

CESAB

spec sheet

CESAB M300H

1.5 - 3.5 tonne

Engine Powered Forklift
- Hydrostatic Transmission

Stage V
Publication: 2021



CESAB M315H - M318H

Truck Specifications

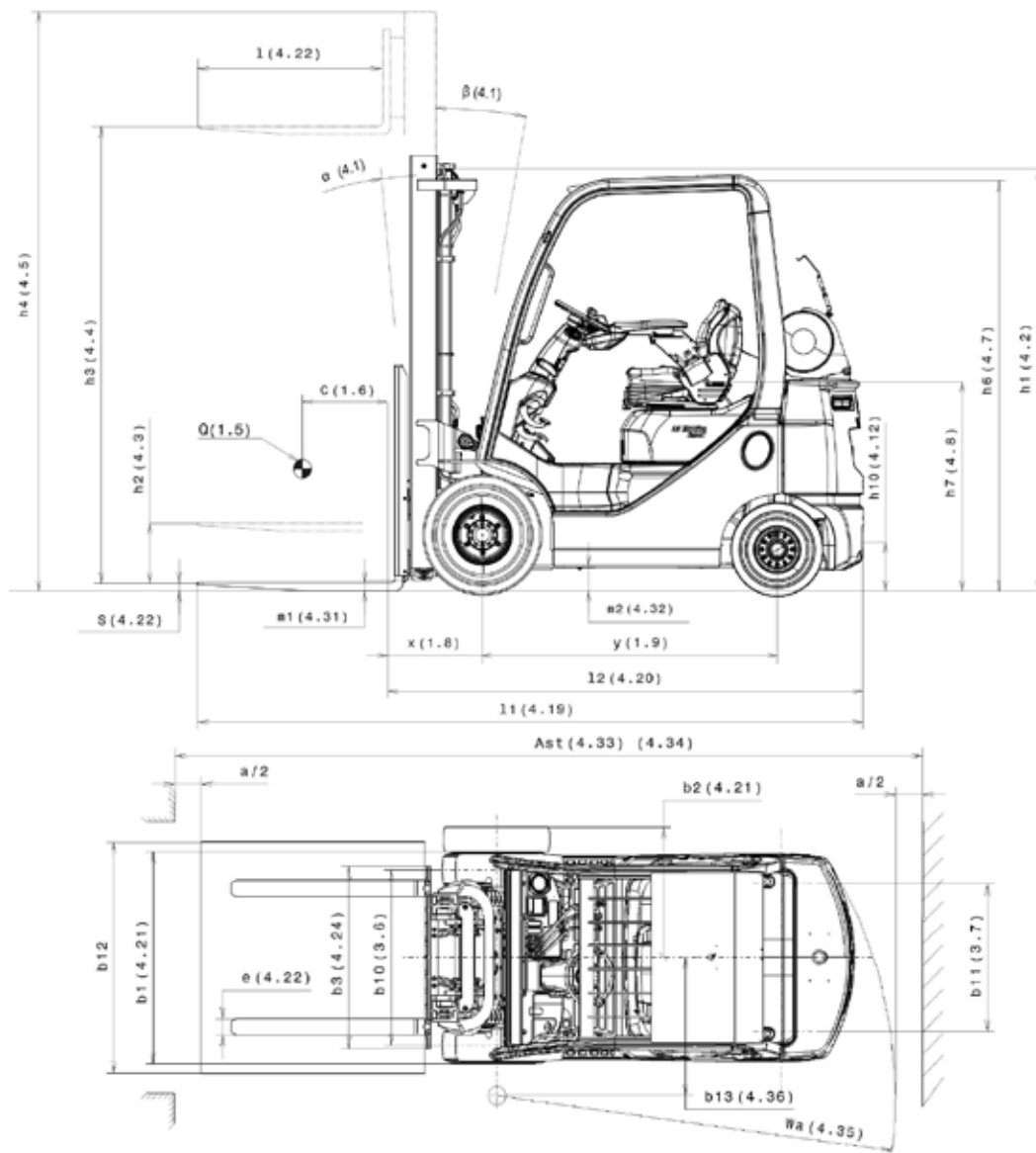
CHARACTERISTICS							
1.1	Manufacturer		CESAB	CESAB			
1.2	Model designation		M315H	M318H			
1.3	Power unit		LPG only	LPG only			
1.4	Operation		driver seated	driver seated			
1.5	Load capacity	Q	[t]	1,5	1,75		
1.6	Load centre distance	c	[mm]	500	500		
1.8	Axle centre to fork face	x	[mm]	421,5	(a)	421,5	(a)
1.9	Wheelbase	y	[mm]	1485		1485	
WEIGHT							
2.1	Service weight		[kg]	2890		2950	
2.2	Axle loading, with load front/rear		[kg]	3750/640		4210/540	
2.3	Axle loading, without load front/rear		[kg]	1320/1570		1310/1640	
WHEELS AND TYRES							
3.1	Tyres: C=Cushion, PN=Pneumatic, SE=Superelastic			SE-PN		SE-PN	
3.2	Tyre size front			6.50-10		6.50-10	
3.3	Tyre size rear			5.00-8		5.00-8	
3.5	Wheels: number front/rear (x = driven wheels)			2x/ 2		2x/ 2	
3.6	Track width front	b10	[mm]	885		885	
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	(a)	3342	(a)
4.20	Length to face of forks	l_2	[mm]	2342	(a)	2342	(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	A_{st}	[mm]	3695	(a)	3695	(a)
4.34	Aisle width for pallets 800x1200 long	A_{st}	[mm]	3895	(a)	3895	(a)
4.35	Turning radius	W_a	[mm]	2074		2074	
4.36	Internal turning radius	b_{13}	[mm]	575		575	
PERFORMANCE							
5.1	Travel speed with/without load		[km/h]	19/19		19/19	
5.2	Lift speed with/without load		[m/s]	0,67/0,68		0,67/0,68	
5.3	Lowering speed with/without load		[m/s]	< 0,55		< 0,55	
5.5	Max drawbar pull with/without load		[N]	10800/6300		10800/6300	
5.7	Gradeability with load ¹⁾		[%]	24/22		24/22	
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 4Y-ECS (v)	
7.2	Engine power (ISO 1585)		[kW]	38		38	
7.3	Rated speed		[min ⁻¹]	2400		2400	
7.4	N° of cylinders/displacement		[cm ³]	4/2237		4/2237	
7.5	Fuel consumption (EN16796)		[kg/h]	2,5		2,5	
OTHERS							
8.1	Type of drive control			hydrostatic		hydrostatic	
8.2	Operating pressure for attachments		[bar]	118		118	
8.3	Oil quantity for attachments		[l/min]	65 max.		65 max.	
8.4	Sound level at the driver's ear (EN 12053)		[dB (A)]	77		77	
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 M315H - M318H

Dimensional Drawings



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Mast Specifications

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° / 6°	

CESAB M320H - M325H

Truck Specifications

CHARACTERISTICS					
1.1	Manufacturer		CESAB		CESAB
1.2	Model designation		M320H		M325H
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	487,5 (a)
1.9	Wheelbase	y	[mm]	1650	1650 (b)
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	a/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	3649 (a)
4.20	Length to face of forks	l ₂	[mm]	2542	2649 (a)
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	4039 (a)
4.34	Aisle width for pallets 800x1200 long	Ast	[mm]	4142	4239 (a)
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]	19/19 - 19/19	19/19 - 19/19
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
5.5	Max drawbar pull with/without load		[N]	17500/7800 - 17500/7800	17500/9000 - 17500/9100
5.7	Gradeability with load ^{1) 2)}		[%]	-----	-----
5.8	Max gradeability with/without load ²⁾		[%]	32/20 - 32/20	27/22 - 27/22
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]	2400 - 2200	2400 - 2200
7.4	N° of cylinders/displacement		[cm3]	4/2237 - 3/1795	4/2237 - 3/1795
7.5	Fuel consumption (EN16796)		[kg/h-l/h]	2,7 - 2,4	2,8 - 2,7
OTHERS					
8.1	Type of drive control			hydrostatic	hydrostatic
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

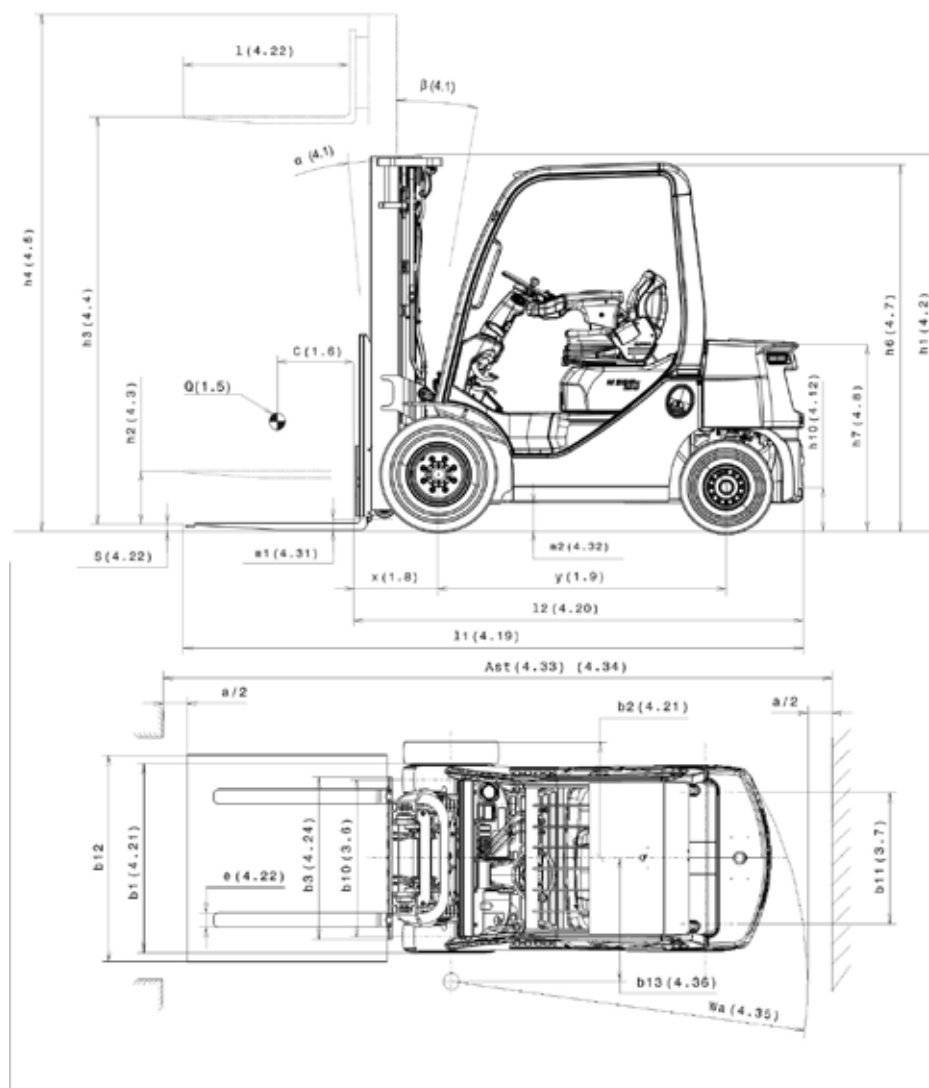
1) At 1,5 km/h

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.

CESAB M320H – M325H

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°		

CESAB M330H - M335H

Truck Specifications

CHARACTERISTICS						
1.1	Manufacturer		CESAB	CESAB		
1.2	Model designation		M330H	M335H		
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	(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	
WHEELS 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 / 28x9-15	250-15 / 250-15	
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 ₀	[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	3900	
4.7	Height of overhead guard	h ₅	[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	(a)
4.20	Length to face of forks	l ₂	[mm]	2807	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	4241	(a)
4.34	Aisle width for pallets 800x1200 long	Ast	[mm]	4368	4441	(a)
4.35	Turning radius	Wa	[mm]	2452	2520	
4.36	Internal turning radius	b13	[mm]	720	745	
PERFORMANCE						
5.1	Travel speed with/without load		[km/h]	19,5/19, 5 - 19,5/19,5	20/20 - 20/20	
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	
5.5	Max drawbar pull with/without load		[N]	17000/10300 - 17000/10400	16500/10500 - 16500/10600	
5.7	Gradeability with load ^{1) 2)}		[%]	-----	-----	
5.8	Max gradeability with/without load ²⁾		[%]	21/20 - 21/20	17/17 - 17/17	
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]	2400 - 2200	2400 - 2200	
7.4	N° of cylinders/displacement		[cm ³]	4/2237 - 3/1795	4/2237 - 3/1795	
7.5	Fuel consumption (EN16796)		[kg/h-l/h]	3,4 - 3,3	3,7 - 3,6	
OTHERS						
8.1	Type of drive control			hydrostatic	hydrostatic	
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

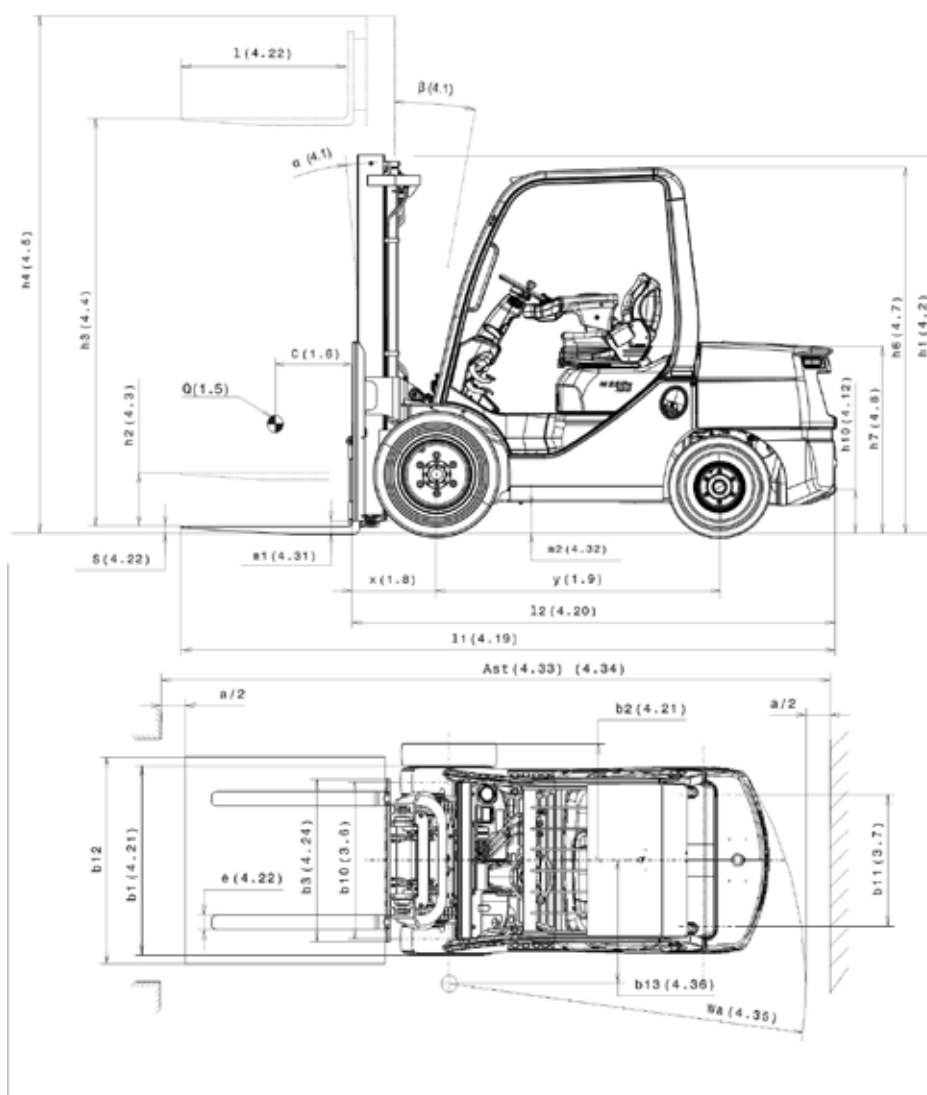
1) At 1,5 km/h

2) Computed value

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CESAB M330H – M335H

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°		



Your authorised CESAB dealer



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

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