

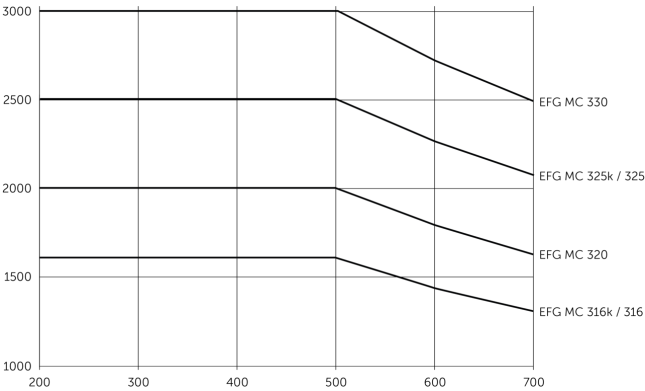


## **Electric four wheel counterbalance forklift truck**

**EFG MC 316k/316/320/325k/325/330**

Lift height: 3000-6500 mm / Load capacity: 1600-3000 kg

# EFG MC 316k/316/320/325k/325/330



# EFG MC 316k/316/320/325k/325/330

| EFG MC 316k, EFG MC 316                  | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast |
|------------------------------------------|-----------|----------------------------|----------------|---------------------------|-------------------------------|
| Mast tilt / Duplex mast ZT / hot-rolled  | 3000 mm   | 2000 mm                    | 150 mm         | 3555 mm                   | 7 / 5 °                       |
|                                          | 3300 mm   | 2150 mm                    | 150 mm         | 3855 mm                   | 7 / 5 °                       |
|                                          | 3600 mm   | 2300 mm                    | 150 mm         | 4155 mm                   | 7 / 5 °                       |
|                                          | 4000 mm   | 2500 mm                    | 150 mm         | 4555 mm                   | 7 / 5 °                       |
|                                          | 4500 mm   | 2800 mm                    | 150 mm         | 5055 mm                   | 7 / 5 °                       |
|                                          | 5000 mm   | 3050 mm                    | 150 mm         | 5555 mm                   | 7 / 5 °                       |
| Mast tilt / Duplex mast ZZ / hot-rolled  | 3300 mm   | 2105 mm                    | 1470 mm        | 3855 mm                   | 7 / 5 °                       |
|                                          | 3600 mm   | 2255 mm                    | 1620 mm        | 4155 mm                   | 7 / 5 °                       |
|                                          | 4000 mm   | 2455 mm                    | 1820 mm        | 4555 mm                   | 7 / 5 °                       |
| Mast tilt / Triplex mast DZ / hot-rolled | 4500 mm   | 2005 mm                    | 1360 mm        | 5055 mm                   | 7 / 5 °                       |
|                                          | 4800 mm   | 2105 mm                    | 1460 mm        | 5355 mm                   | 7 / 5 °                       |
|                                          | 5000 mm   | 2180 mm                    | 1530 mm        | 5555 mm                   | 7 / 5 °                       |
|                                          | 5500 mm   | 2355 mm                    | 1710 mm        | 6055 mm                   | 7 / 5 °                       |
|                                          | 6000 mm   | 2555 mm                    | 1910 mm        | 6555 mm                   | 7 / 5 °                       |
|                                          | 6500 mm   | 2805 mm                    | 2160 mm        | 7055 mm                   | 7 / 5 °                       |
| EFG MC 320                               | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast |
| Mast tilt / Duplex mast ZT / hot-rolled  | 3000 mm   | 2000 mm                    | 150 mm         | 3605 mm                   | 7 / 5 °                       |
|                                          | 3300 mm   | 2150 mm                    | 150 mm         | 3905 mm                   | 7 / 5 °                       |
|                                          | 3600 mm   | 2300 mm                    | 150 mm         | 4205 mm                   | 7 / 5 °                       |
|                                          | 4000 mm   | 2500 mm                    | 150 mm         | 4605 mm                   | 7 / 5 °                       |
|                                          | 4500 mm   | 2800 mm                    | 150 mm         | 5105 mm                   | 7 / 5 °                       |
|                                          | 5000 mm   | 3050 mm                    | 150 mm         | 5605 mm                   | 7 / 5 °                       |
| Mast tilt / Duplex mast ZZ / hot-rolled  | 3300 mm   | 2105 mm                    | 1470 mm        | 3935 mm                   | 7 / 5 °                       |
|                                          | 3600 mm   | 2255 mm                    | 1620 mm        | 4235 mm                   | 7 / 5 °                       |
|                                          | 4000 mm   | 2455 mm                    | 1820 mm        | 4635 mm                   | 7 / 5 °                       |
| Mast tilt / Triplex mast DZ / hot-rolled | 4500 mm   | 2005 mm                    | 1360 mm        | 5135 mm                   | 7 / 5 °                       |

|                                          |                  |                                   |                       |                                  |                                      |
|------------------------------------------|------------------|-----------------------------------|-----------------------|----------------------------------|--------------------------------------|
|                                          | 4800 mm          | 2105 mm                           | 1460 mm               | 5435 mm                          | 7 / 5 °                              |
|                                          | 5000 mm          | 2180 mm                           | 1530 mm               | 5635 mm                          | 7 / 5 °                              |
|                                          | 5500 mm          | 2355 mm                           | 1710 mm               | 6135 mm                          | 7 / 5 °                              |
|                                          | 6000 mm          | 2555 mm                           | 1910 mm               | 6635 mm                          | 7 / 5 °                              |
|                                          | 6500 mm          | 2805 mm                           | 2160 mm               | 7135 mm                          | 7 / 5 °                              |
| <b>EFG MC 325k, EFG MC 325</b>           | <b>Lift (h3)</b> | <b>Retracted mast height (h1)</b> | <b>Free lift (h2)</b> | <b>Extended mast height (h4)</b> | <b>Forward/backward tilt of mast</b> |
| Mast tilt / Duplex mast ZT / hot-rolled  | 3100 mm          | 2200 mm                           | 150 mm                | 3700 mm                          | 7 / 5 °                              |
|                                          | 3300 mm          | 2300 mm                           | 150 mm                | 3900 mm                          | 7 / 5 °                              |
|                                          | 3500 mm          | 2400 mm                           | 150 mm                | 4100 mm                          | 7 / 5 °                              |
|                                          | 3700 mm          | 2500 mm                           | 150 mm                | 4300 mm                          | 7 / 5 °                              |
|                                          | 4000 mm          | 2650 mm                           | 150 mm                | 4600 mm                          | 7 / 5 °                              |
|                                          | 4500 mm          | 2950 mm                           | 150 mm                | 5100 mm                          | 7 / 5 °                              |
| Mast tilt / Duplex mast ZZ / hot-rolled  | 3100 mm          | 2160 mm                           | 1600 mm               | 3700 mm                          | 7 / 5 °                              |
|                                          | 3300 mm          | 2260 mm                           | 1700 mm               | 3900 mm                          | 7 / 5 °                              |
|                                          | 3500 mm          | 2360 mm                           | 1800 mm               | 4100 mm                          | 7 / 5 °                              |
|                                          | 4000 mm          | 2610 mm                           | 2060 mm               | 4600 mm                          | 7 / 5 °                              |
| Mast tilt / Triplex mast DZ / hot-rolled | 4400 mm          | 2060 mm                           | 1500 mm               | 5000 mm                          | 7 / 5 °                              |
|                                          | 4700 mm          | 2160 mm                           | 1600 mm               | 5300 mm                          | 7 / 5 °                              |
|                                          | 5000 mm          | 2260 mm                           | 1700 mm               | 5600 mm                          | 7 / 5 °                              |
| <b>EFG MC 330</b>                        | <b>Lift (h3)</b> | <b>Retracted mast height (h1)</b> | <b>Free lift (h2)</b> | <b>Extended mast height (h4)</b> | <b>Forward/backward tilt of mast</b> |
| Mast tilt / Duplex mast ZT / hot-rolled  | 3100 mm          | 2200 mm                           | 150 mm                | 3850 mm                          | 7 / 5 °                              |
|                                          | 3300 mm          | 2300 mm                           | 150 mm                | 4050 mm                          | 7 / 5 °                              |
|                                          | 3500 mm          | 2400 mm                           | 150 mm                | 4250 mm                          | 7 / 5 °                              |
|                                          | 3700 mm          | 2500 mm                           | 150 mm                | 4450 mm                          | 7 / 5 °                              |
|                                          | 4000 mm          | 2650 mm                           | 150 mm                | 4750 mm                          | 7 / 5 °                              |
|                                          | 4500 mm          | 2950 mm                           | 150 mm                | 5250 mm                          | 7 / 5 °                              |
| Mast tilt / Duplex mast ZZ / hot-rolled  | 3100 mm          | 2160 mm                           | 1440 mm               | 3850 mm                          | 7 / 5 °                              |
|                                          | 3300 mm          | 2260 mm                           | 1540 mm               | 4050 mm                          | 7 / 5 °                              |
|                                          | 3500 mm          | 2360 mm                           | 1640 mm               | 4250 mm                          | 7 / 5 °                              |

|                                          |         |         |         |         |         |
|------------------------------------------|---------|---------|---------|---------|---------|
|                                          | 4000 mm | 2610 mm | 1900 mm | 4750 mm | 7 / 5 ° |
| Mast tilt / Triplex mast DZ / hot-rolled | 4400 mm | 2060 mm | 1340 mm | 5150 mm | 7 / 5 ° |
|                                          | 4700 mm | 2160 mm | 1440 mm | 5450 mm | 7 / 5 ° |
|                                          | 5000 mm | 2260 mm | 1540 mm | 5750 mm | 7 / 5 ° |

## VDI table

|                          |        |                                             |           |                    |             |             |                  |             |                              |                 |
|--------------------------|--------|---------------------------------------------|-----------|--------------------|-------------|-------------|------------------|-------------|------------------------------|-----------------|
| Characteristic           | 1.1    | Manufacturer (abbreviated description)      |           | Jungheinrich       |             |             |                  |             |                              |                 |
|                          | 1.2    | Manufacturer's type designation             |           | EFG MC 316K        | EFG MC 316  | EFG MC 320  | EFG MC 325k      | EFG MC 325  | EFG MC 330                   |                 |
|                          | 1.3    | Drive                                       |           | Electric           |             |             |                  |             |                              |                 |
|                          | 1.4    | Operation                                   |           | Seat               |             |             |                  |             |                              |                 |
|                          | 1.5    | Load capacity/load                          | Q kg      | 1600               |             | 2000        | 2500             |             | 3000                         |                 |
|                          | 1.6    | Load centre distance                        | c mm      | 500                |             |             |                  |             |                              |                 |
|                          | 1.8    | Load distance, centre of drive axle to fork | x mm      | 352                |             |             | 467              |             | 472                          |                 |
|                          | 1.9    | Wheelbase                                   | y mm      | 1398               | 1506        |             | 1453             | 1561        | 1700                         |                 |
| Weights                  | 2.1.1  | Service weight (incl. battery)              | kg        | 3261               | 3437        | 3768        | 4397             | 4502        | 4783                         |                 |
|                          | 2.2    | Axle load laden front/rear                  | kg        | 4094 / 767         | 3989 / 1048 | 4971 / 797  | 6207 / 690       | 6302 / 700  | 7004 / 779                   |                 |
|                          | 2.3    | Axle load unladen front/rear                | kg        | 1596 / 1665        | 1699 / 1738 | 1880 / 1888 | 1855 / 2542      | 1981 / 2521 | 2248 / 2535                  |                 |
| Wheels/suspension system | 3.1    | Tyres                                       |           | Super-elastic (SE) |             |             |                  |             |                              |                 |
|                          | 3.2    | Tyre size, front                            |           | 18x7-8             |             | 200/50-10   | 18 x 9 - 12      |             | TANDEM, 18 x 5 & 6 - 12(1/8) |                 |
|                          | 3.3    | Tyre size, rear                             |           | 16x6-8             |             |             | 16 x 6 -10 (1/2) |             | 16 x 7 -10 (1/2)             |                 |
|                          | 3.5    | Wheels, number front/back (x=driven)        |           | 2x/2               |             |             | 2x / 2           |             |                              |                 |
|                          | 3.6    | Tread width, front                          | b10 mm    | 904                |             | 924         | 938              |             | 1013                         |                 |
|                          | 3.7    | Tread width, rear                           | b11 mm    | 870                |             |             | 864              |             | 995                          |                 |
| Basic dimensions         | 4.1    | Forward/backward tilt of mast               | a/β °     | 7 / 5              |             |             |                  |             |                              |                 |
|                          | 4.2    | Retracted mast height (h1)                  | h1 mm     | 2000               |             |             | 2200             |             |                              |                 |
|                          | 4.2.1  | total height                                | h15 mm    | 2080               |             |             | 2200             |             |                              |                 |
|                          | 4.3    | Free lift (h2)                              | h2 mm     | 150                |             |             |                  |             |                              |                 |
|                          | 4.4    | Lift (h3)                                   | h3 mm     | 3000               |             |             | 3100             |             |                              |                 |
|                          | 4.5    | Extended mast height (h4)                   | h4 mm     | 3555               |             | 3605        | 3700             |             | 3850                         |                 |
|                          | 4.7    | Height of overhead guard (cab)              | h6 mm     | 2080               |             |             |                  |             |                              |                 |
|                          | 4.8    | Seat height/stand height                    | h7 mm     | 1030               |             |             |                  |             |                              |                 |
|                          | 4.12   | Coupling height                             | h10 mm    | 475                |             |             |                  |             |                              |                 |
|                          | 4.19   | total length                                | l1 mm     | 2988               | 3096        |             | 3213             | 3321        | 3469                         |                 |
|                          | 4.20   | Length including fork shank                 | l2 mm     | 1988               | 2096        |             | 2213             | 2321        | 2469                         |                 |
|                          | 4.21.1 | total width                                 | b1 mm     | 1060               |             | 1120        | 1170             |             | 1313                         |                 |
|                          | 4.22   | Fork dimensions                             | s/ e/l mm | 40 x 100 x 1000    |             |             |                  |             |                              | 45 x 125 x 1000 |
|                          | 4.23   | Fork carriage connection class              |           | 2A                 |             |             |                  |             |                              | 3A              |
|                          | 4.24   | Fork carriage width                         | b3 mm     | 980                |             |             | 1120             |             |                              |                 |
|                          | 4.31   | Ground clearance laden under mast           | m1 mm     | 97                 |             |             |                  |             |                              |                 |
|                          | 4.32   | Ground clearance centre of wheelbase        | m2 mm     | 83                 |             |             | 88               |             |                              |                 |

|                                                                                                                                                                                                   |                     |                                                              |                                    |        |                           |          |                          |                       |          |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------|------------------------------------|--------|---------------------------|----------|--------------------------|-----------------------|----------|-------------------------|
|                                                                                                                                                                                                   | 4.34.1              | Aisle width (pallet 1000x1200 sideways)                      | Ast                                | mm     | 3405                      | 3513     |                          | 3648                  | 3767     | 3942                    |
|                                                                                                                                                                                                   | 4.34.2              | Aisle width (pallet 800x1200 length)                         | Ast                                | mm     | 3604                      | 3712     |                          | 3847                  | 3967     | 4142                    |
|                                                                                                                                                                                                   | 4.35                | Turning radius                                               | Wa                                 | mm     | 1852                      | 1960     |                          |                       | 2100     | 2270                    |
|                                                                                                                                                                                                   | 4.36                | Smallest pivot point distance                                | b13                                | mm     | 542                       | 562      |                          | 542                   | 600      | 667                     |
| Performance data                                                                                                                                                                                  | 5.1                 | Travel speed laden/unladen (Efficiency   drivePLUS)          |                                    | km/h   | 16 / 16   19 / 19         |          | 16 / 16   18.5 / 19      | 17 / 18   17 / 18     |          |                         |
|                                                                                                                                                                                                   | 5.2                 | Lift speed laden/unladen (Efficiency   liftPLUS)             |                                    | m/s    | 0.43 / 0.66   0.57 / 0.82 |          | 0.38 / 0.52   0.5 / 0.68 | 0.4 / 0.5   0.4 / 0.5 |          | 0.3 / 0.32   0.3 / 0.32 |
|                                                                                                                                                                                                   | 5.3                 | Lowering speed laden/unladen                                 |                                    | m/s    | 0.55 / 0.55               |          |                          |                       |          |                         |
|                                                                                                                                                                                                   | 5.5                 | Drawbar pull laden                                           |                                    | N      | 2100                      |          | 1900                     | 2400                  |          | 2300                    |
|                                                                                                                                                                                                   | 5.6                 | Max. drawbar pull laden/unladen                              |                                    | N      | 13500 / 13500             |          |                          | 14000 / 8700          |          | 13800 / 14600           |
|                                                                                                                                                                                                   | 5.7                 | Gradeability laden/unladen                                   |                                    | %      | 12 / 20                   |          |                          | 9 / 13                |          | 8 / 12                  |
|                                                                                                                                                                                                   | 5.8                 | Max. gradeability laden/unladen                              |                                    | %      | 24 / 35                   |          | 22 / 35                  | 16 / 22               |          | 15 / 22                 |
|                                                                                                                                                                                                   | 5.9                 | Acceleration time laden/unladen (Efficiency   drivePLUS)     |                                    | s      | 5.2 / 4.9   5.2 / 4.8     |          | 5 / 4.5   4.8 / 4.2      | 5.6 / 5   5.6 / 5     |          | 5.7 / 5.2   5.7 / 5.2   |
|                                                                                                                                                                                                   | 5.10                | Service brake                                                |                                    |        | mechanical/hydraulic      |          |                          |                       |          |                         |
|                                                                                                                                                                                                   | E-motor/Electronics | 6.1                                                          | Drive motor, performance S2 60 min |        | kW                        | 4.6      |                          |                       |          |                         |
| 6.1.1                                                                                                                                                                                             |                     | 2. Drive motor, performance S2 60 min                        |                                    | kW     | 4.6                       |          |                          |                       |          |                         |
| 6.2                                                                                                                                                                                               |                     | Lift motor, performance with S3                              |                                    | kW     | 15.5                      |          |                          |                       |          |                         |
| 6.3                                                                                                                                                                                               |                     | Battery according to DIN 43531/35/36                         |                                    |        | DIN 43531 A               |          |                          |                       |          |                         |
| 6.4                                                                                                                                                                                               |                     | Battery voltage/nominal capacity                             |                                    | V / Ah | 48 / 625                  | 48 / 750 |                          | 48 / 625              | 48 / 750 |                         |
| 6.5                                                                                                                                                                                               |                     | Battery weight                                               |                                    | kg     | 856                       | 1013     |                          | 856                   | 1013     |                         |
| 6.6.1                                                                                                                                                                                             |                     | Energy consumption according to EN cycle (Efficiency   PLUS) |                                    | kWh/h  | 4.8   4.71                |          | 4.94   4.94              | 5.77   5.77           |          | 6.88   6.88             |
| 6.6.2                                                                                                                                                                                             |                     | CO2 equivalent as per EN 16796 (Efficiency   PLUS)           |                                    | kg/h   | 2.6   2.5                 |          | 2.6   2.6                | 3.1   3.1             |          | 3.7   3.7               |
| 6.7                                                                                                                                                                                               |                     | Throughput (Efficiency   PLUS)                               |                                    | t/h    | 118   122                 |          | 141   153                | 172   172             |          | 196   196               |
| 6.8.1                                                                                                                                                                                             |                     | Energy consumption with max. throughput (Efficiency   PLUS)  |                                    | kWh/h  | 6.39   7.73               |          | 7.27   8.91              | 8.84   8.84           |          | 7.71   7.71             |
| Other                                                                                                                                                                                             | 8.1                 | Type of drive control                                        |                                    |        | Impulse/AC                |          |                          |                       |          |                         |
|                                                                                                                                                                                                   | 10.1                | Operating pressure for attachment                            |                                    | bar    | 230                       |          |                          |                       |          |                         |
|                                                                                                                                                                                                   | 10.2                | Oil flow for attachments                                     |                                    | l/min  | 22                        |          |                          | 25                    |          |                         |
|                                                                                                                                                                                                   | 10.7                | Sound level as per EN12053, operator's ear                   |                                    | dB (A) | 72                        |          |                          | 78                    |          |                         |
|                                                                                                                                                                                                   | 10.8                | Trailer coupling, model/type DIN                             |                                    |        | Bolts                     |          |                          |                       |          |                         |
| - 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. |                     |                                                              |                                    |        |                           |          |                          |                       |          |                         |

The German production facilities in  
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