



# M010E/S

SPEC SHEET

Medium and high level  
order picker

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1,000 kg

## VDI 2198 – GENERAL SPECIFICATIONS – MOE SERIES

|             |                |                                                                   |                                       |                      |             |                          |                   |
|-------------|----------------|-------------------------------------------------------------------|---------------------------------------|----------------------|-------------|--------------------------|-------------------|
| GENERAL     | 1.1            | Manufacturer                                                      |                                       | Yale                 |             |                          |                   |
|             | 1.2            | Model designation                                                 |                                       | MO10E 7 FC           | MO10E 14 FC | MO10E 12                 | MO10E 12 SL       |
|             | 1.3            | Drive                                                             |                                       | Electric (battery)   |             |                          |                   |
|             | 1.4            | Operator type                                                     |                                       | Order-picker         |             |                          |                   |
|             | 1.5            | Rated capacity/Rated load                                         | Q (t)                                 | 1.0                  |             |                          |                   |
|             | 1.6            | Load centre distance                                              | c (mm)                                | 600                  |             |                          |                   |
|             | 1.8            | Load distance, centre of drive axle to fork <sup>(1)</sup>        | x (mm)                                | 144                  |             | 96                       | 166               |
|             | 1.9            | Wheelbase                                                         | y (mm)                                | 1391                 |             |                          |                   |
|             | WEIGHT         | 2.1                                                               | Service weight <sup>(9)</sup>         | kg                   | 1550        | 1750                     | 1600              |
| 2.2         |                | Axle loading, laden front/rear                                    | kg                                    | 350 / 2200           | 350 / 2400  | 350 / 2250               | 350 / 2350        |
| 2.3         |                | Axle loading, unladen front/rear                                  | kg                                    | 900 / 650            | 950 / 800   | 900 / 700                | 950 / 750         |
| TYRES       | 3.1            | Tyres front/rear                                                  |                                       | NDIIThane            |             |                          |                   |
|             | 3.2            | Tyre size, front                                                  | ø (mm x mm)                           | 254 x 125            |             |                          |                   |
|             | 3.3            | Tyre size, rear                                                   | ø (mm x mm)                           | 125 x 94             |             |                          |                   |
|             | 3.5            | Wheels, number front/rear (x = driven wheels)                     |                                       | 1x / 2               |             |                          |                   |
|             | 3.7            | Tread, rear                                                       | b <sub>11</sub> (mm)                  | 660                  |             |                          |                   |
| DIMENSIONS  | 4.2            | Height, mast lowered                                              | h <sub>1</sub> (mm)                   | 1074                 | 1794        | 1654                     |                   |
|             | 4.4            | Lift                                                              | h <sub>3</sub> (mm)                   | 690                  | 1410        | 1010                     |                   |
|             | 4.5            | Height, mast extended <sup>(2)</sup>                              | h <sub>4</sub> (mm)                   | -                    |             | 2664                     |                   |
|             | 4.7            | Height of overhead guard (cabin) <sup>(2)</sup>                   | h <sub>6</sub> (mm)                   | 1957 <sup>(11)</sup> |             | -                        |                   |
|             | 4.8            | Seat height relating to SIP/stand height                          | h <sub>7</sub> (mm)                   | 180                  |             |                          |                   |
|             | 4.11           | Additional lift                                                   | h <sub>9</sub> (mm)                   | -                    |             |                          | 690               |
|             | 4.14           | Stand height, elevated                                            | h <sub>12</sub> (mm)                  | -                    |             | 1190                     |                   |
|             | 4.15           | Height, lowered                                                   | h <sub>13</sub> (mm)                  | 80 <sup>(3)</sup>    |             | 80                       | 80 <sup>(3)</sup> |
|             | 4.19           | Overall length <sup>(1) (8)</sup>                                 | l <sub>1</sub> (mm)                   | 2907                 |             | 2874                     | 2929              |
|             | 4.20           | Length to face of forks <sup>(1) (8)</sup>                        | l <sub>2</sub> (mm)                   | 1767                 |             | 1719                     | 1789              |
|             | 4.21           | Overall width <sup>(4)</sup>                                      | b <sub>1</sub> /b <sub>2</sub> (mm)   | 796                  |             | 780                      |                   |
|             | 4.22           | Fork dimensions <sup>(5)</sup>                                    | s/e/l (mm)                            | 60 / 180 / 1140      |             | 60 / 180 / 1155          | 60 / 180 / 1140   |
|             | 4.23           | Fork carriage ISO 2328, class/type A, B                           |                                       | No                   |             |                          |                   |
|             | 4.24           | Fork-carriage width <sup>(6)</sup>                                | b <sub>3</sub> (mm)                   | 700                  |             | -                        | 700               |
|             | 4.25           | Distance between fork-arms <sup>(7)</sup>                         | b <sub>5</sub> (mm)                   | 560                  |             | 526                      | 560               |
|             | 4.31           | Ground clearance, laden, below mast                               | m <sub>1</sub> (mm)                   | 135                  |             | 135                      | 135               |
|             | 4.32           | Ground clearance, center of wheelbase                             | m <sub>2</sub> (mm)                   | 30                   |             |                          |                   |
|             | 4.33           | Load dimension b <sub>12</sub> × l <sub>6</sub> lengthwise        | b <sub>12</sub> × l <sub>6</sub> (mm) | 800 x 1200           |             |                          |                   |
|             | 4.34.1         | Aisle width for pallets 1000mm x 1200mm crossways <sup>(17)</sup> | A <sub>st</sub> (mm)                  | 3270                 |             | 3226                     | 3291              |
|             | 4.34.2         | Aisle width for pallets 800mm x 1200mm lengthwise <sup>(17)</sup> | A <sub>st</sub> (mm)                  | 3238                 |             | 3193                     | 3260              |
| 4.35        | Turning radius | W <sub>a</sub> (mm)                                               | 1636                                  |                      |             |                          |                   |
| PERFORMANCE | 5.1            | Travel speed, laden/unladen                                       | km/h                                  | 10.1 / 10.5          |             |                          |                   |
|             | 5.2            | Lift speed, laden/unladen (Cab)                                   | m/s                                   | -                    |             | 0.17 / 0.25              | 0.11 / 0.21       |
|             | 5.2.1          | Lift speed, laden/unladen (SL)                                    | m/s                                   | 0.09 / 0.18          |             | -                        | 0.09 / 0.18       |
|             | 5.3            | Lowering speed, laden/unladen (Cab)                               | m/s                                   | -                    |             | 0.29 / 0.25              | 0.26 / 0.14       |
|             | 5.3.1          | Lowering speed, laden/unladen (SL)                                | m/s                                   | 0.20 / 0.07          |             | -                        | 0.20 / 0.07       |
|             | 5.7            | Gradeability, laden/unladen                                       | %                                     | 5 / 8                |             |                          |                   |
|             | 5.8            | Max. gradeability, laden/unladen                                  | %                                     | 5 / 8                |             |                          |                   |
|             | 5.9            | Acceleration time, laden/unladen                                  | s                                     | 5.5 / 7.5            |             |                          |                   |
|             | 5.10           | Service brake                                                     |                                       | Electromagnetic      |             |                          |                   |
|             | ELECTRIC       | 6.1                                                               | Drive motor S2 60 minute rating       | kW                   | 4           |                          |                   |
| 6.2         |                | Lift motor, S3 15% rating                                         | kW                                    | 2                    |             | 3                        |                   |
| 6.3         |                | Battery according to DIN 43531/35/36 A,B,C, no                    |                                       | No                   |             |                          |                   |
| 6.4         |                | Battery voltage/nominal capacity K <sub>5</sub>                   | V/Ah                                  | 24 / 500             |             | 24 / 620 <sup>(10)</sup> |                   |
| 6.5         |                | Battery weight <sup>(9)</sup>                                     | kg                                    | 370                  |             | 485                      |                   |
| 6.6         |                | Energy consumption according to VDI cycle                         | kWh/h<br>@ no. of cycles              | 2.28                 | 2.35        | 2.30                     | 2.38              |
|             | 8.1            | Type of drive unit                                                |                                       | AC-Controller        |             |                          |                   |
|             | 10.7           | Sound pressure level at the driver's seat                         | dB (A)                                | < 70                 |             |                          |                   |

- (1) Note for SL model:  
With FEM like carriage and forks 80 x 30 mm + 20 mm  
With FEM like carriage and forks 100 x 35 mm + 25 mm

- (2) Note for models with over head guard: with lift interrupt mounted on OHG h<sub>6</sub>+ 80 mm

- (3) Note for SL model:  
With FEM like carriage and forks 80 x 30 mm and 100 x 35 mm h<sub>13</sub>= 40 mm

- (4) Note for SL model:  
With FEM like carriage b<sub>2</sub>= 800 mm

- (5) Note for SL model:  
Available also FEM like carriage and fork size 80 x 30 mm (600 Kg @ 600 mm, 800 Kg @ 500 mm, 1000 Kg @ 400 mm) and 100 x 35 mm with 1000 Kg @ 600 mm

- (6) Note for SL model:  
With FEM like carriage b<sub>3</sub>= 800 mm

- (7) Note for SL model:  
With FEM like carriage and forks 80 x 30 mm b<sub>5</sub>= 753 mm  
With FEM like carriage and forks 100 x 35 mm b<sub>5</sub>= 773 mm

- (8) With wire guidance l<sub>1</sub> and l<sub>2</sub> + 40mm

- (9) These values may vary of +/- 5%

- (10) Available battery 24V / 560Ah (476kg)

- (11) Model without cabin; the value is referred to the overall height, without load backrest

- (12) Models name referred to h<sub>12</sub>

- (13) Available models K1.0L AC 1.9 SL / MO10E AC 19 SL

- (14) Available models K1.0L AC 1.9 WP / MO10E AC 19 WP

- (15) Available models K1.0L AC 3.2-3.6-4.0-4.4 SL / MO10E AC 32-36-40-44 SL

- (16) Available models K1.0L AC 3.2-3.6-4.0-4.4 WP / MO10E AC 32-36-40-44 WP

- (17) Transfer aisle widths (lines 4.34.1 & 4.34.2) are based on the VDI standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of the truck.

## VDI 2198 – GENERAL SPECIFICATIONS – MOE SERIES

|             |        |                                                                   |                                       |                             |                             |                             |                             |
|-------------|--------|-------------------------------------------------------------------|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| GENERAL     | 1.1    | Manufacturer                                                      |                                       | Yale                        |                             |                             |                             |
|             | 1.2    | Model designation                                                 |                                       | MO10E 17 SL <sup>(13)</sup> | MO10E 17 WP <sup>(14)</sup> | MO10E 48 SL <sup>(15)</sup> | MO10E 48 WP <sup>(16)</sup> |
|             | 1.3    | Drive                                                             |                                       | Electric (battery)          |                             |                             |                             |
|             | 1.4    | Operator type                                                     |                                       | Order-picker                |                             |                             |                             |
|             | 1.5    | Rated capacity/Rated load                                         | Q (t)                                 | 1.0                         |                             |                             |                             |
|             | 1.6    | Load centre distance                                              | c (mm)                                | 600                         |                             |                             |                             |
|             | 1.8    | Load distance, centre of drive axle to fork <sup>(1)</sup>        | x (mm)                                | 166                         |                             | 158                         |                             |
|             | 1.9    | Wheelbase                                                         | y (mm)                                | 1391                        |                             | 1511                        |                             |
| WEIGHT      | 2.1    | Service weight <sup>(9)</sup>                                     | kg                                    | 1800                        | 2000                        | 2736                        | 2875                        |
|             | 2.2    | Axle loading, laden front/rear                                    | kg                                    | 350 / 2450                  | 350 / 2650                  | 1034 / 2702                 | 1223 / 2652                 |
|             | 2.3    | Axle loading, unladen front/rear                                  | kg                                    | 950 / 850                   | 950 / 1050                  | 1523 / 1213                 | 1755 / 1120                 |
| TYRES       | 3.1    | Tyres front/rear                                                  |                                       | NDIIThane                   |                             |                             |                             |
|             | 3.2    | Tyre size, front                                                  | ø (mm x mm)                           | 254 x 125                   |                             |                             |                             |
|             | 3.3    | Tyre size, rear                                                   | ø (mm x mm)                           | 125 x 94                    |                             |                             |                             |
|             | 3.5    | Wheels, number front/rear (x = driven wheels)                     |                                       | 1x / 2                      |                             |                             |                             |
| DIMENSIONS  | 3.7    | Tread, rear                                                       | b <sub>11</sub> (mm)                  | 660                         |                             | 830                         |                             |
|             | 4.2    | Height, mast lowered                                              | h <sub>1</sub> (mm)                   | 2270                        |                             | 3075                        |                             |
|             | 4.4    | Lift                                                              | h <sub>3</sub> (mm)                   | 1530                        |                             | 4628                        |                             |
|             | 4.5    | Height, mast extended <sup>(2)</sup>                              | h <sub>4</sub> (mm)                   | 3800                        |                             | 6898                        |                             |
|             | 4.7    | Height of overhead guard (cabin) <sup>(2)</sup>                   | h <sub>6</sub> (mm)                   | 2270                        |                             |                             |                             |
|             | 4.8    | Seat height relating to SIP/stand height                          | h <sub>7</sub> (mm)                   | 180                         |                             |                             |                             |
|             | 4.11   | Additional lift                                                   | h <sub>9</sub> (mm)                   | 690                         | -                           | 690                         | -                           |
|             | 4.14   | Stand height, elevated                                            | h <sub>12</sub> (mm)                  | 1710 <sup>(12)</sup>        |                             | 4808 <sup>(12)</sup>        |                             |
|             | 4.15   | Height, lowered                                                   | h <sub>13</sub> (mm)                  | 80 <sup>(3)</sup>           | 80                          | 80                          | 80 <sup>(3)</sup>           |
|             | 4.19   | Overall length <sup>(1) (8)</sup>                                 | l <sub>1</sub> (mm)                   | 2929                        | 3099                        | 3040                        | 3220                        |
|             | 4.20   | Length to face of forks <sup>(1) (8)</sup>                        | l <sub>2</sub> (mm)                   | 1789                        |                             | 1900                        | 1910                        |
|             | 4.21   | Overall width <sup>(4)</sup>                                      | b <sub>1</sub> /b <sub>2</sub> (mm)   | 780                         | 780 / 996                   | 950                         | 950 / 996                   |
|             | 4.22   | Fork dimensions <sup>(5)</sup>                                    | s/e/l (mm)                            | 60 / 180 / 1140             |                             |                             |                             |
|             | 4.23   | Fork carriage ISO 2328, class/type A, B                           |                                       | No                          |                             |                             |                             |
|             | 4.24   | Fork-carriage width <sup>(4)</sup>                                | b <sub>3</sub> (mm)                   | 700                         | 880                         | 700                         | 880                         |
|             | 4.25   | Distance between fork-arms <sup>(7)</sup>                         | b <sub>5</sub> (mm)                   | 560                         |                             |                             |                             |
|             | 4.31   | Ground clearance, laden, below mast                               | m <sub>1</sub> (mm)                   | 135                         |                             |                             |                             |
|             | 4.32   | Ground clearance, center of wheelbase                             | m <sub>2</sub> (mm)                   | 30                          |                             |                             |                             |
|             | 4.33   | Load dimension b <sub>12</sub> × l <sub>6</sub> lengthwise        | b <sub>12</sub> × l <sub>6</sub> (mm) | 800 x 1200                  |                             |                             |                             |
|             | 4.34.1 | Aisle width for pallets 1000mm x 1200mm crossways <sup>(17)</sup> | A <sub>st</sub> (mm)                  | 3291                        | -                           | 3401                        | -                           |
|             | 4.34.2 | Aisle width for pallets 800mm x 1200mm lengthwise <sup>(17)</sup> | A <sub>st</sub> (mm)                  | 3260                        | -                           | 3370                        | -                           |
|             | 4.35   | Turning radius                                                    | W <sub>a</sub> (mm)                   | 1636                        |                             | 1754                        |                             |
| PERFORMANCE | 5.1    | Travel speed, laden/unladen                                       | km/h                                  | 10.1 / 10.5                 |                             | 8.6 / 9.5                   |                             |
|             | 5.2    | Lift speed, laden/unladen (Cab)                                   | m/s                                   | 0.11 / 0.21                 | 0.15 / 0.20                 | 0.15 / 0.20                 |                             |
|             | 5.2.1  | Lift speed, laden/unladen (SL)                                    | m/s                                   | 0.09 / 0.18                 | -                           | 0.09 / 0.18                 | -                           |
|             | 5.3    | Lowering speed, laden/unladen (Cab)                               | m/s                                   | 0.26 / 0.14                 | 0.28 / 0.24                 | 0.27 / 0.23                 | 0.28 / 0.24                 |
|             | 5.3.1  | Lowering speed, laden/unladen (SL)                                | m/s                                   | 0.20 / 0.07                 | -                           | 0.20 / 0.07                 | -                           |
|             | 5.7    | Gradeability, laden/unladen                                       | %                                     | 5 / 8                       |                             |                             |                             |
|             | 5.8    | Max. gradeability, laden/unladen                                  | %                                     | 5 / 8                       |                             |                             |                             |
|             | 5.9    | Acceleration time, laden/unladen                                  | s                                     | 5.5 / 7.5                   |                             |                             |                             |
| ELECTRIC    | 5.10   | Service brake                                                     |                                       | Electromagnetic             |                             |                             |                             |
|             | 6.1    | Drive motor S2 60 minute rating                                   | kW                                    | 4                           |                             |                             |                             |
|             | 6.2    | Lift motor, S3 15% rating                                         | kW                                    | 3                           |                             |                             |                             |
|             | 6.3    | Battery according to DIN 43531/35/36 A,B,C, no                    |                                       | No                          |                             |                             |                             |
|             | 6.4    | Battery voltage/nominal capacity K <sub>5</sub>                   | V/Ah                                  | 24 / 620 <sup>(10)</sup>    |                             |                             |                             |
|             | 6.5    | Battery weight <sup>(9)</sup>                                     | kg                                    | 485                         |                             |                             |                             |
|             | 6.6    | Energy consumption according to VDI cycle                         | kWh/h<br>@ no. of cycles              | 2.40                        |                             | 2.86                        | 2.90                        |
|             | 8.1    | Type of drive unit                                                |                                       | AC-Controller               |                             |                             |                             |
|             | 10.7   | Sound pressure level at the driver's seat                         | dB (A)                                | < 70                        |                             |                             |                             |

- (1) Note for SL model:  
With FEM like carriage and forks 80 x 30 mm + 20 mm  
With FEM like carriage and forks 100 x 35 mm + 25 mm

- (2) Note for models with over head guard: with lift interrupt mounted on OHG h<sub>6</sub>+ 80 mm

- (3) Note for SL model:  
With FEM like carriage and forks 80 x 30 mm and 100 x 35 mm h<sub>13</sub>= 40 mm

- (4) Note for SL model:  
With FEM like carriage b<sub>2</sub>= 800 mm

- (5) Note for SL model:  
Available also FEM like carriage and fork size 80 x 30 mm (600 Kg @ 600 mm, 800 Kg @ 500 mm, 1000 Kg @ 400 mm) and 100 x 35 mm with 1000 Kg @ 600 mm

- (6) Note for SL model:  
With FEM like carriage b<sub>3</sub>= 800 mm

- (7) Note for SL model:  
With FEM like carriage and forks 80 x 30 mm b<sub>5</sub>= 753 mm  
With FEM like carriage and forks 100 x 35 mm b<sub>5</sub>= 773 mm

- (8) With wire guidance l<sub>1</sub> and l<sub>2</sub> + 40mm

- (9) These values may vary of +/- 5%

- (10) Available battery 24V / 560Ah (476kg)

- (11) Model without cabin; the value is referred to the overall height, without load backrest

- (12) Models name referred to h<sub>12</sub>

- (13) Available models K1.0L AC 1.9 SL / MO10E AC 19 SL

- (14) Available models K1.0L AC 1.9 WP / MO10E AC 19 WP

- (15) Available models K1.0L AC 3.2-3.6-4.0-4.4 SL / MO10E AC 32-36-40-44 SL

- (16) Available models K1.0L AC 3.2-3.6-4.0-4.4 WP / MO10E AC 32-36-40-44 WP

- (17) Transfer aisle widths (lines 4.34.1 & 4.34.2) are based on the VDI standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of the truck.

All values are nominal values and they are subject to tolerances.

## VDI 2198 – GENERAL SPECIFICATIONS – M010, M010S

|            |             |                                                                             |                                                      |                          |                               |                               |      |
|------------|-------------|-----------------------------------------------------------------------------|------------------------------------------------------|--------------------------|-------------------------------|-------------------------------|------|
| GENERAL    | 1.1         | Manufacturer                                                                |                                                      | Yale                     |                               |                               |      |
|            | 1.2         | Model designation                                                           |                                                      | M010                     | M010S                         |                               |      |
|            | 1.3         | Drive                                                                       |                                                      | Electric (battery)       |                               |                               |      |
|            | 1.4         | Operator type                                                               |                                                      | Order-picker             |                               |                               |      |
|            | 1.5         | Rated capacity/Rated load                                                   | Q (t)                                                | 1.0                      |                               |                               |      |
|            | 1.6         | Load centre distance                                                        | c (mm)                                               | 600                      |                               |                               |      |
|            | 1.8         | Load distance, centre of drive axle to fork <sup>(1)</sup>                  | x (mm)                                               | 190                      | 150 <sup>(2)</sup>            | 205 <sup>(18)</sup>           |      |
|            | 1.9         | Wheelbase                                                                   | y (mm)                                               | 1534.5                   | 1574.5                        | 1674.5                        |      |
|            | WEIGHT      | 2.1                                                                         | Service weight <sup>(14)</sup>                       | kg                       | 2890                          | 3259                          | 4073 |
| 2.2        |             | Axle loading, laden front/rear                                              | kg                                                   | 1060 / 2830              | 1509 / 2750                   | 1763 / 3310                   |      |
| 2.3        |             | Axle loading, unladen front/rear                                            | kg                                                   | 1650 / 1240              | 1942 / 1317                   | 2204 / 1869                   |      |
| TYRES      | 3.1         | Tyres front/rear                                                            |                                                      | NDIIthane®               |                               |                               |      |
|            | 3.2         | Tyre size, front                                                            | ø (mm x mm)                                          | 343 x 140                |                               |                               |      |
|            | 3.3         | Tyre size, rear                                                             | ø (mm x mm)                                          | 200 x 80                 |                               | 200 x 100                     |      |
| DIMENSIONS | 3.5         | Wheels, number front/rear (x = driven wheels)                               |                                                      | 1 x / 2                  |                               |                               |      |
|            | 3.7         | Tread, rear                                                                 | b <sub>11</sub> (mm)                                 | 877                      | 977                           | 1057                          |      |
|            | 4.2         | Height, mast lowered                                                        | h <sub>1</sub> (mm)                                  | 3070                     | 3320                          | 3720                          |      |
|            | 4.4         | Lift                                                                        | h <sub>3</sub> (mm)                                  | 4670                     | 5170                          | 8895                          |      |
|            | 4.5         | Height, mast extended <sup>(3) (4)</sup>                                    | h <sub>4</sub> (mm)                                  | 7040                     | 7540                          | 11265                         |      |
|            | 4.7         | Height of overhead guard (cabin) <sup>(3) (4)</sup>                         | h <sub>6</sub> (mm)                                  | 2370                     |                               |                               |      |
|            | 4.8         | Seat height relating to SIP/stand height                                    | h <sub>7</sub> (mm)                                  | 250                      |                               |                               |      |
|            | 4.11        | Additional Lift                                                             | h <sub>9</sub> (mm)                                  | 770                      |                               |                               |      |
|            | 4.14        | Stand height, elevated                                                      | h <sub>12</sub> (mm)                                 | 4920                     | 5420                          | 9145                          |      |
|            | 4.15        | Height, lowered <sup>(5)</sup>                                              | h <sub>13</sub> (mm)                                 | 80                       |                               |                               |      |
|            | 4.19        | Overall length <sup>(1)</sup>                                               | l <sub>1</sub> (mm)                                  | 3087                     |                               | 3242                          |      |
|            | 4.20        | Length to face of forks <sup>(1)</sup>                                      | l <sub>2</sub> (mm)                                  | 1947                     |                               | 2102                          |      |
|            | 4.21        | Overall width                                                               | b <sub>1</sub> /b <sub>2</sub> (mm)                  | 1000 / 1000              | 1100 / 1100                   | 1100 / 1200                   |      |
|            | 4.22        | Fork dimensions <sup>(4)</sup>                                              | s/e/l (mm)                                           | 60 / 180 / 1140          |                               |                               |      |
|            | 4.23        | Fork carriage ISO 2328, class/type A, B                                     |                                                      | No                       |                               |                               |      |
|            | 4.24        | Fork-carriage width <sup>(7)</sup>                                          | b <sub>3</sub> (mm)                                  | 780 <sup>(13)</sup>      |                               |                               |      |
|            | 4.25        | Distance between fork-arms <sup>(8)</sup>                                   | b <sub>5</sub> (mm)                                  | 560 <sup>(14)</sup>      |                               |                               |      |
|            | 4.27        | Width across guide rollers                                                  | b <sub>6</sub> (mm)                                  | 1130 <sup>(15)</sup>     | 1230 <sup>(19)</sup>          | 1430                          |      |
|            | PERFORMANCE | 4.31                                                                        | Ground clearance, laden, below mast                  | m <sub>1</sub> (mm)      | 80                            |                               |      |
|            |             | 4.32                                                                        | Ground clearance, centre of wheelbase <sup>(9)</sup> | m <sub>2</sub> (mm)      | 60                            |                               |      |
| 4.34.1     |             | Transfer aisle width for pallets 1000mm x 1200mm lengthwise <sup>(17)</sup> | A <sub>st</sub> (mm)                                 | 3444                     | 3448                          | 3596                          |      |
| 4.35       |             | Turning radius                                                              | W <sub>a</sub> (mm)                                  | 1767                     | 1808                          | 1905                          |      |
| 5.1        |             | Travel speed, laden/unladen                                                 | km/h                                                 | 10 / 10                  |                               |                               |      |
| 5.2        |             | Lift speed, laden/unladen (Cab)                                             | m/s                                                  | 0.35 / 0.42              | 0.31 / 0.42                   |                               |      |
| 5.2.1      |             | Lift speed, laden/unladen (SL)                                              | m/s                                                  | 0.22 / 0.24              | 0.2 / 0.24                    |                               |      |
| 5.3        |             | Lowering speed, laden/unladen (Cab)                                         | m/s                                                  | 0.37 / 0.37              | 0.38 / 0.38                   |                               |      |
| 5.3.1      |             | Lowering speed, laden/unladen (SL)                                          | m/s                                                  | 0.14 / 0.12              |                               |                               |      |
| 5.7        |             | Gradeability, laden/unladen                                                 | %                                                    | 6.3                      | 6.2                           | 5.8                           |      |
| ELECTRIC   | 5.10        | Service brake                                                               |                                                      | Electromagnetic          |                               |                               |      |
|            | 6.1         | Drive motor S2 60 minute rating                                             | km/h                                                 | 6.4                      |                               |                               |      |
|            | 6.2         | Lift motor, S3 15% rating                                                   | km/h                                                 | 12                       |                               |                               |      |
|            | 6.3         | Battery according to DIN 43531/35/36 A,B,C, no                              |                                                      | No                       | DIN 43531 B                   |                               |      |
|            | 6.4         | Battery voltage/nominal capacity K5                                         | V/Ah                                                 | 48 / 310 <sup>(10)</sup> | 48 / 465 <sup>(11) (20)</sup> | 48 / 620 <sup>(12) (20)</sup> |      |
|            | 6.5         | Battery weight <sup>(14)</sup>                                              | kg                                                   | 532                      | 750                           | 945                           |      |
|            | 6.6         | Energy consumption according to VDI cycle                                   | kWh/h<br>@ no. of cycles                             | 3.27kW                   |                               |                               |      |
|            | 8.1         | Type of drive unit                                                          |                                                      | AC-Controller            | AC-Controller                 |                               |      |
|            | 10.7        | Sound pressure level at the driver's seat                                   | dB (A)                                               | 59                       |                               |                               |      |

(1) With FEM carriage and Forks 100 x 35 add + 25mm

(2) With 3 stage mast add 55mm

(3) With Lift Interrupt mounted on OHG: h<sub>6</sub> and h<sub>4</sub> are increased by 105mm

(4) With flashing light fitted on Over Head Guard: h<sub>6</sub> and h<sub>4</sub> are increased by 120mm

(5) With Fem like carriage and Forks 80 x 30 and 100 x 35 h<sub>13</sub> = 40mm

(6) Available also FEM carriage and fork size 100 x 35 with 1000Kg @ 600mm

(7) With FEM carriage b<sub>3</sub> = 800mm

(8) With FEM carriage and Forks 100 x 35 b<sub>5</sub> max = 773mm

(9) Sensor height 30mm from the ground

(10) Additional battery available: 48/280 (541kg)

(11) Additional battery available: 48/420 (746kg)

(12) Additional battery available: 48/560 (937kg)

(13) Available 700mm and 860mm

(14) Available 520mm, 680mm, 830mm

(15) Available 1075mm and 1330mm

(16) These values may vary of +/- 5%

(17) Transfer aisle widths (lines 4.34.1 & 4.34.2) are based on the VDI standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100mm to the total clearance (dimension a) for extra operating margin at the rear of the truck

(18) With 2 stage mast reduce 55mm

(19) Available 1175mm and 1430mm

(20) Available Li-ion battery 48V / 360 (937kg)

## VDI 2198 – GENERAL SPECIFICATIONS – M010S WP

|             |      |                                                                      |                                     |                             |                             |
|-------------|------|----------------------------------------------------------------------|-------------------------------------|-----------------------------|-----------------------------|
| GENERAL     | 1.1  | Manufacturer                                                         |                                     | Yale                        |                             |
|             | 1.2  | Model designation                                                    |                                     | <b>M010S WP</b>             |                             |
|             | 1.3  | Drive                                                                |                                     | Electric (battery)          |                             |
|             | 1.4  | Operator type                                                        |                                     | Order-picker                |                             |
|             | 1.5  | Rated capacity/Rated load                                            | Q (t)                               | 1.0                         |                             |
|             | 1.6  | Load centre distance                                                 | c (mm)                              | 600                         |                             |
|             | 1.8  | Load distance, centre of drive axle to fork                          | x (mm)                              | 162.5                       |                             |
|             | 1.9  | Wheelbase                                                            | y (mm)                              | 1574.5                      | 1674.5                      |
| WEIGHT      | 2.1  | Service weight <sup>(1)</sup>                                        | kg                                  | 3343                        | 4161                        |
|             | 2.2  | Axle loading, laden front/rear                                       | kg                                  | 1539 / 2804                 | 1573 / 3588                 |
|             | 2.3  | Axle loading, unladen front/rear                                     | kg                                  | 19920 / 1351                | 2154 / 2007                 |
| TYRES       | 3.1  | Tyres front/rear                                                     |                                     | Vulkollan                   |                             |
|             | 3.2  | Tyre size, front                                                     | ø (mm x mm)                         | 343 x 140                   |                             |
|             | 3.3  | Tyre size, rear                                                      | ø (mm x mm)                         | 200 x 80                    | 200 x 100                   |
|             | 3.5  | Wheels, number front/rear (x = driven wheels)                        |                                     | 1 x / 2                     |                             |
|             | 3.7  | Track width, rear                                                    | b <sub>11</sub> (mm)                | 977                         | 1057                        |
| DIMENSIONS  | 4.2  | Height, mast lowered                                                 | h <sub>1</sub> (mm)                 | 3320                        | 3470                        |
|             | 4.4  | Lift                                                                 | h <sub>3</sub> (mm)                 | 5170                        | 8145                        |
|             | 4.5  | Height, mast extended <sup>(2) (3)</sup>                             | h <sub>4</sub> (mm)                 | 7540                        | 10515                       |
|             | 4.7  | Height of overhead guard (cabin) <sup>(2) (3)</sup>                  | h <sub>6</sub> (mm)                 | 2370                        | 2370                        |
|             | 4.8  | Seat height relating to SIP/stand height                             | h <sub>7</sub> (mm)                 | 250                         |                             |
|             | 4.14 | Stand height, elevated                                               | h <sub>12</sub> (mm)                | 5420                        | 8395                        |
|             | 4.15 | Height, lowered                                                      | h <sub>13</sub> (mm)                | 80                          |                             |
|             | 4.19 | Overall length                                                       | l <sub>1</sub> (mm)                 | 3260                        | 3360                        |
|             | 4.20 | Length to face of forks                                              | l <sub>2</sub> (mm)                 | 1960                        | 2060                        |
|             | 4.21 | Overall width                                                        | b <sub>1</sub> /b <sub>2</sub> (mm) | 1100 / 1100                 | 1100 / 1200                 |
|             | 4.22 | Fork dimensions                                                      | s/e/l (mm)                          | 60 / 180 / 1150             |                             |
|             | 4.23 | Fork carriage ISO 2328, class/type A, B                              |                                     | No                          |                             |
|             | 4.24 | Fork-carriage width                                                  | b <sub>3</sub> (mm)                 | 1080                        | 1280                        |
|             | 4.25 | Distance between fork-arms                                           | b <sub>5</sub> (mm)                 | 560                         |                             |
|             | 4.27 | Width across guide rollers                                           | b <sub>6</sub> (mm)                 | 1230 <sup>(4)</sup>         | 1430                        |
|             | 4.31 | Ground clearance, laden, below mast                                  | m <sub>1</sub> (mm)                 | 80                          |                             |
|             | 4.32 | Ground clearance, centre of wheelbase                                | m <sub>2</sub> (mm)                 | 60                          |                             |
|             | 4.34 | Aisle width without pallet or with pallet within cage <sup>(5)</sup> | Ast (mm)                            | 3578                        | 3714                        |
|             | 4.35 | Turning radius                                                       | Wa (mm)                             | 1808                        | 1905                        |
| PERFORMANCE | 5.1  | Travel speed, laden/unladen                                          | km/h                                | 10 / 10                     |                             |
|             | 5.2  | Lift speed, laden/unladen (Cab)                                      | m/s                                 | 0.37 / 0.43                 |                             |
|             | 5.3  | Lowering speed, laden/unladen (Cab)                                  | m/s                                 | 0.38 / 0.38                 |                             |
|             | 5.7  | Gradeability, laden/unladen                                          | %                                   | -                           |                             |
|             | 5.10 | Service brake                                                        |                                     | Electromagnetic             |                             |
| ELECTRIC    | 6.1  | Drive motor, S2 60 minute rating                                     | kW                                  | 6.4                         |                             |
|             | 6.2  | Lift motor S3 15% rating                                             | kW                                  | 12                          |                             |
|             | 6.3  | Battery according to DIN 43531/35/36 A,B,C, no                       |                                     | DIN 43531 B                 |                             |
|             | 6.4  | Battery voltage/nominal capacity K5                                  | V/Ah                                | 48 / 465 <sup>(6) (8)</sup> | 48 / 620 <sup>(7) (8)</sup> |
|             | 6.5  | Battery weight <sup>(1)</sup>                                        | kg                                  | 750                         | 945                         |
|             | 6.6  | Energy consumption according to VDI cycle                            | kWh/h                               | 3.27kW                      |                             |
|             | 8.1  | Type of drive unit                                                   |                                     | AC-Controller               |                             |
|             | 10.7 | Sound pressure level at the driver's seat                            | dB (A)                              | < 70                        |                             |

(1) These values may vary of +/- 5%

(2) With Lift Interrupt mounted on Over Head Guard h<sub>6</sub> and h<sub>4</sub> are increased by 105mm

(3) With flashing light fitted on Over Head Guard h<sub>6</sub> and h<sub>4</sub> are increased by 120mm

(4) Available 1175mm and 1430mm

(5) Transfer aisle widths (lines 4.34.1 & 4.34.2) are based on the VDI standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of the truck

(6) Additional battery available: 48/420 (746kg)

(7) Additional battery available: 48/560 (937kg)

(8) Available Li-ion battery 48V 360 (937kg)

**All values are nominal values and they are subject to tolerances.**

### MAST DIMENSIONS - 1 STAGE - M010E 12, M010E SL

| Lift height<br>h <sub>3</sub> (mm) | Fork lift (pallet forks)<br>H (mm) <sup>(1)(2)</sup> | Height, mast lowered<br>h <sub>1</sub> (mm) | Height, mast extended<br>h <sub>4</sub> (mm) | Stand height, elevated<br>h <sub>12</sub> (mm) |
|------------------------------------|------------------------------------------------------|---------------------------------------------|----------------------------------------------|------------------------------------------------|
| 1010                               | 1780                                                 | 1654                                        | 2664                                         | 1190                                           |

### MAST DIMENSIONS - 1 STAGE - M010E 17 SL, M010E 17 WP

| Lift height<br>h <sub>3</sub> (mm) | Fork lift (pallet forks)<br>H (mm) <sup>(1)(2)</sup> | Height, mast lowered<br>h <sub>1</sub> (mm) | Height, mast extended<br>h <sub>4</sub> (mm) | Stand height, elevated<br>h <sub>12</sub> (mm) |
|------------------------------------|------------------------------------------------------|---------------------------------------------|----------------------------------------------|------------------------------------------------|
| 1530                               | 2300                                                 | 2270                                        | 3800                                         | 1710                                           |
| 1690                               | 2460                                                 | 2270                                        | 3960                                         | 1870                                           |

### MAST DIMENSIONS - 2 STAGE LFL - M010E 48 SL, M010E 48 WP

| Lift height<br>h <sub>3</sub> (mm) | Fork lift<br>H (mm) | Height, mast lowered<br>h <sub>1</sub> (mm) | Height, mast extended<br>h <sub>4</sub> (mm) | Stand height, elevated<br>h <sub>12</sub> (mm) |
|------------------------------------|---------------------|---------------------------------------------|----------------------------------------------|------------------------------------------------|
| 3028                               | 3798                | 2275                                        | 5298                                         | 3208                                           |
| 3428                               | 4198                | 2475                                        | 5698                                         | 3608                                           |
| 3828                               | 4598                | 2675                                        | 6098                                         | 4008                                           |
| 4228                               | 4998                | 2875                                        | 6498                                         | 4408                                           |
| 4628                               | 5398                | 3075                                        | 6898                                         | 4808                                           |

Values shown are for standard equipment. When using non-standard equipment these values may change.

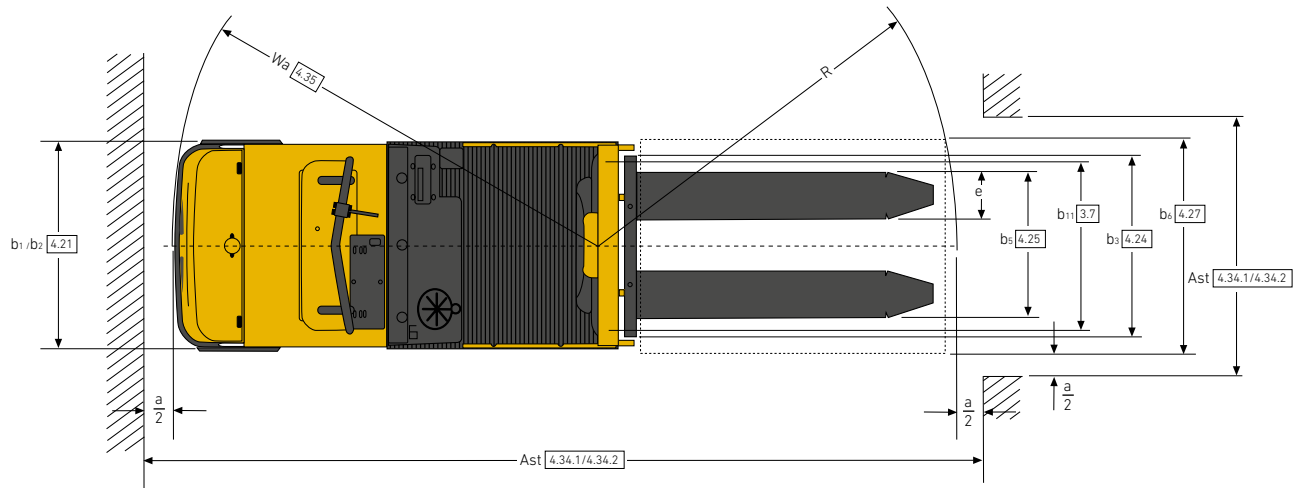
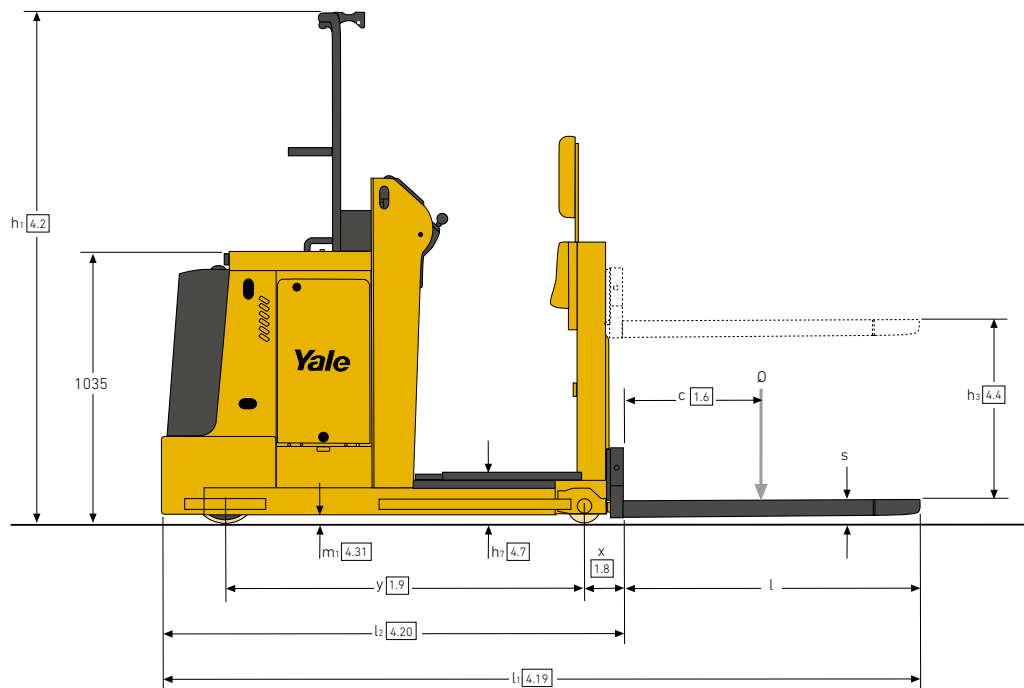
Please contact your Yale dealer for information.

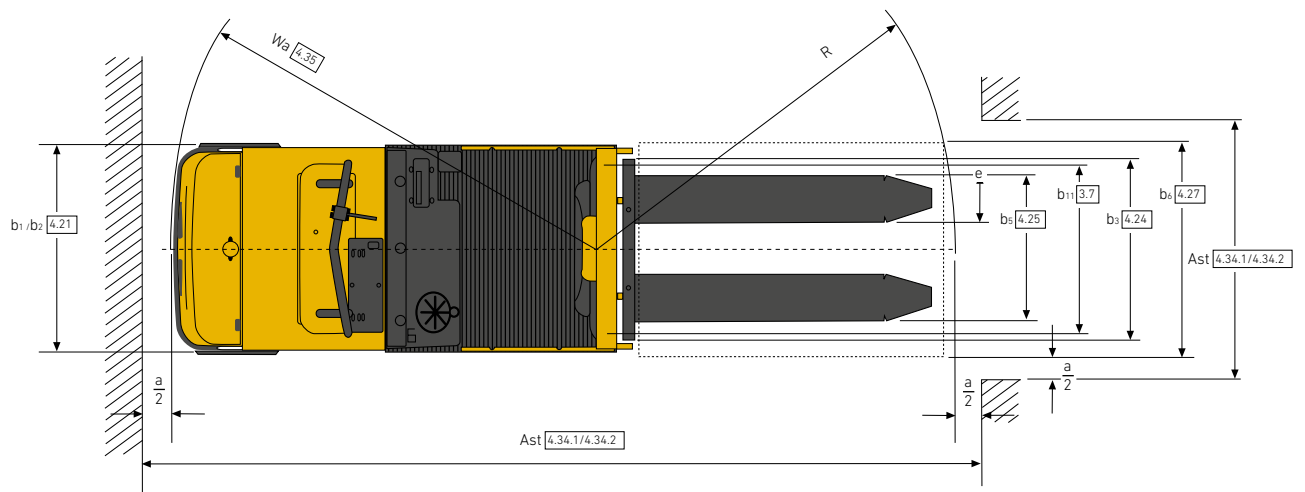
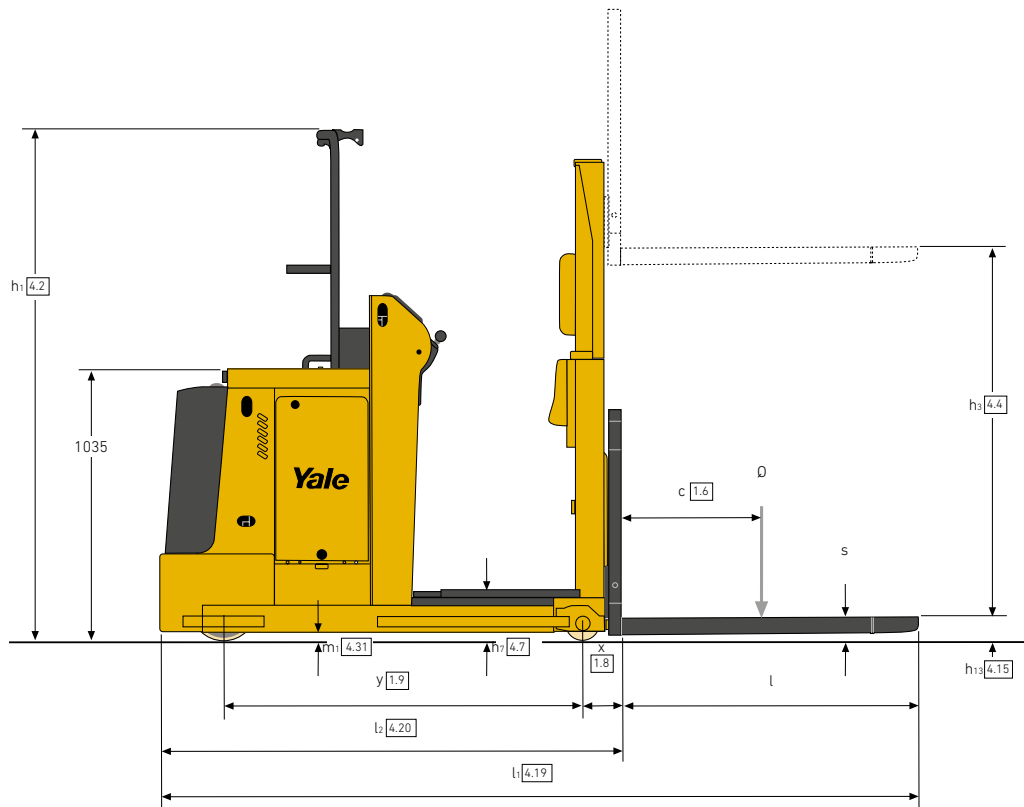
(1) For models WP -690mm

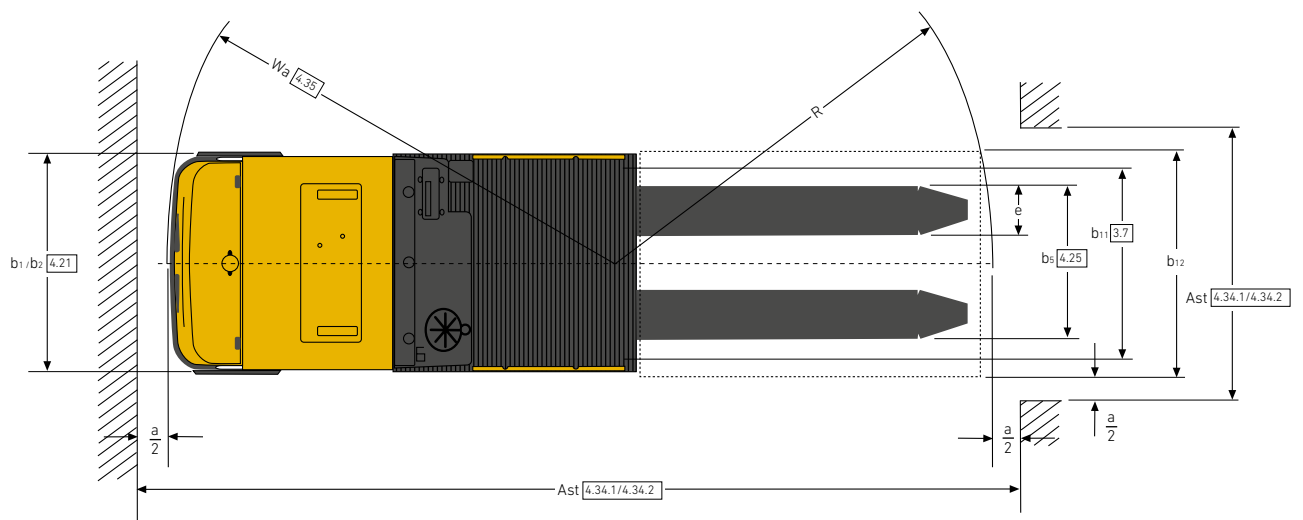
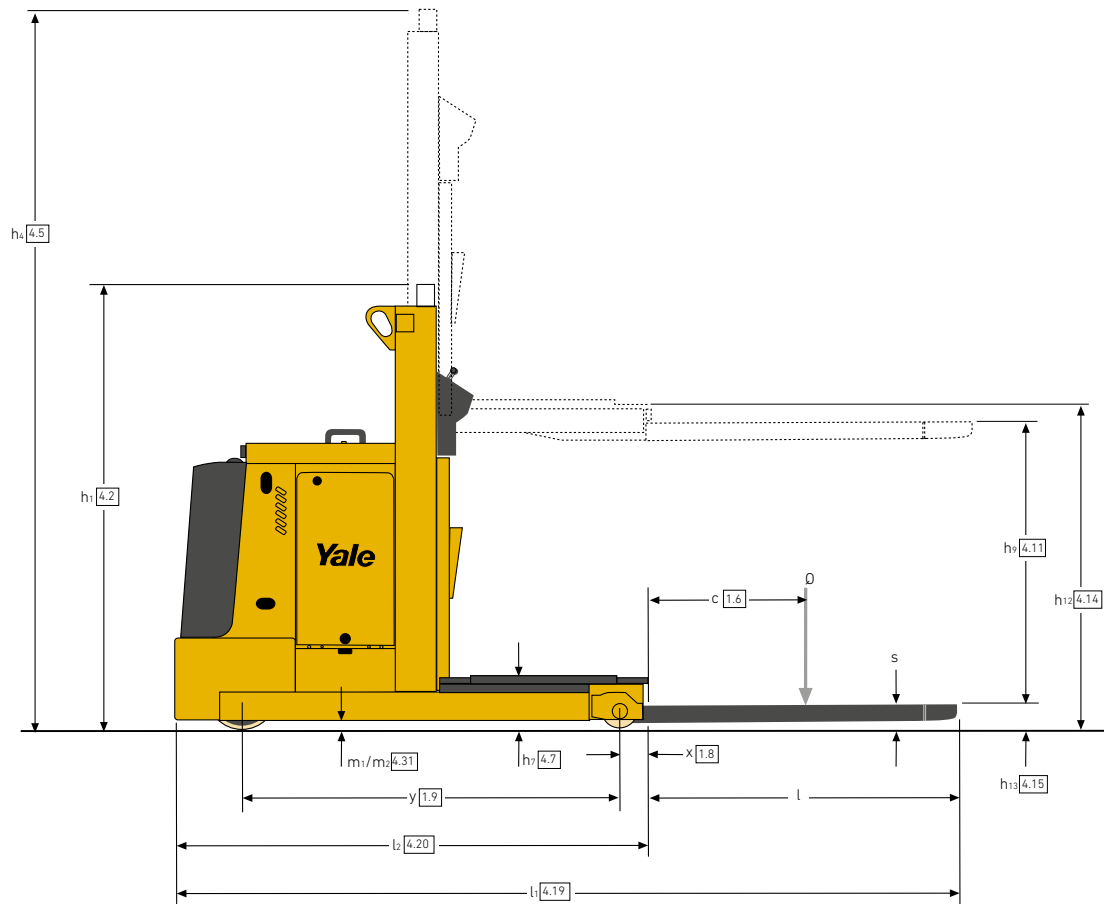
(2) Note for SL model: with FEM like carriage and forks 80 x 30 mm and 100 x 35 mm H-40 mm

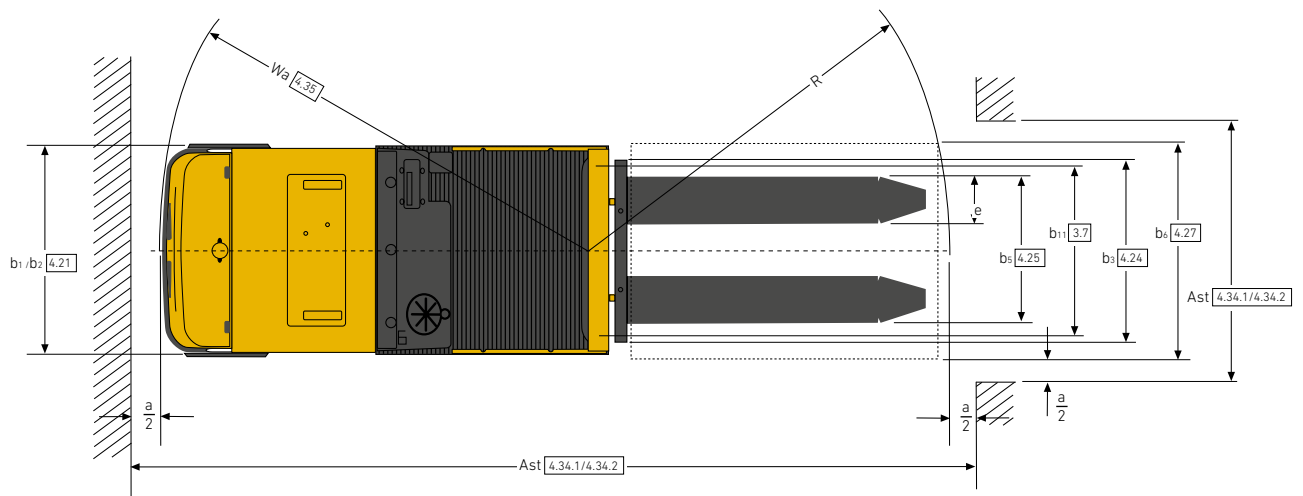
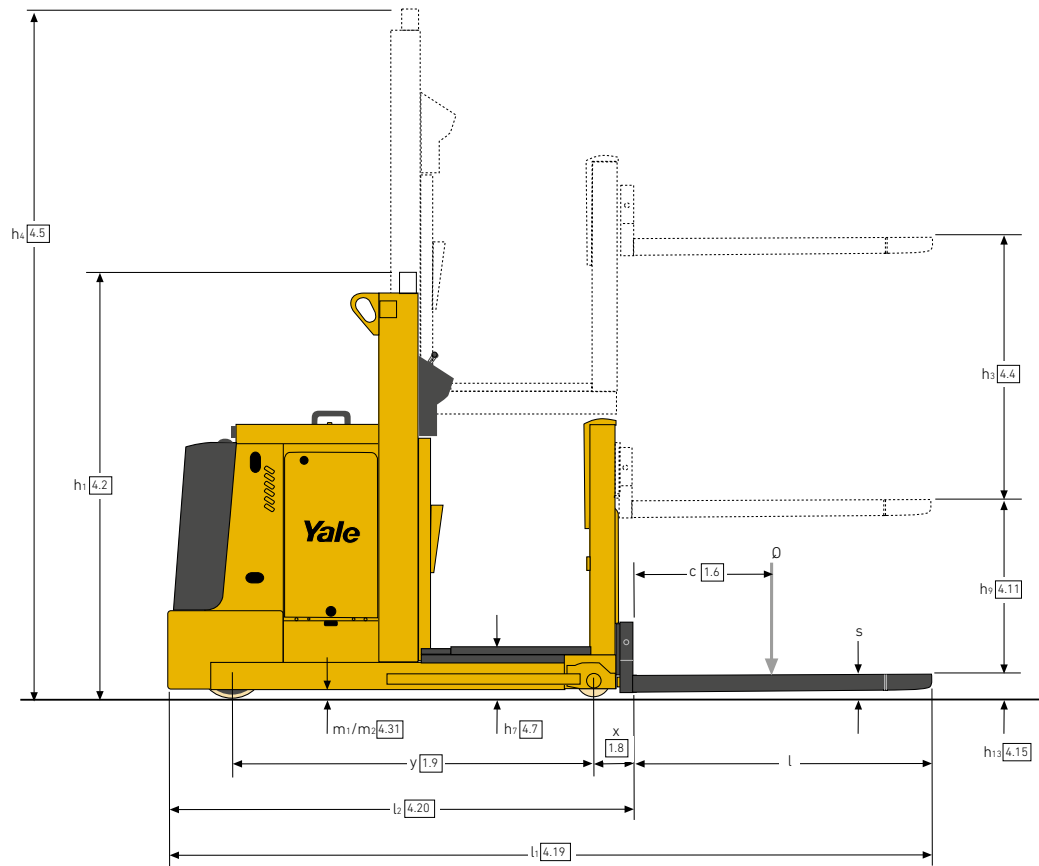
All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer. Yale products might be subject to change without notice.

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





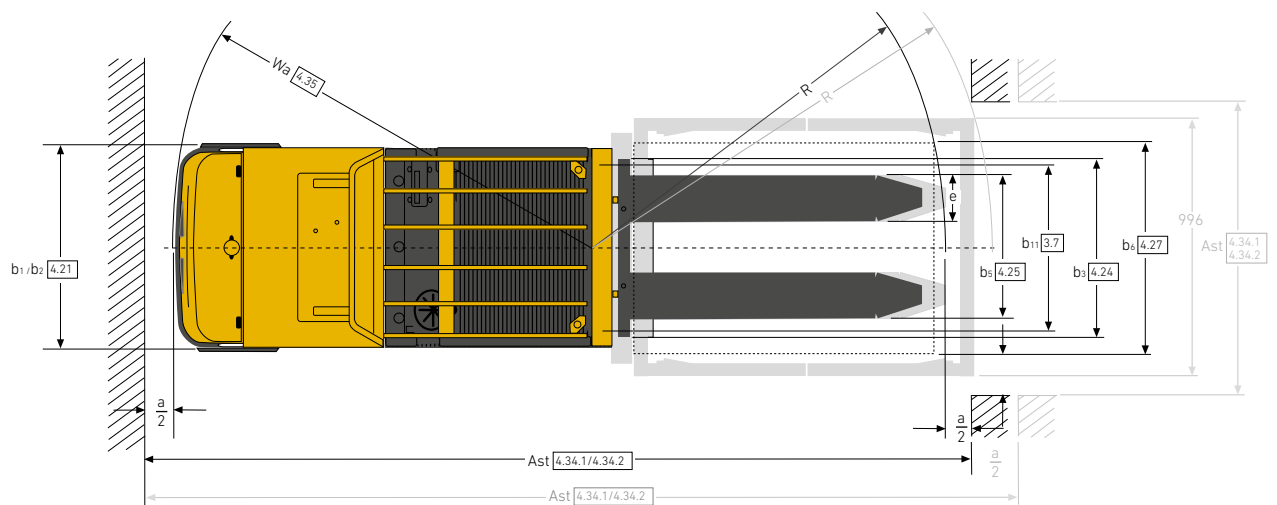
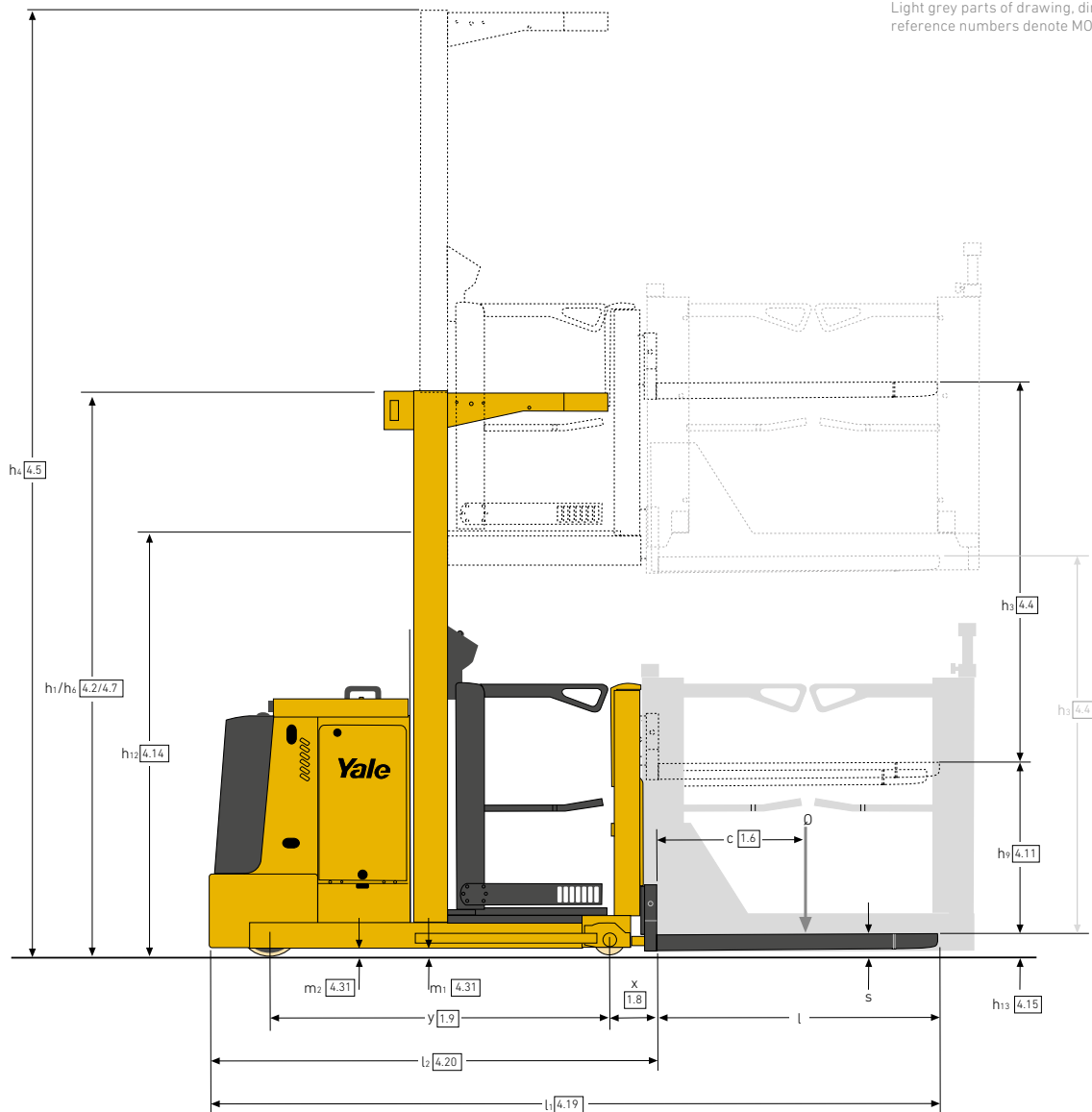




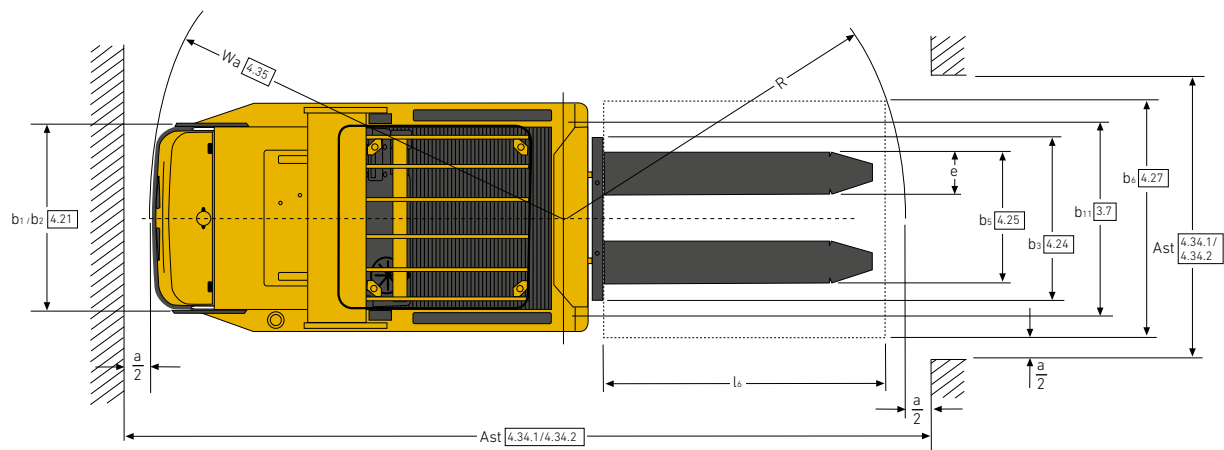
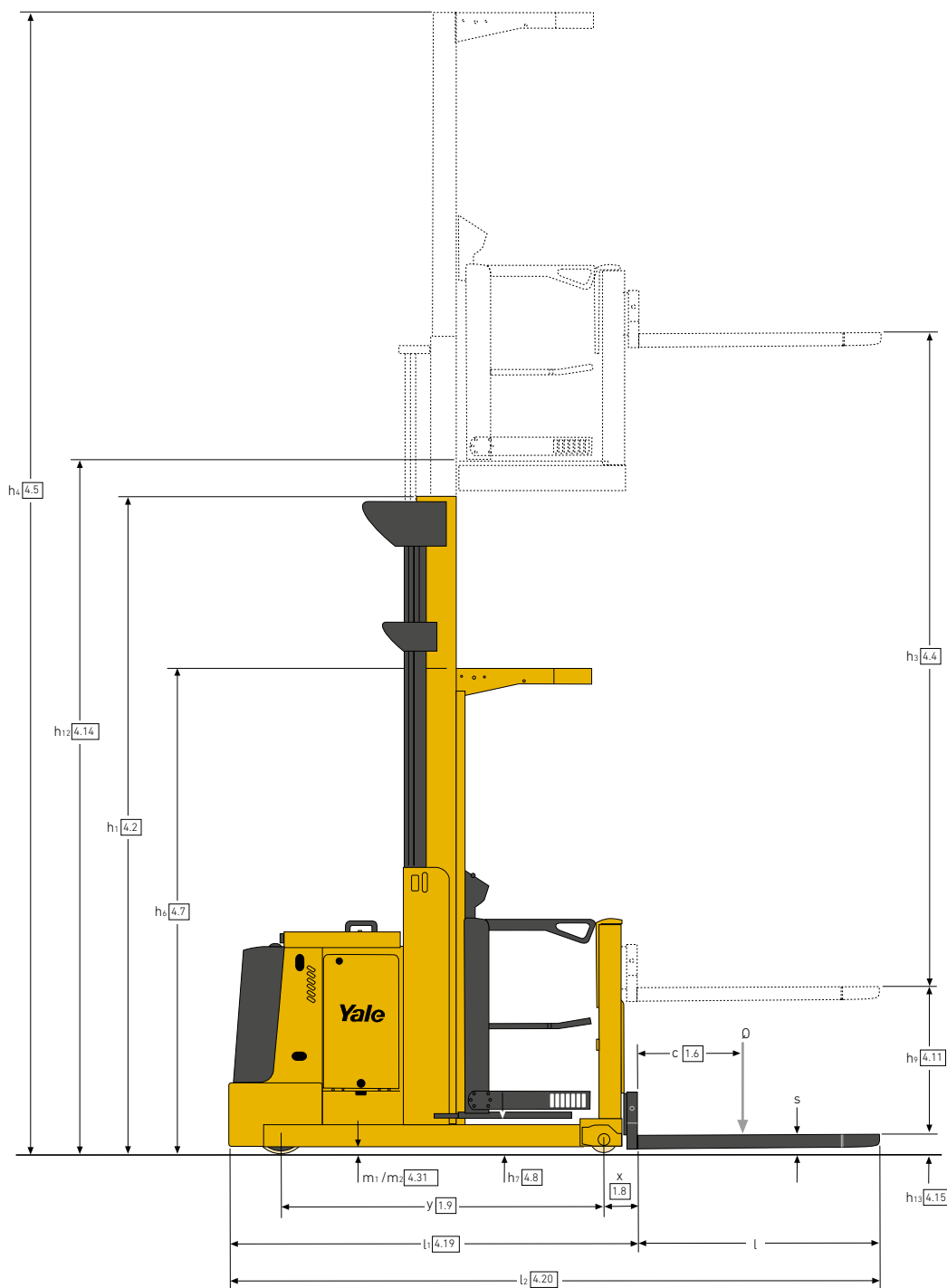
# TRUCK DIMENSIONS – M010E 17SL, M010E 17WP

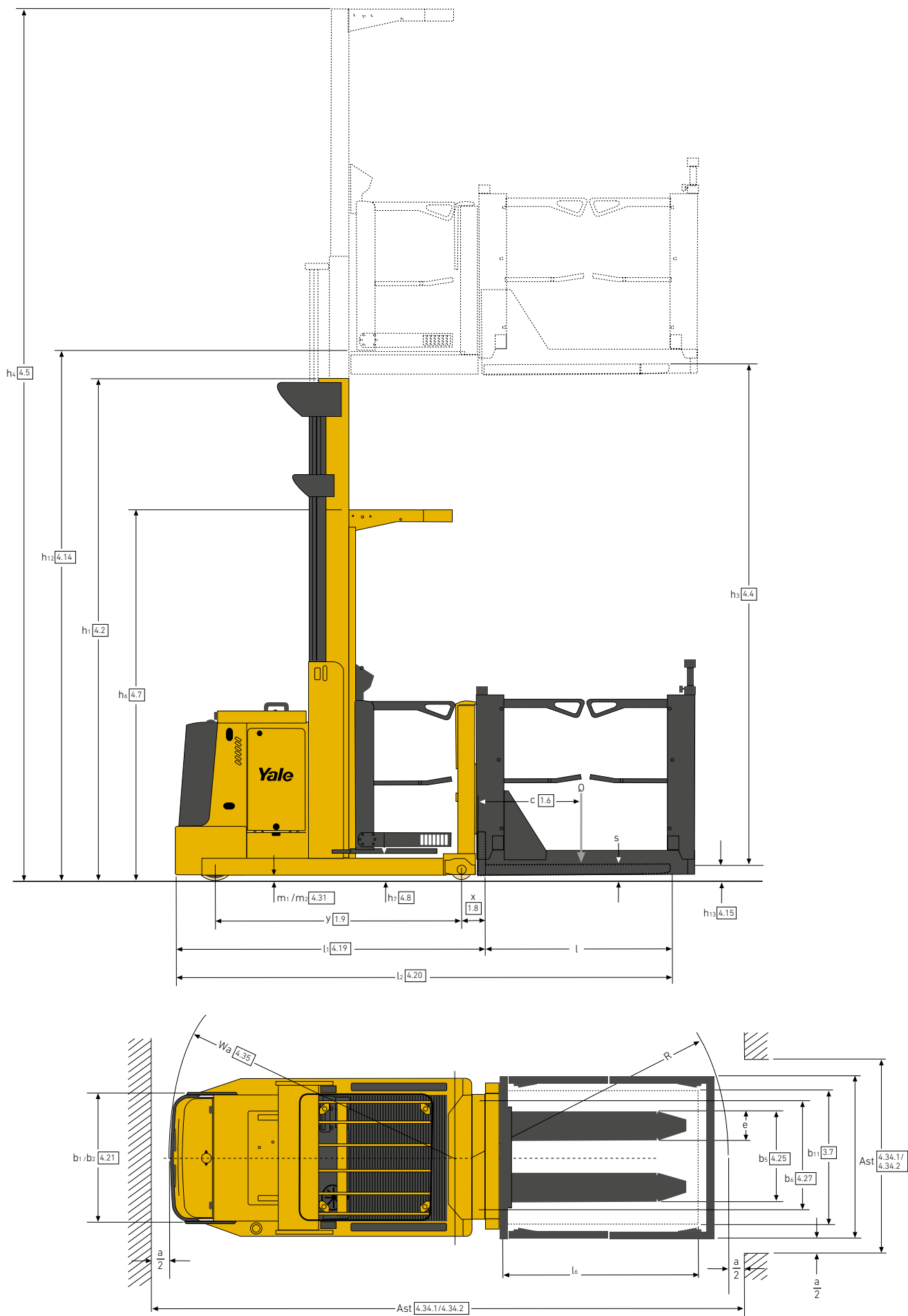
## Note:

Light grey parts of drawing, dimension lines and reference numbers denote M010E 17WP model.



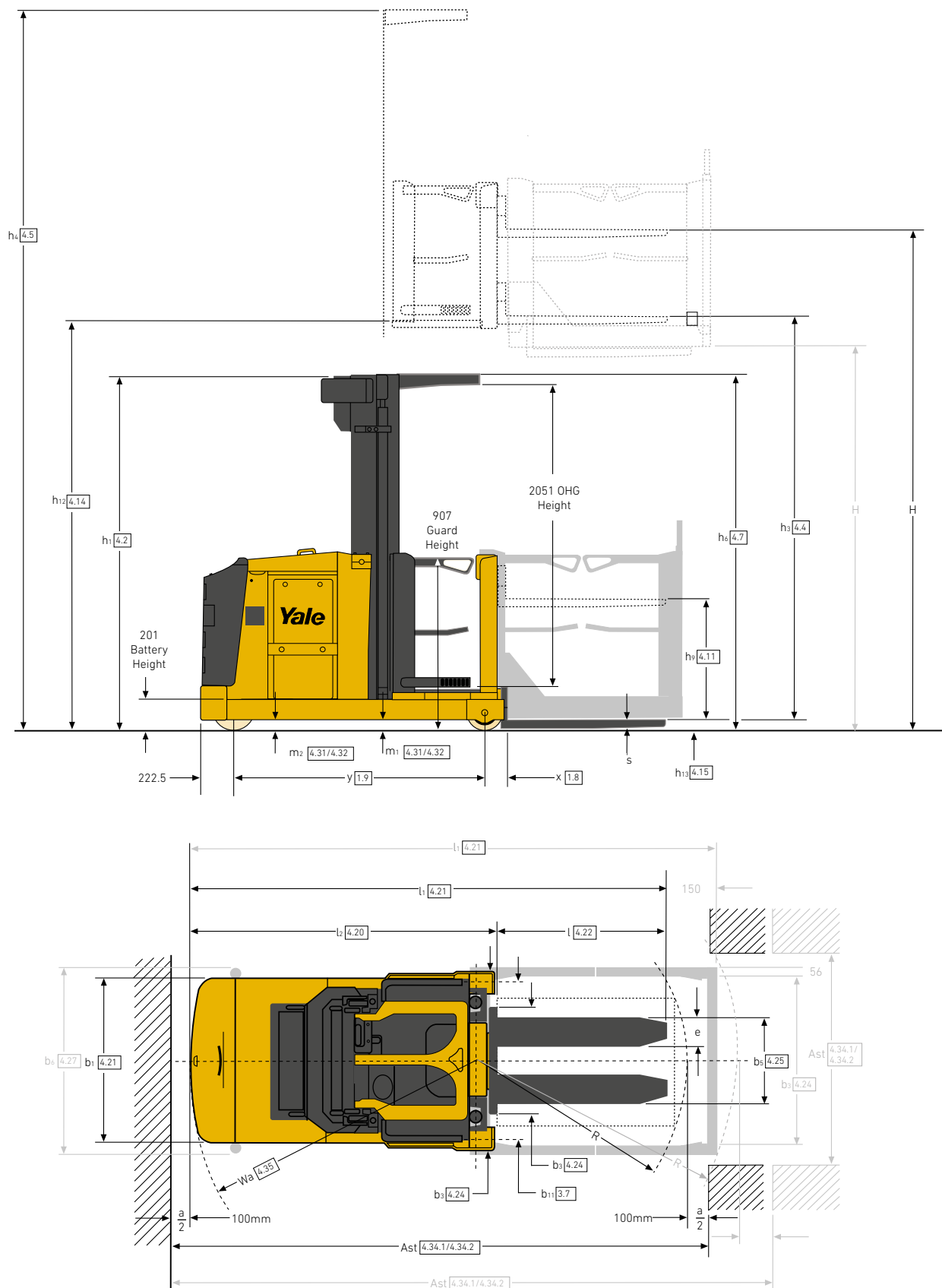
# TRUCK DIMENSIONS – M010E 48 SL





**Note:**

Light grey parts of drawing, dimension lines and reference numbers denote M010S WP model.



## MAST DIMENSIONS – 2 STAGE SL – M010, M010S

| Lift height<br>h <sub>3</sub> (mm) | Fork lift<br>H (mm) | Height, mast lowered<br>h <sub>1</sub> (mm) | Height, mast extended<br>h <sub>4</sub> (mm) | Stand height, elevated<br>h <sub>2</sub> (mm) |
|------------------------------------|---------------------|---------------------------------------------|----------------------------------------------|-----------------------------------------------|
| 3270                               | 4130                | 2370                                        | 5640                                         | 3520                                          |
| 3370                               | 4230                | 2420                                        | 5740                                         | 3620                                          |
| 3470                               | 4330                | 2470                                        | 5840                                         | 3720                                          |
| 3570                               | 4430                | 2520                                        | 5940                                         | 3820                                          |
| 3670                               | 4530                | 2570                                        | 6040                                         | 3920                                          |
| 3770                               | 4630                | 2620                                        | 6140                                         | 4020                                          |
| 3870                               | 4730                | 2670                                        | 6240                                         | 4120                                          |
| 3970                               | 4830                | 2720                                        | 6340                                         | 4220                                          |
| 4070                               | 4930                | 2770                                        | 6440                                         | 4320                                          |
| 4170                               | 5030                | 2820                                        | 6540                                         | 4420                                          |
| 4270                               | 5130                | 2870                                        | 6640                                         | 4520                                          |
| 4370                               | 5230                | 2920                                        | 6740                                         | 4620                                          |
| 4470                               | 5330                | 2970                                        | 6840                                         | 4720                                          |
| 4570                               | 5430                | 3020                                        | 6940                                         | 4820                                          |
| 4670                               | 5530                | 3070                                        | 7040                                         | 4920                                          |
| 4770                               | 5630                | 3120                                        | 7140                                         | 5020                                          |
| 4870                               | 5730                | 3170                                        | 7240                                         | 5120                                          |
| 4970                               | 5830                | 3220                                        | 7340                                         | 5220                                          |
| 5070                               | 5930                | 3270                                        | 7440                                         | 5320                                          |
| 5170                               | 6030                | 3320                                        | 7540                                         | 5420                                          |
| 5270                               | 6130                | 3370                                        | 7640                                         | 5520                                          |
| 5370                               | 6230                | 3420                                        | 7740                                         | 5620                                          |
| 5470                               | 6330                | 3470                                        | 7840                                         | 5720                                          |
| 5570                               | 6430                | 3520                                        | 7940                                         | 5820                                          |
| 5670                               | 6530                | 3570                                        | 8040                                         | 5920                                          |
| 5770                               | 6630                | 3620                                        | 8140                                         | 6020                                          |
| 5870                               | 6730                | 3670                                        | 8240                                         | 6120                                          |
| 5970                               | 6830                | 3720                                        | 8340                                         | 6220                                          |
| 6070                               | 6930                | 3770                                        | 8440                                         | 6320                                          |
| 6170                               | 7030                | 3820                                        | 8540                                         | 6420                                          |
| 6270                               | 7130                | 3870                                        | 8640                                         | 6520                                          |
| 6370                               | 7230                | 3920                                        | 8740                                         | 6620                                          |
| 6470                               | 7330                | 3970                                        | 8840                                         | 6720                                          |
| 6570                               | 7430                | 4020                                        | 8940                                         | 6820                                          |
| 6670                               | 7530                | 4070                                        | 9040                                         | 6920                                          |

## MAST DIMENSIONS – 3 STAGE SL – M010, M010S

| Lift height<br>h <sub>3</sub> (mm) | Fork lift<br>H (mm) | Height, mast lowered<br>h <sub>1</sub> (mm) | Height, mast extended<br>h <sub>4</sub> (mm) | Stand height, elevated<br>h <sub>2</sub> (mm) |
|------------------------------------|---------------------|---------------------------------------------|----------------------------------------------|-----------------------------------------------|
| 4845                               | 5705 <sup>(1)</sup> | 2370                                        | 7215                                         | 5095                                          |
| 4995                               | 5855                | 2420                                        | 7365                                         | 5245                                          |
| 5145                               | 6005 <sup>(1)</sup> | 2470                                        | 7515                                         | 5395                                          |
| 5295                               | 6155                | 2520                                        | 7665                                         | 5545                                          |
| 5445                               | 6305                | 2570                                        | 7815                                         | 5695                                          |
| 5595                               | 6455                | 2620                                        | 7965                                         | 5845                                          |
| 5745                               | 6605 <sup>(1)</sup> | 2670                                        | 8115                                         | 5995                                          |
| 5895                               | 6755                | 2720                                        | 8265                                         | 6145                                          |
| 6045                               | 6905                | 2770                                        | 8415                                         | 6295                                          |
| 6195                               | 7055                | 2820                                        | 8565                                         | 6445                                          |
| 6345                               | 7205 <sup>(1)</sup> | 2870                                        | 8715                                         | 6595                                          |
| 6495                               | 7355                | 2920                                        | 8865                                         | 6745                                          |
| 6645                               | 7505                | 2970                                        | 9015                                         | 6895                                          |
| 6795                               | 7655                | 3020                                        | 9165                                         | 7045                                          |
| 6945                               | 7805 <sup>(1)</sup> | 3070                                        | 9315                                         | 7195                                          |
| 7095                               | 7955                | 3120                                        | 9465                                         | 7345                                          |
| 7245                               | 8105                | 3170                                        | 9615                                         | 7495                                          |
| 7395                               | 8255                | 3220                                        | 9765                                         | 7645                                          |
| 7545                               | 8405 <sup>(1)</sup> | 3270                                        | 9915                                         | 7795                                          |
| 7695                               | 8555                | 3320                                        | 10065                                        | 7945                                          |
| 7845                               | 8705                | 3370                                        | 10215                                        | 8095                                          |
| 7995                               | 8855                | 3420                                        | 10365                                        | 8245                                          |
| 8145                               | 9005 <sup>(1)</sup> | 3470                                        | 10515                                        | 8395                                          |
| 8295                               | 9155                | 3520                                        | 10665                                        | 8545                                          |
| 8445                               | 9305                | 3570                                        | 10815                                        | 8695                                          |
| 8595                               | 9455                | 3620                                        | 10965                                        | 8845                                          |
| 8745                               | 9605 <sup>(1)</sup> | 3670                                        | 11115                                        | 8995                                          |
| 8895                               | 9755                | 3720                                        | 11265                                        | 9145                                          |

(1) For models WP-780mm

## FEATURES LIST – MOE/S SERIES

|                                                                                     | M010E-7/14FC |           | M010E 12 SL/WP |        | M010E 19-48 SL/WP |        | M010    |     | M010 SL/WP                    |       |
|-------------------------------------------------------------------------------------|--------------|-----------|----------------|--------|-------------------|--------|---------|-----|-------------------------------|-------|
| OPERATOR COMPARTMENT                                                                | STD          | OPT       | STD            | OPT    | STD               | OPT    | STD     | OPT | STD                           | OPT   |
| Drive side facing controls                                                          | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| Dual drive and load side facing controls                                            |              |           |                |        |                   |        |         | ●   |                               | ●     |
| Electric power steering                                                             | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| Floor integrated operator presence sensing                                          | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| Height indicator                                                                    | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| Storage compartments                                                                | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| Open operator's compartment - raised floor height (h <sub>12</sub> ) <1200 mm       |              |           | ●              |        |                   |        |         |     |                               |       |
| Enclosed operator's compartment - front and sides                                   |              |           |                |        | ●                 |        | ●       |     | ●                             |       |
| Fold-up bottom toe plate on side gates (enclosed compartment only)                  |              |           |                |        | ●                 |        | ●       |     | ●                             |       |
| LIFT AND TRACTION                                                                   | STD          | OPT       | STD            | OPT    | STD               | OPT    | STD     | OPT | STD                           | OPT   |
| Proportional lift/lower control                                                     |              |           |                |        | ●                 |        | ●       |     | ●                             |       |
| Soft stop on lowering                                                               |              |           |                |        |                   |        | ●       |     | ●                             |       |
| Emergency lowering from the ground                                                  |              |           |                |        | ●                 |        | ●       |     | ●                             |       |
| Driver select performance settings on traction and lift                             | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| Walk along slow speed advance control from side of truck                            | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| Off board lift / lower control of forks                                             | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| LOAD HANDLING                                                                       | STD          | OPT       | STD            | OPT    | STD               | OPT    | STD     | OPT | STD                           | OPT   |
| Walk-on forks - open                                                                |              |           | ● (WP)         |        |                   |        |         |     |                               |       |
| Walk-on forks - pallet cage with fold-up side-gates / pallet sensing                |              |           |                |        | ● (WP)            |        |         |     |                               | ●     |
| Welded fixed forks - walk-on pallet option                                          |              |           | ● (WP)         |        | ● (WP)            |        |         |     |                               | ●     |
| Supplementary lift - fixed fork width                                               |              | ● (7 FC)  |                | ● (SL) |                   | ● (SL) |         | ●   |                               | ●     |
| Supplementary lift - adjustable fork width                                          |              | ● (7 FC)  |                | ● (SL) |                   | ● (SL) |         | ●   |                               | ●     |
| Masted lift - adjustable width forks                                                |              | ● (14 FC) |                |        |                   |        |         |     |                               |       |
| Load backrest                                                                       |              | ●         |                |        |                   |        |         |     |                               |       |
| TRAVEL                                                                              | STD          | OPT       | STD            | OPT    | STD               | OPT    | STD     | OPT | STD                           | OPT   |
| Free ranging                                                                        | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| Speed reduction on cornering                                                        | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| Height / load sensing speed control                                                 |              |           |                |        |                   |        | ●       |     | ●                             |       |
| Guide tollers for rail guidance ( rail not included)                                |              |           |                |        |                   | ● (1)  |         | ●   |                               | ●     |
| Wire guidance (5.2 / 6.25 / 7.0 / 10 kHz)                                           |              |           |                |        |                   | ● (1)  |         | ●   |                               | ●     |
| End of aisle control options (slow down / stop) via floor magnets                   |              |           |                |        |                   | ● (1)  |         | ●   |                               | ●     |
| OPTIONS                                                                             | STD          | OPT       | STD            | OPT    | STD               | OPT    | STD     | OPT | STD                           | OPT   |
| Flashing beacon                                                                     |              | ●         |                | ●      |                   | ● (2)  | ●       |     | ●                             |       |
| Dome light                                                                          |              |           |                |        |                   | ●      |         | ●   |                               | ● (3) |
| Fan                                                                                 |              |           |                |        |                   | ●      |         |     |                               |       |
| Dome light and fan                                                                  |              |           |                |        |                   |        |         | ●   |                               | ●     |
| Work lights - facing racks                                                          |              |           |                |        |                   | ●      |         | ●   |                               | ●     |
| Work light - over load                                                              |              |           |                |        |                   | ●      |         | ●   |                               | ●     |
| Lexan overhead guard                                                                |              |           |                |        |                   | ●      |         | ●   |                               | ●     |
| Wire mesh overhead guard                                                            |              |           |                |        |                   | ●      |         | ●   |                               | ●     |
| Lift Interrupt with override                                                        |              |           |                | ●      |                   | ●      |         | ●   |                               | ●     |
| Lift Interrupt on overhead guard                                                    |              |           |                |        |                   | ●      |         | ●   |                               | ●     |
| Autostop on lowering                                                                |              |           |                |        |                   |        |         | ●   |                               | ●     |
| Reverse alarm                                                                       |              | ●         |                | ●      |                   | ●      |         | ●   |                               | ●     |
| Cold store protection                                                               |              | ●         |                | ●      |                   | ●      |         | ●   |                               | ●     |
| Clipboard                                                                           |              | ●         |                |        |                   | ●      |         | ●   |                               | ●     |
| RFDT hang -on support                                                               |              | ●         |                | ●      |                   | ●      |         | ●   |                               | ●     |
| DC/DC converter 12V                                                                 |              | ●         |                | ●      |                   | ●      |         | ●   |                               | ●     |
| DC/DC converter 24V                                                                 |              |           |                |        |                   |        |         | ●   |                               | ●     |
| Antistatic drive tyre                                                               |              |           |                |        |                   |        |         | ●   |                               | ●     |
| CONFIGURATION                                                                       | STD          | OPT       | STD            | OPT    | STD               | OPT    | STD     | OPT | STD                           | OPT   |
| Cabin width (mm)                                                                    | 796          |           | 780            |        | 940               |        | 950     |     | 1050-1150-1240 <sup>(4)</sup> |       |
| Chassis width b <sub>2</sub> (mm)                                                   | 796          |           | 780            |        | 950               |        | 1000    |     | 1100-1200 <sup>(5)</sup>      |       |
| Fixed cab / supplementary lift - 690mm                                              |              | ● (7 FC)  |                | ●      |                   | ●      |         |     |                               |       |
| Fixed cab / masted fork lift - 1410mm                                               |              | ● (14 FC) |                |        |                   |        |         |     |                               |       |
| Rising cab 1 stage mast - raised platform height (h <sub>12</sub> ) = 1190mm        |              |           | ●              |        |                   |        |         |     |                               |       |
| Rising cab 1 stage mast - raised platform height (h <sub>12</sub> ) = 1690 - 1850mm |              |           |                |        |                   | ●      |         |     |                               |       |
| Rising cab 2 stage mast - raised platform height (h <sub>12</sub> ) = 3207 - 4807mm |              |           |                |        |                   | ●      |         |     |                               |       |
| Rising cab 2 stage mast - raised platform height (h <sub>12</sub> ) = 3620 - 4920mm |              |           |                |        |                   |        |         | ●   |                               |       |
| Rising cab 2 stage mast - raised platform height (h <sub>12</sub> ) = 3620 - 6920mm |              |           |                |        |                   |        |         |     |                               | ●     |
| Rising cab 3 stage mast - raised platform height (h <sub>12</sub> ) = 5095 - 9145mm |              |           |                |        |                   |        |         |     |                               | ● (5) |
| POWER                                                                               | STD          | OPT       | STD            | OPT    | STD               | OPT    | STD     | OPT | STD                           | OPT   |
| AC traction                                                                         | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| AC steering                                                                         | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| AC pump motor                                                                       |              |           |                |        |                   |        | ●       |     | ●                             |       |
| Voltage                                                                             | 24           |           | 24             |        | 24                |        | 48      |     | 48                            |       |
| Battery size (Ah)                                                                   | 500          |           | 560-620        |        | 560-620           |        | 280-310 |     | 420-620                       |       |
| Regen on lowering                                                                   |              |           |                |        |                   |        | ●       |     | ●                             |       |
| Battery rollers                                                                     | ●            |           | ●              |        | ●                 |        | ●       |     | ●                             |       |
| Side battery change table - single bed                                              |              | ●         |                | ●      |                   | ●      |         | ●   |                               | ●     |
| Side battery change table - twin bed                                                |              | ●         |                | ●      |                   | ● (6)  |         |     |                               |       |

(1) With 2 stage mast only (Raised platform height (h<sub>12</sub>) = 3200mm - 4800 mm)

(2) Required option (Raised platform height (h<sub>12</sub>) > 1200mm)

(3) With 2 stage mast only

(4) With walk-on pallet cage - 1140mm / 1340mm

(5) From raised platform height (h<sub>12</sub>) = 8450mm, 1200mm chassis required

(6) Not with rail guidance

All values are nominal values and they are subject to tolerances.

# About Yale®



Yale Lift Truck Technologies is one of the oldest manufacturers of lift trucks in the world. We've been in the business of lifting since 1875 and we apply that experience to help customers solve materials handling challenges. Our full line of lift trucks range in capacity from 1 to 16 tonne and are powered by internal combustion engines or electric options. Yale also offers robotic solutions, telemetry, fleet management, parts, financing and training. From traditional lift truck equipment to emerging technologies, our goal, every day, is to work with our nationwide dealer network to continually improve and provide the solutions you need, when and how you need them.

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