

# CESAB M300 1.5 - 3.5 tonne

Engine Powered Forklift



Truck Specifications



**CESAB**

## CESAB M315 - M318 Truck Specifications

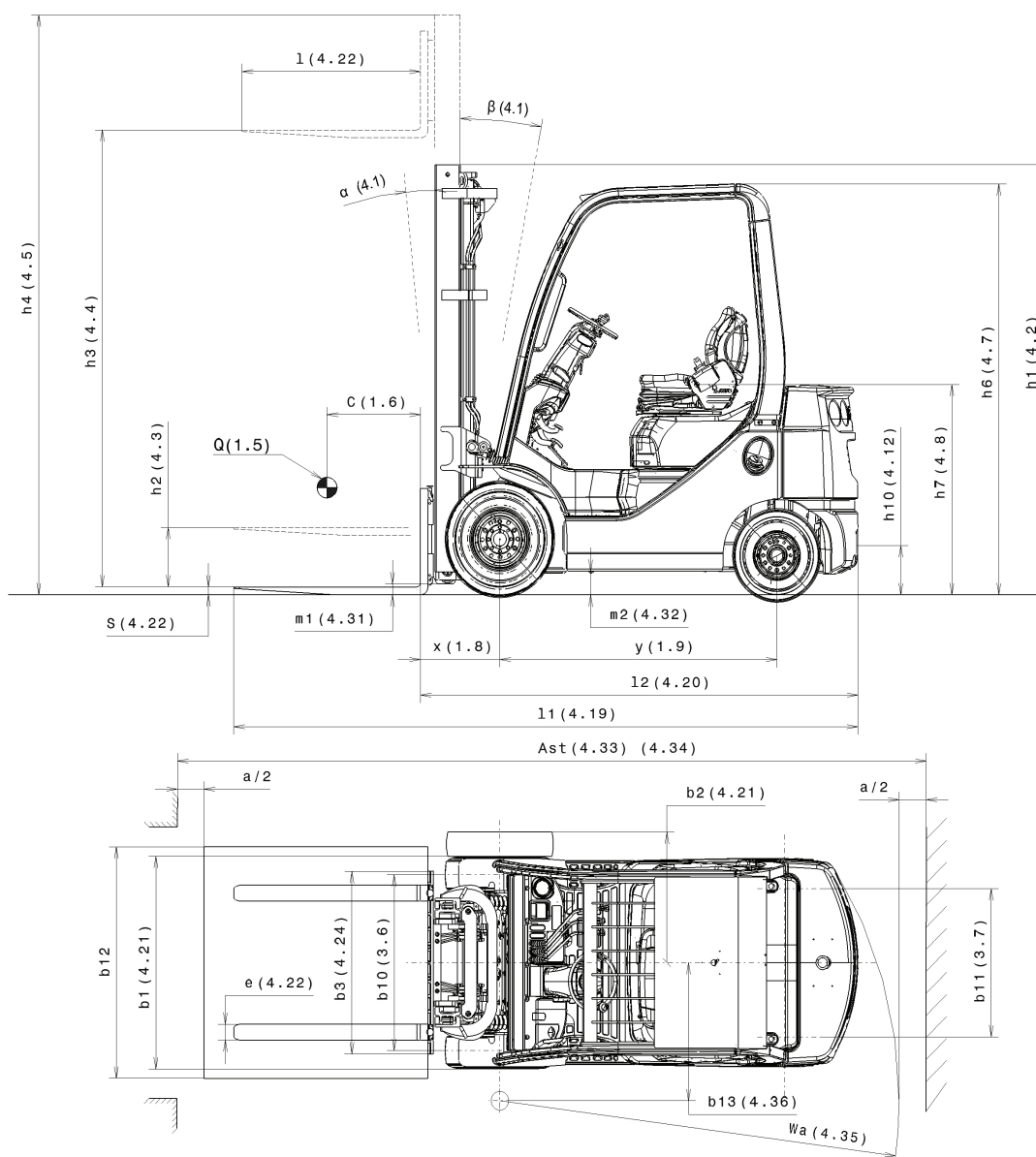
CHARACTERISTICS				
1.1	Manufacturer		CESAB	CESAB
1.2	Model designation		M315	M318
1.3	Power unit		LPG - diesel	LPG - diesel
1.4	Operation		driver seated	driver seated
1.5	Load capacity	Q [t]	1,5	1,75
1.6	Load centre distance	c [mm]	500	500
1.8	Axle centre to fork face	x [mm]	421,5	(a) 421,5 (a)
1.9	Wheelbase	y [mm]	1485	1485
WEIGHT				
2.1	Service weight	kg	2630-2730	2810-2910
2.2	Axle loading, with load front/rear	kg	3570/560 - 3620-610	3930/630 - 4050/610
2.3	Axle loading, without load front/rear	kg	1150/1480 - 1200/1530	1110/1700 - 1230/1680
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	$\alpha / \beta [^\circ]$	6° / 11°	6° / 11°
4.2	Height of mast, lowered	h1 [mm]	2065	2065
4.3	Free lift	h2 [mm]	80	80
4.4	Lift	h3 [mm]	2970	2970
4.5	Height, mast extended	h4 [mm]	3520	3520
4.7	Height of overhead guard	h6 [mm]	2080	2080
4.8	Seat height	h7 [mm]	1030	1030
4.12	Towing coupling height	h10 [mm]	285	285
4.19	Overall length	l1 [mm]	3342	(a) 3342 (a)
4.20	Length to face of forks	l2 [mm]	2342	(a) 2342 (a)
4.21	Overall width	b1 [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	b3 [mm]	920	920
4.31	Ground clearance, with load below mast	m1 [mm]	115	115
4.32	Ground clearance, centre of wheelbase	m2 [mm]	130	130
4.33	Aisle width for pallets 1000x1200 wide	Ast [mm]	3695	(a) 3695 (a)
4.34	Aisle width for pallets 800x1200 long	Ast [mm]	3895	(a) 3895 (a)
4.35	Turning radius	Wa [mm]	2074	2074
4.36	Internal turning radius	b13 [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 - 17500/7000	17500/6300 - 17500/6300
5.7	Max gradeability with/without load	%	45/22 - 45/22	44/20 - 45/20
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 - 38	38 - 38
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



Availability and specifications are determined regionally and are subject to change without notice. Please consult your authorised CESAB distributor for further details. P&B-0310 M300/S1.0/MAR10.

## Mast Specifications

Duplex NFL (1,5-1,8t)			
h3	Lift height	2970	3170 4170
h1	Height of mast, lowered	2065	2165 2715
h2	Free lift	80	80 80
h4	Height of mast, extended	3520	3720 4755
α/β	Mast tilt forw./backw.	6° / 11°	

Duplex FFL (1,5-1,8t)			
h3	Lift height	2970	3170 4170
h1	Height of mast, lowered	2065	2165 2715
h2	Free lift	1470	1570 2120
h4	Height of mast, extended	3565	3765 4765
α/β	Mast tilt forw./backw.	6° / 11°	

Triplex FFL (1,5-1,8t)			
h3	Lift height	4470	4670 4970
h1	Height of mast, lowered	2065	2165 2265
h2	Free lift	1470	1570 1670
h4	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		3560 - 3600
2.2	Axle loading, with load front/rear	kg	4580/670 - 4600/690		5280/780 - 5300/800
2.3	Axle loading, without load front/rear	kg	1410/1840 - 1430/1860		1300/2260 - 1320/2280
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	b10 [mm]	960 / 1190		960 / 1190
3.7	Track width rear	b11 [mm]	965		965
DIMENSIONS					
4.1	Mast/fork carriage tilt forward/backward	$\alpha / \beta [^\circ]$	6° / 11°		6° / 11°
4.2	Height of mast, lowered	h1 [mm]	2065		2115
4.3	Free lift	h2 [mm]	80		80
4.4	Lift	h3 [mm]	2970		2970
4.5	Height, mast extended	h4 [mm]	3520		3600
4.7	Height of overhead guard	h6 [mm]	2110		2110
4.8	Seat height	h7 [mm]	1060		1060
4.12	Towing coupling height	h10 [mm]	315		315
4.19	Overall length	l1 [mm]	3542	(a)	3649 (b)
4.20	Length to face of forks	l2 [mm]	2542	(a)	2649 (b)
4.21	Overall width	b1 [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	b3 [mm]	1020		1020
4.31	Ground clearance, with load below mast	m1 [mm]	115		115
4.32	Ground clearance, centre of wheelbase	m2 [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	b13 [mm]	745		745
PERFORMANCE					
5.1	Travel speed with/without load	km/h	17,5/18 - 18,5/19		17,5/18 - 18,5/19
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	< 0,55		< 0,55
5.5	Max drawbar pull with/without load	N	18500/9000 - 18600/9100		18500/8500 - 18600/8500
5.7	Max gradeability with/without load	%	39/22 - 39/22		33/19 - 32/19
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 - 41		38 - 41
7.3	Rated speed	min-1	2570 - 2500		2570 - 2500
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

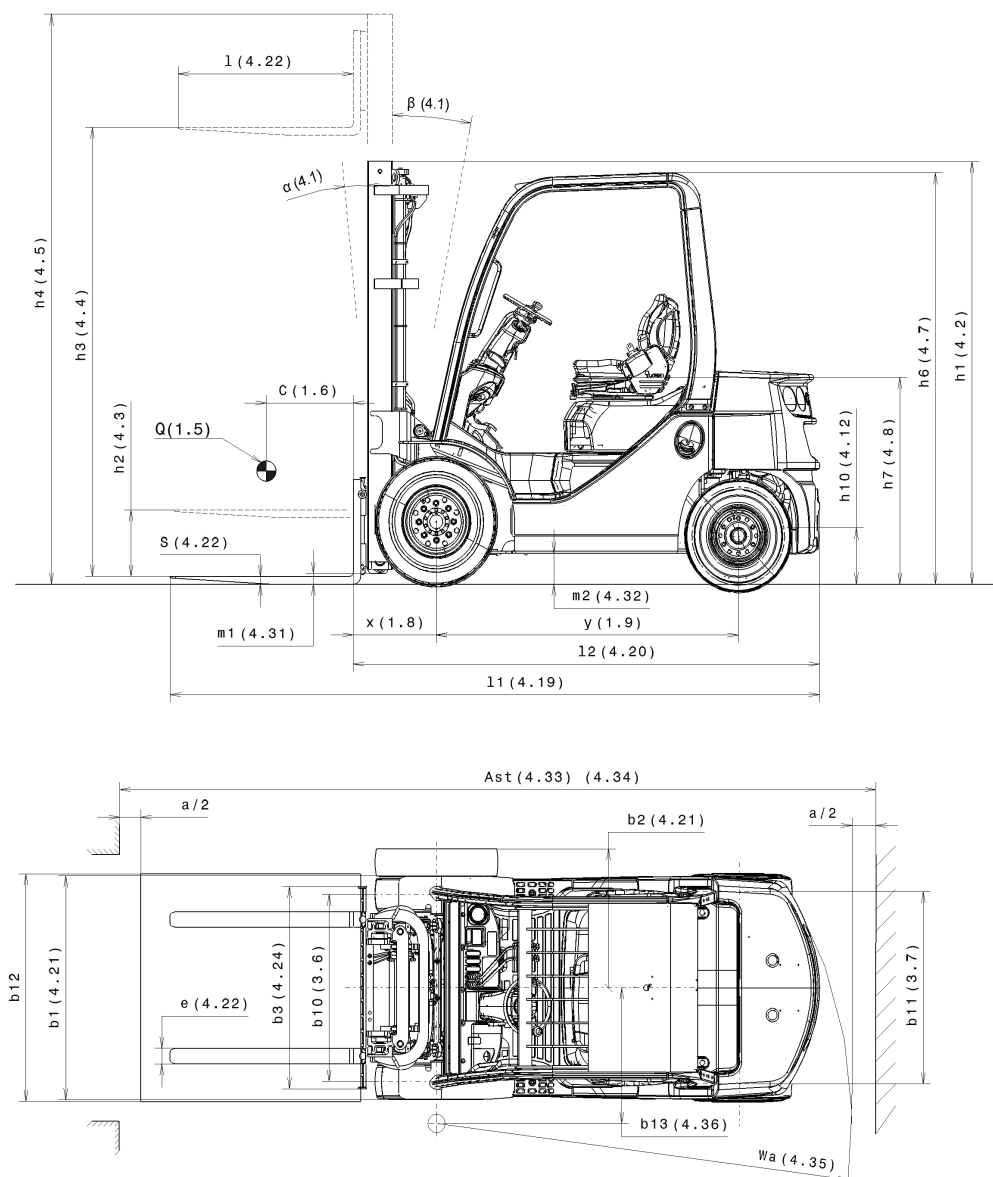
b) with integral sideshift: +32 mm

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



Availability and specifications are determined regionally and are subject to change without notice. Please consult your authorised CESAB distributor for further details. P&B-0310 M300/S1.0/MAR10.

## Mast Specifications

Duplex NFL (2.0t)			
h3	Lift height	2970	3170 4170
h1	Height of mast, lowered	2065	2165 2715
h2	Free lift	80	80 80
h4	Height of mast, extended	3520	3720 4770
α/β	Mast tilt forw./backw.	6° / 11°	

Duplex FFL (2.0t)			
h3	Lift height	2970	3170 4170
h1	Height of mast, lowered	2065	2165 2715
h2	Free lift	1470	1570 2120
h4	Height of mast, extended	3565	3765 4765
α/β	Mast tilt forw./backw.	6° / 11°	

Triplex FFL (2.0t)			
h3	Lift height	4460	4670 4970
h1	Height of mast, lowered	2065	2165 2265
h2	Free lift	1470	1570 1670
h4	Height of mast, extended	5055	5265 5565
α/β	Mast tilt forw./backw.	6° / 6°	

Duplex NFL (2.5t)			
h3	Lift height	2970	3170 4170
h1	Height of mast, lowered	2115	2215 2765
h2	Free lift	80	80 80
h4	Height of mast, extended	3600	3800 4820
α/β	Mast tilt forw./backw.	6° / 11°	

Duplex FFL (2.5t)			
h3	Lift height	2970	3170 4170
h1	Height of mast, lowered	2115	2215 2765
h2	Free lift	1450	1550 2100
h4	Height of mast, extended	3635	3835 4835
α/β	Mast tilt forw./backw.	6° / 11°	

Triplex FFL (2.5t)			
h3	Lift height	4320	4560 4970
h1	Height of mast, lowered	2095	2175 2315
h2	Free lift	1430	1510 1650
h4	Height of mast, extended	4985	5225 5635
α/β	Mast tilt forw./backw.	6° / 6°	

## CESAB M330 - M335 Truck Specifications

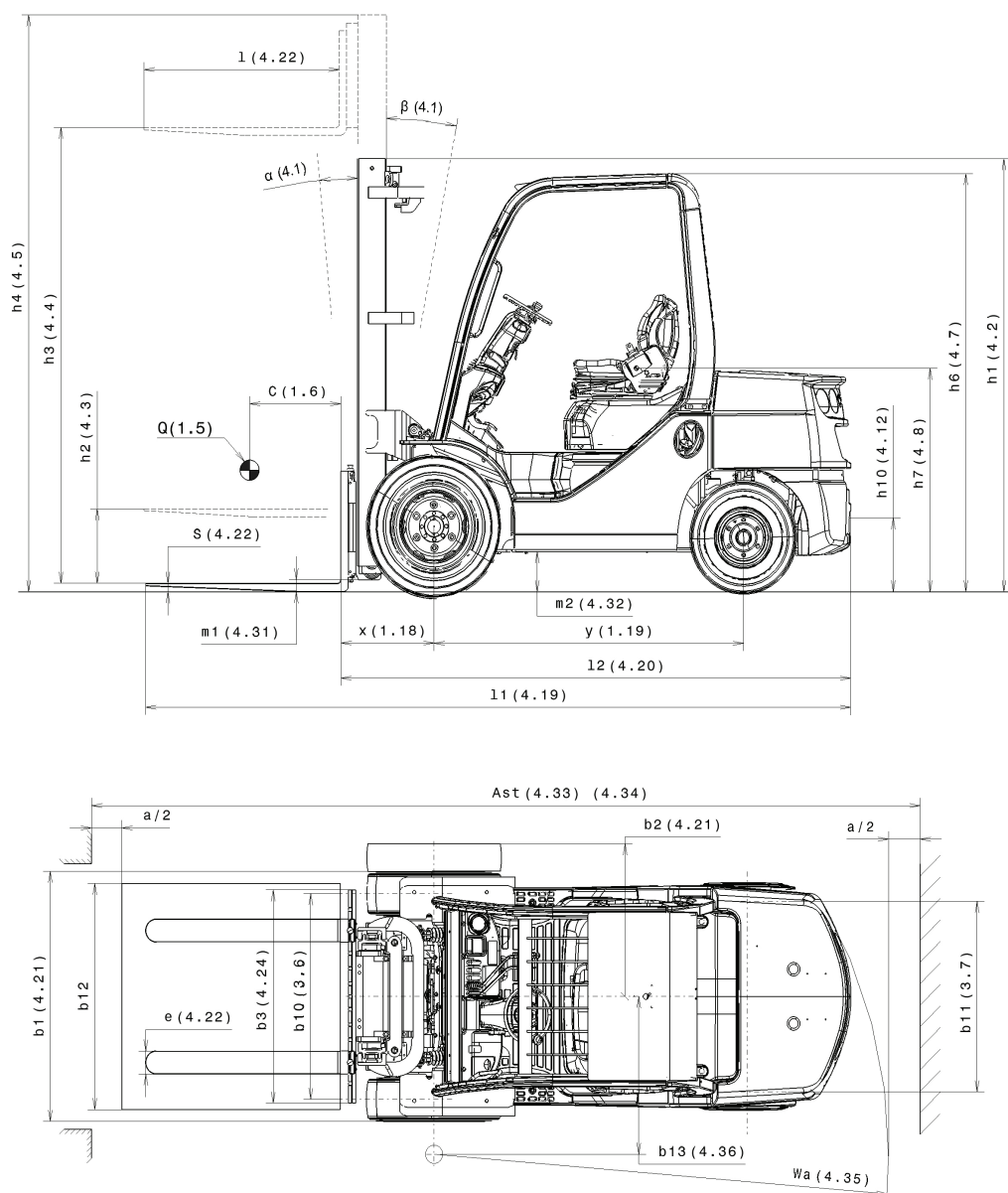
CHARACTERISTICS				
1.1	Manufacturer		CESAB	CESAB
1.2	Model designation		M330	M335
1.3	Power unit		LPG - diesel	LPG - diesel
1.4	Operation		driver seated	driver seated
1.5	Load capacity	Q [t]	3,0	3,5
1.6	Load centre distance	c [mm]	500	500
1.8	Axle centre to fork face	x [mm]	516,5	(a) 521,5 (a)
1.9	Wheelbase	y [mm]	1700	1700
WEIGHT				
2.1	Service weight	kg	4230 - 4270	4840 - 4940
2.2	Axle loading, with load front/rear	kg	6200/1030 - 6230/1040	7220/1120 - 7260/1180
2.3	Axle loading, without load front/rear	kg	1460/2770 - 1500/2770	1660/3180 - 1700/3240
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		28x9-15 / 7.00-15 (SEG) - 28x8-15 (PNG)	250x15 / 7.00-15 (SEG) - 28x8-15 (PNG)
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	b10 [mm]	1010 / 1240	1060 / 1290
3.7	Track width rear	b11 [mm]	965	965
DIMENSIONS				
4.1	Mast/fork carriage tilt forward/backward	α / β [°]	6° / 11°	6° / 11°
4.2	Height of mast, lowered	h1 [mm]	2130	2145
4.3	Free lift	h2 [mm]	80	80
4.4	Lift	h3 [mm]	2970	2970
4.5	Height, mast extended	h4 [mm]	3605	3600
4.7	Height of overhead guard	h6 [mm]	2170	2180
4.8	Seat height	h7 [mm]	1120	1130
4.12	Towing coupling height	h10 [mm]	335	335
4.19	Overall lenght	l1 [mm]	3807	(a) 3872 (a)
4.20	Lenght to face of forks	l2 [mm]	2807	(a) 2872 (a)
4.21	Overall width	b1 [mm]	1240 / 1670 (7.00-15) - 1665 (28x8-15)	1290 / 1720 (7.00-15) - 1715 (28x8-15)
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	b3 [mm]	1100	1100
4.31	Ground clearance, with load below mast	m1 [mm]	130	145
4.32	Ground clearance, centre of wheelbase	m2 [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	b13 [mm]	720	745
PERFORMANCE				
5.1	Travel speed with/without load	km/h	18,5/19 - 17,5/18	19/19,5 - 19/19,5
5.2	Lift speed with/without load	m/s	0,51/0,55 - 0,50/0,53	0,43/0,45 - 0,45/0,48
5.3	Lowering speed with/without load	m/s	< 0,55	< 0,55
5.5	Max drawbar pull with/without load	N	18000/10300 - 19500/10400	17000/10500 - 18500/10700
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 3Z
7.2	Engine power (ISO 1585)	kW	42 - 41	42 - 42
7.3	Rated speed	min-1	2570 - 2500	2570 - 2200
7.4	N° of cylinders/displacement	cm3	4/2237 - 4/2486	4/2237 - 4/3469
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.



## CESAB M330 - M335 Dimensional Drawings



## Mast Specifications

Duplex NFL (3.0t)				
h3	Lift height	2970	3170	4170
h1	Height of mast, lowered	2130	2230	2780
h2	Free lift	80	80	80
h4	Height of mast, extended	3605	3805	4825
α/β	Mast tilt forw./backw.	6° / 11°		

Duplex FFL (3.0t)				
h3	Lift height	2970	3170	4170
h1	Height of mast, lowered	2130	2230	2780
h2	Free lift	1450	1550	2100
h4	Height of mast, extended	3650	3850	4850
α/β	Mast tilt forw./backw.	6° / 11°		

Triplex FFL (3,0t)				
h3	Lift height	4470	4670	4970
h1	Height of mast, lowered	2160	2230	2330
h2	Free lift	1480	1550	1650
h4	Height of mast, extended	5150	5350	5650
α/β	Mast tilt forw./backw.	6° / 6°		

