



EP40C 2 - EP40 2 - EP45C 2 - EP45 2

EP50 2 - EP40S 2 - EP50S 2

Specifications

Electric powered lift trucks

4.0 - 5.0 tonnes



Characteristics			Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
1.1	Manufacturer (abbreviation)		EP40C 2	EP40 2	EP45C 2
1.2	Manufacturer's model designation		Electric	Electric	Electric
1.3	Power source: (battery, diesel, LP gas, petrol)		Seated	Seated	Seated
1.4	Operator type: pedestrian, (operator)-standing, -seated		4000	4000	4500
1.5	Load capacity	Q (kg)	500	500	500
1.6	Load centre distance	c (mm)	510'	510'	510'
1.8	Load distance, axle to fork face	x (mm)	1856	2000	1856
1.9	Wheelbase	y (mm)			
Weight					
2.1	Truck weight, without load / including battery (simplex mast, lowest lift height)	kg	6726	6701	7186
2.2	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)	kg	9730/996	9726/975	10608/1078
2.3	Axle loading without load, front/rear (simplex mast, lowest lift height)	kg	3553/3173	3706/2995	3659/3527
Wheels, Drive Train					
3.1	Tyres: V= Solid, L= pneumatic, SE= solid pneumatic - front/rear		SE / SE	SE / SE	SE / SE
3.2	Tyre dimensions, front	(mm)	250-15	250-15	28x12.5-15
3.3	Tyre dimensions, rear	(mm)	21 x 8-9	21 x 8-9	21 x 8-9
3.5	Number of wheels, front/rear (x=driven)		2x/2	2x/2	2x/2
3.6	Track width (centre of tyres), front	b10 (mm)	1115	1115	1155
3.7	Track width (centre of tyres), rear	b11 (mm)	950	950	950
Dimensions					
4.1	Mast tilt, forwards/backwards	α/β °	6/8	6/8	6/8
4.2	Height with mast lowered (see tables)	h1 (mm)	2300	2300	2286
4.3	Free lift (see tables)	h2 (mm)	150	150	150
4.4	Lift height (see tables)	h3 (mm)	3000	3000	3000
4.5	Overall height with mast raised	h4 (mm)	3676	3676	3660
4.7	Height to top of overhead guard	h6 (mm)	2365	2365	2350
4.8	Seat height	h7 (mm)	1313	1313	1303
4.12	Tow coupling height (higher/lower)	h10 (mm)	566 / 396	566 / 396	566 / 396
4.19	Overall length	l1 (mm)	3818	3952	3818
4.20	Length to fork face (includes fork thickness) *	l2 (mm)	2668	2812	2668
4.21	Overall width	b1/b2 (mm)	1340	1340	1450
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	50x125x1150	50x125x1150	50x150x1150
4.23	Fork carriage to DIN 15 173, A/B/no		3A	3A	3A
4.24	Fork carriage width	b3 (mm)	1260	1260	1260
4.31	Ground clearance under mast, with load	m1 (mm)	136	136	122
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)	m2 (mm)	150	150	140
4.33	Working aisle width with 1000 x1200 mm pallets, crosswise	Ast (mm)	3994	4160	3994
4.34a	Working aisle width with 800 x1200 mm pallets, lengthwise	Ast (mm)	4194	4360	4194
4.35	Turning circle radius	Wa (mm)	2284	2450	2284
4.36	Minimum distance between centres of rotation	b13 (mm)	660	721	660
Performance					
5.1	Travel speed, with/without load, eco mode	km/h	14 / 16	14 / 16	14 / 15.5
5.1.1	Travel speed, with/without load, pro mode	km/h	15 / 17	15 / 17	15 / 16.5
5.2	Lifting speed, with/without load, eco mode	m/s	0.31 / 0.43	0.31 / 0.43	0.30 / 0.41
5.2.1	Lifting speed, with/without load, pro mode	m/s	0.35 / 0.5	0.35 / 0.5	0.33 / 0.45
5.3	Lowering speed, with/without load, eco mode	m/s	0.54 / 0.46	0.54 / 0.46	0.52 / 0.47
5.3.1	Lowering speed, with/without load, pro mode	m/s	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5
5.5	Rated drawbar pull, with/without load, eco mode	N	5100 / 5600	5100 / 5600	4900 / 5500
5.5.1	Rated drawbar pull, with/without load, pro mode	N	5100 / 5600	5100 / 5600	4900 / 5500
5.6	Maximum drawbar pull, with/without load (5 min short duty), eco mode	N	14600 / 14900	14600 / 14900	14500 / 14800
5.6.1	Maximum drawbar pull, with/without load (5 min short duty), pro mode	N	14600 / 14900	14600 / 14900	14500 / 14800
5.7	Gradeability, with/without load, eco mode	%	9.3 / 15.4	9.3 / 15.4	8.1 / 13.5
5.7.1	Gradeability, with/without load, pro mode	%	10.8 / 17.7	10.8 / 17.7	9.4 / 15.8
5.8	Maximum gradeability, with/without load, eco mode	%	14.1 / 22.3	14.1 / 22.3	12.5 / 20.4
5.8.1	Maximum gradeability, with/without load, pro mode	%	15.4 / 26.1	15.4 / 26.1	13.7 / 23.9
5.9	Acceleration time (10 metres) with/without load, eco mode	s	5,2 / 4,4	5,2 / 4,4	5,7 / 4,8
5.9.1	Acceleration time (10 metres) with/without load, pro mode	s	5 / 4,4	5 / 4,4	5,5 / 4,8
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Electric	Electric	Electric
Electric Motors					
6.1	Drive motor capacity (60 min. short duty), eco/pro mode	kW	14.5 / 18.0	14.5 / 18.0	14.5 / 18.0
6.2	Lift motor output at 15% duty factor, eco/pro mode	kW	20 / 24	20 / 24	20 / 24
6.3	Battery to DIN 43531/35/36 A/B/C/no		A 43536	A 43536	A 43536
6.4	Battery voltage/capacity at 5-hour discharge	V/Ah	80 / 775	80 / 930	80 / 775
6.5	Battery weight	kg	1863	2178	1863
6.6	Energy consumption according to VDI 60 cycle	kWh/h	11	11	12.1
Miscellaneous					
8.1	Type of drive control		Impulse / AC	Impulse / AC	Impulse / AC
8.2	Maximum operating pressure for attachments	bar	200	200	200
8.3	Oil flow for attachments	l/min	30	30	30
8.4	Noise level, value at operator's ear (EN 12053)	dB(A)	<70	<70	<70
8.5	Towing coupling design / DIN type, ref.		15170 / H	15170 / H	15170 / H

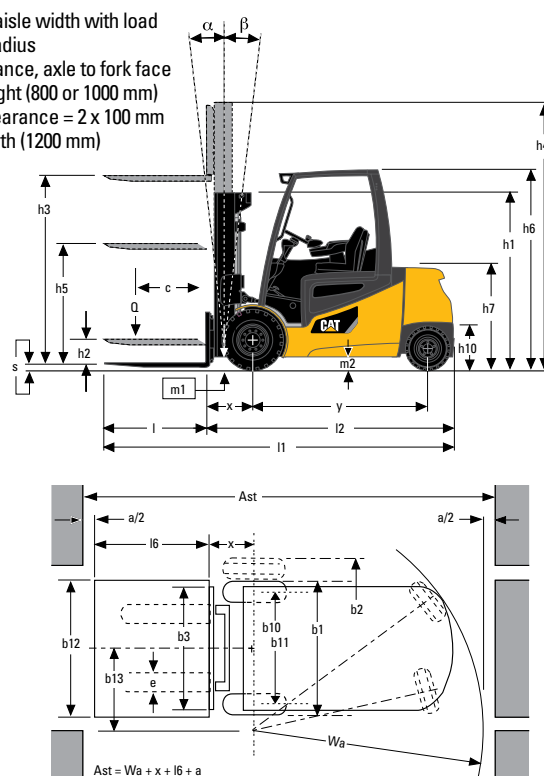


	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
	EP45 2	EP50 2	EP40S 2	EP50S 2
	Electric	Electric	Electric	Electric
	Seated	Seated	Seated	Seated
	4500	4990	4000	5000
	500	500	600	600
	510 ¹	510 ¹	510 ¹	510 ¹
	2000	2000	2080	2080
	7161	7549	7176	8036
	10549/1112	11282/1257	10025/1151	11677/1359
	3777/3385	3772/3777	3891/3285	3932/4104
	SE / SE	SE / SE	SE / SE	SE / SE
	28x12.5-15	28x12.5-15	28x12.5-15	28x12.5-15
	21 x 8-9	21 x 8-9	23 x 10-12	23 x 10-12
	2x/2	2x/2	2x/2	2x/2
	1155	1155	1155	1155
	950	950	1200	1200
	6/8	6/8	6/8	6/8
	2286	2286	2286	2287
	150	150	150	150
	3000	3000	3000	3000
	3660	3810	3810	3810
	2350	2350	2350	2350
	1303	1303	1303	1303
	566 / 396	566 / 396	566 / 396	566 / 396
	3962	3952	4102	4102
	2812	2812	2952	2952
	1450	1450	1450	1450
	50x150x1150	50x150x1150	50x150x1150	60x150x1150
	3A	3A	3A	4A
	1260	1260	1260	1260
	122	122	122	122
	140	140	150	150
	4160	4160	4347	4347
	4360	4360	4547	4547
	2450	2450	2637	2637
	721	721	673	673
	14 / 15.5	14 / 15	14 / 15.5	13.5 / 14.5
	15 / 16.5	15 / 16	15 / 16.5	14.5 / 15.5
	0.30 / 0.41	0.28 / 0.41	0.30 / 0.41	0.27 / 0.40
	0.33 / 0.45	0.33 / 0.45	0.33 / 0.45	0.31 / 0.45
	0.52 / 0.47	0.52 / 0.47	0.52 / 0.47	0.51 / 0.5
	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5
	4900 / 5500	4800 / 5400	4900 / 5500	4700 / 5300
	4900 / 5500	4800 / 5400	4900 / 5500	4700 / 5300
	14500 / 14800	14400 / 14700	14500 / 14800	14400 / 14700
	14500 / 14800	14400 / 14700	14500 / 14800	14400 / 14700
	8.1 / 13.5	7.5 / 13.5	8.1 / 13.5	7.1 / 12.7
	9.4 / 15.8	8.8 / 15.8	9.4 / 15.8	8.4 / 15
	12.5 / 20.4	12.1 / 20.0	12.5 / 20.4	11.4 / 18.9
	13.7 / 23.9	13.2 / 23.4	13.7 / 23.4	12.5 / 22.2
	5,7 / 4,8	6,0 / 5,2	5,7 / 4,8	6,4 / 5,5
	5,5 / 4,8	5,8 / 5,2	5,5 / 4,8	6,1 / 5,5
	Electric	Electric	Electric	Electric
	14.5 / 18.0	14.5 / 18.0	14.5 / 18.0	14.5 / 18.0
	20 / 24	20 / 24	20 / 24	20 / 24
	A 43536	A 43536	A 43536	A 43536
	80 / 930	80 / 930	80 / 930	80 / 930
	2178	2178	2178	2178
	12.1	<12.5	<12.5	13.15
	Impulse / AC	Impulse / AC	Impulse / AC	Impulse / AC
	200	200	200	200
	30	30	30	30
	<70	<70	<70	<70
	15170 / H	15170 / H	15170 / H	15170 / H

¹ Additional (+) 31 mm with Triplex mast type.

* This specification sheet provides details of the standard truck specification in accordance with VDI Guideline 2198.

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

- Compact component layout minimises material costs and increases efficiency.
- Premium display ensures operator awareness of truck status, through clear, simple, informative readouts, encouraging correct use and maintenance.

Unmatched Productivity

- Intelligent design reduces energy consumption by up to 25%, allowing non-stop operation and extended shifts.
- The industry's most advanced AC control system delivers smooth, precise operation and minimises the risk of operator error.
- ECO and PRO pack options match the truck to its application, providing the appropriate performance-enhancing features and avoiding excessive wear of components.

Safety and Ergonomics

- Ergonomic adapter option for battery installation and locking allows quick, easy and safe exchanges.
- Added operator protection features give automated assistance to the user, including access control, drive and lift control, curve control and an automatic parking brake, for safe, smooth, easy operation.
- Automatic parking brake is applied to hold the truck safely in position, particularly on ramps.
- Drive and lift control smoothly reduces travel speed to a safe level when the forks are elevated.
- Curve control automatically adjusts drive speed, in proportion to the steering angle, for safe cornering.
- Access control prevents use of the truck if the seat belt is not correctly fastened.

Options

- Battery exchange adapter.
- ECO and PRO packs.

Cat® Lift Trucks.

Your partner in materials handling.

EP40S 2 / EP50 2					EP40S 2	EP50 2	
Mast Type	h3	h1	h4	h2 / h5	Q@c=600mm kg	Q@c=500mm kg	
	mm	mm	mm	mm			
Simplex	2750 ¹	2165	3608	150	4000	4990	
	3000 ¹	2290	3858	150	4000	4990	
	3100 ¹	2348	3958	150	4000	4990	
	3300 ¹	2440	4158	150	4000	4990	
	3500	2548	4358	150	4000	4990	
	3700	2640	4558	150	4000	4990	
	4000	2795	4858	150	4000	4990	
	4300	2940	5158	150	4000	4990	
	4500 ¹	3040	5358	150	4000	4990	
	5000	3290	5858	150	4000	4990	
	5500	3540	6358	150	4000	4990	
	6000	3790	6858	150	3700	4600	
	6500	4040	7358	150	-	-	
	Duplex	2775 ¹	2140	3683	1232	4000	4990
		3142 ¹	2323	4050	1415	4000	4990
3342 ¹		2423	4250	1515	4000	4990	
3542		2523	4450	1615	4000	4990	
3675		2590	4583	1682	4000	4990	
4035		2770	4943	1862	4000	4990	
4395 ¹		2950	5303	2042	4000	4990	
5095		3300	6003	2392	4000	4990	
5524		3515	6432	2607	-	-	
7500		4040	7358	150	-	-	
Triplex	4150 ¹	2140	5058	1232	4000	4990	
	4400 ¹	2223	5308	1315	4000	4990	
	4700 ¹	2323	5608	1415	4000	4990	
	4850 ¹	2373	5758	1465	4000	4990	
	5000 ¹	2423	5908	1515	4000	4990	
	5300	2523	6208	1615	4000	4990	
	5500	2590	6408	1682	4000	4990	
	6000	2770	6908	1862	3750	4440	
	6500 ¹	2950	7408	2042	3500	3890	
	7000 ¹	3120	7908	2212	3280	3340	
	7500	3300	8408	2392	-	-	

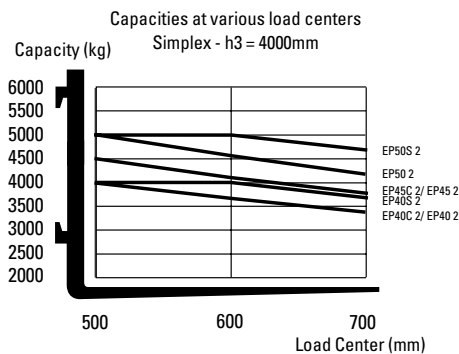
EP40C 2 / EP40 2 / EP45C 2 / EP45 2					EP40C 2 / EP40 2	EP45C 2 / EP45 2	
Mast Type	h3	h1	h4	h2 / h5	Q@c=500mm kg	Q@c=500mm kg	
	mm	mm	mm	mm			
Simplex	2750 ¹	2165	3465	150	4000	4500	
	3000 ¹	2290	3715	150	4000	4500	
	3100 ¹	2348	3823	150	4000	4500	
	3300 ¹	2440	4015	150	4000	4500	
	3500	2548	4223	150	4000	4500	
	3700	2640	4415	150	4000	4500	
	4000	2795	4720	150	4000	4500	
	4300	2940	5015	150	4000	4500	
	4500 ¹	3040	5215	150	4000	4500	
	5000	3290	5715	150	4000	4500	
	5500	3540	6215	150	4000	4500	
	6000	3790	6715	150	3700	-	
	6500	4040	7215	150	-	-	
	Duplex	2775 ¹	2140	3533	1382	4000	4500
		3142 ¹	2323	3900	1565	4000	4500
3342 ¹		2423	4100	1665	4000	4500	
3542		2523	4300	1765	4000	4500	
3675		2590	4433	1832	4000	4500	
4035		2770	4793	2012	4000	4500	
4395 ¹		2950	5153	2192	4000	4500	
5095		3300	5853	2542	4000	4500	
5524		3515	6282	2757	-	-	
7500		4040	7215	150	-	-	
Triplex	4150 ¹	2140	4908	1382	4000	4500	
	4400 ¹	2223	5158	1465	4000	4500	
	4700 ¹	2323	5458	1565	4000	4500	
	4850 ¹	2373	5608	1615	4000	4500	
	5000 ¹	2423	5758	1665	4000	4500	
	5300	2523	6058	1765	4000	4500	
	5500	2590	6258	1832	4000	4500	
	6000	2770	6758	2012	3750	4220	
	6500 ¹	2950	7280	2170	3500	3890	
	7000 ¹	3120	7770	2350	3280	3380	
	7500	3300	8310	2490	3050	2870	

EP50S 2						
Mast Type	h3	h1	h4	h2 / h5	Q@c=600mm kg	
	mm	mm	mm	mm		
Simplex	2480 ¹	2165	3453	150	5000	
	2846 ¹	2348	3819	150	5000	
	3030 ¹	2440	4003	150	5000	
	3246	2548	4219	150	5000	
	3430	2640	4403	150	5000	
	3740	2795	4713	150	5000	
	4030	2940	5003	150	5000	
	4230 ¹	3040	5203	150	5000	
	4730	3290	5703	150	5000	
	5230	3540	6203	150	5000	
	5730	3790	6703	150	-	
	6230	4040	7203	150	-	
	Duplex	2570 ¹	2140	3593	1117	5000
		2932 ¹	2323	3955	1300	5000
		3132	2423	4155	1400	5000
3332		2523	4355	1500	5000	
3465		2590	4488	1567	5000	
3825		2770	4848	1747	5000	
4185 ¹		2950	5208	1927	5000	
4885		3300	5908	2277	5000	
5314		3515	6337	2492	-	
7320		4040	7203	150	-	
Triplex	3875 ¹	2140	4898	1117	5000	
	4120 ¹	2223	5143	1200	5000	
	4420 ¹	2323	5443	1300	5000	
	4720	2423	5743	1400	5000	
	5020	2523	6043	1500	5000	
	5220	2590	6243	1567	5000	
	5750	2770	6773	1747	4760	
	6280 ¹	2950	7303	1927	4450	
	6780 ¹	3120	7803	2097	4250	
	7320	3300	8343	2277	-	

1) Mast not available in combination with 300mm raised operator position, option TP/HI.

Mast Performance and Capacity

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



Battery Compartment		EP40C 2 / EP45C 2
Length (min)	mm	1028
Width (min)	mm	855
Height (min)	mm	784
Minimum Weight	kg	1863

Battery Compartment		EP40 2/45 2/50 2 / EP40S 2/EP50S 2
Length (min)	mm	1028
Width (min)	mm	999
Height (min)	mm	784
Minimum Weight	kg	2178

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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.

