



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

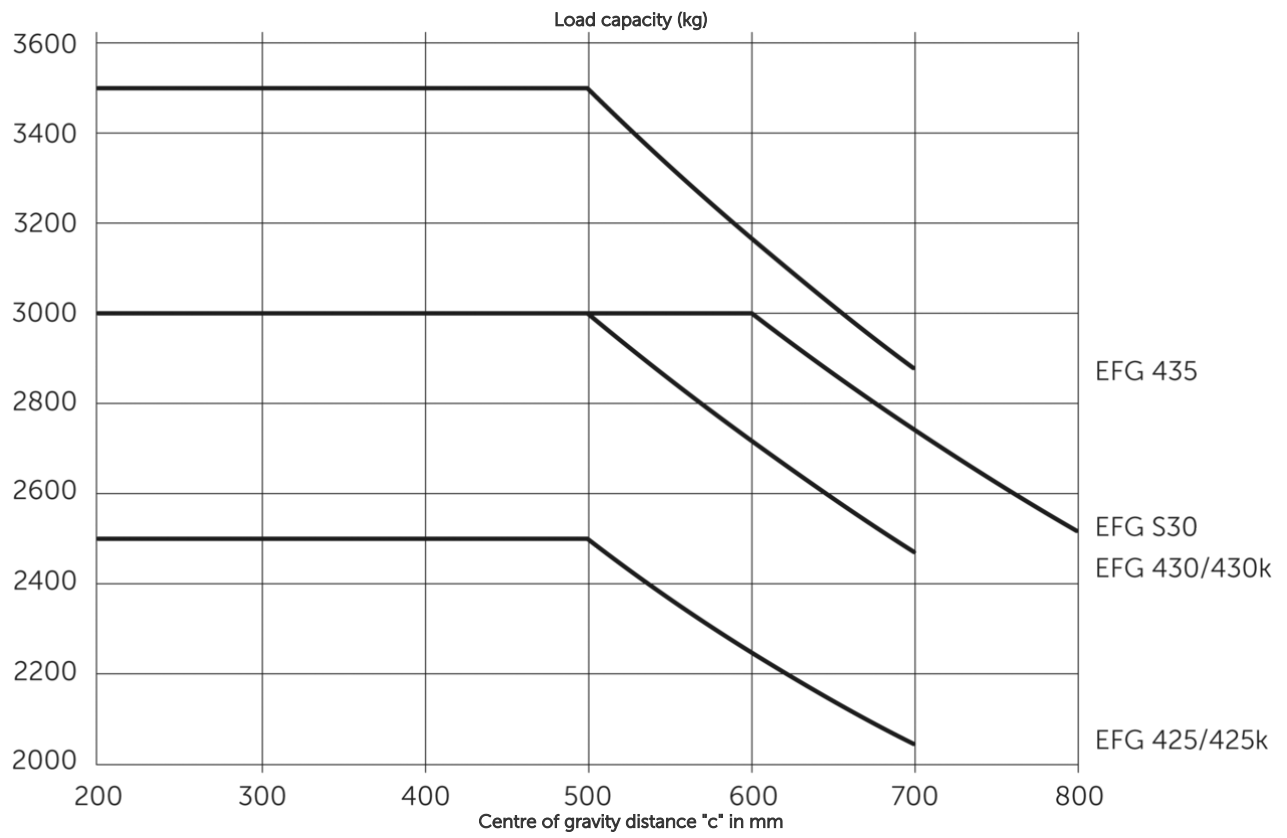
**EFG 425-435**

Lift height: 2900-7500 mm / Load capacity: 2500-3500 kg



EFG 425-435





# EFG 425-435

| EFG 425k, EFG 425          | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast |
|----------------------------|-----------|----------------------------|----------------|---------------------------|-------------------------------|
| Duplex mast ZT             | 2900 mm   | 2125 mm                    | 150 mm         | 3500 mm                   | 6 / 8 °                       |
|                            | 3100 mm   | 2225 mm                    | 150 mm         | 3700 mm                   | 6 / 8 °                       |
|                            | 3300 mm   | 2325 mm                    | 150 mm         | 3900 mm                   | 6 / 8 °                       |
|                            | 3500 mm   | 2425 mm                    | 150 mm         | 4100 mm                   | 6 / 8 °                       |
|                            | 3700 mm   | 2525 mm                    | 150 mm         | 4300 mm                   | 6 / 8 °                       |
|                            | 4000 mm   | 2675 mm                    | 150 mm         | 4600 mm                   | 6 / 8 °                       |
|                            | 4300 mm   | 2875 mm                    | 150 mm         | 4950 mm                   | 6 / 8 °                       |
|                            | 4500 mm   | 2975 mm                    | 150 mm         | 5150 mm                   | 6 / 8 °                       |
| Duplex mast ZZ             | 3100 mm   | 2190 mm                    | 1600 mm        | 3690 mm                   | 6 / 8 °                       |
|                            | 3300 mm   | 2290 mm                    | 1700 mm        | 3890 mm                   | 6 / 8 °                       |
|                            | 3500 mm   | 2390 mm                    | 1800 mm        | 4090 mm                   | 6 / 8 °                       |
|                            | 3700 mm   | 2490 mm                    | 1900 mm        | 4290 mm                   | 6 / 8 °                       |
|                            | 4000 mm   | 2640 mm                    | 2050 mm        | 4590 mm                   | 6 / 8 °                       |
| Triplex mast DZ            | 4400 mm   | 2090 mm                    | 1500 mm        | 4990 mm                   | 6 / 8 °                       |
|                            | 4700 mm   | 2190 mm                    | 1600 mm        | 5290 mm                   | 6 / 8 °                       |
|                            | 5000 mm   | 2290 mm                    | 1700 mm        | 5590 mm                   | 6 / 8 °                       |
|                            | 5500 mm   | 2490 mm                    | 1900 mm        | 6090 mm                   | 6 / 8 °                       |
|                            | 6000 mm   | 2690 mm                    | 2100 mm        | 6590 mm                   | 6 / 8 °                       |
|                            | 6500 mm   | 2890 mm                    | 2300 mm        | 7090 mm                   | 6 / 8 °                       |
|                            | 7000 mm   | 3090 mm                    | 2500 mm        | 7590 mm                   | 6 / 8 °                       |
|                            | 7500 mm   | 3290 mm                    | 2700 mm        | 8090 mm                   | 6 / 8 °                       |
| EFG 430k, EFG 430, EFG S30 | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast |
| Duplex mast ZT             | 2900 mm   | 2122 mm                    | 150 mm         | 3657 mm                   | 6 / 8 °                       |
|                            | 3100 mm   | 2222 mm                    | 150 mm         | 3857 mm                   | 6 / 8 °                       |
|                            | 3300 mm   | 2322 mm                    | 150 mm         | 4057 mm                   | 6 / 8 °                       |
|                            | 3500 mm   | 2422 mm                    | 150 mm         | 4257 mm                   | 6 / 8 °                       |
|                            | 3700 mm   | 2522 mm                    | 150 mm         | 4457 mm                   | 6 / 8 °                       |
|                            | 4000 mm   | 2672 mm                    | 150 mm         | 4757 mm                   | 6 / 8 °                       |

|                 |           |                            |                |                           |                               |
|-----------------|-----------|----------------------------|----------------|---------------------------|-------------------------------|
|                 | 4300 mm   | 2872 mm                    | 150 mm         | 5057 mm                   | 6 / 8 °                       |
|                 | 4500 mm   | 2972 mm                    | 150 mm         | 5257 mm                   | 6 / 8 °                       |
| Duplex mast ZZ  | 3100 mm   | 2187 mm                    | 1450 mm        | 3837 mm                   | 6 / 8 °                       |
|                 | 3300 mm   | 2287 mm                    | 1450 mm        | 3837 mm                   | 6 / 8 °                       |
|                 | 3500 mm   | 2387 mm                    | 1650 mm        | 4237 mm                   | 6 / 8 °                       |
|                 | 3700 mm   | 2487 mm                    | 1750 mm        | 4437 mm                   | 6 / 8 °                       |
|                 | 4000 mm   | 2637 mm                    | 1900 mm        | 4737 mm                   | 6 / 8 °                       |
| Triplex mast DZ | 4400 mm   | 2087 mm                    | 1350 mm        | 5137 mm                   | 6 / 8 °                       |
|                 | 4700 mm   | 2187 mm                    | 1450 mm        | 5437 mm                   | 6 / 8 °                       |
|                 | 5000 mm   | 2287 mm                    | 1550 mm        | 5737 mm                   | 6 / 8 °                       |
|                 | 5500 mm   | 2487 mm                    | 1750 mm        | 6237 mm                   | 6 / 8 °                       |
|                 | 6000 mm   | 2687 mm                    | 1950 mm        | 6737 mm                   | 6 / 8 °                       |
|                 | 6500 mm   | 2887 mm                    | 2150 mm        | 7237 mm                   | 6 / 8 °                       |
|                 | 7000 mm   | 3087 mm                    | 2350 mm        | 7737 mm                   | 6 / 8 °                       |
|                 | 7500 mm   | 3287 mm                    | 2550 mm        | 8237 mm                   | 6 / 8 °                       |
| EFG 435         | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast |
| Duplex mast ZT  | 2900 mm   | 2152 mm                    | 150 mm         | 3686 mm                   | 6 / 8 °                       |
|                 | 3100 mm   | 2252 mm                    | 150 mm         | 3886 mm                   | 6 / 8 °                       |
|                 | 3300 mm   | 2352 mm                    | 150 mm         | 4086 mm                   | 6 / 8 °                       |
|                 | 3500 mm   | 2452 mm                    | 150 mm         | 4286 mm                   | 6 / 8 °                       |
|                 | 3700 mm   | 2552 mm                    | 150 mm         | 4486 mm                   | 6 / 8 °                       |
|                 | 4000 mm   | 2702 mm                    | 150 mm         | 4786 mm                   | 6 / 8 °                       |
|                 | 4300 mm   | 2902 mm                    | 150 mm         | 5086 mm                   | 6 / 8 °                       |
|                 | 4500 mm   | 3002 mm                    | 150 mm         | 5286 mm                   | 6 / 8 °                       |
| Duplex mast ZZ  | 3100 mm   | 2217 mm                    | 1451 mm        | 3866 mm                   | 6 / 8 °                       |
|                 | 3300 mm   | 2317 mm                    | 1551 mm        | 4066 mm                   | 6 / 8 °                       |
|                 | 3500 mm   | 2417 mm                    | 1651 mm        | 4266 mm                   | 6 / 8 °                       |
|                 | 3700 mm   | 2517 mm                    | 1751 mm        | 4466 mm                   | 6 / 8 °                       |
|                 | 4000 mm   | 2667 mm                    | 1901 mm        | 4766 mm                   | 6 / 8 °                       |
| Triplex mast DZ | 4400 mm   | 2117 mm                    | 1351 mm        | 5166 mm                   | 6 / 8 °                       |
|                 | 4700 mm   | 2217 mm                    | 1451 mm        | 5466 mm                   | 6 / 8 °                       |
|                 | 5000 mm   | 2317 mm                    | 1551 mm        | 5766 mm                   | 6 / 8 °                       |
|                 | 5500 mm   | 2517 mm                    | 1751 mm        | 6266 mm                   | 6 / 8 °                       |

|  |         |         |         |         |         |
|--|---------|---------|---------|---------|---------|
|  | 6000 mm | 2717 mm | 1951 mm | 6766 mm | 6 / 8 ° |
|  | 6500 mm | 2917 mm | 2151 mm | 7266 mm | 6 / 8 ° |
|  | 7000 mm | 3117 mm | 2351 mm | 7766 mm | 6 / 8 ° |
|  | 7500 mm | 3317 mm | 2551 mm | 8266 mm | 6 / 8 ° |

## VDI table

|                  |        |                                             |           |                    |             |                 |             |             |             |
|------------------|--------|---------------------------------------------|-----------|--------------------|-------------|-----------------|-------------|-------------|-------------|
| Characteristic   | 1.1    | Manufacturer (abbreviated description)      |           | Jungheinrich       |             |                 |             |             |             |
|                  | 1.2    | Manufacturer's type designation             |           | EFG 425k           | EFG 425     | EFG 430k        | EFG 430     | EFG S30     | EFG 435     |
|                  | 1.3    | Drive type                                  |           | electric           |             |                 |             |             |             |
|                  | 1.4    | Operation                                   |           | Seat               |             |                 |             |             |             |
|                  | 1.5    | Load capacity/load                          | Q kg      | 2500               |             | 3000            |             |             | 3500        |
|                  | 1.6    | Load centre distance                        | c mm      | 500                |             |                 |             | 600         | 500         |
|                  | 1.8    | Load distance, centre of drive axle to fork | x mm      | 442                |             | 447             |             |             |             |
|                  | 1.9    | Wheelbase                                   | y mm      | 1595               | 1740        | 1595            | 1745        |             |             |
| Weights          | 2.1.1  | Service weight (incl. battery)              | kg        | 4691               | 4642        | 5298            | 5143        | 5435        | 5664        |
|                  | 2.2    | Axle load laden front/rear                  | kg        | 6414 / 776         | 6466 / 676  | 7404 / 895      | 7395 / 748  | 7605 / 829  | 8239 / 926  |
|                  | 2.3    | Axle load unladen front/rear                | kg        | 2419 / 2272        | 2595 / 2047 | 2594 / 2704     | 2741 / 2402 | 2771 / 2664 | 2805 / 2859 |
| Wheels/chassis   | 3.1    | Tyres                                       |           | Super-elastic (SE) |             |                 |             |             |             |
|                  | 3.2    | Tyre size, front                            |           | 225/75-10          |             | 250/60-12       |             | 315/45-12   |             |
|                  | 3.3    | Tyre size, rear                             |           | 180/70-8           |             | 200/50-10       | 180/70-8    | 200/50-10   |             |
|                  | 3.5    | Wheels, number front/back (x=driven)        |           |                    |             | 2x / 2          |             |             |             |
|                  | 3.6    | Tread width, front                          | b10 mm    | 990                |             | 950             |             | 1000        |             |
|                  | 3.7    | Tread width, rear                           | b11 mm    | 940                |             |                 |             |             |             |
| Basic dimensions | 4.1    | Forward/backward tilt of mast               | a/β °     | 6 / 8              |             |                 |             |             |             |
|                  | 4.2    | Retracted mast height (h1)                  | h1 mm     | 2325               |             | 2322            |             |             | 2352        |
|                  | 4.3    | Free lift (h2)                              | h2 mm     | 150                |             |                 |             |             |             |
|                  | 4.4    | Lift (h3)                                   | h3 mm     | 3300               |             |                 |             |             |             |
|                  | 4.5    | Extended mast height (h4)                   | h4 mm     | 3900               |             | 4057            |             |             | 4086        |
|                  | 4.7    | Height of overhead guard (cab)              | h6 mm     | 2240               |             |                 |             |             |             |
|                  | 4.8    | Seat height/stand height                    | h7 mm     | 1226               |             |                 |             |             |             |
|                  | 4.12   | Coupling height                             | h10 mm    | 380                |             |                 |             |             |             |
|                  | 4.12.1 | 2. Coupling height                          | mm        | 530                |             |                 |             |             |             |
|                  | 4.19   | Total length                                | l1 mm     | 3484               | 3632        | 3489            | 3637        |             |             |
|                  | 4.20   | Length including fork shank                 | l2 mm     | 2334               | 2482        | 2339            | 2487        |             |             |
|                  | 4.21.1 | total width                                 | b1 mm     | 1200               |             |                 |             | 1300        |             |
|                  | 4.22   | Fork dimensions                             | s/ e/l mm | 40 x 100 x 1150    |             | 45 x 125 x 1150 |             |             |             |
|                  | 4.23   | Fork carriage connection class              |           | 2A                 |             | 3A              |             |             |             |
|                  | 4.24   | Fork carriage width                         | b3 mm     | 1120               |             |                 |             |             |             |
|                  | 4.31   | Ground clearance laden under mast           | m1 mm     | 110                |             |                 |             |             |             |
|                  | 4.32   | Ground clearance centre of wheelbase        | m2 mm     | 135                |             |                 |             |             |             |
|                  | 4.34.1 | Aisle width (pallet 1000x1200 sideways)     | Ast mm    | 3722               | 3872        | 3727            | 3877        |             |             |
|                  | 4.34.2 | Aisle width (pallet 800x1200 length)        | Ast mm    | 3922               | 4072        | 3927            | 4077        |             |             |
|                  | 4.35   | Turning radius                              | Wa mm     | 2080               | 2230        | 2080            | 2230        |             |             |
|                  | 4.36   | Smallest pivot point distance               | b13 mm    | 580                | 630         | 580             | 630         |             |             |

|                                                                                                                                                                                                   |                                                             |                                                                |           |                                   |                               |                             |            |                           |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------|-----------|-----------------------------------|-------------------------------|-----------------------------|------------|---------------------------|-------------|
| Performance data                                                                                                                                                                                  | 5.1                                                         | Travel speed laden/unladen (Efficiency   drivePLUS)            | km/h      | 17 / 17   20 / 20                 |                               |                             |            |                           |             |
|                                                                                                                                                                                                   | 5.2                                                         | Lift speed laden/unladen (Efficiency   liftPLUS)               | m/s       | 0.58 / 0.62   0.64 / 0.68         |                               | 0.5 / 0.52   0.57 / 0.63    |            | 0.44 / 0.51   0.5 / 0.53  |             |
|                                                                                                                                                                                                   | 5.3                                                         | Lowering speed laden/unladen (Efficiency   liftPLUS)           | m/s       | 0.59 / 0.62   0.59 / 0.62         |                               | 0.58 / 0.64   0.58 / 0.64   |            | 0.56 / 0.59   0.56 / 0.59 |             |
|                                                                                                                                                                                                   | 5.5                                                         | Drawbar pull laden/unladen (Efficiency   drivePLUS)            | N         | 8000 / 8000   10000 / 10000       |                               | 7000 / 7000   10000 / 10000 |            |                           |             |
|                                                                                                                                                                                                   | 5.6                                                         | Max. drawbar pull laden/unladen (Efficiency   drivePLUS)       | N         | 16000 / 16000   19500 / 18600     | 16000 / 16000   19500 / 19500 |                             |            |                           |             |
|                                                                                                                                                                                                   | 5.7                                                         | Gradeability laden/unladen (Efficiency   drivePLUS)            | %         | 12 / 18   19 / 30                 |                               | 10 / 15   16 / 25           |            | 10 / 15   14 / 23         |             |
|                                                                                                                                                                                                   | 5.8                                                         | Max. gradeability laden/unladen (Efficiency   drivePLUS)       | %         | 18 / 28   27 / 34                 | 18 / 28   27 / 38             | 18 / 28   22 / 33           |            | 17 / 28   20 / 33         |             |
|                                                                                                                                                                                                   | 5.9                                                         | Acceleration time laden/unladen (Efficiency   drivePLUS)       | s         | 6.1 / 5.7   5.3 / 5               |                               | 6.1 / 5.4   5.5 / 5         |            | 6.4 / 5.5   5.6 / 5.1     |             |
|                                                                                                                                                                                                   | 5.10                                                        | Service brake                                                  |           | Reibbremse (hydraulisch betätigt) |                               |                             |            |                           |             |
| Electric motor/electronics                                                                                                                                                                        | 6.1                                                         | Drive motor, performance S2 60 min (Efficiency   drivePLUS)    | kW        | 8.9   11.3                        |                               |                             |            |                           |             |
|                                                                                                                                                                                                   | 6.1.1                                                       | 2. Drive motor, performance S2 60 min (Efficiency   drivePLUS) | kW        | 8.9   11.3                        |                               |                             |            |                           |             |
|                                                                                                                                                                                                   | 6.2                                                         | Lift motor, performance with S3 (Efficiency   liftPLUS)        | kW        | 19.5   22                         |                               |                             |            |                           |             |
|                                                                                                                                                                                                   | 6.3                                                         | Battery according to DIN 43531/35/36                           |           | DIN 43536 A                       |                               |                             |            |                           |             |
|                                                                                                                                                                                                   | 6.4                                                         | Battery voltage/nominal capacity                               | V / Ah    | 80 / 620                          | 80 / 775                      | 80 / 620                    | 80 / 775   |                           |             |
|                                                                                                                                                                                                   | 6.5                                                         | Battery weight                                                 | kg        | 1558                              | 1863                          | 1558                        | 1863       |                           |             |
|                                                                                                                                                                                                   | 6.6.1                                                       | Energy consumption according to EN cycle (Efficiency   PLUS)   | kWh/h     | 6.2   6.2                         |                               | 7.2   7.2                   | 7.1   7.1  | 7.4   7.4                 | 8.1   8.3   |
|                                                                                                                                                                                                   | 6.6.2                                                       | CO2 equivalent as per EN 16796 (Efficiency   PLUS)             | kg/h      | 3.4   3.4                         |                               | 3.9   3.9                   | 3.8   3.8  | 4   4                     | 4.4   4.5   |
|                                                                                                                                                                                                   | 6.7                                                         | Throughput (Efficiency   PLUS)                                 | t/h       | 173   188                         |                               | 204   219                   |            | 201   219                 | 224   238   |
|                                                                                                                                                                                                   | 6.8                                                         | Turnover efficiency according to VDI 2198 (Efficiency   PLUS)  | t/kWh     | 22.2   20                         |                               | 22.9   21.3                 |            | 22.8   21.3               | 24.3   22.2 |
| 6.8.1                                                                                                                                                                                             | Energy consumption with max. throughput (Efficiency   PLUS) | kWh/h                                                          | 7.8   9.4 |                                   | 8.9   10.3                    |                             | 8.8   10.3 | 9.2   10.7                |             |
| Other                                                                                                                                                                                             | 8.1                                                         | Type of drive control                                          |           | Impulse/AC                        |                               |                             |            |                           |             |
|                                                                                                                                                                                                   | 10.1                                                        | Operating pressure for attachment                              | bar       | 240                               |                               |                             |            |                           |             |
|                                                                                                                                                                                                   | 10.2                                                        | Oil flow for attachments                                       | l/min     | 45                                |                               |                             |            |                           |             |
|                                                                                                                                                                                                   | 10.7                                                        | Sound pressure level according to EN12053                      | dB (A)    | 69                                |                               |                             |            |                           |             |
|                                                                                                                                                                                                   | 10.8                                                        | Trailer coupling, model/type DIN                               |           | DIN 15170 H                       |                               |                             |            |                           |             |
| - 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. |                                                             |                                                                |           |                                   |                               |                             |            |                           |             |

Please note:

The values specified for the standard truck were determined using Continental tyres. Different tyres on the standard truck may result in different values.

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**