

# ORDER PICKING

## narrow aisle turret



The EK-Series

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# SYSTEMS APPROACH

## to Warehouse Logistics

INNOVATIVE • ECONOMICAL • RELIABLE

Innovative engineering must incorporate creative design with functionality and maintenance. On the one hand, the vehicles must meet rigorous industrial standards, while on the other they must be flexible enough to meet the space and material transport requirements of the individual customer. Introducing the compact, powerful, maneuverable – and above all adaptable EK series of Man-Up Turret Trucks.

EK 1100, EK 1200, EK 1300, EK 1350, EK 1500, EK 2000.

The perfect solution for unit load storage and individual article order selection. Since the operator rides up with the load to the desired storage location, he is afforded an equally good view of the load and its rack destination. Thanks to a thorough design concept and modular engineering, the adaptation to customer specific transport needs are made simple. The EK series offers optimum space utilization. EK models start with a minimum frame width of only 39.4" and can handle lift heights of over 55 ft. Capacities range from 2425 lbs thru 4400 lbs.

An ergonomically designed vehicle fitted with a spacious operator cabin is built for peak and enduring performance. Cutting edge technology keeps the EK operating at peak performance with minimum maintenance costs. Many different operator style consoles and cabins are available to suit the application.



## 7 BASE MODELS TO MEET YOUR NEEDS



### EK 1100

Capacity to 2425 lbs.

Lift Heights to 355"

2 Stage or 3 Stage Masts

~AC Technology

48 Volt or 80 Volt

### EK 1350

Capacity to 3000 lbs.

Lift Heights to 472"

2 Stage or 3 Stage Masts

~AC Technology

80 Volt

### EK 1500 XL

Capacity to 3300 lbs.

Lift Heights to 670"

2 Stage or 3 Stage Masts

~AC Technology

80 Volt

### EK 2000

Capacity to 4400 lbs.

Lift Heights to 590"

2 Stage or 3 Stage Masts

~AC Technology

80 Volt

### EK 1200

Capacity to 2645 lbs.

Lift Heights to 394"

2 Stage or 3 Stage Masts

~AC Technology

48 Volt or 80 Volt

### EK 1500

Capacity to 3300 lbs.

Lift Heights to 590"

2 Stage or 3 Stage Masts

~AC Technology

80 Volt

### EK 1300

Capacity to 2865 lbs.

Lift Heights to 394"

2 Stage or 3 Stage Masts

~AC Technology

48 Volt or 80 Volt

FOR ADDITIONAL INFORMATION

VISIT

[WWW.PMH-CO.COM](http://WWW.PMH-CO.COM)



# Ergonomical and Comfortable

## COMFORTABLE • SAFE • EFFICIENT

A comfortable and safe work environment enhances operator efficiency. The spacious cabin, carpet covered walls, thick cushioned floor, and built-in document / tool holders provide the basics and also allow for a large range of movement for the order picking process. The multifunctional control console houses an easy to read graphics display and the easy reach operational controls. The layout of the control center is intuitive and simple to understand. The enclosed secure cabin protects the operator from harm. Naturally the control center can be reached from a standing or sitting position. The control center is positioned to suit the individual operator. An extensive list of available options include a choice of seats with features such as air cushioned, lumbar adjustable support with tilting arm rests, downward folding seat cushion with standing operator back support and more. A large rear cabin window and angled motor compartment give an operator excellent visibility.



### Options:

- ▶ Swivel seat
- ▶ Air suspension seat
- ▶ Lengthen cabin (front to rear)
- ▶ Support rail for peripheral equipment
- ▶ Swivel - lean out side gates
- ▶ Side sliding operator console
- ▶ Cold store cabin - Freezer applications



## FOR EVERY REQUIREMENT – THE RIGHT CONSOLE



### Console with thumb controls

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Modern and ergonomic with support - stationary handles with thumb controls (standard version)

## CONSOLE OPTIONS



### Console with twist controls

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Modern and ergonomic with rotation controls (standard version)



### Operation with Joy Stick Controls

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Standard Version Select the standard version to suit your operation



### Multifunction Control Handle

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Fast operation with single control handle

### Split operation console next to the seat

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Clear access for order picking & front walk-thru cabin

### Options:

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- ▶ PIN-Code-Access
- ▶ Service interval indication
- ▶ CAN-Bus connection for external input devices
- ▶ Lift height indication with positioning system
- ▶ Color display (standard -all consoles)



# Computer optimized

STRONG • LIGHT WEIGHT • ECONOMICAL



## SGO Mast Construction:

The patented design provides for maximum stability while maintaining lower production weights. This allows greater lift heights and higher performance, while minimizing energy consumption. The specially designed stronger yet lighter weight mast ensures that the trucks center of gravity remains low for better stability. Two stage and three stage masts both provide excellent visibility through the unique bracing system. The three stage mast is also available with or without a full free lift option.

## SPECIFIC SOLUTIONS FOR DIFFERENT LOAD HANDLING REQUIREMENTS

The Telescopic Fork Attachment can operate in smaller aisles, but must use single sided or skid type pallets and cannot pick up or deposit from the floor.



The 180 degree rotating fork (turret) attachment is the most popular and most flexible attachment. Styles include designs for very heavy duty applications – including very long, wide or heavy loads. We offer a turret attachment that is built to suit the application.



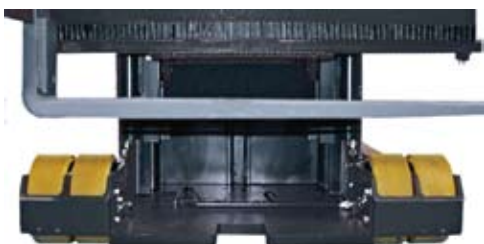
# The Magaziner

designed to suit  
the individual application

COMPACT • WIDE • NARROW • HIGH

The EK series trucks maximize your storage by providing chassis and attachments specifically built to fill your needs. Short, long, wide, or narrow frames to match your load and aisle requirements. Cabins and chassis are built to exact specifications – so that the best possible space utilization is achieved.

Dual Load Wheel option available to lessen the floor pressure and provide a smoother ride.

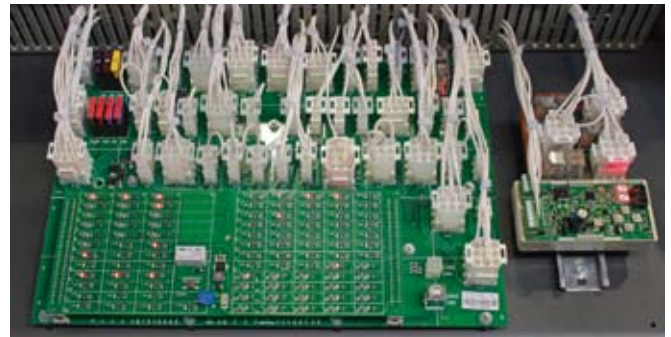




# Well protected sophisticated controls

## ECONOMICAL • PRECISE • SERVICE FRIENDLY

All EK series trucks, from the small EK 1100 to the heavy duty EK 2000 are available ~AC controls. The EK 1100 to EK 1300 are available with either 48V or 80V electrical systems, and the larger models are all 80V units. Minimum energy usage, high throughput and a long life cycles are very important. The operational controls are therefore critical. The EK series demonstrates the use of the latest technology available in forklift design, to allow the use of lighter chassis, while actually increasing vehicle stability. This provides the best possible use of energy consumption and maximizes operational cycles, allowing these trucks to operate with smaller batteries – or last longer per battery cycle.



### Highlights

- ▶ 4th Generation AC-Technology, 40% less heat loss
- ▶ Micro controller with “Solid State Technology
- ▶ Fast diagnostics without special tools or proprietary software.

### Options:

- ▶ GSG2-Controller for linear speed profiles with weight acquisition and programming of different lift cut out heights
- ▶ RFID-Technology
- ▶ Diagnosis available via Global Satellite Modem

### Accessible Motor Compartment

Thick steel doors protect vital components and your investment.

## OPTIMUM PROTECTION AND ACCESSIBILITY



## ORDER PICKING NARROW AISLE TURRET TRUCK WITH AC-TECHNOLOGY

EK 1100

EK 1200

EK 1300

EK 1350

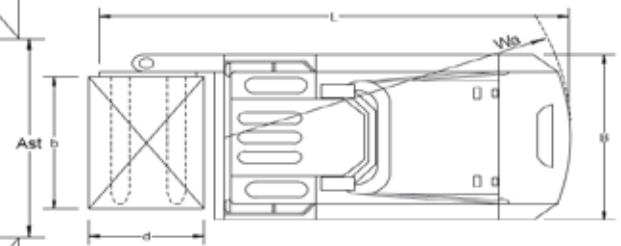
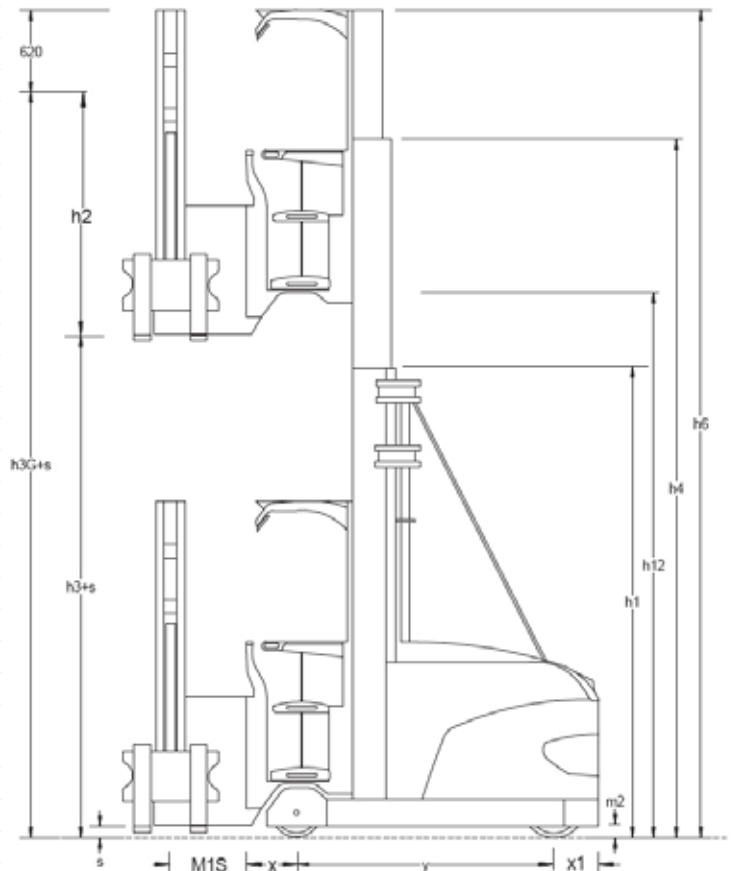
|  |       | EK 1100                          | EK 1200                          | EK 1300                          | EK 1350                          |
|--|-------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Load capacity                                    | Q     | 2425 lbs                         | 2645 lbs                         | 2865 lbs                         | 3000 lbs                         |
| Load center                                      | C     | 24"                              | 24"                              | 24"                              | 24"                              |
| Power supply                                     |       | Electrical                       | Electrical                       | Electrical                       | Electrical                       |
| Operator type                                    |       | Stand-on/Rider seated            | Stand-on/Rider seated            | Stand-on/Rider seated            | Stand-on/Rider seated            |
| Tires  |       | Polyurethane                     | Polyurethane                     | Polyurethane                     | Polyurethane                     |
| Number of wheels, drive/load side (x = driven)   |       | 1x/2                             | 1x/2                             | 1x/2                             | 1x/2                             |
| Driver`s cabin lowered platform height           | h8    | 15.7"                            | 15.7"                            | 15.7"                            | 15.7"                            |
| Inside height of cabin (standard)                |       | 83.9"                            | 83.9"                            | 83.9"                            | 83.9"                            |
| Lift height                                      | h3G+s | see table                        | see table                        | see table                        | see table                        |
| Supplementary lift                               | h2    | 74.8"                            | 74.8"                            | 74.8"                            | 74.8"                            |
| Picking height                                   | h9    | h12 + 63"                        | h12 + 63"                        | h12 + 63"                        | h12 + 63"                        |
| Fork dimensions                                  |       | 1.6"/4.7"                        | 1.6"/4.7"                        | 1.6"/4.7"                        | 1.6"/4.7"                        |
| Fork length                                      |       | 32" - 52"                        | 32" - 52"                        | 32" - 52"                        | 32" - 52"                        |
| Width across forks ( on 33.5" fork carriage )    | B3    | 19.9" - 31.3"                    | 19.9" - 31.3"                    | 19.9" - 31.3"                    | 19.9" - 31.3"                    |
| Height of fork, lowered position                 | s     | 3.1"                             | 3.1"                             | 3.1"                             | 3.1"                             |
| Overall length with fork carrier width 33.5"     | L     | 128.9" - 132.5" - 136.4"         | 131.3" - 134.8" - 138.8"         | 133.9" - 137.4" - 141.3"         | 132.9" - 136.4" - 140.4"         |
| Overall length with fork carrier width 22.8"     | L     | 123.6" - 127.2" - 131.1"         | 126.0" - 129.5" - 133.5"         | 128.5" - 132.1" - 136.0"         | 127.6" - 131.1" - 135.0"         |
| Support boom length (standard)                   | M1S   | 18.1" - 21.7" - 25.6"            | 18.1" - 21.7" - 25.6"            | 18.1" - 21.7" - 25.6"            | 18.1" - 21.7" - 25.6"            |
| Overhang   | X/X1  | 14.0"/10.0"                      | 14.0"/10.0"                      | 14.0"/10.0"                      | 14.4"/10.0"                      |
| Overall width (standard in 1.97" increments)     | B     | 39.4" - 66.9"                    | 47.2" - 66.9"                    | 47.2" - 66.9"                    | 47.2" - 66.9"                    |
| Height of mast collapsed                         | h1    | see table                        | see table                        | see table                        | see table                        |
| Height of cabin extended                         | h6    | see table                        | see table                        | see table                        | see table                        |
| Height of mast extended                          | h4    | see table                        | see table                        | see table                        | see table                        |
| Turning radius                                   | Wa    | 81.9"                            | 84.4"                            | 87.0"                            | 85.4"                            |
| Aisle width                                      | Ast   | 47.2" - 78.7"                    | 55.1" - 78.7"                    | 55.1" - 78.7"                    | 55.1" - 78.7"                    |
| Travel speed laden/unladen                       |       | 7.5 / 7.5 mph                    | 7.5 / 7.5 mph                    | 7.5 / 7.5 mph                    | 7.5 / 7.5 mph                    |
| Lift speed laden/unladen                         |       | 63 / 78 fpm*                     | 61 / 78 fpm*                     | 102 / 110 fpm*                   | 96 / 102 fpm*                    |
| Lowering speed laden/unladen (adjustable limits) |       | 89 / 89 fpm                      | 89 / 89 fpm                      | 89 / 89 fpm                      | 89 / 89 fpm                      |
| Reach speed laden/unladen (adjustable limits)    |       | 89 / 89 fpm                      | 89 / 89 fpm                      | 89 / 89 fpm                      | 89 / 89 fpm                      |
| Weight including battery                         |       | 10,800 - 12,345 lbs.             | 10,912 - 12,785 lbs.             | 11,140 - 13,010 lbs.             | 12,785 - 15,215 lbs.             |
| Axle load with load, drive side/load side        | lbs   | 3,527/9,700; 4,078/10,692        | 3,637/9,920; 4,188/11,243        | 3,747/10,250; 4,409/11,463       | 3,968/11,684; 4,519/13,558       |
| Axle load without load, drive side/load side     | lbs   | 4,629/6,172; 5,291/7,054         | 4,739/6,172; 5,401/7,385         | 4,960/6,173; 5,621/7,385         | 5,291/7,495; 5,952/9,259         |
| Tires, number, drive side/load side              |       | 1/2                              | 1/2                              | 1/2                              | 1/2                              |
| Tires dimension drive side                       |       | 13.5"/5.5"                       | 13.5"/5.5"                       | 13.5"/5.5"                       | 13.5"/5.5"                       |
| Tires dimension load side                        |       | 13.5"/5.5"                       | 13.5"/5.5"                       | 13.5"/5.5"                       | 14.8"/7.0"                       |
| Wheel base                                       | y     | 70.1"                            | 72.6"                            | 75.2"                            | 74.0"                            |
| Ground clearance                                 | m2    | 1.6"                             | 1.6"                             | 1.6"                             | 1.6"                             |
| Operating brake                                  |       | electro-magnetic                 | electro-magnetic                 | electro-magnetic                 | electro-magnetic                 |
| Parking brake                                    |       | dead man's brake                 | dead man's brake                 | dead man's brake                 | dead man's brake                 |
| Battery  |       | Lead Acid                        | Lead Acid                        | Lead Acid                        | Lead Acid                        |
| Battery voltage/capacity                         |       | 48 Volt/775 Ah**/**              | 48 Volt/930 Ah**/**              | 80 Volt/620 Ah***                | 80 Volt/465 Ah***                |
| Battery weight                                   |       | 2,465 lbs.                       | 2,885 lbs.                       | 3,343 lbs.                       | 2,730 lbs.                       |
| Drive motor                                      |       | 5,0 kW                           | 5,0 kW                           | 7,0 kW                           | 7,0 kW                           |
| Lift motor                                       |       | 12,5 kW*                         | 12,5 kW*                         | 21,0 kW*                         | 21,0 kW*                         |
| Drive/lift/steer controls (brushless motors)t    |       | ~AC-Controls / infinite variable | ~AC-Controls / infinite variable | ~AC-Controls / infinite variable | ~AC-Controls / infinite variable |
|  |       | * Higher lift speeds on request  |                                  | ** Also available in 80 V        |                                  |

## EK 1500

## EK 1500 XL

## EK 2000

|                                  |                                  |                                  |
|----------------------------------|----------------------------------|----------------------------------|
| 3300 lbs                         | 3300 lbs                         | 4400 lbs                         |
| 24"                              | 24"                              | 24"                              |
| Electrical                       | Electrical                       | Electrical                       |
| Stand-on/Rider seated            | Stand-on/Rider seated            | Stand-on/Rider seated            |
| Polyurethane                     | Polyurethane                     | Polyurethane                     |
| 1x/2                             | 1x/2                             | 1x/2                             |
| 15.7"                            | 15.7"                            | 15.7"                            |
| 83.9"                            | 83.9"                            | 76.0"                            |
| see table                        | see table                        | see table                        |
| 74.8"                            | 74.8"                            | 59.1"                            |
| h12 + 63"                        | h12 + 63"                        | h12 + 63"                        |
| 1.6"/4.7"                        | 1.6"/4.7"                        | 1.6"/4.7"                        |
| 32" - 52"                        | 32" - 52"                        | 32" - 52"                        |
| 19.9" - 31.3"                    | 19.9" - 31.3"                    | 9.5" - 31.3"                     |
| 3.1"                             | 3.1"                             | 3.1"                             |
| 143.7" - 147.2" - 151.2"         | 143.7" - 147.2" - 151.2"         | 147.2" - 151.2"                  |
| 138.4" - 141.9" - 145.9"         | 138.4" - 141.9" - 145.9"         | 141.9" - 145.9"                  |
| 18.1" - 21.7" - 25.6"            | 18.1" - 21.7" - 25.6"            | 21.7" - 25.6"                    |
| 14.2"/10.6"                      | 14.2"/10.6"                      | 14.2"/10.6"                      |
| 47.2" - 66.9"                    | 62.9" - 74.8"                    | 47.2" - 66.9"                    |
| see table                        | see table                        | see table                        |
| see table                        | see table                        | see table                        |
| see table                        | see table                        | see table                        |
| 96.3"                            | 96.3"                            | 96.3"                            |
| 55.1" - 78.7"                    | 70.9" - 82.7"                    | 55.1" - 78.7"                    |
| 7.5 / 7.5 mph                    | 7.5 / 7.5 mph                    | 7.5 / 7.5 mph                    |
| 94 / 102 fpm*                    | 83 / 89 fpm*                     | 89 / 106 fpm*                    |
| 89 / 89 fpm                      | 89 / 89 fpm                      | 89 / 89 fpm                      |
| 89 / 89 fpm                      | 89 / 89 fpm                      | 39 / 39 fpm                      |
| 15,655 - 19,200 lbs.             | 19,620 - 20,725 lbs.             | 16,315 - 19,620 lbs.             |
| 5,070/13,888; 6,503/15,983       | 6,613/16,314; 6,834/17,195       | 4,629/16,093; 5,952/18,077       |
| 6,393/9,259; 7,826/11,353        | 7,716/11,904; 8,156/12,566       | 6,613/9,700; 7,495/11,904        |
| 1/2                              | 1/2                              | 1/2                              |
| 15.0"/6.0"                       | 15.0"/6.0"                       | 15.0"/6.0"                       |
| 14.8"/7.0"                       | 14.8"/7.0"                       | 14.8"/7.0"                       |
| 84.3"                            | 84.3"                            | 84.3"                            |
| 1.6"                             | 1.6"                             | 1.6"                             |
| electro-magnetic                 | electro-magnetic                 | electro-magnetic                 |
| dead man's brake                 | dead man's brake                 | dead man's brake                 |
| Lead Acid                        | Lead Acid                        | Lead Acid                        |
| 80 Volt / 775 Ah***              | 80 Volt / 775 Ah***              | 80 Volt / 775 Ah***              |
| 4,105 lbs.                       | 4,105 lbs.                       | 4,105 lbs.                       |
| 7,0 kW                           | 7,0 kW                           | 7,0 kW                           |
| 21,0 kW*                         | 28,0 kW                          | 28,0 kW                          |
| ~AC-Controls / infinite variable | ~AC-Controls / infinite variable | ~AC-Controls / infinite variable |
| *** other capacities on request  |                                  |                                  |



**Table 1: Build and lift heights of duplex lift mast with swivel fork, Supplementary lift 74.8" or 90.5"**

| Total lift height with 74.8" suppl. lift (h2) | Total lift height with 90.5" suppl. lift | Cabin lift height | Raised platform height | Extended height cabin** | Collapsed height EK 1100 to 1300 two-stage-mast* | Collapsed height EK 1350/1500 two-stage-mast* | Collapsed height EK 1500 XL two-stage-mast | Collapsed height EK 2000 two-stage-mast*** |
|---|--|-------------------|------------------------|-------------------------|--|---|--|--|
| h3G + s                                       | h3G + s                                  | h3 + s            | h12                    | h6                      | h1   | h1  | h1   | h1   |
| in  | in                                       | in                | in                     | in                      | in   | in  | in   | in   |
| 173.2"  | 188.9"                                   | 98.4"             | 111.0"                 | 197.6"                  | 102.4"   | -   | -  | -  |
| 192.9"  | 208.6"                                   | 118.1"            | 130.7"                 | 217.3"                  | 108.1"   | -   | -  | -  |
| 212.6"  | 228.3"                                   | 137.8"            | 150.4"                 | 237.0"                  | 117.9"   | 115.0"  | -  | 124.8"                                     |
| 232.3"  | 248.0"                                   | 157.5"            | 170.1"                 | 256.7"                  | 127.8"   | 124.8"  | -  | 134.6"                                     |
| 252.0"  | 267.7"                                   | 177.2"            | 189.8"                 | 276.4"                  | 137.6"   | 134.6"  | -  | 144.5"                                     |
| 271.7"  | 287.4"                                   | 196.8"            | 209.4"                 | 296.1"                  | 147.4"   | 144.5"  | -  | 154.3"                                     |
| 291.3"  | 307.1"                                   | 216.5"            | 229.1"                 | 315.7"                  | 157.3"   | 154.3"  | -  | 164.2"                                     |
| 311.0"  | 326.8"                                   | 236.2"            | 248.8"                 | 335.4"                  | 167.1"   | 164.2"  | -  | 174.0"                                     |
| 330.7"  | 346.4"                                   | 255.9"            | 268.5"                 | 355.1"                  | 177.0"   | 174.0"  | -  | 183.9"                                     |
| 350.4"  | 366.1"                                   | 275.6"            | 288.2"                 | 374.8"                  | 186.8"   | 183.9"  | -  | 193.7"                                     |
| 370.1"  | 385.8"                                   | 295.3"            | 307.9"                 | 401.6"                  | 196.7"   | 193.7"  | -  | 203.5"                                     |
| 389.8"  | 405.5"                                   | 315.0"            | 327.6"                 | 414.2"                  | 206.5"   | 203.5"  | -  | 213.4"                                     |
| 409.4"  | 425.2"                                   | 334.6"            | 347.2"                 | 433.9"                  | -  | 213.4"  | -  | 223.2"                                     |
| 429.1"  | 444.9"                                   | 354.3"            | 366.9"                 | 453.5"                  | -  | 223.2"  | -  | 233.1"                                     |
| 448.8"  | 464.6"                                   | 374.0"            | 386.6"                 | 473.2"                  | -  | 233.1"  | -  | 242.9"                                     |
| 468.5"  | 484.2"                                   | 393.7"            | 406.3"                 | 492.9"                  | -  | 242.9"  | -  | 252.8"                                     |
| 488.2"  | 503.9"                                   | 413.4"            | 426.0"                 | 512.6"                  | -  | 252.8"  | -  | 262.6"                                     |
| 507.9"  | 523.6"                                   | 433.1"            | 445.7"                 | 532.3"                  | -  | 262.6"  | -  | 272.4"                                     |
| 527.6"  | 543.3"                                   | 452.7"            | 465.3"                 | 552.0"                  | -  | 272.4"  | -  | 282.3"                                     |
| 547.2"  | 563.0"                                   | 472.4"            | 485.0"                 | 571.7"                  | -  | 282.3"  | 292.1"                                     | -  |
| 566.9"  | 582.7"                                   | 492.1"            | 504.8"                 | 591.3"                  | -  | -   | 302.0"                                     | -  |
| 586.6"  | 602.4"                                   | 511.8"            | 524.4"                 | 611.0"                  | -  | -   | 311.8"                                     | -  |
| 606.3"  | 622.0"                                   | 531.5"            | 544.1"                 | 630.7"                  | -  | -   | 321.7"                                     | -  |
| 626.0"  | 641.8"                                   | 551.2"            | 563.8"                 | 650.4"                  | -  | -   | 331.5"                                     | -  |

\*EK 1100 maximum collapsed height of 187"; \*EK 1350 maximum collapsed height of 242.9"; other collapsed & lift heights on request.  
 \*\*Extended height with optional 90.5" suppl. lift add + 15.7"; \*\*\*EK 2000 has a reduced total lift height with a supplementary lift of 59.1" ; other heights on request.

**Table 2: Build and lift heights of triplex lift mast with swivel fork, Supplementary lift 74.8" or 90.5"**

| Total lift height with 74.8" suppl. lift | Total lift height with 90.5" suppl. lift | Cabin lift height | Raised platform height | Extended height cabin** | Collapsed height EK 1100 to 1300 three-stage-mast* | Collapsed height EK 1350 / 1500 three-stage-mast | Collapsed height EK 1500 XL three-stage-mast |
|--|--|-------------------|------------------------|-------------------------|--|--|--|
| h3G + s                                  | h3G + s                                  | h3 + s            | h6                     | h6                      | h1   | h1   | h1   |
| in                                       | in                                       | in                | in                     | in                      | in   | in   | in   |
| 222.4"                                   | 238.2"                                   | 147.6"            | 160.2"                 | 239.0"                  | 102.4"   | -  | -  |
| 252.0"                                   | 267.7"                                   | 177.2"            | 189.8"                 | 268.5"                  | 108.1"   | -  | -  |
| 281.5"                                   | 297.2"                                   | 206.7"            | 219.3"                 | 298.0"                  | 117.9"   | 115.0"   | -  |
| 311.0"                                   | 326.8"                                   | 236.2"            | 248.8"                 | 327.6"                  | 127.8"   | 124.8"   | -  |
| 340.6"                                   | 356.3"                                   | 265.7"            | 278.3"                 | 357.1"                  | 137.6"   | 134.6"   | -  |
| 370.1"                                   | 385.8"                                   | 295.3"            | 307.9"                 | 386.6"                  | 147.4"   | 144.5"   | -  |
| 411.4"                                   | 415.4"                                   | 324.8"            | 337.4"                 | 416.1"                  | 157.3"   | 154.3"   | -  |
| 429.1"                                   | 444.9"                                   | 354.3"            | 366.9"                 | 445.7"                  | -  | 164.2"   | -  |
| 458.7"                                   | 474.4"                                   | 383.9"            | 396.5"                 | 475.2"                  | -  | 174.0"   | -  |
| 488.2"                                   | 503.9"                                   | 413.4"            | 426.0"                 | 504.7"                  | -  | 183.9"   | 193.7"                                       |
| 517.7"                                   | 533.5"                                   | 442.9"            | 455.5"                 | 534.3"                  | -  | 193.7"   | 203.5"                                       |
| 547.2"                                   | 563.0"                                   | 472.4"            | 485.0"                 | 563.8"                  | -  | 203.5"   | 213.4"                                       |
| 576.8"                                   | 592.5"                                   | 502.0"            | 514.6"                 | 593.3"                  | -  | 213.4"   | 223.2"                                       |
| 606.3"                                   | 622.0"                                   | 531.5"            | 544.1"                 | 622.8"                  | -  | -  | 233.1"                                       |
| 635.8"                                   | 651.6"                                   | 561.0"            | 573.6"                 | 652.4"                  | -  | -  | 242.9"                                       |

\*EK 1100 maximum collapsed height of 137.6"; \*\* extended height with optional 90.5" suppl. lift add + 15.7"; other collapsed & lift heights on request.  
 The overall length with triplex mast: EK 1100/1200/1300 is 1.4" longer; EK 1350/1500 is 4.9" longer; EK 1350 collapsed height > 164" is the same length as the EK 1500.

**Table 3: Aisle width depending on load/pallet dimensions**

| Load dimension |       | Distance between loads** | Boom length | EK 1100 Transfer aisle width* | EK 1200 / 1300 Transfer aisle width* | EK 1350 Transfer aisle width* | EK 1500 / 2000 Transfer aisle width* |
|----------------|-------|--------------------------|-------------|-------------------------------|--------------------------------------|-------------------------------|--------------------------------------|
| depth          | width |                          |             |                               |                                      |                               |                                      |
| b              | d     | Ast                      | M1S         |                               |                                      |                               |                                      |
| in             | in    | in                       | in          | in                            | in                                   | in                            | in                                   |
| 60"            | 48"   | 80"                      | 26"         | 145.0"                        | 145.6"                               | 148.8"                        | 157.8"                               |
| 48"            | 32"   | 66"                      | 18"         | 136.2"                        | 138.2"                               | 140.8"                        | 149.6"                               |
| 48"            | 40"   | 66"                      | 22"         | 139.4"                        | 141.7"                               | 143.9"                        | 153.1"                               |
| 48"            | 48"   | 66"                      | 26"         | 142.9"                        | 145.3"                               | 147.5"                        | 156.7"                               |
| 40"            | 32"   | 58"                      | 18"         | 133.1"                        | 135.4"                               | 137.6"                        | 146.9"                               |
| 40"            | 40"   | 58"                      | 22"         | 136.2"                        | 138.6"                               | 141.2"                        | 150.4"                               |
| 40"            | 48"   | 58"                      | 26"         | 140.2"                        | 142.1"                               | 144.7"                        | 153.9"                               |
| 32"            | 32"   | 55"                      | 18"         | 132.3"                        | 134.6"                               | 137.2"                        | 146.1"                               |
| 32"            | 40"   | 55"                      | 22"         | 135.8"                        | 137.8"                               | 140.4"                        | 149.6"                               |
| 32"            | 48"   | 55"                      | 26"         | 139.4"                        | 141.7"                               | 143.9"                        | 153.5"                               |
| 48"            | 60"   | 68"                      | 32"         | 155.9"                        | 158.6"                               | 161.1"                        | 169.5"                               |

\*Transfer aisle width without load and 22.8" fork carriage width, with mechanical guidance add + 12", with wire guidance add + 32" recommended.  
 Aisle width (Ast) for mechanical guidance and duplex mast truck; \*\* EK 2000 add + 2" Reduced truck lengths available upon request.