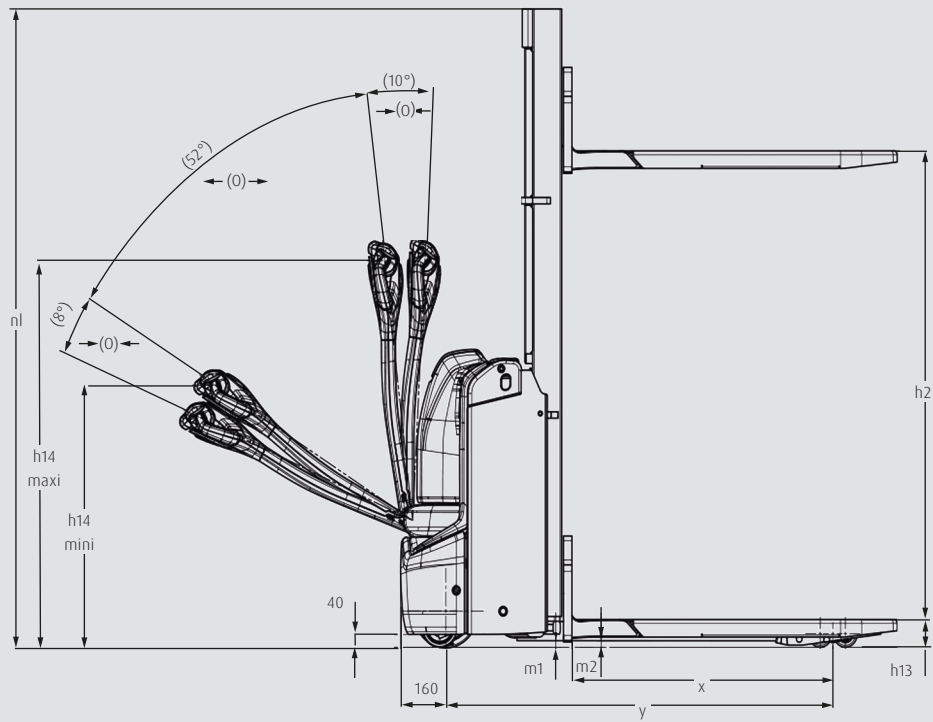
15) (±2.5)

16) +0 mm = BS battery (2 PzS-B); +55 mm = 2 PzS battery

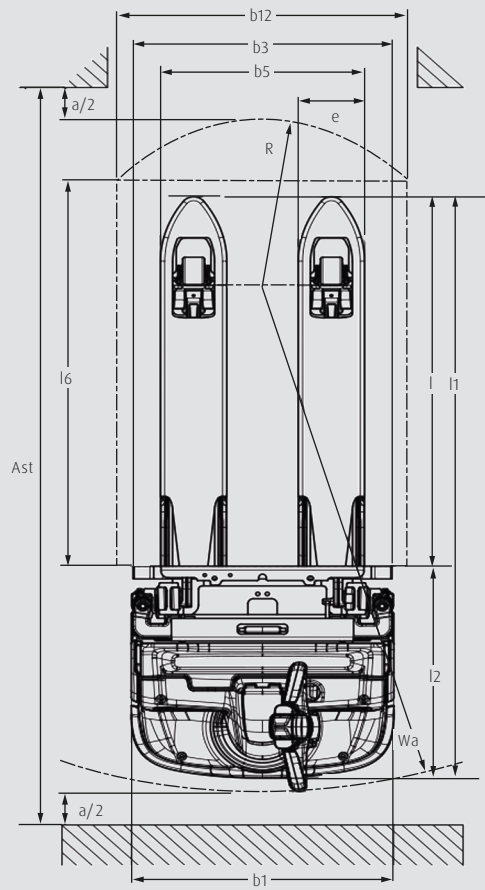
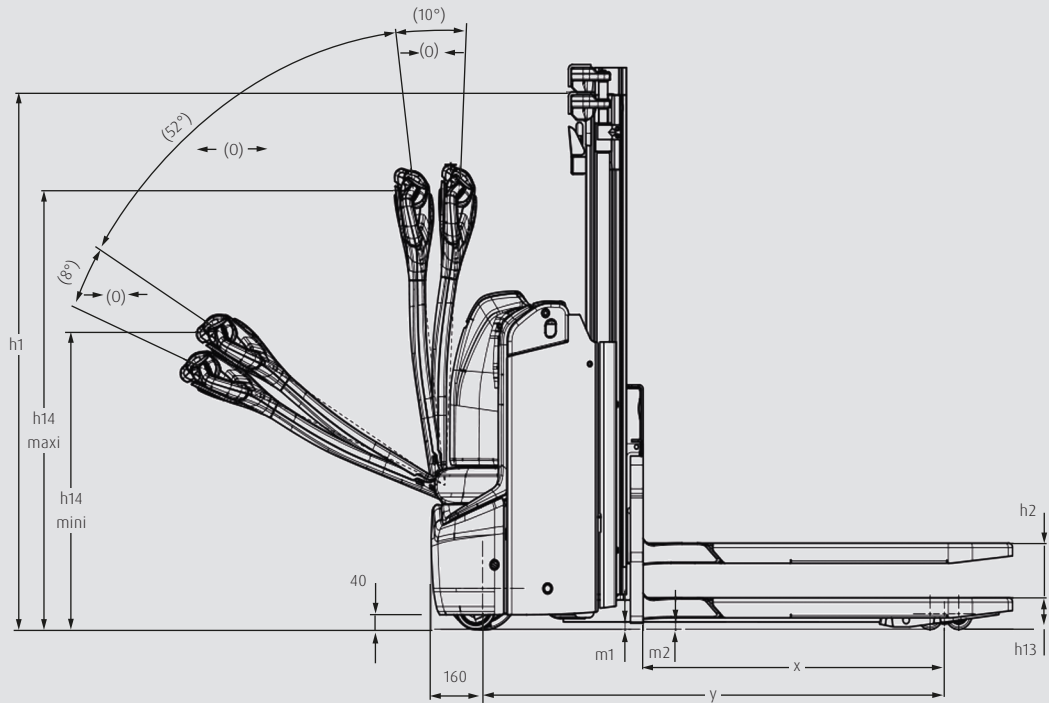
D06



# D08 M



# D10



# CHARACTERISTICS



Long, low-mounted tiller arm

## Safety

- Long, low-mounted tiller arm maintains a safe distance between operator and truck
- Low chassis skirt and active foot bumper (option) protects operator's feet
- Hill start feature prevents rollback on inclines
- Wrap-around tiller head design protects operator's hands
- Mono mast (D08 M) provides unobstructed visibility of load and surroundings



Ergonomic tiller head

## Ergonomics

- Control of all functions via the ergonomic tiller head
- Truck can be easily controlled by one hand
- All controls can be operated by gloved hands
- Effortless manoeuvring in tight spaces
- Storage compartments for work equipment available



D08 M with mono mast

## Handling

- OptiLift proportional lifting system ensures precise load handling
- Compact design for optimum manoeuvrability in confined spaces
- Creep speed function enables precise, safe operation even with tiller vertical
- Traction speeds up to 6 km/h for fast, efficient load transfers
- Fast opportunity charging with optional li-ion battery and on-board charger
- Mono mast facilitates order picking and shelf replenishment (D08 M)



Robust truck design

## Service

- Robust truck design increases reliability
- Easy access to all main components for time-saving service
- Steel-reinforced tiller arm for reliable operation in tough applications
- CAN bus structure for efficient fault diagnosis
- Long service intervals ensure low maintenance costs

Subject to modification in the interest of progress. Illustrations and technical specifications could include options and are not binding for actual constructions. All dimensions subject to usual tolerances.



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