



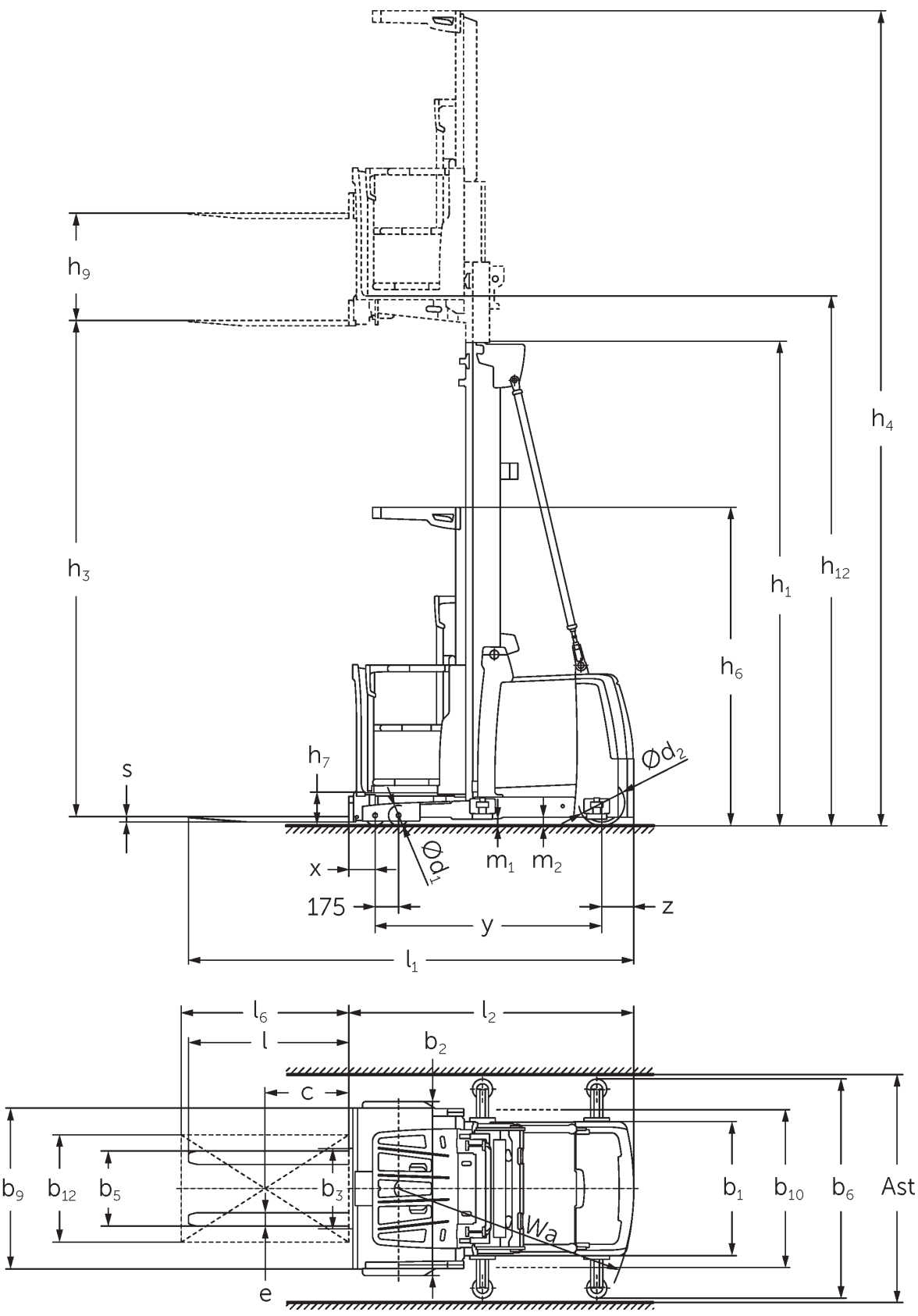
## Medium/high level order picker

**EKS 412s**

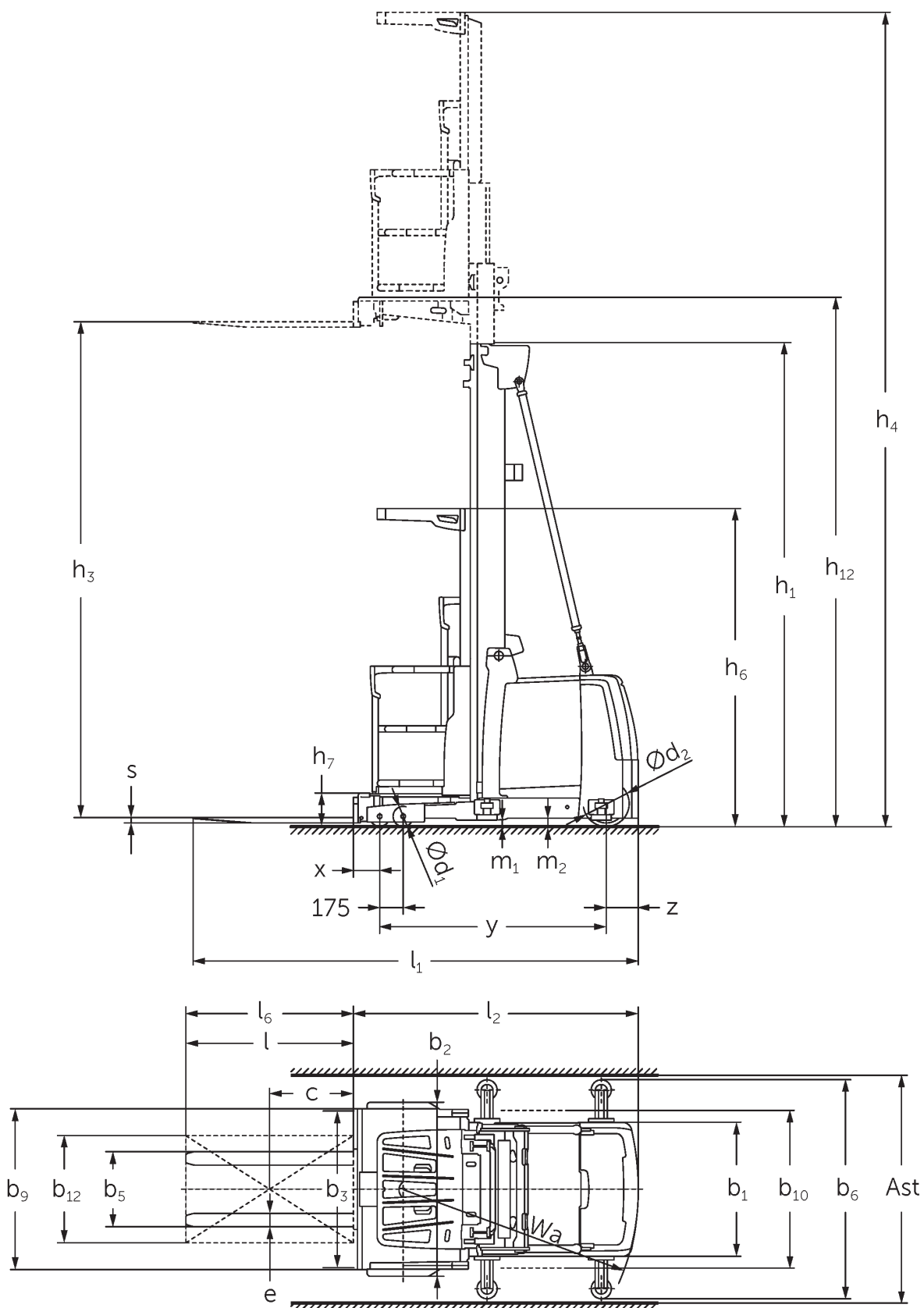
Lift height: 5000-12500 mm / Load capacity: 1200 kg



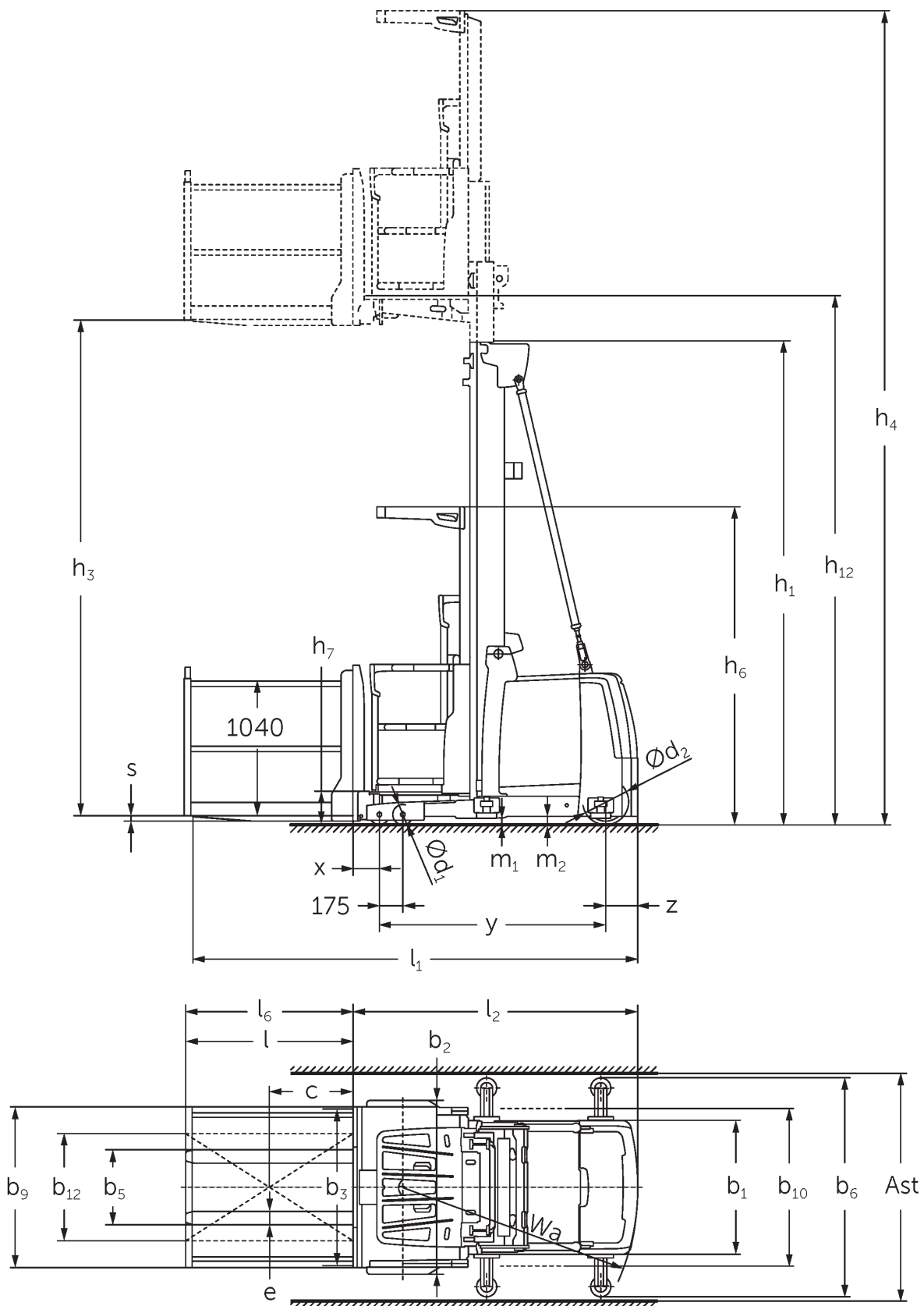
EKS 412s



EKS 3/4 Z version technical drawing



EKS 3/4 0 version technical drawing



EKS 3/4 L version technical drawing

# EKS 412s

| EKS 412s Z_I, EKS 412s Z_SF, EKS 412s L_I, EKS 412s L_SF, EKS 412s O_I, EKS 412s O_SF | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
|---------------------------------------------------------------------------------------|-----------|----------------------------|----------------|---------------------------|
| Duplex mast ZT                                                                        | 4250 mm   | 2950 mm                    |                | 6620 mm                   |
|                                                                                       | 5000 mm   | 3330 mm                    |                | 7370 mm                   |
|                                                                                       | 5500 mm   | 3600 mm                    |                | 7870 mm                   |
|                                                                                       | 6000 mm   | 3850 mm                    |                | 8370 mm                   |
|                                                                                       | 6500 mm   | 4125 mm                    |                | 8870 mm                   |
|                                                                                       | 7500 mm   | 4650 mm                    |                | 9870 mm                   |
|                                                                                       | 8500 mm   | 5150 mm                    |                | 10870 mm                  |
| Triplex mast DT                                                                       | 5500 mm   | 2610 mm                    |                | 7870 mm                   |
|                                                                                       | 6000 mm   | 2780 mm                    |                | 8370 mm                   |
|                                                                                       | 6500 mm   | 2940 mm                    |                | 8870 mm                   |
|                                                                                       | 7000 mm   | 3110 mm                    |                | 9370 mm                   |
|                                                                                       | 7500 mm   | 3275 mm                    |                | 9870 mm                   |
|                                                                                       | 8000 mm   | 3440 mm                    |                | 10370 mm                  |
|                                                                                       | 8500 mm   | 3610 mm                    |                | 10870 mm                  |
|                                                                                       | 9000 mm   | 3810 mm                    |                | 11370 mm                  |
|                                                                                       | 9500 mm   | 3980 mm                    |                | 11870 mm                  |
|                                                                                       | 10500 mm  | 4410 mm                    |                | 12870 mm                  |
| Triplex mast DZ                                                                       | 11500 mm  | 4810 mm                    |                | 13870 mm                  |
|                                                                                       | 12500 mm  | 5210 mm                    |                | 14870 mm                  |
|                                                                                       | 5500 mm   | 2610 mm                    | 240 mm         | 7870 mm                   |
|                                                                                       | 6000 mm   | 2780 mm                    | 410 mm         | 8370 mm                   |
|                                                                                       | 6500 mm   | 2940 mm                    | 570 mm         | 8870 mm                   |
|                                                                                       | 7000 mm   | 3110 mm                    | 740 mm         | 9370 mm                   |
|                                                                                       | 7500 mm   | 3275 mm                    | 905 mm         | 9870 mm                   |
|                                                                                       | 8000 mm   | 3440 mm                    | 1070 mm        | 10370 mm                  |

|  |          |         |         |          |
|--|----------|---------|---------|----------|
|  | 8500 mm  | 3610 mm | 1240 mm | 10870 mm |
|  | 9000 mm  | 3810 mm | 1440 mm | 11370 mm |
|  | 9500 mm  | 3980 mm | 1610 mm | 11870 mm |
|  | 10500 mm | 4410 mm | 2040 mm | 12870 mm |
|  | 11500 mm | 4810 mm | 2440 mm | 13870 mm |
|  | 12500 mm | 5210 mm | 2840 mm | 14870 mm |

## VDI table

|                          |        |                                             |           |                        |                    |                 |                 |                 |   |      |
|--------------------------|--------|---------------------------------------------|-----------|------------------------|--------------------|-----------------|-----------------|-----------------|---|------|
| Characteristic           | 1.1    | Manufacturer (abbreviated description)      |           | Jungheinrich           |                    |                 |                 |                 |   |      |
|                          | 1.2    | Manufacturer's type designation             |           | EKS 412s               |                    |                 |                 |                 |   |      |
|                          | 1.3    | Drive                                       |           | electric               |                    |                 |                 |                 |   |      |
|                          | 1.4    | Operation                                   |           | Order pickers          |                    |                 |                 |                 |   |      |
|                          | 1.5    | Load capacity/load                          | Q         | kg                     | 1200               |                 |                 |                 |   |      |
|                          | 1.6    | Load centre distance                        | c         | mm                     | 400                |                 |                 |                 |   |      |
|                          | 1.8    | Load distance, centre of drive axle to fork | x         | mm                     | 155                | 145             |                 |                 |   |      |
|                          | 1.9    | Wheelbase                                   | y         | mm                     | 1690               |                 |                 |                 |   |      |
| Weights                  | 2.1.1  | Service weight (incl. battery)              | kg        | 3650                   | 3850               |                 |                 | 3590            |   |      |
|                          | 2.2    | Axle load laden front/rear                  | kg        | 3575 / 1160            | 3825 / 1110        |                 |                 | 3515 / 1160     |   |      |
|                          | 2.3    | Axle load unladen front/rear                | kg        | 1840 / 1810            | 2090 / 1760        |                 |                 | 1780 / 1810     |   |      |
| Wheels/suspension system | 3.1    | Tyres                                       |           | Polyurethane (PU)      |                    |                 |                 |                 |   |      |
|                          | 3.2    | Tyre size, front                            |           | Ø 150 x 95             |                    |                 |                 |                 |   |      |
|                          | 3.3    | Tyre size, rear                             |           | Ø 343 x 110            |                    |                 |                 |                 |   |      |
|                          |        |                                             |           |                        |                    |                 |                 |                 |   |      |
|                          | 3.5    | Wheels, number front/back (x=driven)        |           | 4 / 1 x                |                    |                 |                 |                 |   |      |
| Basic dimensions         | 4.2    | Retracted mast height (h1)                  | h1        | mm                     | 3330               |                 |                 |                 |   |      |
|                          | 4.4    | Lift (h3)                                   | h3        | mm                     | 5000               |                 |                 |                 |   |      |
|                          | 4.5    | Extended mast height (h4)                   | h4        | mm                     | 7370               |                 |                 |                 |   |      |
|                          | 4.7    | Height of overhead guard (cab)              | h6        | mm                     | 2370               |                 |                 |                 |   |      |
|                          | 4.8.1  | Stand height                                | h7        | mm                     | 245                |                 |                 |                 |   |      |
|                          | 4.11   | Additional lift                             | h9        | mm                     | 800                | -               |                 |                 |   |      |
|                          | 4.14   | Stand height, elevated                      | h12       | mm                     | 5245               |                 |                 |                 |   |      |
|                          | 4.15   | Height, lowered                             | h13       | mm                     | 60                 |                 |                 |                 |   |      |
|                          | 4.19   | total length                                | l1        | mm                     | 3160               | 3285            | 3330            | 3275            |   |      |
|                          | 4.20   | Length including fork shank                 | l2        | mm                     | 2160               | 2085            | 2075            |                 |   |      |
|                          | 4.21.1 | total width                                 | b1        | mm                     | 1000               |                 |                 |                 |   |      |
|                          | 4.22   | Fork dimensions                             | s/<br>e/l | mm                     | 40 x 100 x<br>1200 | 50 x 100 x 1200 | 50 x 100 x 1250 | 50 x 100 x 1200 |   |      |
|                          | 4.25   | Width across forks                          | b5        | mm                     | 560                |                 |                 |                 |   |      |
|                          | 4.27   | Width over guide rollers                    | b6        | mm                     | -                  | 1200            | -               | 1200            | - | 1200 |
|                          | 4.31   | Ground clearance laden under mast           | m1        | mm                     | 50                 |                 |                 |                 |   |      |
|                          | 4.35   | Turning radius                              | Wa        | mm                     | 1930               |                 |                 |                 |   |      |
| Performance data         | 5.1    | Travel speed laden/unladen                  | km/h      | 12 / 12                |                    |                 |                 |                 |   |      |
|                          | 5.2    | Lift speed laden/unladen                    | m/s       | 0.5 / 0.5              |                    |                 |                 |                 |   |      |
|                          | 5.3    | Lowering speed laden/unladen                | m/s       | 0.5 / 0.5              |                    |                 |                 |                 |   |      |
|                          | 5.10   | Service brake                               |           | regenerative           |                    |                 |                 |                 |   |      |
|                          |        |                                             |           |                        |                    |                 |                 |                 |   |      |
|                          | 5.11   | Parking brake                               |           | Electric sprung-loaded |                    |                 |                 |                 |   |      |

|                                                                                                                                                                                                   |      |                                           |        |                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------|--------|---------------------------|
| E-motor/Electronics                                                                                                                                                                               | 6.1  | Drive motor, performance S2 60 min        | kW     | 6.5                       |
|                                                                                                                                                                                                   | 6.2  | Lift motor, performance with S3           | kW     | 12                        |
|                                                                                                                                                                                                   | 6.4  | Battery voltage/nominal capacity          | V / Ah | 48 / 620                  |
|                                                                                                                                                                                                   | 6.5  | Battery weight                            | kg     | 935                       |
| Other                                                                                                                                                                                             | 8.1  | Type of drive control                     |        | AC synchronous reluctance |
|                                                                                                                                                                                                   | 10.5 | Steering version                          |        | electric                  |
|                                                                                                                                                                                                   | 10.7 | Sound pressure level according to EN12053 | dB (A) | 60                        |
| - This data sheet according to VDI guideline 2198 only states the technical values of the standard truck. Different tyres, other masts, additional equipment etc. may result in different values. |      |                                           |        |                           |

5.1. With drivePLUS performance module

5.2. With liftPLUS performance module

5.3. With liftPLUS performance module

The German production facilities in  
Norderstedt, Moosburg and Landsberg are  
certified as well as our Genuine Parts  
Center in Kaltenkirchen.

ISO 9001  
ISO 14001

Jungheinrich fork lift trucks meet European  
safety requirements.



 **JUNGHEINRICH**