

Cat® Lift Trucks.

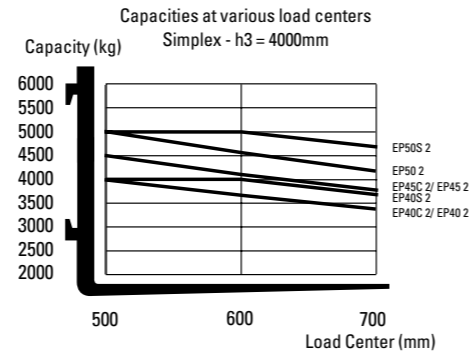
Your partner in materials handling.

EP40C 2/EP40 2					
Mast Type	h3	h1	h4	h2 / h5	Q @ c = 500mm kg
	mm	mm	mm	mm	
Simplex	2750	2125	3425	150	4000
	3000	2250	3675	150	4000
	3500	2500	4175	150	4000
	4000	2750	4675	150	4000
	4500	3000	5175	150	4000
	5000	3250	5675	150	4000
	5500	3500	6175	150	3850
	6000	3750	6675	150	3700
Duplex	6500	4000	7175	150	n/a
	2775	2100	3495	1380	4000
	3025	2225	3745	1505	4000
	3525	2475	4245	1755	4000
	4025	2725	4745	2005	4000
	4525	2975	5245	2255	4000
Triplex	5025	3225	5745	2505	n/a
	5525	3475	6245	2755	n/a
	4150	2100	4870	1380	4000
	4855	2335	5575	1615	3920
	5275	2475	5995	1755	3890
	5650	2600	6370	1880	3750
Triplex	6400	2850	7120	2130	3550
	7180	3110	7900	2390	3200

EP45C 2/EP45 2					
Mast Type	h3	h1	h4	h2 / h5	Q @ c = 500mm kg
	mm	mm	mm	mm	
Simplex	2750	2125	3410	150	4500
	3000	2250	3660	150	4500
	3500	2500	4160	150	4500
	4000	2750	4660	150	4500
	4500	3000	5160	150	4500
	5000	3250	5660	150	4500
	5500	3500	6160	150	4100
	6000	3750	6660	150	n/a
Duplex	6500	4000	7160	150	n/a
	2775	2100	3480	1380	4500
	3025	2225	3730	1505	4500
	3525	2475	4230	1755	4500
	4025	2725	4730	2005	4500
	4525	2975	5230	2255	4500
Triplex	5025	3225	5730	2505	n/a
	5525	3475	6230	2755	n/a
	4150	2100	4855	1380	4500
	4855	2335	5560	1615	4420
	5275	2475	5980	1755	4300
	5650	2600	6355	1880	4200
Triplex	6400	2850	7105	2130	4000
	7180	3110	7885	2390	3200

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)



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	2125	3560	150	4000	4990			
	3000	2250	3810	150	4000	4990			
	3500	2500	4310	150	4000	4990			
	4000	2750	4810	150	4000	4990			
	4500	3000	5310	150	4000	4990			
	5000	3250	5810	150	4000	4900			
	5500	3500	6310	150	3850	4800			
	6000	3750	6810	150	3700	4600			
Duplex	6500	4000	7310	150	n/a	n/a			
	2775	2100	3630	1230	4000	4990			
	3025	2225	3880	1355	4000	4990			
	3525	2475	4380	1605	4000	4990			
	4025	2725	4880	1855	4000	4990			
	4525	2975	5380	2105	4000	4990			
Triplex	5025	3225	5880	2355	n/a	n/a			
	5525	3475	6380	2605	n/a	n/a			
	4150	2100	5005	1230	4000	4990			
	4855	2335	5710	1465	3920	4990			
	5275	2475	6130	1605	3890	4750			
	5650	2600	6505	1730	3750	4610			
Triplex	6400	2850	7255	1980	3550	4300			
	7180	3110	8035	2240	3200	4000			

EP50S 2					
Mast Type	h3	h1	h4	h2 / h5	Q @ c = 600mm kg
	mm	mm	mm	mm	
Simplex	2750	2125	3575	150	5000
	3000	2250	3825	150	5000
	3500	2500	4325	150	5000
	4000	2750	4825	150	5000
	4500	3000	5325	150	5000
	5000	3250	5825	150	5000
	5500	3500	6325	150	n/a
	6000	3750	6825	150	n/a
Duplex	6500	4000	7325	150	n/a
	2725	2100	3600	1225	5000
	2975	2225	3845	1350	5000
	3475	2475	4345	1600	5000
	3975	2725	4845	1850	5000
	4475	2975	5345	2100	5000
Triplex	4975	3225	5845	2350	5000
	5475	3475	6345	2600	n/a
	3930	2060	4805	1185	5000
	4050	2100	4925	1225	5000
	4425	2225	5295	1350	5000
	5175	2475	6045	1600	5000
	5550	2600	6425	1725	n/a
	5925	2725	6795	1850	n/a
Triplex	6200	2815	7075	1940	n/a
	6675	2975	7545	2100	n/a

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	



EP40C 2 - EP40 2 - EP45C 2 - EP45 2

EP50 2 - EP40S 2 - EP50S 2

Preliminary Specifications

Electric powered lift trucks

4.0 - 5.0 tonnes

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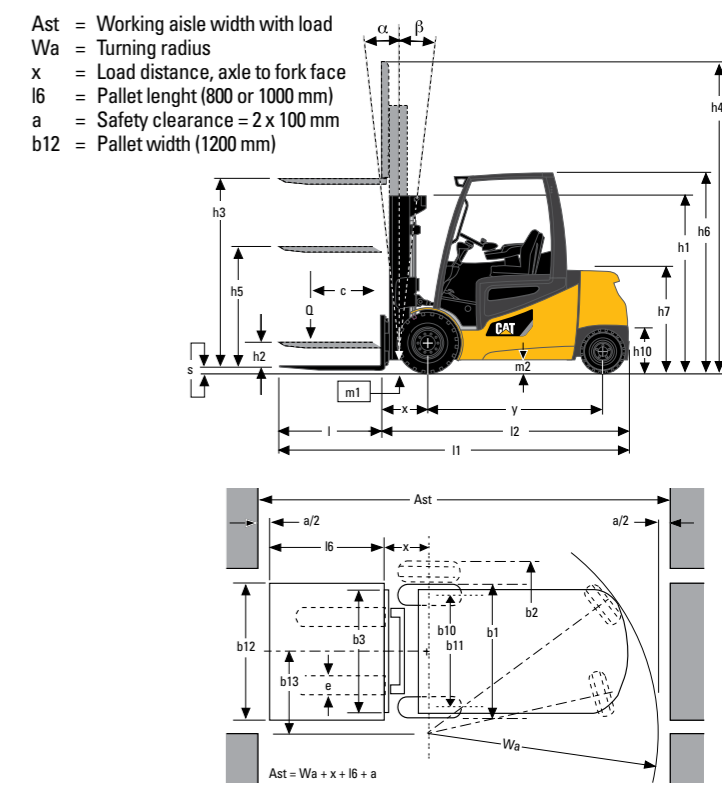
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NOTE: Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications, or operating environment. Trucks may be shown with non-standard options. Specific 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.



Characteristics			Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
1.01	Manufacturer (abbreviation)		EP40C 2	EP40 2	EP45C 2	EP45 2	EP50 2	EP40S 2	EP50S 2
1.02	Manufacturer's model designation		Electric	Electric	Electric	Electric	Electric	Electric	Electric
1.03	Power source: (battery, diesel, LP gas, petrol)		Seated	Seated	Seated	Seated	Seated	Seated	Seated
1.04	Operator type: pedestrian, (operator)-standing, -seated		Q (kg)	4000	4000	4500	4500	4990	4000
1.05	Load capacity		c (mm)	500	500	500	500	600	600
1.06	Load centre distance		x (mm)	510 ¹	510 ¹	510 ¹	510 ¹	510 ¹	510 ¹
1.08	Load distance, axle to fork face		y (mm)	1856	2000	1856	2000	2000	2080
1.09	Wheelbase		Weight						
2.01	Truck weight, without load / including battery (simplex mast, lowest lift height)	kg	6726	6701	7186	7161	7549	7176	8036
2.02	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)	kg	9730/996	9726/975	10608/1078	10549/1112	11282/1257	10025/1151	11677/1359
2.03	Axle loading without load, front/rear (simplex mast, lowest lift height)	kg	3553/3173	3706/2995	3659/3527	3777/3385	3772/3777	3891/3285	3932/4104
Wheels, Drive Train									
3.01	Tyres: V= Solid, L= pneumatic, SE= solid pneumatic - front/rear		SE / SE	SE / SE	SE / SE	SE / SE	SE / SE	SE / SE	SE / SE
3.02	Tyre dimensions, front	(mm)	250-15	250-15	28x12.5-15	28x12.5-15	28x12.5-15	28x12.5-15	28x12.5-15
3.03	Tyre dimensions, rear	(mm)	21 x 8-9	21 x 8-9	21 x 8-9	21 x 8-9	21 x 8-9	23 x 10-12	23 x 10-12
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)	1115	1115	1155	1155	1155	1155	1155
3.07	Track width (centre of tyres), rear	b11 (mm)	950	950	950	950	950	1200	1200
Dimensions									
4.01	Mast tilt, forwards/backwards	α/β °	6/8	6/8	6/8	6/8	6/8	6/8	6/8
4.02	Height with mast lowered (see tables)	h1 (mm)	2300	2300	2286	2286	2286	2286	2287
4.03	Free lift (see tables)	h2 (mm)	150	150	150	150	150	150	150
4.04	Lift height (see tables)	h3 (mm)	3000	3000	3000	3000	3000	3000	3000
4.05	Overall height with mast raised	h4 (mm)	3676	3676	3660	3660	3810	3810	3810
4.07	Height to top of overhead guard	h6 (mm)	2365	2365	2350	2350	2350	2350	2350
4.08	Seat height	h7 (mm)	1313	1313	1303	1303	1303	1303	1303
4.12	Tow coupling height (higher/lower)	h10 (mm)	566 / 396	566 / 396	566 / 396	566 / 396	566 / 396	566 / 396	566 / 396
4.19	Overall length	l1 (mm)	3818	3952	3818	3962	3952	4102	4102
4.20	Length to fork face (includes fork thickness) *	l2 (mm)	2668	2812	2668	2812	2812	2952	2952
4.21	Overall width	b1/b2 (mm)	1340	1340	1450	1450	1450	1450	1450
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	50x125x1150	50x125x1150	50x150x1150	50x150x1150	50x150x1150	50x150x1150	60x150x1150
4.23	Fork carriage to DIN 15 173, A/B/no		3A	3A	3A	3A	3A	3A	4A
4.24	Fork carriage width	b3 (mm)	1260	1260	1260	1260	1260	1260	1260
4.31	Ground clearance under mast, with load	m1 (mm)	136	136	122	122	122	122	122
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)	m2 (mm)	150	150	140	140	140	150	150
4.33	Working aisle width with 1000 x1200 mm pallets, crosswise	Ast (mm)	3965	4160	3965	4160	4160	4379	4379
4.34	Working aisle width with 800 x1200 mm pallets, crosswise	Ast (mm)	4165	4360	4165	4360	4360	4579	4579
4.35	Turning circle radius	Wa (mm)	2284	2450	2284	2450	2450	2637	2637
4.36	Minimum distance between centres of rotation	b13 (mm)	660	721	660	721	721	673	673
Performance									
5.01	Travel speed, with/without load, eco mode	km/h	14 / 16	14 / 16	14 / 15.5	14 / 15.5	14 / 15	14 / 15.5	13.5 / 14.5
5.01.1	Travel speed, with/without load, pro mode	km/h	15 / 17	15 / 17	15 / 16.5	15 / 16.5	15 / 16	15 / 16.5	14.5 / 15.5
5.02	Lifting speed, with/without load, eco mode	m/s	0.31 / 0.43	0.31 / 0.43	0.30 / 0.41	0.30 / 0.41	0.28 / 0.41	0.30 / 0.41	0.27 / 0.40
5.02.1	Lifting speed, with/without load, pro mode	m/s	0.35 / 0.5	0.35 / 0.5	0.33 / 0.45	0.33 / 0.45	0.33 / 0.45	0.33 / 0.45	0.31 / 0.45
5.03	Lowering speed, with/without load, eco mode	m/s	0.54 / 0.46	0.54 / 0.46	0.52 / 0.47	0.52 / 0.47	0.52 / 0.47	0.52 / 0.47	0.51 / 0.5
5.03.1	Lowering speed, with/without load, pro mode	m/s	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5
5.05	Rated drawbar pull, with/without load, eco mode	N	5100 / 5600	5100 / 5600	4900 / 5500	4900 / 5500	4800 / 5400	4900 / 5500	4700 / 5300
5.05.1	Rated drawbar pull, with/without load, pro mode	N	5100 / 5600	5100 / 5600	4900 / 5500	4900 / 5500	4800 / 5400	4900 / 5500	4700 / 5300
5.06	Maximum drawbar pull, with/without load (5 min short duty), eco mode	N	14600 / 14900	14600 / 14900	14500 / 14800	14500 / 14800	14400 / 14700	14500 / 14800	14400 / 14700
5.06.1	Maximum drawbar pull, with/without load (5 min short duty), pro mode	N	14600 / 14900	14600 / 14900	14500 / 14800	14500 / 14800	14400 / 14700	14500 / 14800	14400 / 14700
5.07	Gradeability, with/without load, eco mode	%	9.3 / 15.4	9.3 / 15.4	8.1 / 13.5	8.1 / 13.5	7.5 / 13.5	8.1 / 13.5	7.1 / 12.7
5.07.1	Gradeability, with/without load, pro mode	%	10.8 / 17.7	10.8 / 17.7	9.4 / 15.8	9.4 / 15.8	8.8 / 15.8	9.4 / 15.8	8.4 / 15
5.08	Maximum gradeability, with/without load, eco mode	%	14.1 / 22.3	14.1 / 22.3	12.5 / 20.4	12.5 / 20.4	12.1 / 20.0	12.5 / 20.4	11.4 / 18.9
5.08.1	Maximum gradeability, with/without load, pro mode	%	15.4 / 26.1	15.4 / 26.1	13.7 / 23.9	13.7 / 23.9	13.2 / 23.4	13.7 / 23.4	12.5 / 22.2
5.09	Acceleration time (10 metres) with/without load, eco mode	s	5,2 / 4,4	5,2 / 4,4	5,7 / 4,8	5,7 / 4,8	6,0 / 5,2	5,7 / 4,8	6,4 / 5,5
5.09.1	Acceleration time (10 metres) with/without load, pro mode	s	5 / 4,4	5 / 4,4	5,5 / 4,8	5,5 / 4,8	5,8 / 5,2	5,5 / 4,8	6,1 / 5,5
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Electric	Electric	Electric	Electric	Electric	Electric	Electric
Electric Motors									
6.01	Drive motor capacity (60 min. short duty), eco/pro mode	kW	14.5 / 18.0	14.5 / 18.0	14.5 / 18.0	14.5 / 18.0	14.5 / 18.0	14.5 / 18.0	14.5 / 18.0
6.02	Lift motor output at 15% duty factor, eco/pro mode	kW	20 / 24	20 / 24	20 / 24	20 / 24	20 / 24	20 / 24	20 / 24
6.03	Battery to DIN 43531/35/36 A/B/C/no		A 43536	A 43536	A 43536	A 43536	A 43536	A 43536	A 43536
6.04	Battery voltage/capacity at 5-hour discharge	V/Ah	80 / 775	80 / 930	80 / 775	80 / 930	80 / 930	80 / 930	80 / 930
6.05	Battery weight	kg	1863	2178	1863	2178	2178	2178	2178
6.06	Energy consumption according to VDI 60 cycle	kWh/h	11	11	12.1	12.1	<12.5	<12.5	13.15
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	200	200	200	200	200	200	200
8.03	Oil flow for attachments	l/min	30	30	30	30	30	30	30
8.04	Noise level, value at operator's ear (EN 12053)	dB(A)	<70	<70	<70	<70	<70	<70	<70
8.05	Towing coupling design / DIN type, ref.		15170 / H	15170 / H	15170 / H	15170 / H	15170 / H	15170 / H	15170 / H



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.

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

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

