

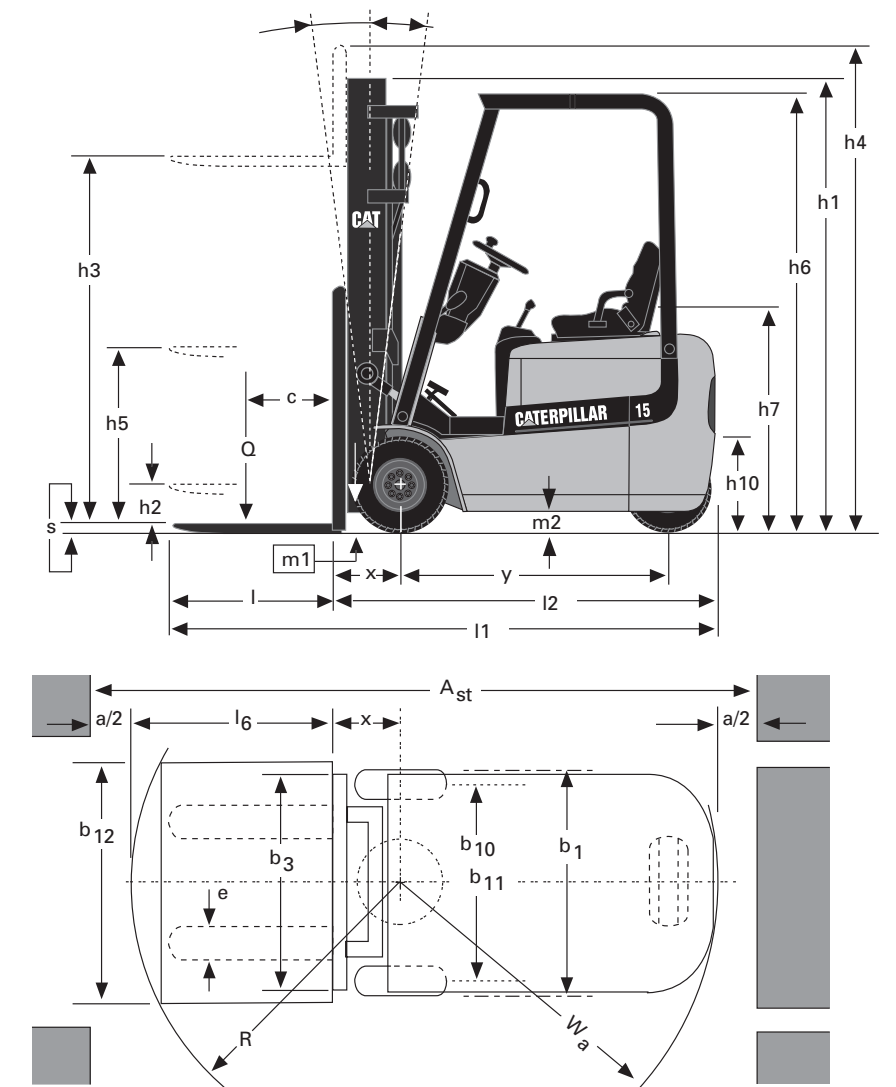
## *Specifications*

EP10K RT  
EP12K RT  
EP15K RT



**3-wheel electric lift trucks**  
1.0 - 1.5t

Characteristics					
1.1	Manufacturer (abbreviation)		Caterpillar	Caterpillar	Caterpillar
1.2	Manufacturer's model designation		EP10KRT	EP12KRT	EP15KRT
1.3	Power source: (battery, diesel, LP gas, petrol)		Battery	Battery	Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated		Seated	Seated	Seated
1.5	Lifting capacity	Q (t)	1	1.25	1.5
1.6	At load centre	c (mm)	500	500	500
1.8	Load distance	x (mm)	330	330	330
1.9	Wheelbase	y (mm)	1125	1125	1200
Weight					
2.1	Truck weight, without load / including battery (max. battery)	kg	2333	2568	2778
2.2	Axle loading with rated load, front/rear	kg	2837/496	3264/554	3597/581
2.3	Axle loading without load, front/rear	kg	1099/1234	1092/1476	1159/1619
Wheels, Drive Train					
3.1	Tyre type: V=solid, L=pneumatic, SE=solid pneumatic - front/rear		SE/SE	SE/SE	SE/SE
3.2	Tyre dimensions, front		18x7-8	18x7-8	18x7-8
3.3	Tyre dimensions, rear		18x7-8	18x7-8	18x7-8
3.5	Number of wheels, front/rear (x=driven)		2/1	2/1	2/1
3.6	Distance between centreline of tyres, front	b10 (mm)	840	840	840
3.7	Distance between centreline of tyres, rear	b11 (mm)	-	-	-
Dimensions					
4.1	Mast tilt, forwards/backwards	°	5/7	5/7	5/7
4.2	Height with mast lowered	h1 (mm)	2110	2110	2110
4.3	Standard free lift	h2 (mm)	120	120	120
4.4	Standard lift height	h3 (mm)	3300	3300	3300
4.5	Overall height with mast raised	h4 (mm)	3895	3895	3895
4.7	Height to top of overhead guard ( ) High OHG	h6 (mm)	1965(2015)	1965(2015)	1965(2015)
4.8	Seat height	h7 (mm)	914	914	914
4.12	Tow coupling height	h10 (mm)	410	410	410
4.19	Overall length	l1 (mm)	2500	2500	2575
4.20	Length to fork face (includes fork thickness)	l2 (mm)	1700	1700	1775
4.21	Overall width	b1/b2 (mm)	997	997	997
4.22	Fork dimensions (thickness, width, length)	s / c / l (mm)	35x80x800	35x80x800	35x80x800
4.23	Fork carriage to DIN 15 173 A/B/no		2A	2A	2A
4.24	Fork carriage width	b3 (mm)	920	920	920
4.31	Ground clearance under mast, with load	m1 (mm)	80	80	80
4.32	Ground clearance centre of wheelbase, with load	m2 (mm)	100	100	100
4.33	Working aisle width with 1000 x1200 mm pallets	Ast (mm)	2900	2900	2975
4.34	Working aisle width with 800 x1200 mm pallets	Ast (mm)	2700	2700	2775
4.35	Turning circle radius	Wa (mm)	1370	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	11.2/13	11/12.5
5.2	Lifting speed, with/without load	m/s	0.29/0.48	0.27/0.48	0.26/0.48
5.3	Lowering speed, with/without load	m/s	0.52/0.50	0.52/0.50	0.52/0.50
5.5	Rated drawbar pull, with/without load (60 min short duty)	N	1569/1667	1520/1669	1470/1670
5.6	Maximum drawbar pull, with/without load (5 min short duty)	N	4217/4315	4168/4315	4119/4314
5.7	Gradeability, with/without load (30 min)	%	5.5/8	4.5/7.5	3.5/6.5
5.8	Maximum drawbar pull, with/without load (5 min short duty)	%	13/20	11/18	10/16
5.9	Acceleration time, with/without load (0-10 m)	s			
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Hydraulic	Hydraulic	Hydraulic
Electric motors					
6.1	Drive motor capacity (60 min. short duty)	kW	4.8	4.8	4.8
6.2	Lift motor output @ 15% duty factor	kW	8.8	8.8	8.8
6.3	Battery to DIN 43 531/35/36 A/B/C/no				
6.4	Battery, voltage/capacity at 5-hour discharge	V /Ah	24 / 720	24 / 720	24 / 840
6.5	Battery, weight	kg	524	524	600
6.6	Energy consumption according to VDI cycle	kWh/h			
Miscellaneous					
8.1	Type of drive control		Mosfet-Chopper	Mosfet-Chopper	Mosfet-Chopper
8.2	Operating pressure for attachments	bar	143	143	143
8.3	Oil flow for attachments	l/min			
8.4	Noise level, mean value at operator's ear	dB(A)			
8.5	Towing coupling design / DIN type, ref.				



## Ergonomic

- Ergonomically designed operator's compartment features a full suspension seat, adjustable steer column and comfortably placed hydraulic control levers.
- Functional instrument panel keeps driver informed of truck hours and state of battery charge.
- Low footstep and well-placed grab handles makes on/off access easy, even in repetitive situations.

## Compact

- 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.

## Programmable

- State-of-the-art controller unit with MOSFET pump and drive control features only one main line contactor for complete simplicity.
- Drive and lift speeds, acceleration and regenerative braking functions can all be programmed, allowing optimal performance and efficiency to be achieved in each application.
- The SEM (Separately Excited) drive motor enables specific matching of speed, acceleration and braking to each application.

## Reliable

- An active protection system monitors motors, controller and battery for failsafe operation.
- The built-in diagnostics routine and limited controller parts result in high reliability and ease of maintenance.



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Mast Type	EP10K RT, EP12K RT, EP15K RT					EP10K RT	EP12K RT	EP15K RT
	h3 mm	h1 mm	h4 mm	h2 mm	h5 mm	Q,@500 kg	Q,@500 kg	Q,@500 kg
Simplex	2000	1460	3045	80	-	1000	1250	1500
	2560	1740	3605	80	-	1000	1250	1500
	2760	1840	3805	80	-	1000	1250	1500
	3000	1960	4045	80	-	1000	1250	1500
	3290	2105	4335	80	-	1000	1250	1500
	3720	2365	4765	80	-	1000	1250	1500
	4090	2550	5135	80	-	950	1200	1450
	4480	2755	5525	80	-	950	1150	1400
	5000	3015	6045	80	-	850	1100*	1350*
	5500	3265	6545	80	-	850	1050*	1250*
	6000	3515	7045	80	-	800*	850*	950*
Duplex	3000	1960	4045	-	915	1000	1250	1500
	3295	2105	4340	-	1060	1000	1250	1500
	3700	2365	4745	-	1320	1000	1250	1500
	4030	2550	5075	-	1505	950	1200	1450
Triplex	3710	1760	4755	-	715	1000	1250	1500
	4010	1860	5055	-	815	950	1200	1450
	4310	1960	5355	-	915	950	1150	1400
	4750	2105	5795	-	1060	900	1100	1350
	5090	2225	6135	-	1180	850	1100	1300
	5490	2365	6535	-	1320	800	1050*	1250*
	5990	2550	7035	-	1505	800	1000*	1200*
	6490	2810	7535	-	1765	750*	900*	1050*
7000	3015	8045	-	1970	600*	650*	700*	

\* Wide tread option

## 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

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