

CESAB M300 1.5 - 3.5 tonne

Engine Powered Forklift



Truck Specifications



CESAB

CESAB M315 - M318 Truck Specifications

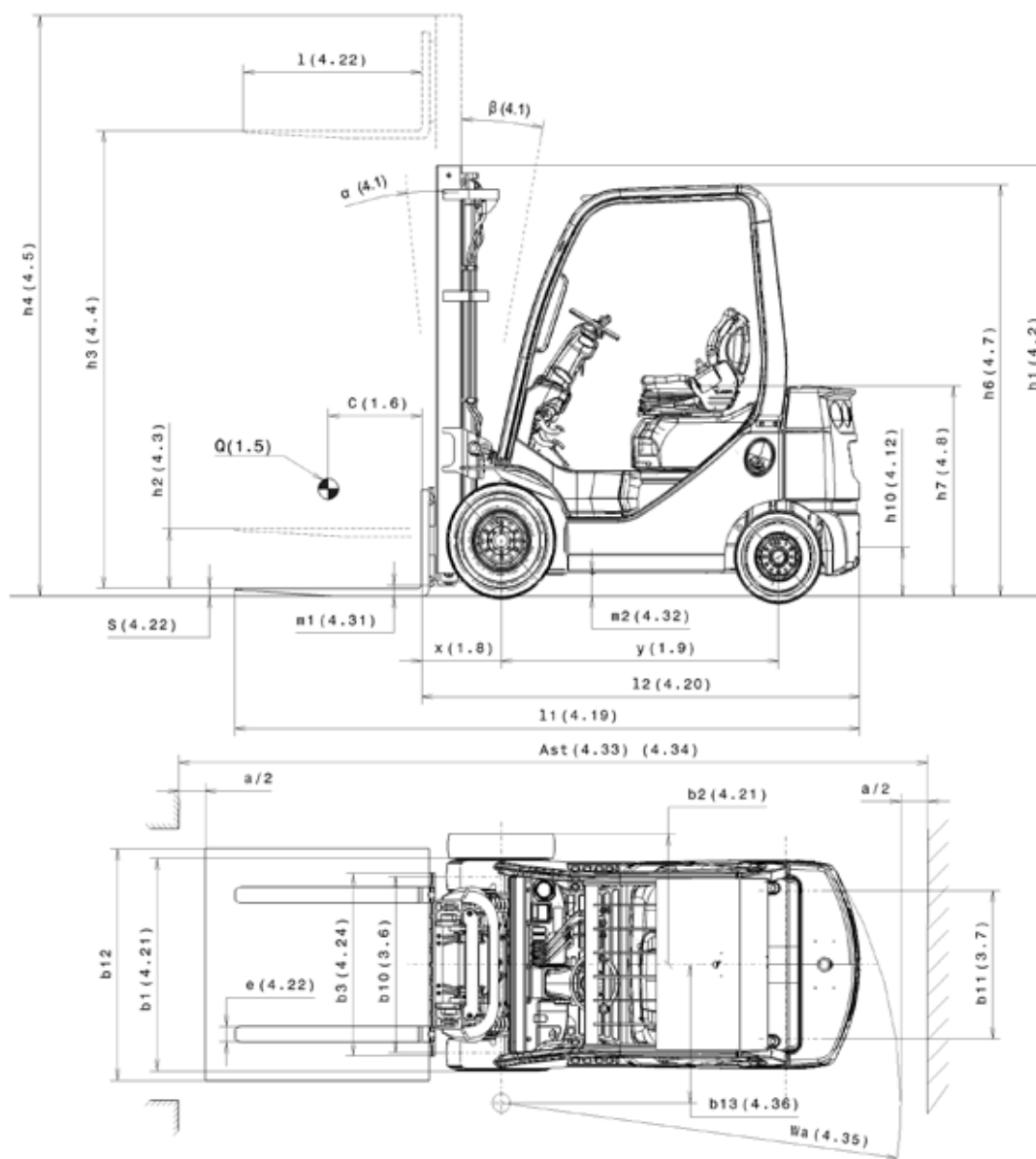
| CHARACTERISTICS | | | | | |
|------------------|---|------------------|---------------|----------------------------|----------------------------|
| 1.1 | Manufacturer | | CESAB | | CESAB |
| 1.2 | Model designation | | M315 | | M318 |
| 1.3 | Power unit | | LPG - diesel | | LPG - diesel |
| 1.4 | Operation | | driver seated | | driver seated |
| 1.5 | Load capacity | Q | [t] | 1,5 | 1,75 |
| 1.6 | Load centre distance | c | [mm] | 500 | 500 |
| 1.8 | Axle centre to fork face | x | [mm] | 421,5 | 421,5 |
| 1.9 | Wheelbase | y | [mm] | 1485 | 1485 |
| WEIGHT | | | | | |
| 2.1 | Service weight | | [kg] | 2890-2930 | 2950-2990 |
| 2.2 | Axle loading, with load front/rear | | [kg] | 3750/640 - 3770/660 | 4210/540 - 4230/560 |
| 2.3 | Axle loading, without load front/rear | | [kg] | 1320/1570 - 1340/1590 | 1310/1640 - 1330/1660 |
| WHEELS AND TYRES | | | | | |
| 3.1 | Tyres : C=Cushion, PN=Pneumatic, SE=Superelastic, G=Twin tyre | | | SE-PN / SEG-PNG | SE-PN / SEG-PNG |
| 3.2 | Tyre size front | | | 6.50-10 / 6.00-9 | 6.50-10 / 6.00-9 |
| 3.3 | Tyre size rear | | | 5.00-8 | 5.00-8 |
| 3.5 | Wheels: number front/rear (x = driven wheels) | | | 2x-4x/ 2 | 2x-4x/ 2 |
| 3.6 | Track width front | b ₁₀ | [mm] | 885 / 1085 | 885 / 1085 |
| 3.7 | Track width rear | b ₁₁ | [mm] | 895 | 895 |
| DIMENSIONS | | | | | |
| 4.1 | Mast/fork carriage tilt forward/backward | α / β | [°] | 6° / 11° | 6° / 11° |
| 4.2 | Height of mast, lowered | h ₁ | [mm] | 2165 | 2165 |
| 4.3 | Free lift | h ₂ | [mm] | 80 | 80 |
| 4.4 | Lift | h ₃ | [mm] | 3170 | 3170 |
| 4.5 | Height, mast extended | h ₄ | [mm] | 3725 | 3725 |
| 4.7 | Height of overhead guard | h ₆ | [mm] | 2080 | 2080 |
| 4.8 | Seat height | h ₇ | [mm] | 1030 | 1030 |
| 4.12 | Towing coupling height | h ₁₀ | [mm] | 285 | 285 |
| 4.19 | Overall length | l ₁ | [mm] | 3342 | 3342 |
| 4.20 | Length to face of forks | l ₂ | [mm] | 2342 | 2342 |
| 4.21 | Overall width | b ₁ | [mm] | 1070 / 1430 | 1070 / 1430 |
| 4.22 | Fork dimensions | s/e/l | [mm] | 35x100x1000 | 35x120x1000 |
| 4.23 | Fork carriage DIN 1573, class/type A,B | | | II A | II A |
| 4.24 | Fork carriage width | b ₃ | [mm] | 920 | 920 |
| 4.31 | Ground clearance, with load below mast | m ₁ | [mm] | 115 | 115 |
| 4.32 | Ground clearance, centre of wheelbase | m ₂ | [mm] | 130 | 130 |
| 4.33 | Aisle width for pallets 1000x1200 wide | Ast | [mm] | 3695 | 3695 |
| 4.34 | Aisle width for pallets 800x1200 long | Ast | [mm] | 3895 | 3895 |
| 4.35 | Turning radius | Wa | [mm] | 2074 | 2074 |
| 4.36 | Internal turning radius | b ₁₃ | [mm] | 575 | 575 |
| PERFORMANCE | | | | | |
| 5.1 | Travel speed with/without load | | [km/h] | 18,5/19 - 18/18,5 | 18,5/19 - 18/18,5 |
| 5.2 | Lift speed with/without load | | [m/s] | 0,67/0,68 - 0,65/0,68 | 0,67/0,68 - 0,65/0,68 |
| 5.3 | Lowering speed with/without load | | [m/s] | < 0,55 | < 0,55 |
| 5.5 | Max drawbar pull with/without load | | [N] | 17500/6300 - 16600/7000 | 17500/6300 - 16600/6300 |
| 5.7 | Max gradeability with/without load | | [%] | 45/22 - 45/22 | 44/20 - 41/20 |
| 5.9 | Acceleration time with/without load | | [s] | - | - |
| 5.10 | Service brake | | | hydraulic | hydraulic |
| IC ENGINE | | | | | |
| 7.1 | Engine manufacturer/type | | | Toyota 4Y / Toyota 1DZ-III | Toyota 4Y / Toyota 1DZ-III |
| 7.2 | Engine power (ISO 1585) | | [kW] | 38 - 36 | 38 - 36 |
| 7.3 | Rated speed | | [min-1] | 2570 - 2400 | 2570 - 2400 |
| 7.4 | N° of cylinders/displacement | | [cm3] | 4/2237 - 4/2486 | 4/2237 - 4/2486 |
| 7.5 | Fuel consumption (VDI cycle) | | [l/h-kg/h] | - | - |
| OTHERS | | | | | |
| 8.1 | Type of drive control | | | hydrodynamic | hydrodynamic |
| 8.2 | Operating pressure for attachments | | [bar] | 118 - 118 | 118 - 118 |
| 8.3 | Oil quantity for attachments | | [l/min] | 65 - 64 | 65 - 64 |
| 8.4 | Sound level at the driver's ear (EN 12053) | | [dB (A)] | 77 - 79 | 77 - 79 |
| 8.5 | Towing coupling, type DIN | | | - | - |

a) with integral sideshift: +35 mm

Note: unless otherwise specified, all data refer to vehicles with SE tyres. All performance figures refer to fully run-in vehicles, in perfect working status with homologated tyres mix. Truck performance and dimensions are nominal and subject to tolerances.



CESAB M315 - M318 Dimensional Drawings



The data in this specification sheet was determined based on our standard testing conditions. Operating performance may vary depending on the actual specification and condition of the truck as well as the condition of the operating area. Availability and specifications are determined regionally and are subject to change without notice. Please consult your authorised CESAB dealership for further details.

Mast Specifications

| Duplex NFL (1,5-1,8t) | | | | |
|-----------------------|--------------------------|----------|------|------|
| h_3 | Lift height | 2970 | 3170 | 4170 |
| h_1 | Height of mast, lowered | 2065 | 2165 | 2715 |
| h_2 | Free lift | 80 | 80 | 80 |
| h_4 | Height of mast, extended | 3520 | 3720 | 4755 |
| α/β | Mast tilt forw./backw. | 6° / 11° | | |

| Duplex FFL (1,5-1,8t) | | | | |
|-----------------------|--------------------------|----------|------|------|
| h_3 | Lift height | 2970 | 3170 | 4170 |
| h_1 | Height of mast, lowered | 2065 | 2165 | 2715 |
| h_2 | Free lift | 1470 | 1570 | 2120 |
| h_4 | Height of mast, extended | 3565 | 3765 | 4765 |
| α/β | Mast tilt forw./backw. | 6° / 11° | | |

| Triplex FFL (1,5-1,8t) | | | | |
|------------------------|--------------------------|---------|------|------|
| h_3 | Lift height | 4470 | 4670 | 4970 |
| h_1 | Height of mast, lowered | 2065 | 2165 | 2265 |
| h_2 | Free lift | 1470 | 1570 | 1670 |
| h_4 | Height of mast, extended | 5065 | 5265 | 5565 |
| α/β | Mast tilt forw./backw. | 6° / 6° | | |

CESAB M320 - M325 Truck Specifications

| CHARACTERISTICS | | | | | | |
|------------------|---|-----------------|------------|----------------------------|--|----------------------------|
| 1.1 | Manufacturer | | | CESAB | | CESAB |
| 1.2 | Model designation | | | M320 | | M325 |
| 1.3 | Power unit | | | LPG - diesel | | LPG - diesel |
| 1.4 | Operation | | | driver seated | | driver seated |
| 1.5 | Load capacity | Q | [t] | 2,0 | | 2,5 |
| 1.6 | Load centre distance | c | [mm] | 500 | | 500 |
| 1.8 | Axle centre to fork face | x | [mm] | 448,5 (a) | | 487,5 (b) |
| 1.9 | Wheelbase | y | [mm] | 1650 | | 1650 |
| WEIGHT | | | | | | |
| 2.1 | Service weight | | [kg] | 3250 - 3290 | | 3915 - 3955 |
| 2.2 | Axle loading, with load front/rear | | [kg] | 4580/670 - 4600/690 | | 5635/780 - 5655/800 |
| 2.3 | Axle loading, without load front/rear | | [kg] | 1410/1840 - 1430/1860 | | 1640/2275 - 1660/2295 |
| WHEELS AND TYRES | | | | | | |
| 3.1 | Tyres : C=Cushion, PN=Pneumatic, SE=Superelastic, G=Twin tyre | | | SE-PN / SEG-PNG | | SE-PN / SEG-PNG |
| 3.2 | Tyre size front | | | 7.00-12 / 7.00-12 | | 7.00-12 / 7.00-12 |
| 3.3 | Tyre size rear | | | 6.00-9 | | 6.00-9 |
| 3.5 | Wheels: number front/rear (x = driven wheels) | | | 2x-4x/ 2 | | 2x-4x/ 2 |
| 3.6 | Track width front | b ₁₀ | [mm] | 960 / 1190 | | 960 / 1190 |
| 3.7 | Track width rear | b ₁₁ | [mm] | 965 | | 965 |
| DIMENSIONS | | | | | | |
| 4.1 | Mast/fork carriage tilt forward/backward | α / β | [°] | 6° / 11° | | 6° / 11° |
| 4.2 | Height of mast, lowered | h ₁ | [mm] | 2165 | | 2215 |
| 4.3 | Free lift | h ₂ | [mm] | 80 | | 80 |
| 4.4 | Lift | h ₃ | [mm] | 3170 | | 3170 |
| 4.5 | Height, mast extended | h ₄ | [mm] | 3725 | | 3800 |
| 4.7 | Height of overhead guard | h ₆ | [mm] | 2110 | | 2110 |
| 4.8 | Seat height | h ₇ | [mm] | 1060 | | 1060 |
| 4.12 | Towing coupling height | h ₁₀ | [mm] | 315 | | 315 |
| 4.19 | Overall length | l ₁ | [mm] | 3542 (a) | | 3649 (b) |
| 4.20 | Lenght to face of forks | l ₂ | [mm] | 2542 (a) | | 2649 (b) |
| 4.21 | Overall width | b ₁ | [mm] | 1150 / 1610 | | 1150 / 1610 |
| 4.22 | Fork dimensions | s/e/l | [mm] | 35x120x1000 | | 40x120x1000 |
| 4.23 | Fork carriage DIN 1573, class/type A,B | | | II A | | II A |
| 4.24 | Fork carriage width | b ₃ | [mm] | 1020 | | 1020 |
| 4.31 | Ground clearance, with load below mast | m ₁ | [mm] | 115 | | 115 |
| 4.32 | Ground clearance, centre of wheelbase | m ₂ | [mm] | 160 | | 160 |
| 4.33 | Aisle width for pallets 1000x1200 wide | Ast | [mm] | 3942 (a) | | 4039 (b) |
| 4.34 | Aisle width for pallets 800x1200 long | Ast | [mm] | 4142 (a) | | 4239 (b) |
| 4.35 | Turning radius | Wa | [mm] | 2294 | | 2352 |
| 4.36 | Internal turning radius | b ₁₃ | [mm] | 745 | | 745 |
| PERFORMANCE | | | | | | |
| 5.1 | Travel speed with/without load | | [km/h] | 17,5/18 - 17/17,5 | | 17,5/18 - 17/17,5 |
| 5.2 | Lift speed with/without load | | [m/s] | 0,60/0,64 - 0,56/0,60 | | 0,60/0,64 - 0,56/0,60 |
| 5.3 | Lowering speed with/without load | | [m/s] | < 0,55 | | < 0,55 |
| 5.5 | Max drawbar pull with/without load | | [N] | 18500/9000 - 17400/9100 | | 18500/8500 - 17400/8500 |
| 5.7 | Max gradeability with/without load | | [%] | 39/22 - 36/22 | | 33/19 - 31/19 |
| 5.9 | Acceleration time with/without load | | [s] | - | | - |
| 5.10 | Service brake | | | hydraulic | | hydraulic |
| IC ENGINE | | | | | | |
| 7.1 | Engine manufacturer/type | | | Toyota 4Y / Toyota 1DZ-III | | Toyota 4Y / Toyota 1DZ-III |
| 7.2 | Engine power (ISO 1585) | | [kW] | 38 - 36 | | 38 - 36 |
| 7.3 | Rated speed | | [min-1] | 2570 - 2400 | | 2570 - 2400 |
| 7.4 | N° of cylinders/displacement | | [cm3] | 4/2237 - 4/2486 | | 4/2237 - 4/2486 |
| 7.5 | Fuel consumption (VDI cycle) | | [l/h-kg/h] | - | | - |
| OTHERS | | | | | | |
| 8.1 | Type of drive control | | | hydrodynamic | | hydrodynamic |
| 8.2 | Operating pressure for attachments | | [bar] | 147 - 147 | | 147 - 147 |
| 8.3 | Oil quantity for attachments | | [l/min] | 65/71 - 65/77 | | 65/71 - 65/77 |
| 8.4 | Sound level at the driver's ear (EN 12053) | | [dB (A)] | 77 - 79 | | 77 - 79 |
| 8.5 | Towing coupling, type DIN | | | - | | - |

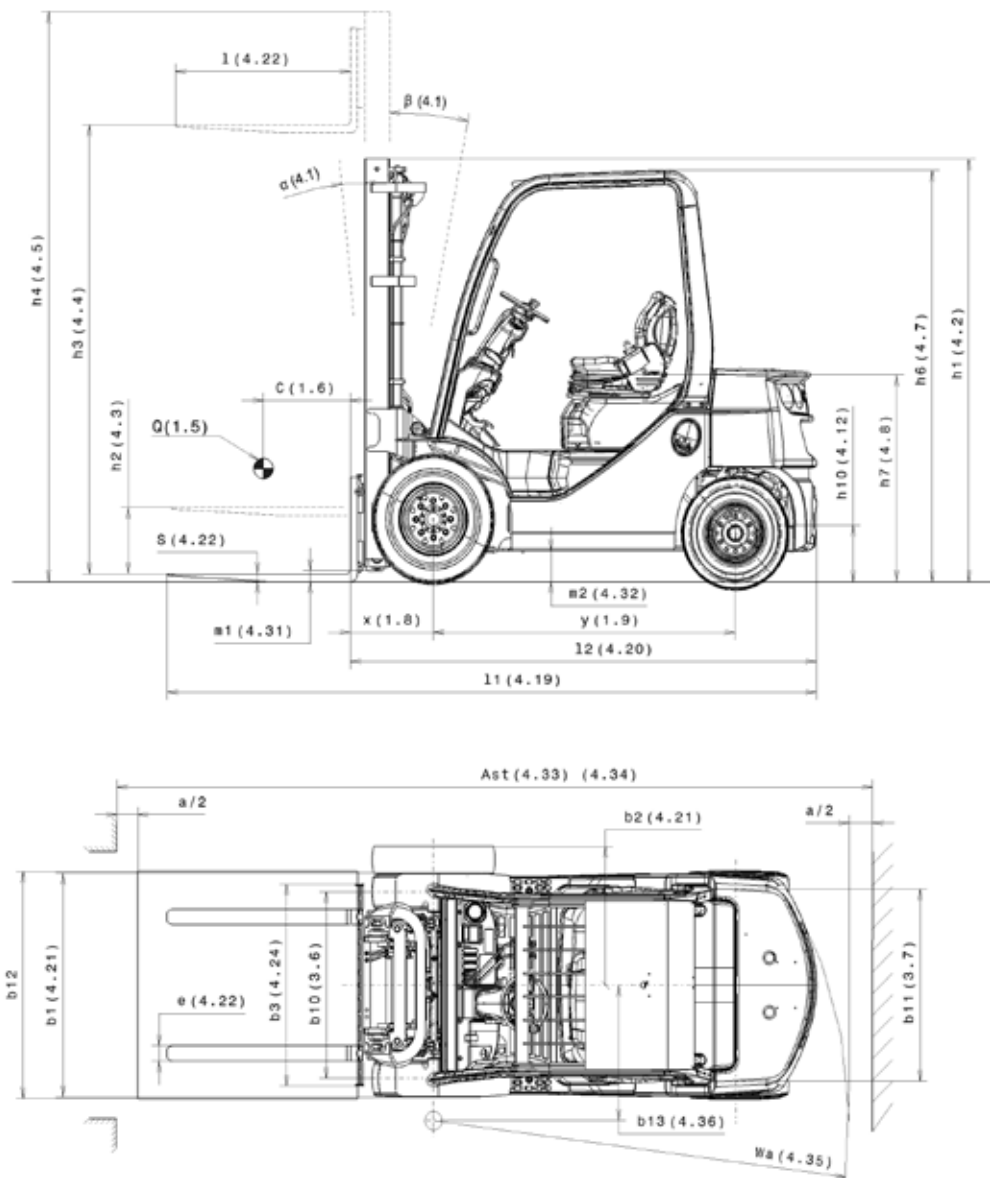
a) with integral sideshift: +35 mm

b) with integral sideshift: +32 mm

Note: unless otherwise specified, all data refer to vehicles with SE tyres. All performance figures refer to fully run-in vehicles, in perfect working status with homologated tyres mix. Truck performance and dimensions are nominal and subject to tolerances.



CESAB M320 - M325 Dimensional Drawings



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Mast Specifications

| Duplex NFL (2.0t) | | | | |
|-------------------|--------------------------|----------|------|------|
| h ₃ | Lift height | 2970 | 3170 | 4170 |
| h ₁ | Height of mast, lowered | 2065 | 2165 | 2715 |
| h ₂ | Free lift | 80 | 80 | 80 |
| h ₄ | Height of mast, extended | 3520 | 3720 | 4770 |
| α/β | Mast tilt forw./backw. | 6° / 11° | | |

| Duplex FFL (2.0t) | | | | |
|-------------------|--------------------------|----------|------|------|
| h ₃ | Lift height | 2970 | 3170 | 4170 |
| h ₁ | Height of mast, lowered | 2065 | 2165 | 2715 |
| h ₂ | Free lift | 1470 | 1570 | 2120 |
| h ₄ | Height of mast, extended | 3565 | 3765 | 4765 |
| α/β | Mast tilt forw./backw. | 6° / 11° | | |

| Triplex FFL (2.0t) | | | | |
|--------------------|--------------------------|---------|------|------|
| h ₃ | Lift height | 4460 | 4670 | 4970 |
| h ₁ | Height of mast, lowered | 2065 | 2165 | 2265 |
| h ₂ | Free lift | 1470 | 1570 | 1670 |
| h ₄ | Height of mast, extended | 5055 | 5265 | 5565 |
| α/β | Mast tilt forw./backw. | 6° / 6° | | |

| Duplex NFL (2.5t) | | | | |
|-------------------|--------------------------|----------|------|------|
| h ₃ | Lift height | 2970 | 3170 | 4170 |
| h ₁ | Height of mast, lowered | 2115 | 2215 | 2765 |
| h ₂ | Free lift | 80 | 80 | 80 |
| h ₄ | Height of mast, extended | 3600 | 3800 | 4820 |
| α/β | Mast tilt forw./backw. | 6° / 11° | | |

| Duplex FFL (2.5t) | | | | |
|-------------------|--------------------------|----------|------|------|
| h ₃ | Lift height | 2970 | 3170 | 4170 |
| h ₁ | Height of mast, lowered | 2115 | 2215 | 2765 |
| h ₂ | Free lift | 1450 | 1550 | 2100 |
| h ₄ | Height of mast, extended | 3635 | 3835 | 4835 |
| α/β | Mast tilt forw./backw. | 6° / 11° | | |

| Triplex FFL (2.5t) | | | | |
|--------------------|--------------------------|---------|------|------|
| h ₃ | Lift height | 4320 | 4560 | 4970 |
| h ₁ | Height of mast, lowered | 2095 | 2175 | 2315 |
| h ₂ | Free lift | 1430 | 1510 | 1650 |
| h ₄ | Height of mast, extended | 4985 | 5225 | 5635 |
| α/β | Mast tilt forw./backw. | 6° / 6° | | |

CESAB M330 - M335 Truck Specifications

| CHARACTERISTICS | | | | | |
|------------------|---|------------------|---------------|----------------------------|----------------------------|
| 1.1 | Manufacturer | | CESAB | | CESAB |
| 1.2 | Model designation | | M330 | | M335 |
| 1.3 | Power unit | | LPG - diesel | | LPG - diesel |
| 1.4 | Operation | | driver seated | | driver seated |
| 1.5 | Load capacity | Q | [t] | 3,0 | 3,5 |
| 1.6 | Load centre distance | c | [mm] | 500 | 500 |
| 1.8 | Axle centre to fork face | x | [mm] | 516,5 | 521,5 |
| 1.9 | Wheelbase | y | [mm] | 1700 | 1700 |
| WEIGHT | | | | | |
| 2.1 | Service weight | | [kg] | 4450 - 4490 | 4890 - 4930 |
| 2.2 | Axle loading, with load front/rear | | [kg] | 6500/950 - 6520/970 | 7370/1020 - 7400/1030 |
| 2.3 | Axle loading, without load front/rear | | [kg] | 1700/2750 - 1720/2770 | 1700/2750 - 1800/3130 |
| WHEELS AND TYRES | | | | | |
| 3.1 | Tyres : C=Cushion, PN=Pneumatic, SE=Superelastic, G=Twin tyre | | | SE-PN/PNG | SE-PN/PNG |
| 3.2 | Tyre size front | | | 28x9-15 / 28x8-15 | 250x15 / 28x8-15 |
| 3.3 | Tyre size rear | | | 6.50-10 | 6.50-10 |
| 3.5 | Wheels: number front/rear (x = driven wheels) | | | 2x-4x/ 2 | 2x-4x/ 2 |
| 3.6 | Track width front | b ₁₀ | [mm] | 1010 / 1240 | 1060 / 1290 |
| 3.7 | Track width rear | b ₁₁ | [mm] | 965 | 965 |
| DIMENSIONS | | | | | |
| 4.1 | Mast/fork carriage tilt forward/backward | α / β | [°] | 6° / 11° | 6° / 11° |
| 4.2 | Height of mast, lowered | h ₁ | [mm] | 2230 | 2345 |
| 4.3 | Free lift | h ₂ | [mm] | 80 | 80 |
| 4.4 | Lift | h ₃ | [mm] | 3170 | 3170 |
| 4.5 | Height, mast extended | h ₄ | [mm] | 3805 | 3805 |
| 4.7 | Height of overhead guard | h ₆ | [mm] | 2170 | 2180 |
| 4.8 | Seat height | h ₇ | [mm] | 1120 | 1130 |
| 4.12 | Towing coupling height | h ₁₀ | [mm] | 335 | 335 |
| 4.19 | Overall length | l ₁ | [mm] | 3807 | 3872 |
| 4.20 | Length to face of forks | l ₂ | [mm] | 2807 | 2872 |
| 4.21 | Overall width | b ₁ | [mm] | 1240 / 1665 | 1290 / 1715 |
| 4.22 | Fork dimensions | s/e/l | [mm] | 45x120x1000 | 50x150x1000 |
| 4.23 | Fork carriage DIN 1573, class/type A,B | | | III A | III A |
| 4.24 | Fork carriage width | b ₃ | [mm] | 1100 | 1100 |
| 4.31 | Ground clearance, with load below mast | m ₁ | [mm] | 130 | 145 |
| 4.32 | Ground clearance, centre of wheelbase | m ₂ | [mm] | 205 | 210 |
| 4.33 | Aisle width for pallets 1000x1200 wide | Ast | [mm] | 4168 | 4241 |
| 4.34 | Aisle width for pallets 800x1200 long | Ast | [mm] | 4368 | 4441 |
| 4.35 | Turning radius | Wa | [mm] | 2452 | 2520 |
| 4.36 | Internal turning radius | b ₁₃ | [mm] | 720 | 745 |
| PERFORMANCE | | | | | |
| 5.1 | Travel speed with/without load | | [km/h] | 18,5/19 - 16/16,5 | 19/19,5 - 16,5/17,0 |
| 5.2 | Lift speed with/without load | | [m/s] | 0,51/0,55 - 0,44/0,47 | 0,43/0,45 - 0,37/0,40 |
| 5.3 | Lowering speed with/without load | | [m/s] | < 0,55 | < 0,55 |
| 5.5 | Max drawbar pull with/without load | | [N] | 18000/10300 - 18400/10400 | 17000/10500 - 17100/10600 |
| 5.7 | Max gradeability with/without load | | [%] | 26/20 - 27/20 | 20/18 - 21/19 |
| 5.9 | Acceleration time with/without load | | [s] | - | - |
| 5.10 | Service brake | | | hydraulic | hydraulic |
| IC ENGINE | | | | | |
| 7.1 | Engine manufacturer/type | | | Toyota 4Y / Toyota 1DZ-III | Toyota 4Y / Toyota 1DZ-III |
| 7.2 | Engine power (ISO 1585) | | [kW] | 42 - 36 | 42 - 36 |
| 7.3 | Rated speed | | [min-1] | 2570 - 2400 | 2570 - 2400 |
| 7.4 | N° of cylinders/displacement | | [cm3] | 4/2237 - 4/2486 | 4/2237 - 4/2486 |
| 7.5 | Fuel consumption (VDI cycle) | | [l/h-kg/h] | - | - |
| OTHERS | | | | | |
| 8.1 | Type of drive control | | | hydrodynamic | hydrodynamic |
| 8.2 | Operating pressure for attachments | | [bar] | 147 - 147 | 147 - 147 |
| 8.3 | Oil quantity for attachments | | [l/min] | 65/74 - 65/75 | 65/74 - 65/80 |
| 8.4 | Sound level at the driver's ear (EN 12053) | | [dB (A)] | 77 - 79 | 77 - 79 |
| 8.5 | Towing coupling, type DIN | | | - | - |

a) with integral sideshift: +32 mm

Note: unless otherwise specified, all data refer to vehicles with SE tyres. All performance figures refer to fully run-in vehicles, in perfect working status with homologated tyres mix. Truck performance and dimensions are nominal and subject to tolerances.



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