

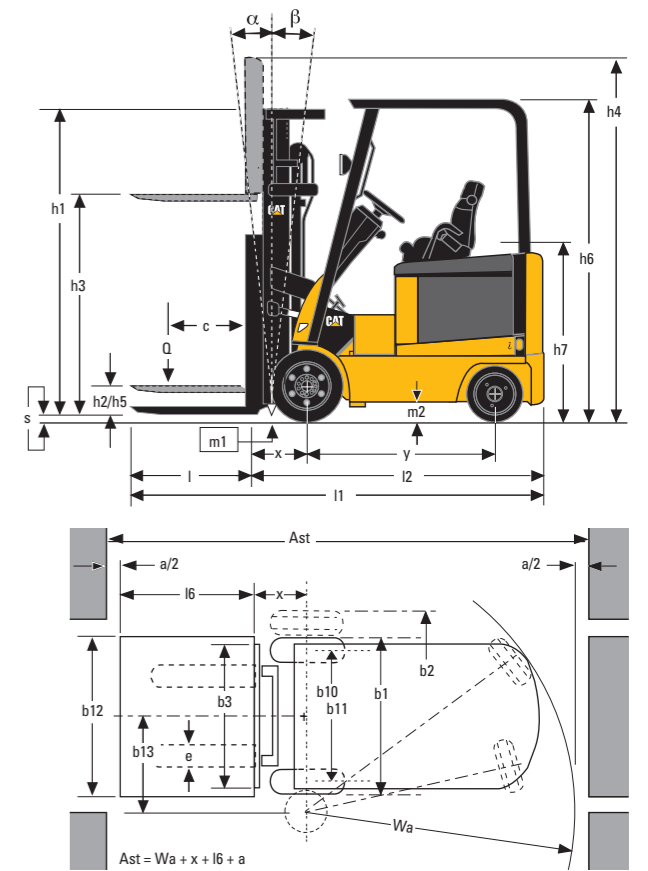


EC15N - EC18N - EC20N - EC25N **EC25EN/LN - EC30N**

Specifications

Electric powered lift trucks
Cushion tyres, 1.5 - 3.0 tonnes

Characteristics			Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	
			EC15N	EC18N	EC20N	EC25N	EC25EN	EC25LN	EC30N	
1.01	Manufacturer (abbreviation)		Battery	Battery	Battery	Battery	Battery	Battery	Battery	
1.02	Manufacturer's model designation		Seated	Seated	Seated	Seated	Seated	Seated	Seated	
1.03	Power source: (battery, diesel, LP gas, petrol)		Q (kg)	1500	1800	2000	2500	2500	3000	
1.04	Operator type: pedestrian, (operator)-standing, -seated		c (mm)	500	500	500	500	600	500	
1.05	Load capacity		x (mm)	376	376	394	394	394	406	
1.06	Load centre distance		y (mm)	1170	1170	1280	1280	1380	1380	
1.08	Load distance, axle to fork face		Weight							
1.09	Wheelbase		2.01	2825	3075	3700	4200	4100	4275	4725
			2.02	3750/570	4200/660	4950/750	5900/780	5800/820	5900/870	6700/1070
			2.03	1130/1690	1050/2010	1540/2150	1670/2525	1660/2440	1610/2675	1680/3050
			Wheels, Drive Train							
3.01	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear		V / V	V / V	V / V	V / V	V / V	V / V	V / V	
3.02	Tyre dimensions, front		18x6x12 1/8	18x6x12 1/8	21x7x15	21x7x15	21x7x15	21x8x15	21x8x15	
3.03	Tyre dimensions, rear		14x4 1/2 x8	14x4 1/2 x8	16x5x10 1/2	16x5x10 1/2	16x5x10 1/2	16x5x10 1/2	16x5x10 1/2	
3.05	Number of wheels, front/rear (x=driven)		2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	
3.06	Track width (centre of tyres), front	b10 (mm)	1170	1170	1280	1280	1380	1380	1380	
3.07	Track width (centre of tyres), rear	b11 (mm)	826	826	900	900	900	900	900	
			Dimensions							
4.01	Mast tilt, forwards/backwards	α/β °	5/6	5/6	5/6	5/6	5/6	5/6	5/6	
4.02	Height with mast lowered (see tables)	h1 (mm)	2105	2105	2110	2110	2110	2110	2110	
4.03	Free lift (see tables)	h2 (mm)	80	80	90	90	90	90	90	
4.04	Lift height (see tables)	h3 (mm)	3285	3285	3300	3300	3300	3265	3265	
4.05	Overall height with mast raised	h4 (mm)	4570	4570	4570	4570	4570	4550	4550	
4.07	Height to top of overhead guard	h6 (mm)	2180	2180	2210	2210	2210	2210	2210	
4.08	Seat height	h7 (mm)	1102	1102	1171	1171	1171	1171	1171	
4.12	Tow coupling height	h10 (mm)	-	-	-	-	-	-	-	
4.19	Overall length	l1 (mm)	3050	3050	3155	3155	3255	3255	3325	
4.20	Length to fork face (includes fork thickness)	l2 (mm)	1980	1980	2085	2085	2185	2185	2255	
4.21	Overall width	b1/b2 (mm)	945/996	945/996	1055/1103	1055/1103	1055/1103	1103/-	1103/-	
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	35x100x1070	35x100x1070	40x100x1070	40x100x1070	40x100x1070	40x100x1070	45x125x1070	
4.23	Fork carriage to DIN 15 173 A/B/no		2A	2A	2A	2A	2A	2A	3A	
4.24	Fork carriage width	b3 (mm)	844	844	944	944	944	944	984	
4.31	Ground clearance under mast, with load	m1 (mm)	75	75	76	76	76	76	77	
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)	m2 (mm)	118	118	124	124	124	124	124	
4.33	Working aisle width with 1000 x1200 mm pallets, crosswise	Ast (mm)	3366	3366	3484	3484	3584	3584	3651	
4.34	Working aisle width with 800 x1200 mm pallets, crosswise	Ast (mm)	3166	3166	3284	3284	3384	3384	3451	
4.35	Turning circle radius	Wa (mm)	1790	1790	1890	1890	1990	1990	2045	
4.36	Minimum distance between centres of rotation	b13 (mm)	-	-	-	-	-	-	-	
			Performance							
5.01	Travel speed, with/without load	km/h	18/18	18/18	18/18	18/18	18/18	18/18	18/18	
5.02	Lifting speed, with/without load	m/s	0.53/0.71	0.49/0.71	0.45/0.63	0.38/0.65	0.38/0.65	0.38/0.65	0.36/0.55	
5.03	Lowering speed, with/without load	m/s	0.50/0.41	0.50/0.41	0.50/0.50	0.50/0.50	0.50/0.50	0.50/0.50	0.50/0.45	
5.05	Rated drawbar pull, with/without load	N	5695/5909	5674/5916	8856/9094	8822/9066	8803/9055	8921/9085	10565/10829	
5.06	Maximum drawbar pull, with/without load (5 min short duty)	N	10770/11141	10767/11156	18580/19072	18567/19026	18507/19007	18552/19040	20136/20683	
5.07	Gradeability, with/without load	%	11/19	9/17	13/23	11/19	11/20	11/19	11/20	
5.08	Maximum gradeability, with/without load	%	23/-	20/-	32/-	26/-	27/-	26/-	24/-	
5.09	Acceleration time (10 metres) with/without load	s	4.8/4.4	4.8/4.4	5.3/4.8	5.6/5.1	5.5/5.0	5.7/5.2	6.0/5.4	
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	
			Electric motors							
6.01	Drive motor capacity (60 min. short duty)	kW	14	14	14	14	14	14	14	
6.02	Lift motor output at 15% duty factor	kW	11.7	11.7	15.1	15.1	15.1	15.1	15.1	
6.03	Battery to DIN 43 531/35/36 A/B/C/no		-	-	-	-	-	-	-	
6.04	Battery voltage/capacity at 5-hour discharge	V/Ah	48/500	48/500	48/800	48/800	48/1000	48/1000	48/1000	
6.05	Battery weight	kg	750	750	1000	1315	1400	1400	1400	
6.06	Energy consumption according to VDI 60 cycle	kWh/h	-	-	-	-	-	-	-	
			Miscellaneous							
8.01	Type of drive control		Impulse / AC	Impulse / AC	Impulse / AC	Impulse / AC	Impulse / AC	Impulse / AC	Impulse / AC	
8.02	Maximum operating pressure for attachments	bar	155	155	155	155	155	155	155	
8.03	Oil flow for attachments	l/min	750	750	1000	1180	1410	1410	1410	
8.04	Noise level, value at operator's ear (EN 12053)	dB(A)	69.2	69.2	68.5	68.5	68.5	68.5	68.5	
8.05	Towing coupling design / DIN type, ref.									



Ast = Working aisle width with load
 Wa = Turning radius
 x = Load distance, axle to fork face
 l6 = Pallet length (800 or 1000 mm)
 a = Safety clearance = 2 x 100 mm
 b12 = Pallet width (1200 mm)

Lower Cost of Ownership

- Proven front wheel drive system for outstanding reliability.
- 500 hours service intervals for maximum 'up time'.
- Advanced AC technology provides faster lift and travel speeds for quicker work cycles.
- New generation MicroCommand® AC controller provides optimum performance and energy efficiency.
- Compact chassis allows operation in the tightest working aisles.

Unmatched Productivity

- Easy access to all components.
- Programmable diagnostics and performance via the display and PC or Laptop.
- Heavy duty chassis and rigid mast.
- Strong regenerative braking speeds up working cycles, extends battery life and reduces brake wear.

Safety and Ergonomics

- Smooth cushion tyres maximise stability at high lift and ensure low rolling resistance, minimising energy consumption and extending shift length.
- High visibility mast and overhead guard.
- Presence detection System (PDS) prevents operation while driver not seated.
- Backup alarm supplied as standard.
- Automotive pedal layout for easy operation.
- Full hydrostatic steering system for effortless manoeuvrability.
- Fully adjustable suspension seat.
- Tilttable steering column.
- Open step frame on each side of the truck allows easy entry and exit from either side if required.

Options

- Strobe light.
- Quick-disconnect couplers.
- Seat-operated parking brake.
- Lateral battery slides.



Cat® Lift Trucks.

Your partner in materials handling.

EC15N/EC18N					EC15N	EC18N
Mast Type	h3	h1	h4	h2/h5	Q @ c = 500mm kg	Q @ c = 500mm kg
	mm	mm	mm	mm		
Simplex	2600	1740	3830	80	1500	1800
	2800	1840	4030	80	1500	1800
	3000	1960	4270	80	1500	1800
	3300	2105	4560	80	1500	1800
	3700	2365	4990	80	1500	1800
	4100	2550	5400	80	1500	1800
	4500	2760	5750	80	1475 ¹⁾	1775 ¹⁾
Duplex	3000	1960	4260	700	1500	1800
	3295	2105	4560	845	1500	1800
	3700	2365	4960	1196	1500	1800
	4030	2550	5300	1290	1500	1800
Triplex	3710	1760	4970	500	1500	1800
	4010	1860	5300	600	1500	1800
	4310	1960	5600	700	1500	1800 ¹⁾
	4750	2105	6050	845	1425 ¹⁾	1200 ¹⁾
	5090	2225	6350	965	950 ¹⁾	700 ¹⁾
	5490	2365	6750	1105	550 ¹⁾	375 ¹⁾
	5990	2550	7250	1290	300 ¹⁾	150 ¹⁾

Mast Performance and Capacity

- h1 Height with mast lowered
- h2 Standard free lift
- h3 Standard lift height
- h4 Height with mast raised
- h5 Full free lift
- Q Lifting capacity, rated load
- c Load centre (distance)

¹⁾ Lifting capacity with wide tread drive wheel option.

²⁾ Lifting capacity with wide drive axle option.

EC20N - EC25LN					EC20N	EC25N	EC25EN	EC25LN	
Mast Type	h3	h1	h4	h2/h5	Q @ c = 500mm kg	Q @ c = 500mm kg	Q @ c = 500mm kg	Q @ c = 600mm kg	
	mm	mm	mm	mm					
Simplex	2570	1755	3840	90	2000	2500	2500	2500	
	2750	1835	4020	90	2000	2500	2500	2500	
	3000	1960	4270	90	2000	2500	2500	2500	
	3300	2110	4570	90	2000	2500	2500	2500	
	3740	2375	5050	90	2000	2500	2500	2500	
	4100	2560	5400	90	2000 ¹⁾	2500	2500	2500	
	4500	2770	5800	90	2000 ¹⁾	2500	2500	2500	
	5000	3020	6300	90	1975 ¹⁾	2475	2475	2475	
	Duplex	3000	1960	4270	695	2000	2500	2500	2500
		3300	2110	4570	845	2000	2500	2500	2500
3700		2375	4970	1105	2000	2500	2500	2500	
4020		2560	5300	1290	2000	2500	2500	2500	
Triplex	3730	1770	4990	515	2000	2500	2500	2500	
	4030	1870	5300	615	2000	2500	2500	2500	
	4300	1960	5600	705	2000	2500	2500	2500	
	4750	2110	6050	855	2000	2500	2500	2500	
	5060	2230	6350	975	1950	2450	2450	2450	
	5500	2375	6800	1120	1875 ¹⁾	2325 ¹⁾	2375 ¹⁾	2375	
	5990	2560	7250	1295	1800 ²⁾	2050 ²⁾	2275 ²⁾	2300 ²⁾	

EC30N					
Mast Type	h3	h1	h4	h2/h5	Q @ c = 500mm kg
	mm	mm	mm	mm	
Simplex	2560	1755	3830	90	3000
	3030	1990	4300	90	3000
	3270	2110	4540	90	3000
	3700	2375	4970	90	3000
	4000	2560	5300	90	3000
	4500	2820	5800	90	3000
	5000	3070	6300	90	3000
Duplex	3000	1980	4270	715	3000
	3250	2110	4520	845	3000
	3700	2375	4970	1110	3000
	4010	2560	5300	1285	3000
Triplex	3690	1770	4960	545	3000
	3990	1870	5300	605	3000
	4320	1990	5600	725	3000
	4700	2110	6000	845	3000
	5060	2230	6350	965	3000
	5450	2375	6750	1110	2925 ²⁾
	5970	2560	7250	1290	2600 ²⁾

Battery Compartment	EC15N	EC18N	EC20N	EC25N	EC25E(L)N	EC30N
Length (min)	mm	708	708	775	775	875
Width (min)	mm	906	906	1003	1003	1003
Height (min)	mm	592	592	592	592	592
Minimum Weight	kg	750-1200	750-1200	1000-1500	1180-1600	1410-1800

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NOTE: Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications, or operating environment. Trucks may be shown with non-standard options. Specific performance requirements and locally available configurations should be discussed with your Cat lift trucks Dealer. Cat Lift Trucks follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

