

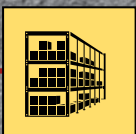


**STRONG PARTNERS.  
TOUGH TRUCKS.™**



# **P2.0SD SERIES TECHNICAL GUIDE**

**[WWW.HYSTER.COM](http://WWW.HYSTER.COM)**



# > P2.0SD

| GENERAL     | 1-1  | Manufacturer  |                                  |               | HYSTER                |                       |               | HYSTER                                      |                       |               | HYSTER                                     |                       |  |  |
|-------------|--|---|----------------------------------|---------------|-----------------------|-----------------------|---------------|---|-----------------------|---------------|--|-----------------------|--|--|
|             | 1-2  | Model designation                                   |                                  |               | P2.0SD                |                       |               | P2.0SD platform with side protection (Biga) |                       |               | P2.0SD platform with side protection (Bob) |                       |  |  |
| WEIGHT      | 1-3  | Drive   |                                  |               | Battery               |                       |               | Battery                                     |                       |               | Battery                                    |                       |  |  |
|             | 1-4  | Operator type                                       |                                  |               | Pedestrian / Stand-on |                       |               | Stand-on                                    |                       |               | Stand-on                                   |                       |  |  |
| DIMENSIONS  | 1-5  | Rated capacity / rated load                         | Q <sub>1</sub>                   | t             | 1 + 1                 |                       |               | 1 + 1                                       |                       |               | 1 + 1                                      |                       |  |  |
|             | 1-6  | Load centre distance                                | c                                | mm            | 600                   |                       |               | 600   |                       |               | 600  |                       |  |  |
|             | 1-8  | Load distance, centre of drive axle to fork         | x                                | mm            | 996                   |                       |               | 996   |                       |               | 996  |                       |  |  |
|             | 1-9  | Wheelbase   | y                                | mm            | 1706                  |                       |               | 1706  |                       |               | 1706                                       |                       |  |  |
|             | 2-1  | Service weight (1)                                  |                                  | kg            | 1081                  |                       |               | 1138  |                       |               | 1126                                       |                       |  |  |
|             | 2-2  | Axle loading with load, front / rear                |                                  | kg            | 1127                  | 1954 (3)              |               | 1938  | 1200                  |               | 1938                                       | 1188                  |  |  |
|             | 2-3  | Axle loading without load, front / rear             |                                  | kg            | 772                   | 309 (3)               |               | 294   | 844                   |               | 294  | 832                   |  |  |
|             | WHEELS   | 3-1   | Tyre type                        |               |                       | NDIIThane / NDIIThane |               |   | NDIIThane / NDIIThane |               |  | NDIIThane / NDIIThane |  |  |
|             |  | 3-2   | Tyre size, front                 | ø             | mm x mm               | 254 x 90 (3)          |               |   | 85 x 74               |               |  | 85 x 74               |  |  |
| 3-3         |  | Tyre size, rear                                     | ø                                | mm x mm       | 85 x 74 (3)           |                       |               | 254 x 90                                    |                       |               | 254 x 90                                   |                       |  |  |
| 3-4         |  | Additional wheels (dimensions)                      | ø                                | mm x mm       | 125 x 50              |                       |               | 125 x 50                                    |                       |               | 125 x 50                                   |                       |  |  |
| 3-5         |  | Wheels, number front / rear (x = driven wheels)     |                                  |               | 1x + 1                | 4 (3)                 |               | 4   | 1x + 1                |               | 4  | 1x + 1                |  |  |
| 3-6         |  | Tread, front  | b <sub>10</sub>                  | mm            | 500 (3)               |                       |               | 377   |                       |               | 377  |                       |  |  |
| 3-7         |  | Tread, rear   | b <sub>11</sub>                  | mm            | 377 (3)               |                       |               | 500   |                       |               | 500  |                       |  |  |
| 4-2         |  | Height, mast lowered                                | h <sub>1</sub>                   | mm            | 1560                  |                       |               | 1560  |                       |               | 1560                                       |                       |  |  |
| 4-3         |  | Free Lift   | h <sub>2</sub>                   | mm            | 100                   |                       |               | 100   |                       |               | 100  |                       |  |  |
| 4-4         |  | Lift  | h <sub>3</sub>                   | mm            | 1650                  |                       |               | 1650  |                       |               | 1650                                       |                       |  |  |
| 4-5         | Height, mast extended  | h <sub>4</sub>                                      | mm                               | 2325          |                       |                       | 2325          |   |                       | 2325          |  |                       |  |  |
| 4-6         | Initial Lift   | h <sub>5</sub>                                      | mm                               | 130           |                       |                       | 130           |   |                       | 130           |  |                       |  |  |
| 4-9         | Height drawbar in driving position min./max.                   | h <sub>14</sub>                                     | mm                               | 1220          | 1460                  |                       | 1220          | 1460  |                       | 1220          | 1460                                       |                       |  |  |
| 4-10        | Height of wheel arms   | h <sub>8</sub>                                      | mm                               | 85            |                       |                       | 85            |   |                       | 85            |  |                       |  |  |
| 4-15        | Height, lowered  | h <sub>13</sub>                                     | mm                               | 90            |                       |                       | 90            |   |                       | 90            |  |                       |  |  |
| 4-19        | Overall length (pedestrian)                                    | l <sub>1</sub>                                      | mm                               | 2159          |                       |                       | -             |   |                       | -             |  |                       |  |  |
| 4-19        | Overall length (stand-on)                                      | l <sub>1</sub>                                      | mm                               | 2605          |                       |                       | 2666          |   |                       | 2715          |  |                       |  |  |
| 4-20        | Length to face of forks (pedestrian)                           | l <sub>2</sub>                                      | mm                               | 969           |                       |                       | -             |   |                       | -             |  |                       |  |  |
| 4-20        | Length to face of forks (stand-on)                             | l <sub>2</sub>                                      | mm                               | 1415          |                       |                       | 1476          |   |                       | 1525          |  |                       |  |  |
| 4-21        | Overall width  | b <sub>1</sub> / b <sub>2</sub>                     | mm                               | 780           |                       |                       | 780           |   |                       | 780           |  |                       |  |  |
| 4-22        | Fork dimensions  | s/e/l   | mm                               | 55            | 195                   | 1150                  | 55            | 195   | 1150                  | 55            | 195  | 1150                  |  |  |
| 4-24        | Fork-carriage width  | b <sub>3</sub>                                      | mm                               | 675           |                       |                       | 675           |   |                       | 675           |  |                       |  |  |
| 4-25        | Distance between fork-arms                                     | b <sub>5</sub>                                      | mm                               | 572           |                       |                       | 572           |   |                       | 572           |  |                       |  |  |
| 4-31        | Ground clearance, laden, below mast                            | m <sub>1</sub>                                      | mm                               | 25            |                       |                       | 25            |   |                       | 25            |  |                       |  |  |
| 4-32        | Ground clearance, centre of wheelbase                          | m <sub>2</sub>                                      | mm                               | 25            |                       |                       | 25            |   |                       | 25            |  |                       |  |  |
| 4-33        | Load dimension b 12 x l 6 crossways                            | b <sub>12</sub> x l <sub>6</sub>                    | mm                               | 800 x 1200    |                       |                       | 800 x 1200    |   |                       | 800 x 1200    |  |                       |  |  |
| 4-34-1      | Aisle width for pallets 1000mm x 1200mm crossways (pedestrian) | A <sub>st</sub>                                     | mm                               | 2775          |                       |                       | -             |   |                       | -             |  |                       |  |  |
| 4-34-1      | Aisle width for pallets 1000mm x 1200mm crossways (stand-on)   | A <sub>st</sub>                                     | mm                               | 3213          |                       |                       | 3288          |   |                       | 3327          |  |                       |  |  |
| 4-34-2      | Aisle width for pallets 800mm x 1200mm lengthwise (pedestrian) | A <sub>st</sub>                                     | mm                               | 2624          |                       |                       | -             |   |                       | -             |  |                       |  |  |
| 4-34-2      | Aisle width for pallets 800mm x 1200mm lengthwise (stand-on)   | A <sub>st</sub>                                     | mm                               | 3062          |                       |                       | 3137          |   |                       | 3176          |  |                       |  |  |
| 4-35        | Turning radius (pedestrian)                                    | W <sub>a</sub>                                      | mm                               | 1974          |                       |                       | -             |   |                       | -             |  |                       |  |  |
| 4-35        | Turning radius (stand-on)                                      | W <sub>a</sub>                                      | mm                               | 2412          |                       |                       | 2487          |   |                       | 2526          |  |                       |  |  |
| PERFORMANCE | 5-1  | Travel speed laden/unladen (pedestrian)             |                                  | km/h          | 4.0                   | 4.0                   |               | -   | -                     |               | -  | -                     |  |  |
|             | 5-1  | Travel speed laden/unladen (stand-on)               |                                  | km/h          | 7.5                   | 8.0                   |               | 7.5   | 8.0                   |               | 7.5  | 8.0                   |  |  |
|             | 5-1-1  | Travel speed, laden/unladen, backwards (pedestrian) |                                  | km/h          | 4.0                   | 4.5                   |               | -   | -                     |               | -  | -                     |  |  |
|             | 5-1-1  | Travel speed, laden/unladen, backwards (stand-on)   |                                  | km/h          | 7.5                   | 8.0                   |               | 7.5   | 8.0                   |               | 7.5  | 8.0                   |  |  |
|             | 5-2  | Lift speed, laden/unladen                           |                                  | m/s           | 0.16                  | 0.22                  |               | 0.16  | 0.22                  |               | 0.16                                       | 0.22                  |  |  |
|             | 5-3  | Lowering speed, laden/unladen                       |                                  | m/s           | 0.28                  | 0.26                  |               | 0.28  | 0.26                  |               | 0.28                                       | 0.26                  |  |  |
|             | 5-7  | Gradeability, laden/unladen (2)                     |                                  | %             | 8.0                   | 10.0                  |               | 8.0   | 10.0                  |               | 8.0  | 10.0                  |  |  |
|             | 5-8  | Max. gradeability, laden/unladen (2)                |                                  | %             | 8.0                   | 10.0                  |               | 8.0   | 10.0                  |               | 8.0  | 10.0                  |  |  |
|             | 5-10   | Service brake                                       |                                  |               | Electromagnetic       |                       |               | Electromagnetic                             |                       |               | Electromagnetic                            |                       |  |  |
|             | ELECTRIC ENGINE  | 6-1   | Drive motor, S2 60 minute rating |               | kW                    | 4.0                   |               |   | 4.0                   |               |  | 4.0                   |  |  |
| 6-2         |  | Lifting motor, S3 15% rating (2)                    |                                  | kW            | 2.0                   |                       |               | 2.0   |                       |               | 2.0  |                       |  |  |
| 6-3         |  | Battery according to DIN 43531/35/36 A,B,C, no      |                                  |               | no                    |                       |               | no  |                       |               | no   |                       |  |  |
| 6-4         |  | Battery voltage/nominal capacity K5                 |                                  | V/Ah          | 24                    | 300                   |               | 24  | 300                   |               | 24   | 300                   |  |  |
| 6-5         |  | Battery weight (1)                                  |                                  | kg            | 233                   |                       |               | 233   |                       |               | 233  |                       |  |  |
| 8-1         | Type of drive unit   |   |                                  | AC-Controller |                       |                       | AC-Controller |   |                       | AC-Controller |  |                       |  |  |
| 10-7        | Sound pressure level at the driver's seat                      |   |                                  | dB (A)        | < 70                  |                       |               | < 70  |                       |               | < 70                                       |                       |  |  |

### NOTES:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster® truck.


- (1) These values may vary of +/- 5%
- (2) If truck climbs ramps frequently (within 1h), consult your salesman
- (3) Pedestrian version. For Stand-on version, front/rear are inverted.

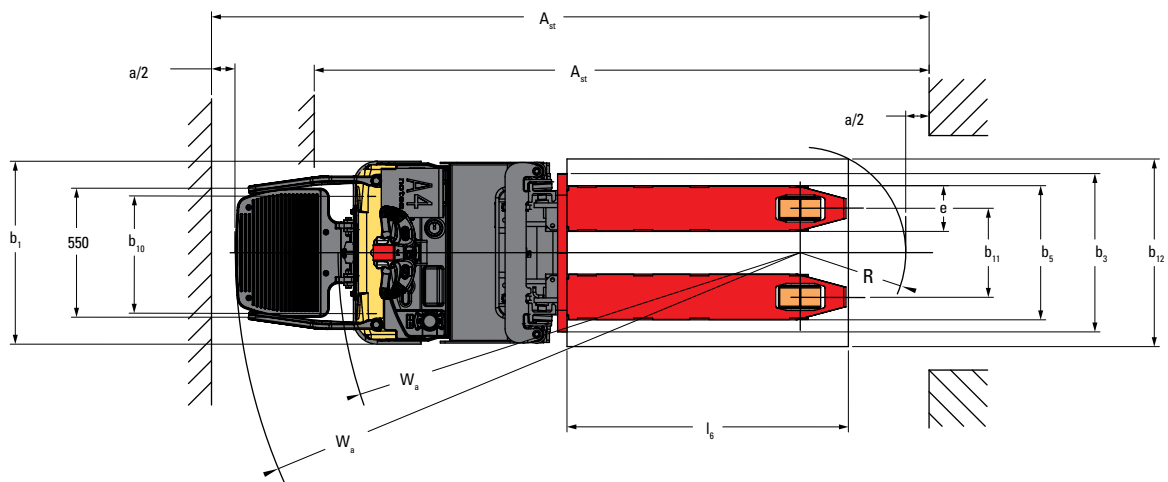
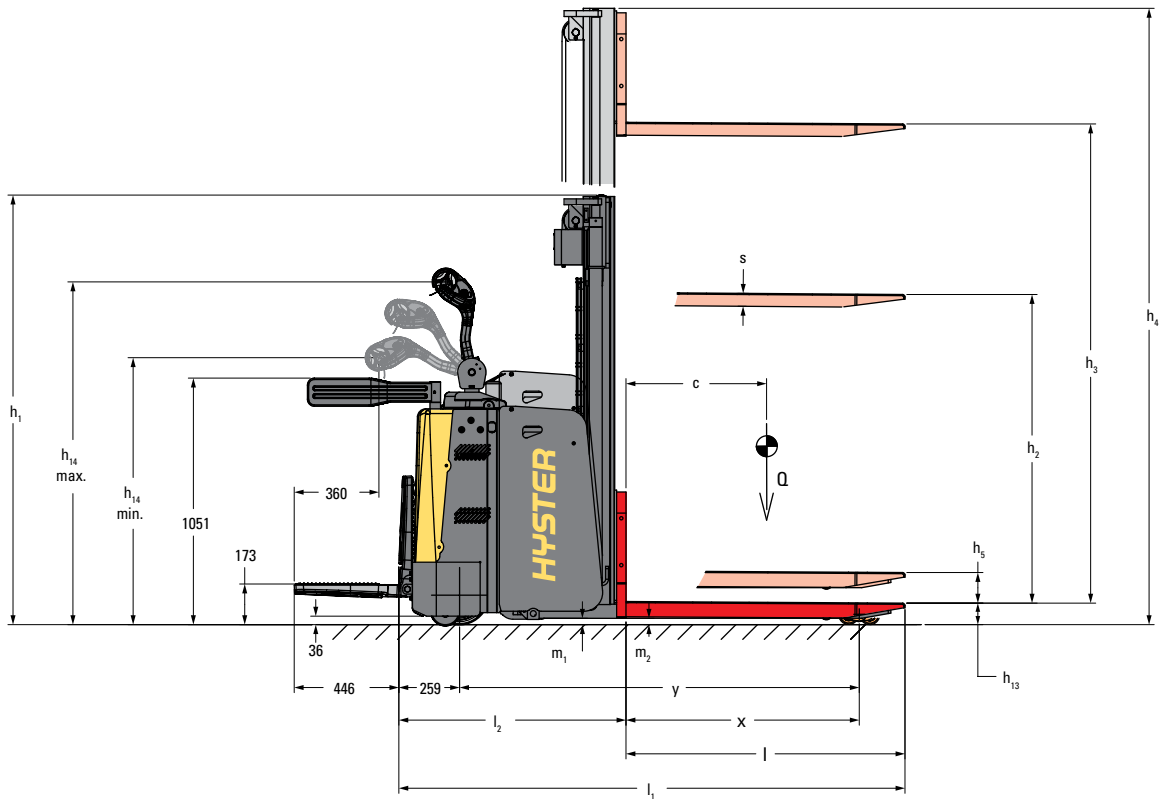
### NOTICE:

Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Hyster products are subject to change without notice. Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

 **Safety:** This truck conforms to the current EU requirements.



$$Ast = W_b + R + a$$

(see lines 4.34.1 & 4.34.2)

$$R = \sqrt{(l_6 - x)^2 + \left(\frac{b_{12}}{2}\right)^2}$$

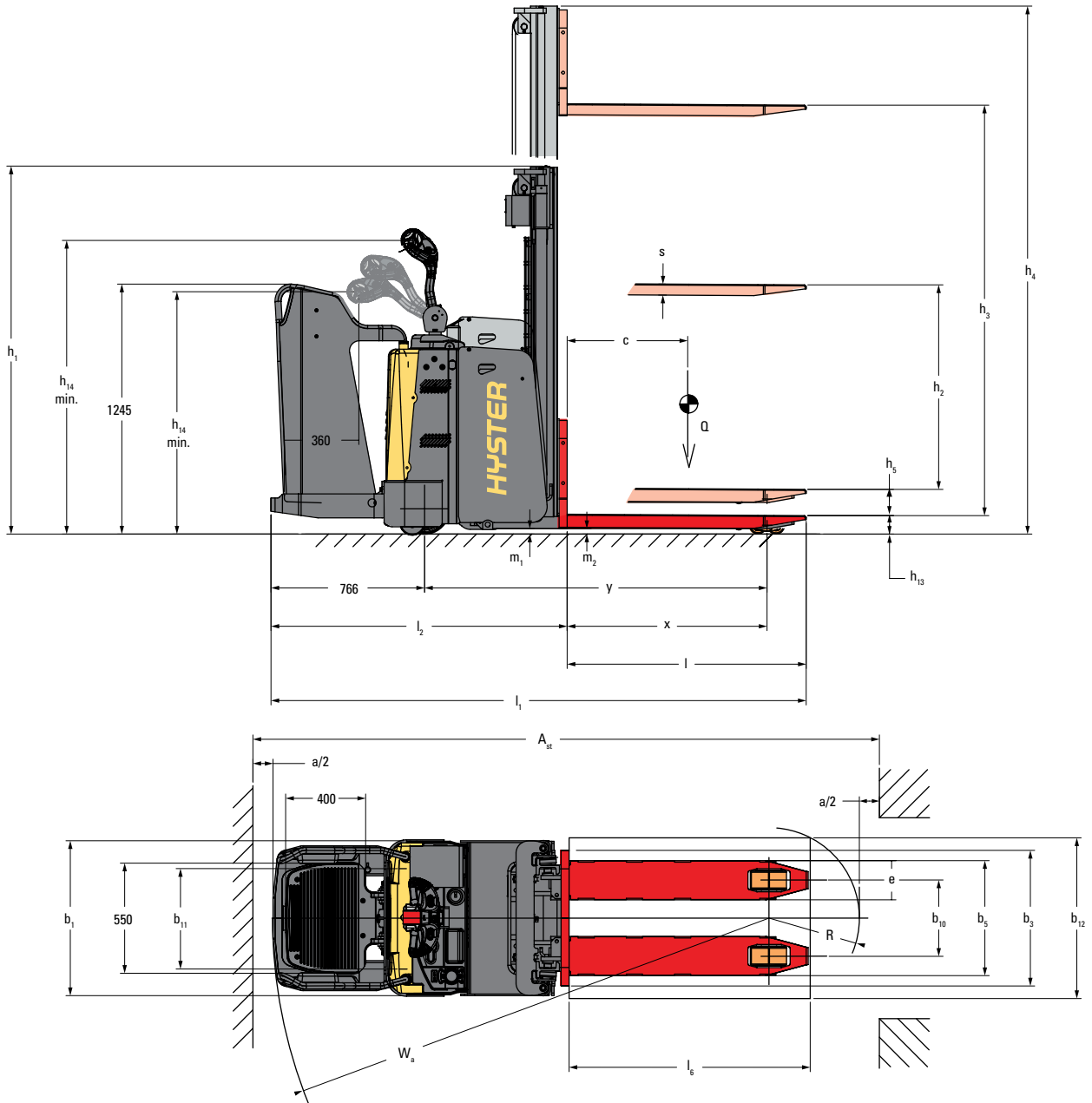
a = Minimum operating clearance  
(VDI standard = 200 mm BITA recommendation = 300 mm)

$l_6$  = Load length



# > TRUCK DIMENSIONS

## P2.OSD SIDE PROTECTION



$$A_{st} = W_s + R + a$$

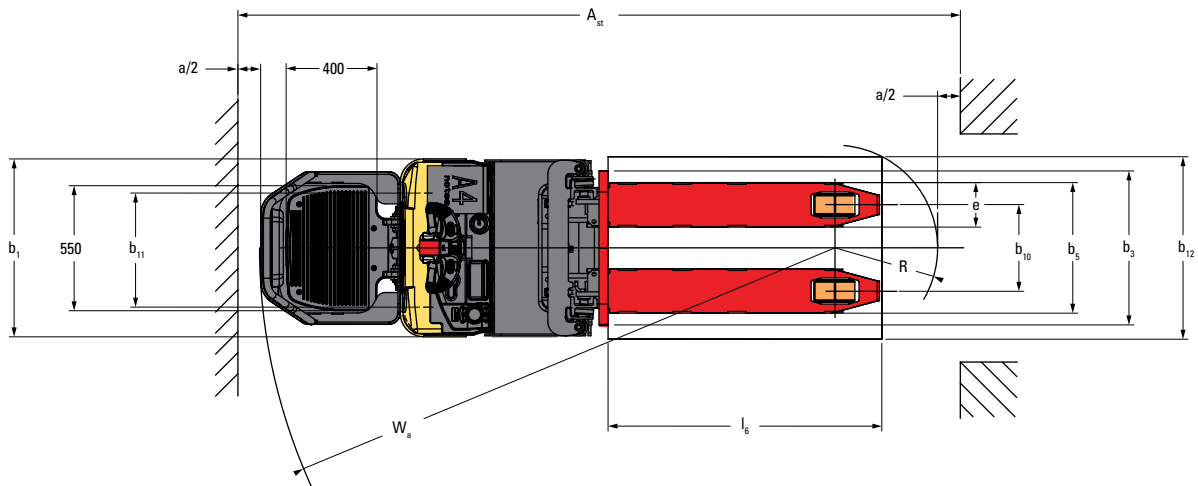
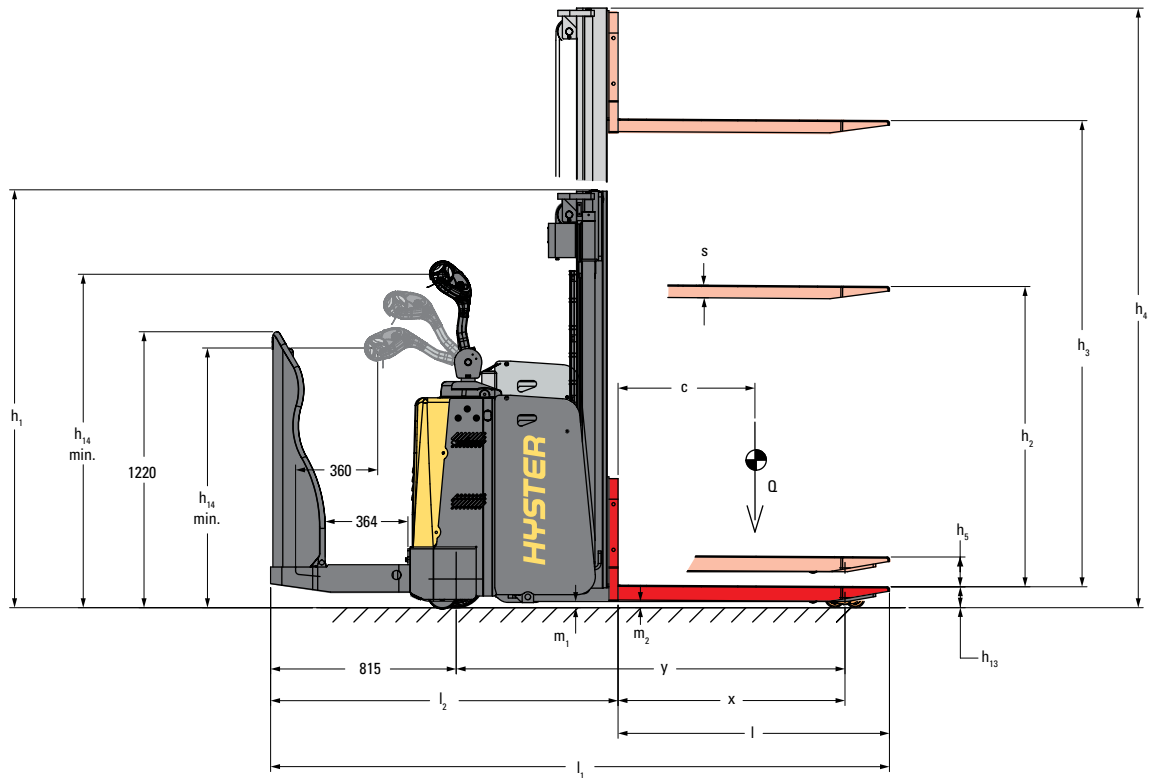
(see lines 4.34.1 & 4.34.2)

$$R = \sqrt{(l_6 - x)^2 + \left(\frac{b_{12}}{2}\right)^2}$$

$a$  = Minimum operating clearance  
(VDI standard = 200 mm BITA recommendation = 300 mm)

$l_6$  = Load length

## P2.OSD BACK PROTECTION



$$A_{st} = W_a + R + a$$

(see lines 4.34.1 & 4.34.2)

$$R = \sqrt{(l_6 - x)^2 + \left(\frac{b_{12}}{2}\right)^2}$$

a = Minimum operating clearance  
(VDI standard = 200 mm BITA recommendation = 300 mm)

$l_6$  = Load length

## > MAST INFORMATION

### 2 STAGE LFL

|        | Lift height<br>h <sub>3</sub> mm | Free Lift<br>h <sub>2</sub> mm | Height, mast lowered<br>h <sub>1</sub> mm (1) | Height, mast extended<br>h <sub>4</sub> mm | Weight (4) |
|--------|----------------------------------|--------------------------------|---|--|------------|
| P2.0SD | 1650                             | 100                            | 1560  | 2325 (2)                                   | 326        |

#### NOTE:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster Truck.

#### MAST TABLE:

- (1) With free lift of 100 mm.
- (2) With load backrest for carriage h<sub>4</sub> + 415 mm.
- (3) With load backrest for carriage h<sub>4</sub> + 495 mm.
- (4) All weights are: mast structures (weldment, cylinders, chain, pulley) + oil  
EXCLUDED: forks, accessories

#### NOTICE


Care must be exercised when handling elevated loads. When the carriage and/or load is elevated, truck stability is reduced. It is important that mast tilt in either direction be kept to a minimum when loads are elevated

Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Hyster products might be subject to change without notice.

Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

 **Safety:** This truck conforms to the current EU requirements.

## > STANDARD AND OPTIONAL EQUIPMENT

| ERGONOMICS                                      | STD | OPT |
|---|-----|-----|
| Tiller Control                                  | X   |     |
| Rocker Switch Directional Control               | X   |     |
| Key Switch Start with Operator Password         |     | X   |
| Key Switch Start                                | X   |     |
| A4 Clip Board                                   |     | X   |
| CONSTRUCTION                                    | STD | OPT |
| Standard Construction                           | X   |     |
| Cold Store Construction (-30° C)                |     | X   |
| Corrosion Protection (SPED)                     |     | X   |
| Standard Platform with Side Arms                | X   |     |
| Platform with Rear Protection (Bob)             |     | X   |
| Platform with Side Protections (Biga)           |     | X   |
| Galvanised Platform With Rear Protection (Bob)  |     | X   |
| Galvanized Platform with Side Arms              |     | X   |
| Galvanised Platform With Side Protection (Biga) |     | X   |
| Less Platform without Side Arms                 |     | X   |
| LIFT  | STD | OPT |
| 2 Stage Limited Free Lift Mast                  | X   |     |
| 2 Stage Full Free Lift Mast                     |     | X   |
| 570mm Carriage                                  | X   |     |
| 1000mm High Load Backrest                       |     | X   |
| 570 x 1190 (x=55mm) Forks                       | X   |     |
| 570 x 1600 (x=65mm) Forks (SPED)                |     | X   |

| OPERATION  | STD | OPT |
|--|-----|-----|
| Audible Reverse Alarm  |     | X   |
| Front Pedestrian Awareness Light (P.A.L.) (SPED)                 |     | X   |
| Hyster Tracker wireless asset management system                  |     | X   |
| Hyster Tracker wireless asset management - Access / Verification |     | X   |
| Hyster Tracker wireless asset managemene Monitoring              |     | X   |
| 254 x 90mm Non-Marking Tophane Drive Wheel                       |     | X   |
| 254 x 90mm Non-Marking Grooved Tophane Drive Wheel               |     | X   |
| 85 x 74.5mm Tandem Polyurethane Load Wheel                       |     | X   |
| 254 x 90mm NDIIthane Drive Wheel                                 | X   |     |
| 254 x 125mm NDIIthane Drive Wheel                                |     | X   |
| 254 x 125mm NDIIthane Conductive Drive Wheel                     |     | X   |
| 85 x 94mm Single NDIIthane Load Wheels                           |     | X   |
| 85 x 74mm Tandem NDIIthane Load Wheels                           | X   |     |
| BATTERIES  | STD | OPT |
| Hyster Standard Type Battery                                     |     | X   |
| Hyster Battery with Aquamatic                                    |     | X   |
| Hyster Battery with Aquamatic and Air Mix                        |     | X   |
| Side Battery Extraction  | X   |     |
| Spare Battery Cable  |     | X   |
| Twin Battery Change Station                                      |     | X   |
| Gravity Feed Water Reservoir                                     |     | X   |
| 665 x 212 x 680mm Battery Compartment (for 300 Ah Battery)       | X   |     |
| 24V 300AH Hyster Battery (BS)                                    |     | X   |
| APPEARANCE   | STD | OPT |
| Hyster paint base truck  | X   |     |
| Special paint base truck   |     | X   |
| SUPPLEMENTAL   | STD | OPT |
| 12 Months / 1,000 Hours Manufacturer's Warranty                  | X   |     |
| 36 Months / 3,000 Hours Extended Warranty                        |     | X   |



- P2.OSD Powered pallet truck with folding platform, double pallet handler.

## DEPENDABILITY

- MOSFET AC/DC Combi controller for traction and hydraulic controls.
- Welded fork construction makes them highly resistant to torsion and heavy loads.
- Tough two-stage mast with high through-visibility.
- Hour meter and battery discharge indicator with lift interrupt fitted.
- Cold store protection for applications to -30 °C.

## PRODUCTIVITY

- Compact chassis design to improve accessibility.
- Operator-friendly tiller head controls for productive load handling.
- Regenerative braking and anti-rollback both available.
- Drive modes tailored around operation needs: pedestrian or stand-on, with or without side arms raised.
- Progressive speed control and steering system ensure optimum performance levels.
- Tandem load wheels and exit/entry rollers.
- Optional key-pad with PIN code for enhanced warehouse management.

## ERGONOMICS

- Ergonomically designed tiller head for maximum operator comfort.
- Generously proportioned folding platform, with built-in suspension.
- Low effort controls ergonomically positioned to reduce operator fatigue.
- Dual lift/lower controls allow operation by either hand.
- 'Corner control' system reduces speed automatically when cornering.
- Adjustable performance settings to suit specific operating conditions.

## COST OF OWNERSHIP

- AC motor provides superior performance and reduced operation costs.
- Power transmission supplied via helicoidal gears, running in oil bath.
- IP54 standards control for protection against dust and water.
- Extended service intervals.

## SERVICEABILITY

- Lift motor construction ensures low maintenance requirements.
- Built-in diagnostic system for preventative maintenance communication reduces downtime.
- Driver Diagnostic Interface (DDI) allows selection of appropriate performance settings for specific applications.
- CANbus technology for increased functionality, reliability and servicing.



# STRONG PARTNERS. TOUGH TRUCKS.™

## FOR DEMANDING OPERATIONS, EVERYWHERE.

Hyster supplies a complete range of warehouse equipment, IC and electric counterbalanced trucks, container handlers and reach stackers. Hyster is committed to being much more than a lift truck supplier.

Our aim is to offer a complete partnership capable of responding to the full spectrum of material handling issues: Whether you need professional consultancy on your fleet management, fully qualified service support, or reliable parts supply, you can depend on Hyster.

Our network of highly trained dealers provides expert, responsive local support. They can offer cost-effective finance packages and introduce effectively managed maintenance programmes to ensure that you get the best possible value. Our business is dealing with your material handling needs so you can focus on the success of your business today and in the future.



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