

Specifications

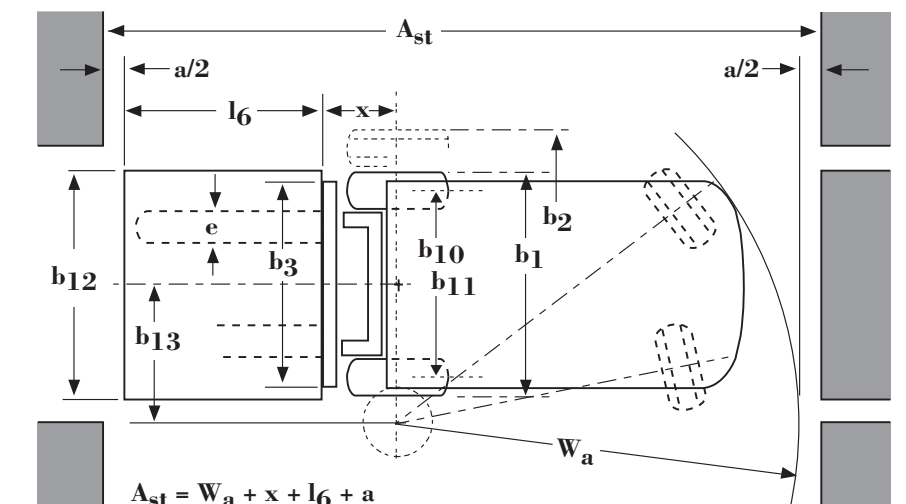
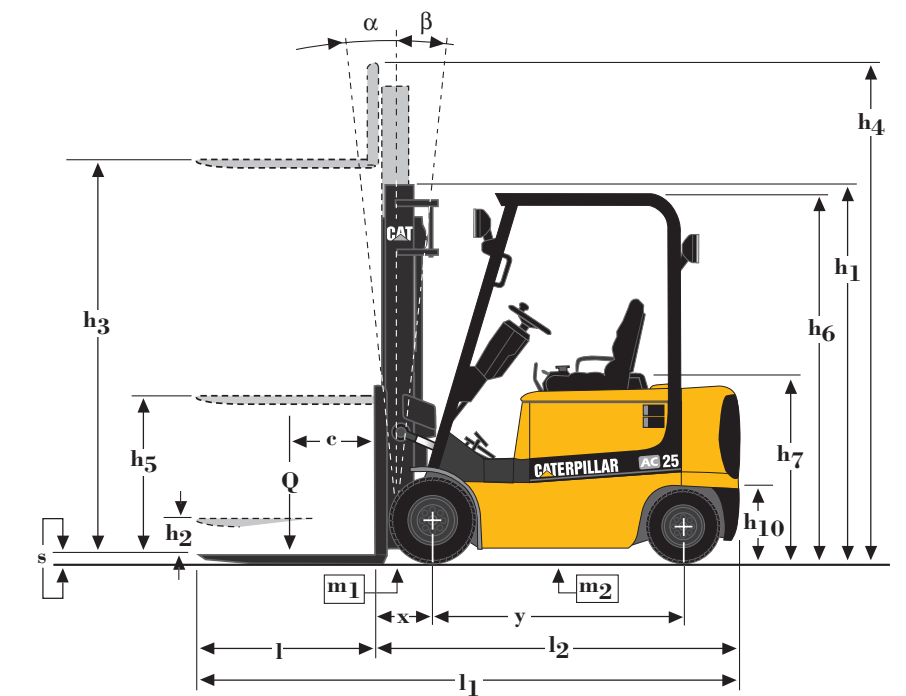
EP20K PAC
EP25K PAC
EP30K PAC
EP35K PAC

CAT[®]
Lift Trucks



4-wheel electric lift trucks
2.0 to 3.5t

Characteristics			Caterpillar	Caterpillar	Caterpillar	Caterpillar
1.1	Manufacturer (abbreviation)		Caterpillar	Caterpillar	Caterpillar	Caterpillar
1.2	Manufacturer's model designation		EP20K PAC	EP25K PAC	EP30K PAC	EP35K PAC
1.3	Power source: (battery, diesel, LP gas, petrol)		Battery	Battery	Battery	Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated		Driver seated	Driver seated	Driver seated	Driver seated
1.5	Lifting capacity	Q (t)	2.0	2.5	3.0	3.5
1.6	At load centre	c (mm)	500	500	500	500
1.8	Load distance	x (mm)	426	426	490	490
1.9	Wheelbase	y (mm)	1520	1520	1690	1690
Weight						
2.1	Truck weight, without load / including battery	kg	4163	4378	4941	5375
2.2	Axle loading with rated load, front/rear	kg	5263 / 900	6190 / 688	7360 / 580	8164 / 711
2.3	Axle loading without load, front/rear	kg	2046 / 2117	2164 / 2214	2595 / 2346	2604 / 2771
Wheels, Drive Train						
3.1	Tyre type: V=solid, L=pneumatic, SE=solid pneumatic - front/rear		SE / SE	SE / SE	SE / SE	SE / SE
3.2	Tyre dimensions, front		23x9-10	23x9-10	28x9-15	250-15
3.3	Tyre dimensions, rear		18x7-8	18x7-8	18x7-8	18x7-8
3.5	Number of wheels, front/rear (x=driven)		2x / 2	2x / 2	2x / 2	2x / 2
3.6	Distance between centreline of tyres, front	b10 (mm)	990	990	990	990
3.7	Distance between centreline of tyres, rear	b11 (mm)	898	898	898	898
Dimensions						
4.1	Mast tilt, forwards/backwards	∂/β °	6/8	6/8	6/8	6/8
4.2	Height with mast lowered	h1 (mm)	2200	2200	2160	2280
4.3	Standard free lift	h2 (mm)	140	140	145	145
4.4	Standard lift height	h3 (mm)	3300	3300	3270	3300
4.5	Overall height with mast raised	h4 (mm)	4360	4360	4330	4340
4.7	Height to top of overhead guard	h6 (mm)	2200	2200	2250	2260
4.8	Seat height	h7 (mm)	1110	1110	1160	1160
4.12	Tow coupling height	h10 (mm)	-	-	-	-
4.19	Overall length	l1 (mm)	3319	3344	3592	3647
4.20	Length to fork face (includes fork thickness)	l2 (mm)	2249	2274	2522	2577
4.21	Overall width	b1/b2 (mm)	1190	1190	1230	1230
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	40x110x1070	40x110x1070	45x125x1070	45x125x1070
4.23	Fork carriage to DIN 15 173 A/B/no		2A	2A	3A	3A
4.24	Fork carriage width	b3 (mm)	1000	1000	1000	1000
4.31	Ground clearance under mast, with load	m1 (mm)	110	110	117	117
4.32	Ground clearance centre of wheelbase, with load	m2 (mm)	120	120	130	130
4.33	Working aisle width with 1000 x1200 mm pallets	Ast (mm)	3580	3600	3870	3920
4.34	Working aisle width with 800 x1200 mm pallets	Ast (mm)	3380	3400	3670	3720
4.35	Turning circle radius	Wa (mm)	1950	1970	2180	2230
4.36	Minimum distance between centres of rotation	b13 (mm)	-	-	-	-
Performance						
5.1	Travel speed, with/without load	km/h	20.0 / 20.0	20.0 / 20.0	20.0 / 20.0	16.5 / 18.0
5.2	Lifting speed, with/without load	m/s	0.55 / 0.65	0.50 / 0.65	0.45 / 0.60	0.40 / 0.55
5.3	Lowering speed, with/without load	m/s	0.50 / 0.50	0.50 / 0.50	0.50 / 0.50	0.50 / 0.50
5.5	Rated drawbar pull, with/without load (60 min short duty)	N	8600 / 8850	8400 / 8900	7500 / 8050	7300 / 8000
5.6	Maximum drawbar pull, with/without load (5 min short duty)	N	12650 / 12750	12200 / 12700	11000 / 11600	10800 / 11500
5.7	Gradeability, with/without load	%	18.7 / 29.4	16.5 / 27.9	12.7 / 22.1	11.1 / 20.1
5.8	Maximum gradeability, with/without load	%	20.9 / 32.9	18.5 / 31.1	14.2 / 24.6	12.5 / 22.4
5.9	Acceleration time, with/without load (0 -10 m)	s	4.1 / 3.6	4.3 / 3.7	5.1 / 4.5	5.2 / 4.6
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Hydraulic	Hydraulic	Hydraulic	Hydraulic
Electric motors						
6.1	Drive motor capacity (60 min. short duty)	kW	14.5	14.5	14.5	14.5
6.2	Lift motor output @ 15% duty factor	kW	20.0	20.0	20.0	20.0
6.3	Battery to DIN 43 531/35/36 A/B/C/no		43.536A	43.536A	43.536A	43.536A
6.4	Battery, voltage/capacity at 5-hour discharge	V /Ah	80 / 600	80 / 600	80 / 750	80 / 750
6.6	Energy consumption according to VDI cycle	kWh/h	1385	1385	1872	1872
Miscellaneous						
8.1	Type of drive control		MOSFET variable	MOSFET variable	MOSFET variable	MOSFET variable
8.2	Operating pressure for attachments	bar	185	185	185	185
8.3	Oil flow for attachments	l/min				
8.4	Noise level, mean value at operator's ear	dB(A)a				
8.5	Towing coupling design / DIN type, ref.					



$$A_{st} = W_a + x + l_6 + a$$

- Ast = Working aisle width with load
- a = Safety clearance (200 mm)
- l6 = Pallet length (800 or 1000 mm)
- b12 = Pallet width (1200 mm)

Powerful and energy efficient

- Ideal for gradients and applications where the speed and power of an IC engine truck is needed.
- The powerful AC based traction motor is sealed against dust and water splashes and features optimum torque for excellent acceleration, traction, speed and regenerative braking.
- Strong regenerative braking speeds up work cycles, extends battery life and returns energy to the battery. It also reduces heat build-up in the motor and protects components from premature wear, giving better energy efficiency.

functions such as traction, lift and tilt can be fine-tuned to precisely match application needs.

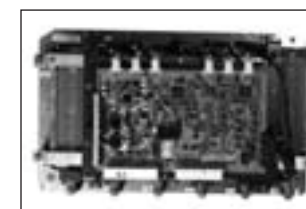
- Proportional controlled hydraulics allow sensitive load handling.
- The panoramic mast and overhead guard afford excellent overall visibility for safe operation and precise load handling.

Ease of service

- An intelligent monitoring system allows the operator to monitor all major truck functions during normal operation and helps ensure that the truck is serviced in a timely manner.
- The self-diagnostic routine enables the service engineer to verify proper operation of main systems, components and truck performance settings.

Comfort, visibility and control

- Programmable MOSFET controller features five pre-set operating modes,



Caterpillar, your partner in materials handling



Mast Type	EP20K-EP25K PAC				EP20K PAC	EP25K PAC
	h3 mm	h1 mm	h4 ¹⁾ mm	h2 / h5 ³⁾ mm	Q @ c = 500 mm kg	Q @ c = 500 mm kg
Simplex	2000 ¹⁾	1495	3055	100	2000	2500
	2570 ¹⁾	1790	3625	100	2000	2500
	3000 ¹⁾	1995	4055	100	2000	2500
	3300 ¹⁾	2145	4355	100	2000	2500
	3740	2410	4795	100	2000	2500
	4100	2590	5155	100	2000	2500
	4500	2800	5555	100	2000	2475
	5000	3050	6055	100	2000	2400
	5500	3300	6555	100	1975	2300
6000	3550	7055	100	1700	1850	
Duplex	3000 ¹⁾	1995	4055	940	2000	2500
	3300 ¹⁾	2145	4355	1090	2000	2500
	3700	2410	4755	1355	2000	2500
	4020	2590	5075	1535	2000	2500
Triplex	3730 ¹⁾	1805	4785	750	2000	2500
	4030 ¹⁾	1905	5085	850	2000	2500
	4300 ¹⁾	1995	5355	940	2000	2500
	4750 ¹⁾	2145	5805	1090	2000	2400
	5060	2265	6115	1210	2000	2325
	5500	2410	6555	1355	1950	2250
	5990	2590	7045	1535	1850	2075
6500	2850	7555	1795	1525	1675	
7000	3050	8055	1995	1200	1350	

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)

Battery Compartment	EP20K PAC	EP25K PAC	EP30K PAC	EP35K PAC
Length (min)	mm 718	718	863	863
Width (min)	mm 1035	1035	1035	1035
Height (min)	mm 784	784	784	784
Minimum Weight	kg 1385	1385	1872	1872

Mast Type	EP30K PAC					EP35K PAC				
	h3 mm	h1 mm	h4 ¹⁾ mm	h2 / h5 ³⁾ mm	Q @ c = 500 mm kg	h3 mm	h1 mm	h4 ¹⁾ mm	h2 / h5 ³⁾ mm	Q @ c = 500 mm kg
Simplex	2000 ¹⁾	1530	3055	100	3000	2000 ¹⁾	1460	3055	100	3500
	2560 ¹⁾	1810	3615	100	3000	2570 ¹⁾	1740	3625	100	3500
	3030 ¹⁾	2045	4085	100	3000	3000 ¹⁾	2180	4055	100	3500
	3270 ¹⁾	2165	4325	100	3000	3300 ¹⁾	2300	4355	100	3500
	3700	2430	4755	100	3000	3720	2510	4775	100	3500
	4000	2610	5055	100	3000	4000	2765	5055	100	3500
	4500	2870	5555	100	2900	4500	3010	5555	100	3425
	5000	3120	6055	100	2800	5000	3260	6055	100	3300
	5500	3370	6555	100	2700	5500	3510	6555	100	3200
6000	3635	7055	100	2600	6000	3760	7055	100	2875	
Duplex	3000 ¹⁾	2035	4055	980	3000	3010 ¹⁾	2180	4065	1125	3500
	3250 ¹⁾	2165	4305	1110	3000	3300 ¹⁾	2300	4355	1245	3500
	3700	2430	4755	1375	3000	3720	2625	4775	1570	3500
	4010	2610	5065	1555	3000	4000	2765	5055	1710	3500
Triplex	3690 ¹⁾	1825	4745	770	3000	3730 ¹⁾	1940	4785	885	3500
	3990 ¹⁾	1925	5045	870	3000	4010 ¹⁾	2060	5065	1005	3500
	4320 ¹⁾	2045	5375	990	2900	4390 ¹⁾	2180	5445	1125	3425
	4700 ¹⁾	2165	5755	1110	2825	4700 ¹⁾	2300	5755	1245	3350
	5060	2285	6115	1230	2750	5030	2445	6085	1390	3275
	5450	2430	6505	1375	2675	5580	2625	6635	1570	3150
	5970	2610	7025	1555	2575	6000	2765	7055	1710	3050
	6470	2870	7525	1815	2475	6510	2940	7565	1885	2725
7000	3070	8055	2015	2000	7000	3135	8055	2080	2100	

- ¹⁾ The h4 dimensions of the simplex mast without load backrest will differ from the table, please consult your dealer for detailed information.
- ²⁾ The h4 dimensions of the duplex/triplex mast without load backrest will differ from the table, please consult your dealer for detailed information.
- ³⁾ The h5 dimensions of the duplex/triplex mast without load backrest will differ from the table, please consult your dealer for detailed information.
- ⁴⁾ Masts with h1 lower than Overhead Guard Height



catliftruck@mcfe.nl
www.catliftruck.com

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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 Caterpillar Lift Truck Dealer. Caterpillar follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.