



EP10KRT PAC - EP15KRT PAC

Specifications

Electric powered lift trucks

3 wheel, 24V, 1.0 - 1.5 tonnes



Characteristics			Cat Lift Trucks EP10KRT PAC	Cat Lift Trucks EP15KRT PAC
1.1	Manufacturer (abbreviation)		Battery	Battery
1.2	Manufacturer's model designation		Seated	Seated
1.3	Power source: (battery, diesel, LPG, petrol)		1000	1500
1.4	Operator type: pedestrian, (operator)-standing, -seated		500	500
1.5	Load capacity	Q (kg)	330	330
1.6	Load centre distance	c (mm)	1125	1200
1.8	Load distance, axle to fork face	x (mm)		
1.9	Wheelbase	y (mm)		
Weight				
2.1	Truck weight, without load / including battery (simplex mast, lowest lift height)	kg	2354	2775
2.2	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)	kg	2857 / 497	3731 / 544
2.3	Axle loading without load, front/rear (simplex mast, lowest lift height)	kg	1119 / 1235	1194 / 1581
Wheels, Drive Train				
3.1	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear		SE/SE	SE/SE
3.2	Tyre dimensions, front		18 x 7-8	18 x 7-8
3.3	Tyre dimensions, rear		18 x 7-8	18 x 7-8
3.5	Number of wheels, front/rear (x=driven)		2/1x	2/1x
3.6	Track width (centre of tyres), front	b10 (mm)	840	840
3.7	Track width (centre of tyres), rear	b11 (mm)	-	-
Dimensions				
4.1	Mast tilt, forwards/backwards	α/β °	5/7	5/7
4.2	Height with mast lowered (see tables)	h1 (mm)	2110	2110
4.3	Free lift (see tables)	h2 (mm)	80	80
4.4	Lift height (see tables)	h3 (mm)	3300	3300
4.5	Overall height with mast raised	h4 (mm)	3895	3895
4.7	Height to top of overhead guard	h6 (mm)	2015(1965)	2015(1965)
4.8	Seat height	h7 (mm)	928	928
4.12	Tow coupling height	h10 (mm)	410	410
4.19	Overall length	l1 (mm)	2500	2575
4.20	Length to fork face (includes fork thickness)	l2 (mm)	1700	1775
4.21	Overall width	b1/b2 (mm)	997	997
4.22	Fork dimensions (thickness, width, length)	s, e, l (mm)	35 x 80 x 800	35 x 80 x 800
4.23	Fork carriage to DIN 15 173 A/B/no		2A	2A
4.24	Fork carriage width	b3 (mm)	920	920
4.31	Ground clearance under mast, with load	m1 (mm)	80	80
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)	m2 (mm)	100	100
4.33	Working aisle width with 1000 x1200 mm pallets, crosswise	Ast (mm)	3030	3104
4.34	Working aisle width with 800 x1200 mm pallets, crosswise	Ast (mm)	2850	2925
4.35	Turning circle radius	Wa (mm)	1370	1445
4.36	Minimum distance between centres of rotation	b13 (mm)	-	-
Performance				
5.1	Travel speed, with/without load	km/h	11.5 / 13.5	11 / 12.5
5.2	Lifting speed, with/without load	m/s	0.29 / 0.48	0.26 / 0.48
5.3	Lowering speed, with/without load	m/s	0.52 / 0.50	0.52 / 0.50
5.5	Rated drawbar pull, with/without load	N	1706 / 1991	1435 / 1876
5.6	Maximum drawbar pull, with/without load	N	5327 / 5621	5056 / 5497
5.7	Gradeability, with/without load	%	9.6 / 15.1	6.9 / 12.3
5.8	Maximum gradeability, with/without load	%	16.4 / 25.1	12.2 / 20.6
5.9	Acceleration time (10 metres) with/without load	s	5.9 / 5.6	6.1 / 5.7
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Hydraulic	Hydraulic
Electric motors				
6.1	Drive motor capacity (60 min. short duty)	kW	5	5
6.2	Lift motor output at 15% duty factor	kW	6.5	6.5
6.3	Battery to DIN 43 531/35/36 A/B/C/no		43 535A	43 535A
6.4	Battery voltage/capacity at 5-hour discharge	V/Ah	24 / 720	24 / 840
6.5	Battery weight	kg	524	600
6.6	Energy consumption according to VDI 60 cycle	kWh/h	-	-
Miscellaneous				
8.1	Type of drive control		Impuls / AC	Impuls / AC
8.2	Maximum operating pressure for attachments	bar	143	143
8.3	Oil flow for attachments	l/min	-	-
8.4	Noise level, value at operator's ear (EN 12053)	dB(A)	60.7	60.7
8.5	Towing coupling design / DIN type, ref.		-	-



$A_{st} = W_a + R + a$

A_{st} = Working aisle width with load

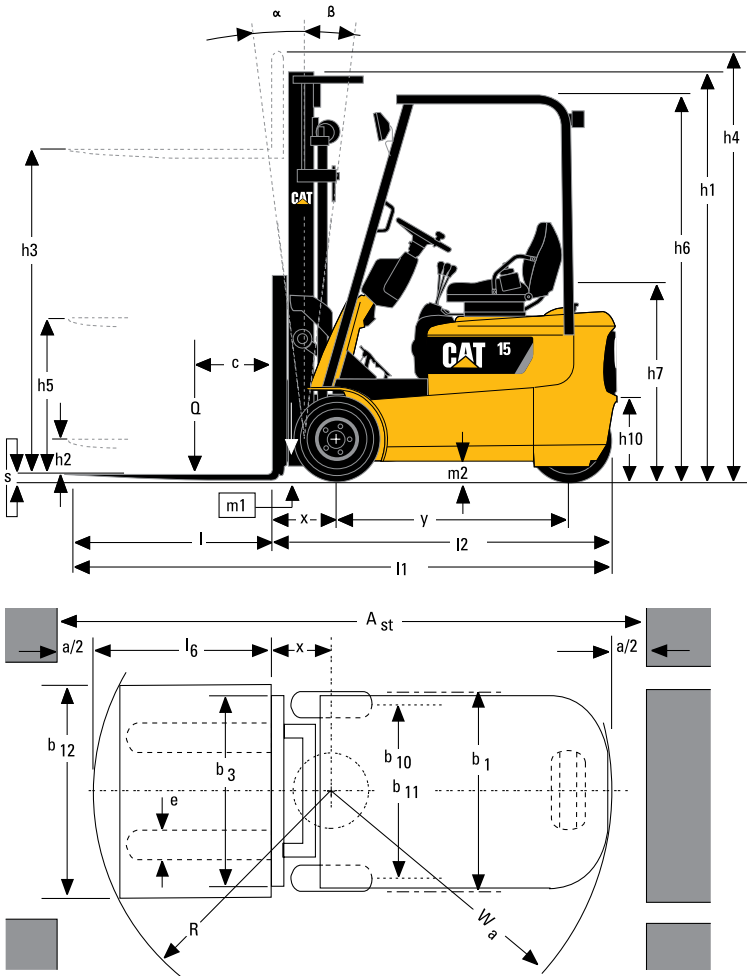
W_a = Turning radius

a = Safety clearance = (2 x 100 mm)

$R = \sqrt{(l_6 + x)^2 + (b_{12} / 2)^2}$

l_6 = Pallet length (800 or 1000 mm)

b_{12} = Pallet width (1200 mm)



Lower Cost of Ownership

- Advanced AC technology provides high torque, faster acceleration, better ramp performance and smooth, quiet, controlled operation.
- MicroCommand AC controller provides optimum performance and energy efficiency.
- The steering on demand function will save energy by only activating the hydraulic motor when necessary.

Unmatched Productivity

- 500 hours service intervals for maximum 'up time'.
- Easy access to all components.
- Programmable diagnostics and performance via the display and PC or laptop.
- Strong regenerative braking speeds up working cycles, extends battery life and reduces brake wear.
- Ergonomically designed operator's compartment features a full suspension seat, adjustable steer column and comfortably placed hydraulic control levers.
- Functional display keeps driver informed of truck hours and state of battery. Also the service engineer can read the truck history from this display.
- Low footstep and well-placed grab handle makes on/off access easy.
- Automotive pedal layout for easy operation.
- Full hydrostatic steering system for effortless manoeuvrability.
- Compact overall chassis dimensions contribute to supreme manoeuvrability in narrow aisles, block stacking or drive-in racking applications.
- Low overall truck height provides generous clearance for sure operation in containers or trailers, or when crossing low doorways.
- Truck can turn within its own dimensions.

Safety and Ergonomics

- High visibility mast and overhead guard.
- Presence Detection System (PDS) prevents operation while driver not seated.
- Backup alarm supplied as standard.

Options

- Amber strobe light.
- Road lights.
- Low overhead guard.
- Wide-tread Tyres.



Cat® Lift Trucks.

Your partner in materials handling.

Mast Type	EP10KRT PAC / EP15KRT PAC				EP10KRT PAC	EP15KRT PAC
	h3 mm	h1 mm	h4 mm	h2/h5 mm	Q @ c = 500mm kg	Q @ c = 500mm kg
Simplex	2000	1460	3045	80	1000	1500
	2560	1740	3605	80	1000	1500
	2760	1840	3805	80	1000	1500
	3000	1960	4045	80	1000	1500
	3290	2105	4335	80	1000	1500
	3720	2365	4765	80	1000	1500
	4090	2550	5135	80	950	1450
	4480	2755	5525	80	950	1400
	5000	3015	6045	80	850	1000 (1350*)
	5500	3265	6545	80	850	950 (1250*)
Duplex	3000	1960	4045	915	1000	1500
	3295	2105	4340	1060	1000	1500
	3700	2365	4745	1320	1000	1500
	4030	2550	5075	1505	950	1450
Triplex	3710	1760	4755	715	1000	1500
	4010	1860	5055	815	950	1450
	4310	1960	5355	915	950	1400
	4750	2105	5795	1060	900	1350
	5090	2225	6135	1180	850	1300
	5490	2365	6535	1320	800	950 (1250*)
	5990	2550	7035	1505	800	950 (1200*)

* Lifting capacity with wide tread option

BATTERY COMPARTMENT		EP10KRT PAC	EP15KRT PAC
Length (min)	mm	830	830
Width (min)	mm	381	435
Height (min)	mm	627	627
Maximum weight	kg	550	630

Cat Lift Trucks is renowned for its worldwide distribution network, but you will always find an experienced and dedicated team of professionals close to you. Individuals committed to helping you maximise profits. With Cat Lift Trucks your investment is in safe hands.

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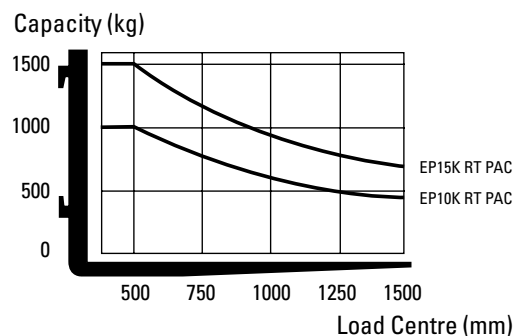
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Mast Performance and Capacity

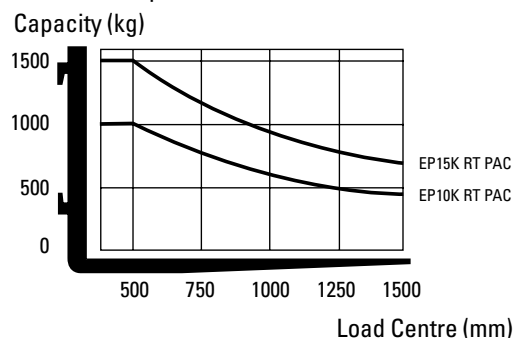
- h1 Height with mast lowered
- h2 Standard free lift
- h3 Lift height
- h4 Height with mast raised
- h5 Full free lift
- Q Lifting capacity, rated load
- c Load centre (distance)

Capacities at various load centres

Simplex - h3 = 3700mm



Triplex - h3 = 3710mm



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.

