



CESAB

spec sheet

CESAB M300

1.5 – 3.5 tonne

Engine Powered Forklift
– Torque Converter

Stage V
Publication: 2021



1.5 - 1.8 tonne

CESAB M315 – M318

Truck Specifications – Stage V

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
				(a)	(a)
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	b10	[mm]	885 / 1085	885 / 1085
3.7	Track width rear	b11	[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
				(a)	(a)
4.20	Length to face of forks	l ₂	[mm]	2342	2342
				(a)	(a)
4.21	Overall width	b ₁	[mm]	1070 / 1430	1070 / 1430
4.22	Fork dimensions	s/e/l	[mm]	40x80x1000	40x80x1000
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
				(a)	(a)
4.34	Aisle width for pallets 800x1200 long	Ast	[mm]	3895	3895
				(a)	(a)
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]	18,5/19,0 - 12,0/12,5	18,5/19,0 - 12,0/12,5
5.2	Lift speed with/without load		[m/s]	0,67/0,68 - 0,45/0,52	0,67/0,68 - 0,45/0,52
5.3	Lowering speed with/without load		[m/s]	0,50/0,55	0,50/0,55
5.5	Max drawbar pull with/without load		[N]	17500/6300 - 11800/6300	17500/6300 - 11800/6300
5.7	Max. gradeability with load ¹⁾		[%]	45/22 - 33/20	44/20 - 29/20
5.9	Acceleration time with/without load		[s]	-	-
5.10	Service brake			hydraulic	hydraulic
IC ENGINE					
7.1	Engine manufacturer/type			Toyota 4Y-ECS (V) / Toyota 1DZ-III (V)	Toyota 4Y-ECS (V) / Toyota 1DZ-III (V)
7.2	Engine power (ISO 1585)		[kW]	38 - 17,5	38 - 17,5
7.3	Rated speed		[min-1]	2570 - 1700	2570 - 1700
7.4	N° of cylinders/displacement		[cm3]	4/2237 - 4/2486	4/2237 - 4/2486
7.5	Fuel consumption (EN 16 796)		[kg/h-l/h]	2,1 - 2,4	2,1 - 2,6
OTHERS					
8.1	Type of drive control			torque converter	torque converter
8.2	Operating pressure for attachments		[bar]	118 - 118	118 - 118
8.3	Oil quantity for attachments		[l/min]	52,8 - 45,4	52,8 - 45,4
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

1) At 1,5 km/h

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



Duplex NFL (1,5-1,8t) (IMD)				
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) (IMD)				
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) (IMD)				
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.	$6^\circ / 6^\circ$		

2.0 – 2.5 tonne

CESAB M320 – M325

Truck Specifications – Stage V

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°
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]	40x100x1000 40x100x1000
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]	17,5/18,0 – 19,0/19,5 17,5/18,0 – 19,0/19,5	
5.2	Lift speed with/without load			[m/s]	0,60/0,64 – 0,62/0,66 0,60/0,64 – 0,62/0,66	
5.3	Lowering speed with/without load			[m/s]	0,50/0,50 0,50/0,50	
5.5	Max drawbar pull with/without load			[N]	18500/9000 – 19200/9100 18500/8500 – 19200/8700	
5.7	Gradeability with load ^{1) 2)}			[%]	35 – 33 29 – 28	
5.8	Max gradeability with/without load ²⁾			[%]	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-ECS (v) / Toyota 1ZS (V)		Toyota 4Y-ECS (v) / Toyota 1ZS (V)
7.2	Engine power (ISO 1585)			[kW]	38 – 41 38 – 41	
7.3	Rated speed			[min-1]	2570 – 2200 2570 – 2200	
7.4	N° of cylinders/displacement			[cm³]	4/2237 – 3/1795 4/2237 – 3/1795	
7.5	Fuel consumption (EN 16 796)			[kg/h-l/h]	2,3 – 2,3 2,4 – 2,6	
OTHERS						
8.1	Type of drive control			torque converter		torque converter
8.2	Operating pressure for attachments			[bar]	147 – 174 147 – 147	
8.3	Oil quantity for attachments			[l/min]	65/71 – 65/77 65/71 – 65/82	
8.4	Sound level at the driver's ear (EN 12053)			[dB (A)]	77 – 77 77 – 77	
8.5	Towing coupling, type DIN			-		-

a) with integral sideshift: +35 mm

b) with integral sideshift: +32 mm

1) At 1,5 km/h

2) computed value

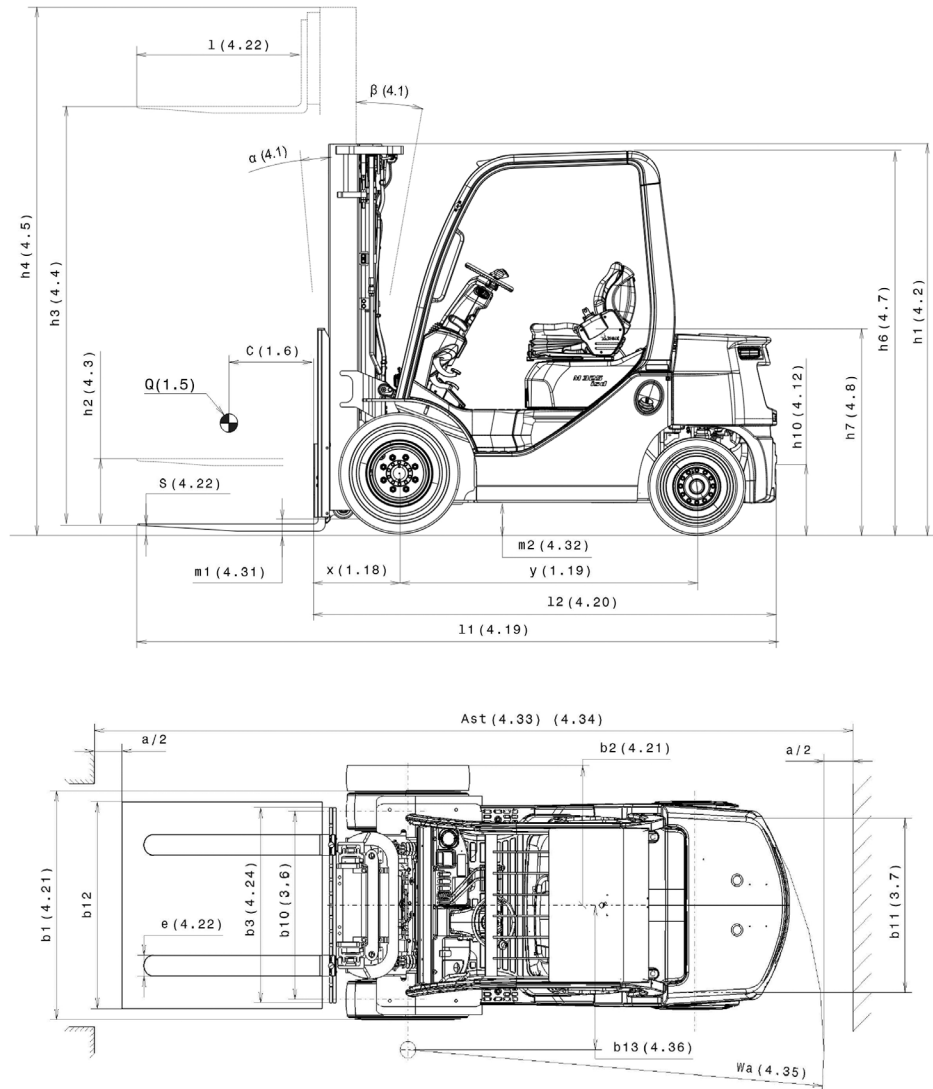
Note: unless otherwise specified, all data refer to vehicles with SE tyres. All performance figures refer to fully run-in vehicles, in perfect working status with homologated tyres mix. Truck performance and dimensions are nominal and subject to tolerances.



2.0 - 2.5 tonne

CESAB M320 – M325

Dimensional Drawings



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Mast Specifications

Duplex NFL (2,0t) (IMD)				
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) (IMD)				
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) (IMD)				
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) (IMD)				
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) (IMD)				
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) (IMD)				
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°		

3.0 – 3.5 tonne

CESAB M330 – M335

Truck Specifications – Stage V

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 (a)	521,5 (a)
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
WEELS AND TYRES				
3.1	Tyres: C=Cushion, PN=Pneumatic, SE=Superelastic, G=Twin tyre (only through SDR)		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 (a)	3872 (a)
4.20	Lenght to face of forks	l ₂ [mm]	2807 (a)	2872 (a)
4.21	Overall width	b ₁ [mm]	1240 / 1665	1290 / 1715
4.22	Fork dimensions	s/e/l [mm]	45x100x1000	45x125x1000
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 (a)	4241 (a)
4.34	Aisle width for pallets 800x1200 long	Ast [mm]	4368 (a)	4441 (a)
4.35	Turning radius	Wa [mm]	2452	2520
4.36	Internal turning radius	bl3 [mm]	720	745
PERFORMANCE				
5.1	Travel speed with/without load	[km/h]	18,5/19,0 – 18,5/19,0	19,0/19,5 – 19,0/19,5
5.2	Lift speed with/without load	[m/s]	0,51/0,55 – 0,50/0,53	0,43/0,45 – 0,42/0,45
5.3	Lowering speed with/without load	[m/s]	0,50/0,50	0,50/0,45
5.5	Max drawbar pull with/without load	[N]	18000/10300 – 19500/10500	17000/10500 – 18500/10600
5.7	Gradeability with load ^{1) 2)}	[%]	23 – 25	18 – 19
5.8	Max gradeability with/without load ²⁾	[%]	26/20 – 28/20	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-ECS (V) / Toyota 1ZS (V)	Toyota 4Y-ECS (V) / Toyota 1ZS (V)
7.2	Engine power (ISO 1585)	[kW]	42 – 41	42 – 41
7.3	Rated speed	[min-1]	2570 – 2200	2570 – 2200
7.4	N° of cylinders/displacement	[cm3]	4/2237 – 3/1795	4/2237 – 3/1795
7.5	Fuel consumption (EN 16 796)	[l/h-kg/h]	3,1 – 3,2	3,4 – 3,5
OTHERS				
8.1	Type of drive control		torque converter	torque converter
8.2	Operating pressure for attachments	[bar]	147 – 147	147 – 147
8.3	Oil quantity for attachments	[l/min]	65/74 – 65/80	65/74 – 65/80
8.4	Sound level at the driver's ear (EN 12053)	[dB (A)]	77 – 77	77 – 77
8.5	Towing coupling, type DIN		-	-

a) with integral sideshift: +32 mm

1) At 1,5 km/h

2) Computed value

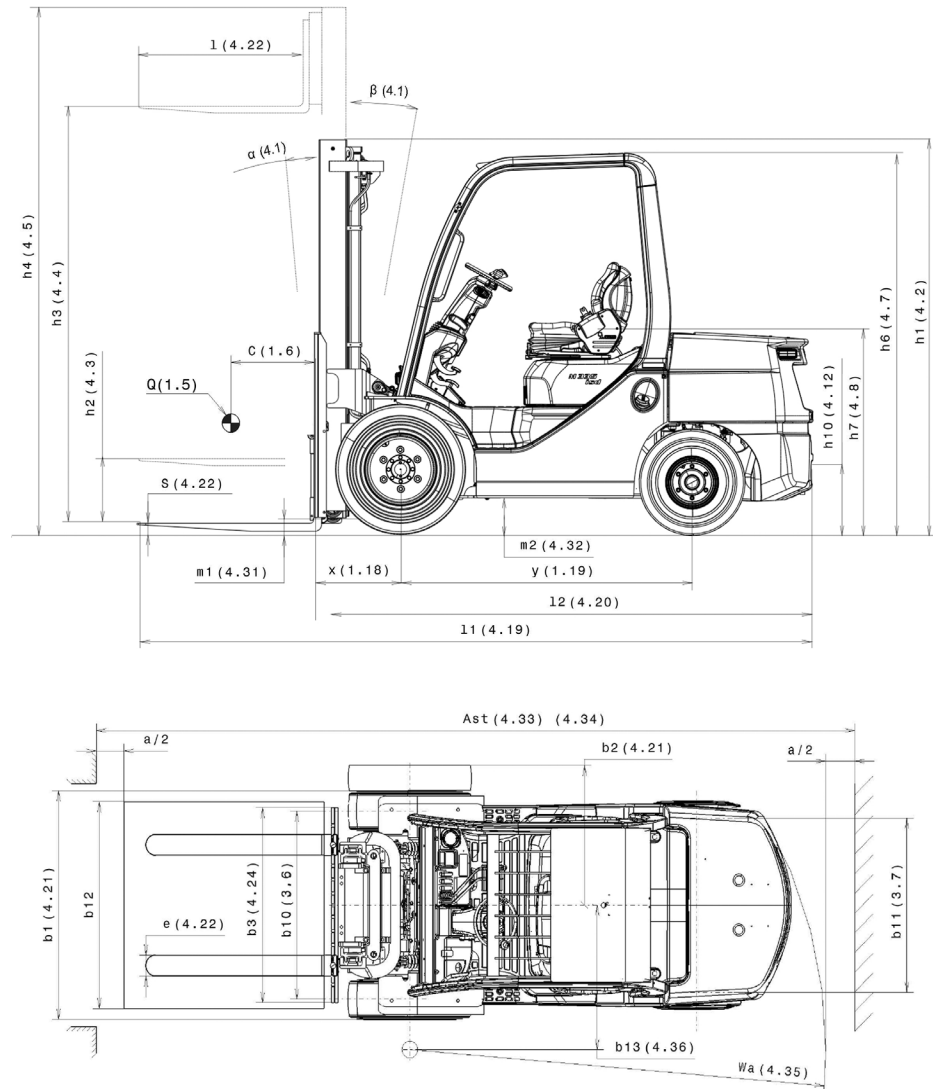
Note: unless otherwise specified, all data refer to vehicles with SE tyres. All performance figures refer to fully run-in vehicles, in perfect working status with homologated tyres mix. Truck performance and dimensions are nominal and subject to tolerances.



3.0 - 3.5 tonne

CESAB M330 – M335

Dimensional Drawings



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Mast Specifications

Duplex NFL (3,0t) (IMD)				
h_3	Lift height	2970	3170	4170
h_1	Height of mast, lowered	2130	2230	2780
h_2	Free lift	80	80	80
h_4	Height of mast, extended	3605	3805	4825
α/β	Mast tilt forw./ backw.	6°/ 11°		

Duplex FFL (3,0t) (IMD)				
h_3	Lift height	2970	3170	4170
h_1	Height of mast, lowered	2130	2230	2780
h_2	Free lift	1450	1550	2100
h_4	Height of mast, extended	3650	3850	4850
α/β	Mast tilt forw./ backw.	6°/ 11°		

Triplex FFL (3,0t) (IMD)				
h_3	Lift height	4470	4670	4970
h_1	Height of mast, lowered	2160	2230	2330
h_2	Free lift	1480	1550	1650
h_4	Height of mast, extended	5150	5350	5650
α/β	Mast tilt forw./ backw.	6°/ 6°		

Duplex NFL (3,5t) (IMD)				
h_3	Lift height	2970	3170	4170
h_1	Height of mast, lowered	2145	2345	2895
h_2	Free lift	80	80	80
h_4	Height of mast, extended	3600	3900	4900
α/β	Mast tilt forw./ backw.	6°/ 11°		

Duplex FFL (3,5t) (IMD)				
h_3	Lift height	2970	3170	4170
h_1	Height of mast, lowered	2145	2345	2845
h_2	Free lift	1450	1665	2165
h_4	Height of mast, extended	3650	3850	4850
α/β	Mast tilt forw./ backw.	6° / 11°		

Triplex FFL (3,5t) (IMD)				
h_3	Lift height	4470	4670	4970
h_1	Height of mast, lowered	2275	2345	2445
h_2	Free lift	1595	1665	1765
h_4	Height of mast, extended	5150	5350	5650
α/β	Mast tilt forw./ backw.	6° / 6°		



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Your authorised CESAB dealer



Pictures may show optional equipment and accessories not included in the standard execution of the truck.

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