



## **Electric high level combination order picker / tri-lateral stacker**

**EKX 410-516**

Lift height: 3000-18000 mm / Load capacity: 1000-1600 kg



**EKX 410-516**





# EKX 410-516

| EKX 410, EKX 412           | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
|----------------------------|-----------|----------------------------|----------------|---------------------------|
| Duplex mast ZT             | 3000 mm   | 2600 mm                    |                | 5550 mm                   |
|                            | 3500 mm   | 2850 mm                    |                | 6050 mm                   |
|                            | 4000 mm   | 3100 mm                    |                | 6550 mm                   |
|                            | 4500 mm   | 3350 mm                    |                | 7050 mm                   |
|                            | 5000 mm   | 3600 mm                    |                | 7550 mm                   |
|                            | 5500 mm   | 3850 mm                    |                | 8050 mm                   |
|                            | 6000 mm   | 4100 mm                    |                | 8550 mm                   |
|                            | 6500 mm   | 4375 mm                    |                | 9050 mm                   |
|                            | 7000 mm   | 4650 mm                    |                | 9550 mm                   |
|                            | 7500 mm   | 4925 mm                    |                | 10050 mm                  |
| Triplex mast DZ            | 4500 mm   | 2625 mm                    | 75 mm          | 7050 mm                   |
|                            | 5000 mm   | 2800 mm                    | 250 mm         | 7550 mm                   |
|                            | 5500 mm   | 2975 mm                    | 425 mm         | 8050 mm                   |
|                            | 6000 mm   | 3150 mm                    | 600 mm         | 8550 mm                   |
|                            | 6500 mm   | 3325 mm                    | 775 mm         | 9050 mm                   |
|                            | 7000 mm   | 3500 mm                    | 950 mm         | 9550 mm                   |
|                            | 7500 mm   | 3675 mm                    | 1125 mm        | 10050 mm                  |
| EKX 412                    | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
| Duplex mast ZT             | 8000 mm   | 5200 mm                    |                | 10550 mm                  |
|                            | 8500 mm   | 5475 mm                    |                | 11050 mm                  |
| Triplex mast DZ            | 8000 mm   | 3850 mm                    | 1300 mm        | 10550 mm                  |
|                            | 8500 mm   | 4025 mm                    | 1475 mm        | 11050 mm                  |
| EKX 514, EKX 516k, EKX 516 | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
| Duplex mast ZT             | 3000 mm   | 2705 mm                    |                | 5550 mm                   |
|                            | 3500 mm   | 2955 mm                    |                | 6050 mm                   |
|                            | 4000 mm   | 3205 mm                    |                | 6550 mm                   |
|                            | 4500 mm   | 3455 mm                    |                | 7050 mm                   |

|                 |           |                            |                |                           |
|-----------------|-----------|----------------------------|----------------|---------------------------|
|                 | 5000 mm   | 3705 mm                    |                | 7550 mm                   |
|                 | 5500 mm   | 3955 mm                    |                | 8050 mm                   |
|                 | 6000 mm   | 4205 mm                    |                | 8550 mm                   |
|                 | 6500 mm   | 4555 mm                    |                | 9050 mm                   |
|                 | 7000 mm   | 4805 mm                    |                | 9550 mm                   |
|                 | 7500 mm   | 5055 mm                    |                | 10050 mm                  |
|                 | 8000 mm   | 5305 mm                    |                | 10550 mm                  |
|                 | 8500 mm   | 5655 mm                    |                | 11050 mm                  |
|                 | 9000 mm   | 5905 mm                    |                | 11550 mm                  |
|                 | 9500 mm   | 6155 mm                    |                | 12050 mm                  |
| Triplex mast DZ | 4000 mm   | 2550 mm                    |                | 6550 mm                   |
|                 | 4500 mm   | 2710 mm                    | 160 mm         | 7050 mm                   |
|                 | 5000 mm   | 2895 mm                    | 345 mm         | 7550 mm                   |
|                 | 5500 mm   | 3095 mm                    | 545 mm         | 8050 mm                   |
|                 | 6000 mm   | 3295 mm                    | 745 mm         | 8550 mm                   |
|                 | 6500 mm   | 3495 mm                    | 945 mm         | 9050 mm                   |
|                 | 7000 mm   | 3695 mm                    | 1145 mm        | 9550 mm                   |
|                 | 7500 mm   | 3895 mm                    | 1345 mm        | 10050 mm                  |
|                 | 8000 mm   | 4095 mm                    | 1545 mm        | 10550 mm                  |
|                 | 8500 mm   | 4295 mm                    | 1745 mm        | 11050 mm                  |
|                 | 9000 mm   | 4495 mm                    | 1945 mm        | 11550 mm                  |
|                 | 9250 mm   | 4595 mm                    | 2045 mm        | 11800 mm                  |
|                 | 9500 mm   | 4695 mm                    | 2145 mm        | 12050 mm                  |
| EKX 516         | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
|                 |           |                            |                |                           |
| Triplex mast DZ | 11000 mm  | 5215 mm                    | 2665 mm        | 13550 mm                  |
|                 | 11500 mm  | 5395 mm                    | 2845 mm        | 14050 mm                  |
|                 | 12000 mm  | 5565 mm                    | 3015 mm        | 14550 mm                  |
|                 | 12500 mm  | 5750 mm                    | 3200 mm        | 15050 mm                  |
|                 | 13000 mm  | 5950 mm                    | 3400 mm        | 15550 mm                  |
|                 | 13500 mm  | 6250 mm                    | 3700 mm        | 16050 mm                  |
|                 | 14000 mm  | 6550 mm                    | 4000 mm        | 16550 mm                  |

|                   |           |                            |                |                           |
|-------------------|-----------|----------------------------|----------------|---------------------------|
|                   | 14500 mm  | 6850 mm                    | 4300 mm        | 17050 mm                  |
| EKX 516k, EKX 516 | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
| Duplex mast ZT    | 10000 mm  | 6405 mm                    |                | 12550 mm                  |
|                   | 10500 mm  | 6655 mm                    |                | 13050 mm                  |
| Triplex mast DZ   | 10000 mm  | 4875 mm                    | 2325 mm        | 12550 mm                  |
|                   | 10500 mm  | 5045 mm                    | 2495 mm        | 13050 mm                  |

## VDI table

|                          |         |                                             |                                |                                    |             |                 |             |             |
|--------------------------|---------|---------------------------------------------|--------------------------------|------------------------------------|-------------|-----------------|-------------|-------------|
| Characteristic           | 1.1     | Manufacturer (abbreviated description)      |                                | Jungheinrich                       |             |                 |             |             |
|                          | 1.2     | Manufacturer's type designation             |                                | EKX 410                            | EKX 412     | EKX 514         | EKX 516k    | EKX 516     |
|                          | 1.3     | Drive                                       |                                | Electric                           |             |                 |             |             |
|                          | 1.4     | Operation                                   |                                | Order picker / tri-lateral stacker |             |                 |             |             |
|                          | 1.5     | Load capacity/load                          | Q kg                           | 1000                               | 1200        | 1400            | 1600        |             |
|                          | 1.6     | Load centre distance                        | c mm                           | 600                                |             |                 |             |             |
|                          | 1.8     | Load distance, centre of drive axle to fork | x mm                           | 450                                |             | 445             |             |             |
|                          | 1.9     | Wheelbase                                   | y mm                           | 1807                               |             | 1840            | 1950        | 2220        |
|                          | 1.10    | Centre drive wheel/counterweight            | z mm                           | 320                                |             | 282             |             |             |
|                          | Weights | 2.1.1                                       | Service weight (incl. battery) | kg                                 | 5515        | 5895            | 6350        | 6750        |
| 2.2                      |         | Axle load laden front/rear                  | kg                             | 4895 / 1630                        | 5400 / 1705 | 5720 / 1880     | 6190 / 2060 | 6590 / 2810 |
| 2.3                      |         | Axle load unladen front/rear                | kg                             | 3270 / 2245                        | 3450 / 2445 | 3850 / 2500     | 3980 / 2770 | 4480 / 3420 |
| Wheels/suspension system | 3.1     | Tyres                                       |                                | Bestthane                          |             |                 |             |             |
|                          | 3.2     | Tyre size, front                            |                                | Ø 295 x 144                        |             | Ø 380 x 192     |             |             |
|                          | 3.3     | Tyre size, rear                             |                                | Ø 343 x 110                        |             | Ø 400 x 160     |             |             |
|                          | 3.5     | Wheels, number front/back (x=driven)        |                                | 2 / 1 x                            |             | 2 / 1x          |             |             |
|                          | 3.6     | Tread width, front                          | b10 mm                         | 1306                               |             | 1258            |             |             |
| Basic dimensions         | 4.2     | Retracted mast height (h1)                  | h1 mm                          | 2850                               |             | 2955            |             |             |
|                          | 4.3     | Free lift (h2)                              | h2 mm                          | 0                                  |             |                 |             |             |
|                          | 4.4     | Lift (h3)                                   | h3 mm                          | 3500                               |             |                 |             |             |
|                          | 4.5     | Extended mast height (h4)                   | h4 mm                          | 6050                               |             |                 |             |             |
|                          | 4.7     | Height of overhead guard (cab)              | h6 mm                          | 2550                               |             |                 |             |             |
|                          | 4.8     | Seat height/stand height                    | h7 mm                          | 430                                |             |                 |             |             |
|                          | 4.11    | Additional lift                             | h9 mm                          | 1780                               |             |                 |             |             |
|                          | 4.14    | Stand height, elevated                      | h12 mm                         | 3930                               |             |                 |             |             |
|                          | 4.19    | total length                                | l1 mm                          | 3665                               |             | 3775            |             | 4045        |
|                          | 4.20    | Length including fork shank                 | l2 mm                          | 3379                               |             | 3489            |             | 3759        |
|                          | 4.21.1  | total width                                 | b1 mm                          | 1210                               |             |                 |             |             |
|                          | 4.21.2  | total width                                 | b2 mm                          | 1450                               |             |                 |             |             |
|                          | 4.22    | Fork dimensions                             | s/ e/l mm                      | 40 x 120 x 1200                    |             | 50 x 120 x 1200 |             |             |
|                          | 4.23    | Fork carriage connection class              |                                | 2B                                 |             |                 |             |             |
|                          | 4.24    | Fork carriage width                         | b3 mm                          | 880                                |             |                 |             |             |
|                          | 4.25    | Width across forks                          | b5 mm                          | 856                                |             |                 |             |             |
|                          | 4.29    | Reach, lateral                              | mm                             | 1300                               |             |                 |             |             |
|                          | 4.30    | Reach, lateral from centre of truck         | mm                             | 480                                |             |                 |             |             |
|                          | 4.31    | Ground clearance laden under mast           | m1 mm                          | 80                                 |             |                 |             |             |
|                          | 4.32    | Ground clearance centre of wheelbase        | m2 mm                          | 80                                 |             |                 |             |             |
|                          | 4.35    | Turning radius                              | Wa mm                          | 2122                               |             | 2232            |             | 2502        |
|                          | 4.38    | Distance swivelling fork pivot point        | mm                             | 1103                               |             |                 |             |             |
|                          | 4.38.4  | Pallet width                                | mm                             | 1200                               |             |                 |             |             |



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

 **JUNGHEINRICH**