



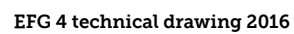
# **Electric four wheel counterbalance forklift truck**

## **EFG 425-S30**

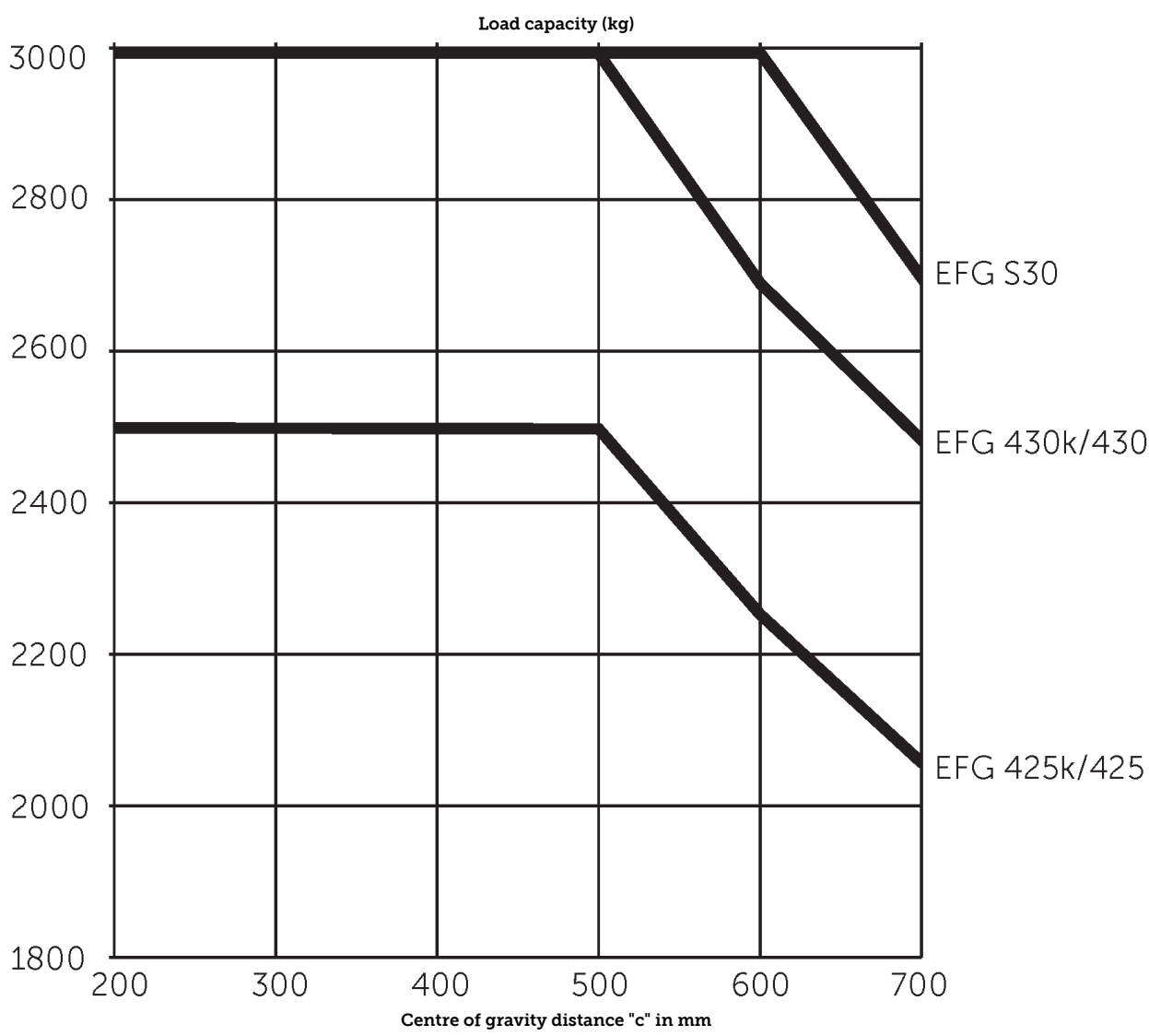
Lift height: 2900-7500 mm / Load capacity: 2500-3000 kg

Technical drawing of a forklift showing dimensions and labels. The drawing includes the following labels and dimensions:

- $h_4$ : Total height of the mast.
- $h_3$ : Height of the mast at the top.
- $h_1$ : Height of the mast at the base.
- $h_2$ : Height of the mast at the base.
- $h_6$ : Height of the operator's cab.
- $h_7$ : Height of the rear counterweight.
- $h_{10}$ : Height of the rear axle.
- $Q$ : Load capacity.
- $C$ : Distance from the load center to the mast.
- $s$ : Distance from the front axle to the mast.
- $m_1$ : Mass of the mast.
- $m_2$ : Mass of the rear counterweight.
- $x$ : Distance from the mast to the front axle.
- $y$ : Distance from the rear counterweight to the rear axle.
- $l$ : Distance from the front axle to the mast.
- $l_1$ : Total length of the forklift.
- $l_2$ : Distance from the rear axle to the rear counterweight.
- $80$ : Width of the front axle.



# EFG 425-S30



# EFG 425-S30

| 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         | 3655 mm                   | 6 / 8 °                       |
|                   | 3100 mm   | 2225 mm                    | 150 mm         | 3855 mm                   | 6 / 8 °                       |
|                   | 3300 mm   | 2325 mm                    | 150 mm         | 4055 mm                   | 6 / 8 °                       |
|                   | 3500 mm   | 2425 mm                    | 150 mm         | 4255 mm                   | 6 / 8 °                       |
|                   | 3700 mm   | 2525 mm                    | 150 mm         | 4455 mm                   | 6 / 8 °                       |
|                   | 4000 mm   | 2675 mm                    | 150 mm         | 4755 mm                   | 6 / 8 °                       |
|                   | 4300 mm   | 2875 mm                    | 150 mm         | 5055 mm                   | 6 / 8 °                       |
|                   | 4500 mm   | 2975 mm                    | 150 mm         | 5255 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 / 5.5 °                     |
|                   | 5000 mm   | 2290 mm                    | 1700 mm        | 5590 mm                   | 6 / 5.5 °                     |
|                   | 5500 mm   | 2490 mm                    | 1900 mm        | 6090 mm                   | 6 / 5.5 °                     |
|                   | 6000 mm   | 2690 mm                    | 2100 mm        | 6590 mm                   | 6 / 5.5 °                     |
|                   | 6500 mm   | 2890 mm                    | 2300 mm        | 7090 mm                   | 6 / 3 °                       |
|                   | 7000 mm   | 3090 mm                    | 2500 mm        | 7590 mm                   | 6 / 3 °                       |
|                   | 7500 mm   | 3290 mm                    | 2700 mm        | 8090 mm                   | 6 / 3 °                       |
| EFG 430k, EFG 430 | 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                    | 1550 mm        | 4037 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 / 5.5 °                     |
|                   | 5000 mm   | 2287 mm                    | 1550 mm        | 5737 mm                   | 6 / 5.5 °                     |
|                   | 5500 mm   | 2487 mm                    | 1750 mm        | 6237 mm                   | 6 / 5.5 °                     |
|                   | 6000 mm   | 2687 mm                    | 1950 mm        | 6737 mm                   | 6 / 5.5 °                     |
|                   | 6500 mm   | 2887 mm                    | 2150 mm        | 7237 mm                   | 6 / 3 °                       |
|                   | 7000 mm   | 3087 mm                    | 2350 mm        | 7737 mm                   | 6 / 3 °                       |
|                   | 7500 mm   | 3287 mm                    | 2550 mm        | 8237 mm                   | 6 / 3 °                       |
| EFG S30           | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast |

|                 |                |                |                |                |                |
|-----------------|----------------|----------------|----------------|----------------|----------------|
| Duplex mast ZT  | <b>2900 mm</b> | <b>2122 mm</b> | <b>150 mm</b>  | <b>3657 mm</b> | <b>6 / 8 °</b> |
|                 | 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  | <b>3100 mm</b> | <b>2187 mm</b> | <b>1450 mm</b> | <b>3837 mm</b> | <b>6 / 8 °</b> |
|                 | 3300 mm        | 2287 mm        | 1550 mm        | 4037 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 | <b>4400 mm</b> | <b>2087 mm</b> | <b>1350 mm</b> | <b>5137 mm</b> | <b>6 / 8 °</b> |
|                 | 4700 mm        | 2187 mm        | 1450 mm        | 5437 mm        | 6 / 5.5 °      |
|                 | 5000 mm        | 2287 mm        | 1550 mm        | 5737 mm        | 6 / 5.5 °      |
|                 | 5500 mm        | 2487 mm        | 1750 mm        | 6237 mm        | 6 / 5.5 °      |
|                 | 6000 mm        | 2687 mm        | 1950 mm        | 6737 mm        | 6 / 5.5 °      |
|                 | 6500 mm        | 2887 mm        | 2150 mm        | 7237 mm        | 6 / 3 °        |
|                 | 7000 mm        | 3087 mm        | 2350 mm        | 7737 mm        | 6 / 3 °        |
|                 | 7500 mm        | 3287 mm        | 2550 mm        | 8237 mm        | 6 / 3 °        |

# VDI table

Stand-on: 08/2023

|                          |        |                                                      |                    |                           |             |                           |                           |                           |
|--------------------------|--------|------------------------------------------------------|--------------------|---------------------------|-------------|---------------------------|---------------------------|---------------------------|
| Characteristic           | 1.1    | Manufacturer (abbreviated description)               |                    | Jungheinrich              |             |                           |                           |                           |
|                          | 1.2    | Manufacturer's type designation                      |                    | EFG 425k                  | EFG 425     | EFG 430k                  | EFG 430                   | EFG S30                   |
|                          | 1.3    | Drive                                                |                    | Electric                  |             |                           |                           |                           |
|                          | 1.4    | Operation                                            |                    | Seat                      |             |                           |                           |                           |
|                          | 1.5    | Load capacity/load                                   | Q    kg            | 2500                      |             | 3000                      |                           |                           |
|                          | 1.6    | Load centre distance                                 | c    mm            | 500                       |             |                           |                           | 600                       |
|                          | 1.8    | Load distance, centre of drive axle to fork          | x    mm            | 425                       |             | 447                       |                           |                           |
|                          | 1.9    | Wheelbase                                            | y    mm            | 1575                      | 1720        | 1575                      | 1720                      |                           |
| Weights                  | 2.1.1  | Service weight (incl. battery)                       | kg                 | 4555                      | 4653        | 5212                      | 5055                      | 5349                      |
|                          | 2.2    | Axle load laden front/rear                           | kg                 | 6230 / 825                | 6580 / 573  | 7272 / 940                | 7347 / 708                | 7519 / 830                |
|                          | 2.3    | Axle load unladen front/rear                         | kg                 | 2271 / 2283               | 2688 / 1965 | 2464 / 2748               | 2672 / 2383               | 2692 / 2657               |
| Wheels/suspension system | 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                                   | b <sub>10</sub> mm | 990                       |             | 950                       |                           | 1000                      |
|                          | 3.7    | Tread width, rear                                    | b <sub>11</sub> mm | 940                       |             |                           |                           |                           |
| Basic dimensions         | 4.1    | Forward/backward tilt of mast                        | a/β   °            | 6 / 8                     |             |                           |                           |                           |
|                          | 4.2    | Retracted mast height (h1)                           | h <sub>1</sub> mm  | 2225                      |             | 2222                      |                           |                           |
|                          | 4.3    | Free lift (h2)                                       | h <sub>2</sub> mm  | 150                       |             |                           |                           |                           |
|                          | 4.4    | Lift (h3)                                            | h <sub>3</sub> mm  | 3100                      |             |                           |                           |                           |
|                          | 4.5    | Extended mast height (h4)                            | h <sub>4</sub> mm  | 3855                      |             | 3857                      |                           |                           |
|                          | 4.7    | Height of overhead guard (cab)                       | h <sub>6</sub> mm  | 2240                      |             |                           |                           |                           |
|                          | 4.8    | Seat height/stand height                             | h <sub>7</sub> mm  | 1190                      |             |                           |                           |                           |
|                          | 4.12   | Coupling height                                      | h <sub>10</sub> mm | 385                       |             |                           |                           |                           |
|                          | 4.12.1 | 2. Coupling height                                   | mm                 | 540                       |             |                           |                           |                           |
|                          | 4.19   | Overall length                                       | l <sub>1</sub> mm  | 3446                      | 3591        | 3467                      | 3612                      |                           |
|                          | 4.20   | Length including fork shank                          | l <sub>2</sub> mm  | 2296                      | 2441        | 2317                      | 2462                      |                           |
|                          | 4.21.1 | Overall width                                        | b <sub>1</sub> mm  | 1198                      |             |                           |                           | 1300                      |
|                          | 4.22   | Fork dimensions                                      | s/<br>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                                  | b <sub>3</sub> mm  | 1120                      |             |                           |                           |                           |
|                          | 4.31   | Ground clearance laden under mast                    | m <sub>1</sub> mm  | 117                       |             |                           |                           |                           |
|                          | 4.32   | Ground clearance centre of wheelbase                 | m <sub>2</sub> mm  | 135                       |             |                           |                           |                           |
|                          | 4.34.1 | Aisle width (pallet 1000x1200 sideways)              | Ast   mm           | 3625                      | 3775        | 3647                      | 3797                      |                           |
|                          | 4.34.2 | Aisle width (pallet 800x1200 length)                 | Ast   mm           | 3825                      | 3975        | 3847                      | 3997                      |                           |
|                          | 4.35   | Turning radius                                       | W <sub>a</sub> mm  | 2000                      | 2150        | 2000                      | 2150                      |                           |
|                          | 4.36   | Smallest pivot point distance                        | b <sub>13</sub> mm | 600                       |             |                           |                           | 650                       |
| Performance data         | 5.1    | Travel speed laden/unladen (Efficiency   drivePLUS)  | km/h               | 16 / 17   19 / 21         |             | 15 / 17   18 / 21         | 15 / 17   19 / 21         | 15 / 17   18 / 20         |
|                          | 5.2    | Lift speed laden/unladen (Efficiency   liftPLUS)     | m/s                | 0.48 / 0.63   0.5 / 0.7   |             | 0.43 / 0.54   0.44 / 0.59 | 0.44 / 0.54   0.44 / 0.59 | 0.43 / 0.54   0.43 / 0.59 |
|                          | 5.3    | Lowering speed laden/unladen (Efficiency   liftPLUS) | m/s                | 0.58 / 0.58   0.58 / 0.58 |             |                           |                           |                           |

|                                                                                                                                                                                                   |       |                                                              |        |                           |                           |                               |                           |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------|--------|---------------------------|---------------------------|-------------------------------|---------------------------|-------------------------|
|                                                                                                                                                                                                   | 5.5   | Drawbar pull laden/unladen (Efficiency   drivePLUS)          | N      | 3600 / 4000   5100 / 5600 | 3500 / 3900   4900 / 5500 | 4500 / 5000   5000 / 5800     |                           |                         |
|                                                                                                                                                                                                   | 5.6   | Max. drawbar pull laden/unladen (Efficiency   drivePLUS)     | N      | 13150 / 13150             | 15200 / 15200             | 13600 / 13600   15750 / 15750 |                           |                         |
|                                                                                                                                                                                                   | 5.7   | Gradeability laden/unladen (Efficiency   drivePLUS)          | %      | 8.5 / 14   10 / 16        | 7.5 / 13   10 / 16        | 7 / 12   9 / 15               | 7 / 13   9 / 15           | 7 / 12   8 / 14         |
|                                                                                                                                                                                                   | 5.8   | Max. gradeability laden/unladen (Efficiency   drivePLUS)     | %      | 17 / 27   18.9 / 30.9     | 16.9 / 26.8   18.8 / 30.8 | 16.1 / 25.6   18.5 / 30       | 16.2 / 25.9   18.6 / 30.2 | 16 / 25.3   18.5 / 29.8 |
|                                                                                                                                                                                                   | 5.9   | Acceleration time laden/unladen (Efficiency   drivePLUS)     | s      | 6.5 / 6   6.2 / 5.7       |                           | 6.7 / 6.1   6.4 / 5.8         |                           | 6.8 / 6.2   6.4 / 5.8   |
|                                                                                                                                                                                                   | 5.10  | Service brake                                                |        | Mechanical                |                           |                               |                           |                         |
| E-motor/Electronics                                                                                                                                                                               | 6.1   | Drive motor, performance S2 60 min (Efficiency   drivePLUS)  | kW     | 12   15                   |                           |                               |                           |                         |
|                                                                                                                                                                                                   | 6.2   | Lift motor, performance with S3 (Efficiency   liftPLUS)      | kW     | 18.5   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     | 1540                      | 1863                      | 1540                          | 1863                      |                         |
|                                                                                                                                                                                                   | 6.6   | Energy consumption according to VDI cycle                    | kWh/h  | 0                         |                           |                               |                           |                         |
|                                                                                                                                                                                                   | 6.6.1 | Energy consumption according to EN cycle (Efficiency   PLUS) | kWh/h  | 6.4   6.3                 | 6.3   6.2                 | 7.1   7                       | 6.9   6.9                 | 7.2   7.1               |
|                                                                                                                                                                                                   | 6.6.2 | CO2 equivalent as per EN 16796 (Efficiency   PLUS)           | kg/h   | 3.5   3.4                 | 3.4   3.4                 | 3.8   3.8                     | 3.7   3.7                 | 3.9   3.8               |
|                                                                                                                                                                                                   | 6.7   | Throughput (Efficiency   PLUS)                               | t/h    | 174   188                 | 175   189                 | 204   212                     | 205   213                 | 198   213               |
|                                                                                                                                                                                                   | 6.8.1 | Energy consumption with max. throughput (Efficiency   PLUS)  | kWh/h  | 7.9   9                   | 7.8   8.9                 | 8.1   9.2                     | 8.1   9.1                 | 8.4   9.4               |
| Other                                                                                                                                                                                             | 8.1   | Type of drive control                                        |        | Impulse/AC                |                           |                               |                           |                         |
|                                                                                                                                                                                                   | 10.1  | Operating pressure for attachment                            | bar    | 200                       |                           |                               |                           |                         |
|                                                                                                                                                                                                   | 10.2  | Oil flow for attachments                                     | l/min  | 30                        |                           |                               |                           |                         |
|                                                                                                                                                                                                   | 10.7  | Sound level as per EN12053, operator's ear                   | dB (A) | 70                        |                           |                               |                           |                         |
|                                                                                                                                                                                                   | 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. |       |                                                              |        |                           |                           |                               |                           |                         |

Efficiency: Values of standard package | PLUS: Values of performance package

- VDI no. 1.8: with EFG 425 + 10 mm for DZ mast

- VDI no. 6.6.1: 60 EN cycles/h

- VDI no. 6.7: PLUS refers to the drive&liftPLUS performance package

- VDI no. 6.8.1: PLUS refers to the drive&liftPLUS performance package

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