

EP25N
EP25CN
EP30N
EP30CN
EP35N



INTENSIVE PRODUCTIVITY

SPECIFICATIONS

ELECTRIC POWERED LIFT TRUCKS 80V, 2.5 - 3.5 TONNES



AGILE AND INTELLIGENT

THIS RANGE ANSWERS THE NEED FOR HIGH-POWERED PERFORMANCE IN APPLICATIONS WHERE IC ENGINE LIFT TRUCKS AND THEIR EMISSIONS ARE NOT PERMISSIBLE. DESIGNED TO COPE WITH INTENSIVE DUTIES AND TOUGH CONDITIONS, THE TRUCKS ARE HIGHLY PRODUCTIVE AND, AT THE SAME TIME, A PLEASURE TO DRIVE, THANKS TO THEIR AGILITY, INTELLIGENCE AND COMFORT.



Adaptive speed control, which is part of the Responsive Drive System (RDS), seems to know how the driver wants the truck to behave at any moment. Reacting to how quickly the accelerator pedal and hydraulic controls are being moved, it instantly selects the most appropriate mode. RDS also smooths out all stops, starts and other movements.



Compared to traditional cornering systems, this truck's intelligent curve control reduces speed in a much more natural and comfortable way. Starting with a small reduction, as the turn begins, the system responds so smoothly to the steering that the driver notices no sudden change or tilting sensation as the truck corners.



Another great advance over its competitors is the next-generation dual drive 4 wheel steering system, which makes the truck much more manoeuvrable. With $+100^{\circ}$ rear axle rotation and curve control, turns are tight and smooth. When reversing, side turns can be made immediately without pushing back. Uniquely, the truck can actually be steered using the front axle. As well as giving improved agility and grip, the system reduces tyre wear and stress on the rear axle.



The spacious, high-comfort cabin and its equipment are ergonomically designed to allow strain-free operation with minimal need for the driver to move. Features include a flat, unobstructed floor, adjustable seat and steering wheel, pedals at optimum angles and, to maximise the view, a specially inclined dashboard and counterweight.

LOWER COST OF OWNERSHIP

- Full-colour, weather-protected, clear-view display, with information in operator's own language and simple-to-learn functionality, advises on truck status, avoids misuse and protects your investment.

UNMATCHED PRODUCTIVITY

- Responsive Drive System (RDS) with adaptive speed control adjusts truck performance modes in reaction to quickness of foot and fingertip movements, to meet driver's changing needs, and ensures smooth starts and stops.
- Intelligent speed and movement reduction (optional) automatically limits travel and tilt rates when forks are above free lift height, to optimise both stability and agility.
- Intelligent curve control makes speed reduction in cornering feel natural, with no sensation of leaning, for safe but productive driving.
- Twin-mode key switch offers ECO setting for beginners, or for low energy consumption, and PRO for experienced drivers and high performance, while optional customisation is available to meet specific needs.
- Next-generation dual drive 4 wheel steering system, with curve control, +100° rear axle rotation, instant no-push side turns and unique ability to steer using front axle, delivers unbeatably agile manoeuvring, better traction and longer tyre life.

SAFETY AND ERGONOMICS

- Totally redesigned adjustable armrest, combining anatomical support with free movement and perfect hand positioning, features spring-force-optimised fingertip hydraulic controls or – as an option – intuitive joystick control.
- Armrest options include control of forward/reverse selection, clamp release and automatic tilt centring, using only the driver's fingers.
- Wide, high-grip step, long grab handle and curved truck design allow fast, smooth-flowing on-off access to large, comfortable operator space with flat, unobstructed floor.
- Ergonomic layout of controls and display, together with adjustable seat and steering wheel position, optimised pedal angles and excellent all-round view, allows strain-free operation.



STANDARD EQUIPMENT AND OPTIONS

GENERAL	4 WHEEL 80V				
	EP25N	EP25CN	EP30N	EP30CN	EP35N
4-wheel chassis, 80 volts, front wheel dual drive	●	●	●	●	●
Forks with a length of 1,070 mm, equipped with load backrest	●	●	●	●	●
Key pre-set economy or high performance mode (ECO / PRO)	●	●	●	●	●
Wet disc brakes	●	●	●	●	●
2 x AC traction motors, 8 kW	●	●	●	●	●
AC pump motor 20,8 kW (2.5t) and 25,5 kW (3.0-3.5t)	●	●	●	●	●
3-valve hydraulic fingertip control mounted on an adjustable armrest	●	●	●	●	●
Variable hydraulic speed control functions	●	●	●	●	●
Battery compartment side door	●	●	●	●	●
Multifunctional interactive full colour display	●	●	●	●	●
Intelligent curve control	●	●	●	●	●
Tiltable steering column	●	●	●	●	●
TruckTool setup and diagnostics	●	●	●	●	●
Principal components with IP 54 rating	●	●	●	●	●
PDS (Seat Switch Timeout = all functions are disabled, the truck will go into the stop mode, automatically applied parking brake)	●	●	●	●	●
Full-suspension basic vinyl seat Grammer MSG20	●	●	●	●	●
EEC name plates -language markings	●	●	●	●	●
Operations and Maintenance Manual	●	●	●	●	●
DIN battery connectors on frame	●	●	●	●	●
Reverse drive horn button	●	●	●	●	●
Battery door detection sensor	●	●	●	●	●
Load backrest	●	●	●	●	●
FRAME					
Battery sideways exchange chassis (SWE)	○	○	○	○	○
Roller bed, chassis integrated (for battery SWE)	○	○	○	○	○
Battery tray (for roller guided battery SWE)	○	○	○	○	○
Battery sideways exchange tool	○	○	○	○	○
T-bar battery stand	○	○	○	○	○
OHG					
Basic overhead guard	●	●	●	●	●
LIGHTING					
LED work lights (2 at the front and 1 at the rear)	●	●	●	●	●
Automated reversing light	●	●	●	●	●
Auto light switch	○	○	○	○	○
Amber strobe	○	○	○	○	○
Amber strobe mounted low	○	○	○	○	○
"Blue point" rear light	○	○	○	○	○
"Blue point" rear light mounted low	○	○	○	○	○
ELECTRICAL SYSTEM					
Smart backup alarm	○	○	○	○	○
Current output	○	○	○	○	○
12V connector	○	○	○	○	○
Operator presence pedal	○	○	○	○	○
Dual pedal layout	○	○	○	○	○
Drive direction selection switch on armrest (Forward-Backward)	○	○	○	○	○
Drive direction lever in steering column (Forward-Neutral-Reverse)	○	○	○	○	○
Road light kit	○	○	○	○	○
PIN code access with start switch	○	○	○	○	○
Automated performance reduction based on lift height (standard for lift heights over 4000mm)	○	○	○	○	○
Automatic tilt centering via the F2 button with FC TILT/C	○	○	○	○	○
Tilt centering second function TILT/LEV2 (only available in combination with option TILT/C)	○	○	○	○	○
Load weight indicator, steps of 50kg	○	○	○	○	○
OPERATOR'S CABIN					
Grammer MSG20 seat	●	●	●	●	●
Grammer MSG20 Left armrest	○	○	○	○	○
Grammer MSG65	○	○	○	○	○
Grammer MSG65 Left armrest	○	○	○	○	○
Grammer MSG65 with heater	○	○	○	○	○
Grammer MSG65 Backrest extension	○	○	○	○	○
Grammer MSG65 with cloth upholstery	○	○	○	○	○
Grammer MSG65 with cloth upholstery and heater	○	○	○	○	○
Grammer MSG65 Backrest extension	○	○	○	○	○
Grammer MSG75	○	○	○	○	○
Grammer MSG75 with heater	○	○	○	○	○
Grammer MSG75 with cloth upholstery	○	○	○	○	○
Grammer MSG75 with cloth upholstery and heater	○	○	○	○	○
ACCESSORIES					
Rear view mirror	●	●	●	●	●
External rear view mirror	○	○	○	○	○
Dead angle mirror	○	○	○	○	○
Wide view mirror	○	○	○	○	○
A4 size paper holder	○	○	○	○	○
Accessory clamp	○	○	○	○	○
Fire extinguisher	○	○	○	○	○

● Standard ○ Option

For more information about standard and available optional equipment, please contact your dealer.

STANDARD EQUIPMENT AND OPTIONS CONTINUED

	4 WHEEL 80V				
	EP25N	EP25CN	EP30N	EP30CN	EP35N
ROOF					
Front screen, wiper and washer, high visibility overhead guard, slot cover FR+TP	○	○	○	○	○
Front and rear screens, wiper and washer, high visibility overhead guard, slot cover REAR	○	○	○	○	○
Plexiglass safety cover for OHG	○	○	○	○	○
CABIN					
Steel doors, available in combination with options REAR and FR+TP.	○	○	○	○	○
PVC doors, available in combination with options REAR and FR+TP.	○	○	○	○	○
Sun visor, available in combination with option FR+TP.	○	○	○	○	○
Interior package, available in combination with REAR and doors.	○	○	○	○	○
Heater, available in combination with REAR and steel doors, 2000 W.	○	○	○	○	○
Delux cabin	○	○	○	○	○
Container design. This option is available only with sideways battery exchange option SWE.	○	○	○	○	○
Front screen and top for low OHG	○	○	○	○	○
Rear window for low OHG	○	○	○	○	○
Steel doors for low OHG	○	○	○	○	○
Interior lining for low OHG	○	○	○	○	○
Lux cabin for low OHG	○	○	○	○	○
EXTERIOR					
Special colour (RAL) for the frame and counterweight	○	○	○	○	○
FORKS & CARRIAGE					
Various fork lengths (920 - 1970mm), widths (100/120mm) and thicknesses (40/45mm), fork deletion	○	○	○	○	○
Side shifter W1000mm	○	○	○	○	○
Integrated side shifter W1000mm	○	○	○	○	○
Fork positioner+ integrated side shifter	○	○	○	○	○
Load backrest	○	○	○	○	○
BATTERY					
Classic 620 (AH)	○	○	○	○	○
Classic 775 (AH)	○	○	○	○	○
Battery charger Classic HP 80 / 80 (3 PHASE/ 8H)	○	○	○	○	○
Battery charger Classic HP 80 / 100 (3 PHASE / 8 H)	○	○	○	○	○
Battery water filling plug Classic (80V / 40 cells)	○	○	○	○	○

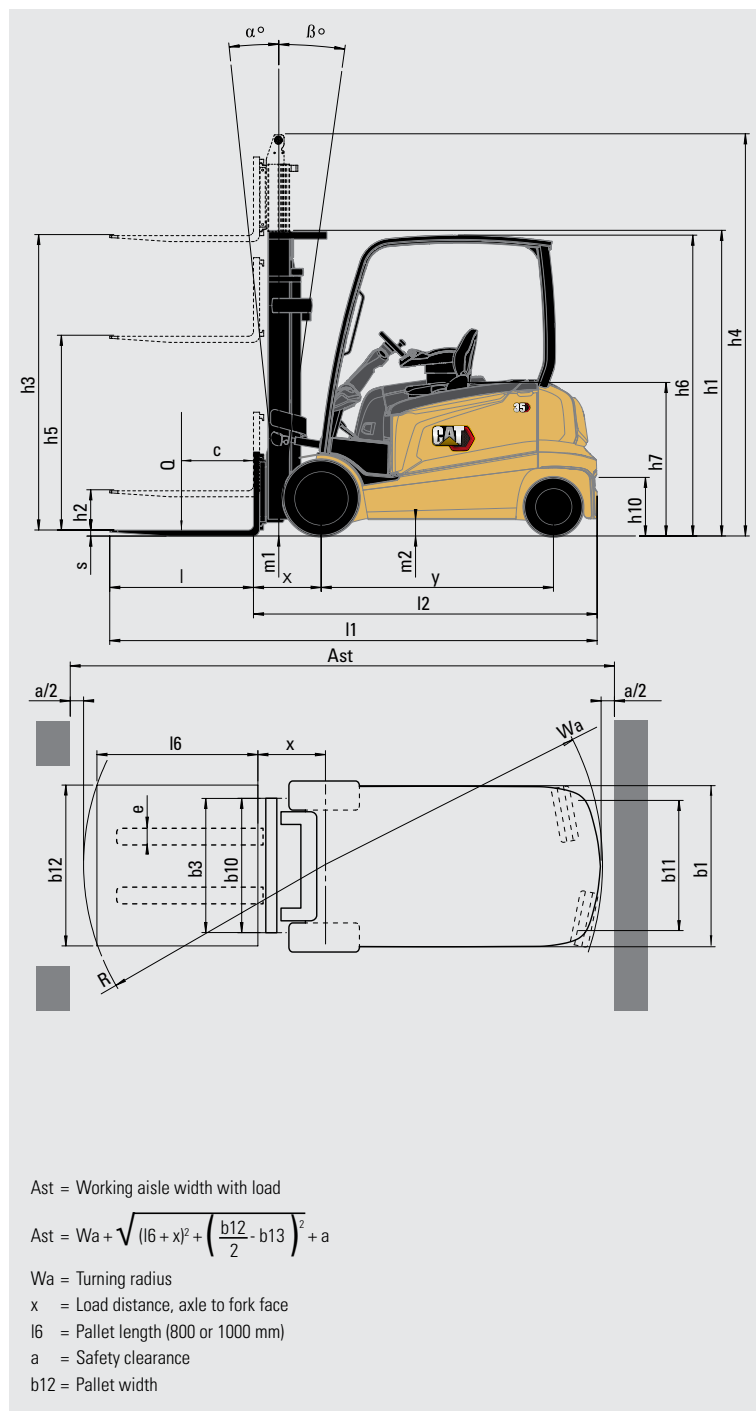
	4 WHEEL 80V				
	EP25N	EP25CN	EP30N	EP30CN	EP35N
HYDRAULIC SYSTEM					
3/4/5-way valve armrest-mounted fingertip control	○	○	○	○	○
3/4-way valve manual control	○	○	○	○	○
Double action FC 3 v, for clamp usage	○	○	○	○	○
Double action FC 4 v, for clamp usage	○	○	○	○	○
Double action MC 3 v, for clamp usage	○	○	○	○	○
Double action MC 4 v, for clamp usage	○	○	○	○	○
Hydraulic accumulator	○	○	○	○	○
Adjustable hydraulic pressure (for 3rd and 4th valve)	○	○	○	○	○
Food grade hydraulic oil	○	○	○	○	○
Biodegradable hydraulic oil	○	○	○	○	○
Cold area hydraulic oil VG15	○	○	○	○	○
Hot area hydraulic oil VG46	○	○	○	○	○
3-way piping	○	○	○	○	○
4-way piping	○	○	○	○	○
5-way mast piping CSM	○	○	○	○	○
TYRES					
Solid Elastic Tyres (SE)	○	○	○	○	○
Pneumatic Tyres	○	○	—	—	—
Non-marking Solid Tyres	○	○	○	○	○
Cushion tyres	○	○	○	○	○
Non marking cushion tyres	○	○	○	○	○
Wide stance drive wheels	○	○	○	○	○

● Standard ○ Option

For more information about standard and available optional equipment, please contact your dealer.

1.0 Characteristics	
1.1 Manufacturer (abbreviation)	
1.2 Manufacturer's model designation	
1.3 Power source: (battery, diesel, LPG, petrol)	
1.4 Operator type: pedestrian, (operator) - standing, - seated	
1.5 Load capacity	Q (kg)
1.6 Load centre distance	c (mm)
1.8 Load distance, axle to fork face	x (mm)
1.9 Wheelbase	y (mm)
2.0 Weight	
2.1 Truck weight, without load / including battery (simple x mast, lowest lift height)	kg
2.2 Axle loading with maximum load, front / rear (simple x mast, lowest lift height)	kg
2.3 Axle loading without load, front / rear (simple x mast, lowest lift height)	kg
3.0 Wheels, Drive Train	
3.1 Tyres: V = solid, L = pneumatic, SE = solid pneumatic - front / rear	
3.2 Tyre dimensions, front	
3.3 Tyre dimensions, rear	
3.5 Number of wheels, front / rear (x = driven)	
3.6 Track width (centre of tyres), front	b10 (mm)
3.7 Track width (centre of tyres), rear	b11 (mm)
4.0 Dimensions	
4.1 Mast tilt, forwards / backwards	∂ / β °
4.2 Height with mast lowered (see tables)	h1 (mm)
4.3 Free lift (see tables)	h2 (mm)
4.4 Lift height (see tables)	h3 (mm)
4.5 Overall height with mast raised	h4 (mm)
4.7 Height to top of overhead guard	h6 (mm)
4.8 Seat height	h7 (mm)
4.12 Tow coupling height	h10 (mm)
4.19 Overall length	l1 (mm)
4.20 Length to fork face (includes fork thickness)	l2 (mm)
4.21 Overall width	b1 / b2 (mm)
4.22 Fork dimensions (thickness, width, length)	s / e / l (mm)
4.23 Fork carriage to DIN 15 173 A / B / no	
4.24 Fork carriage width	b3 (mm)
4.31 Ground clearance under mast, with load	m1 (mm)
4.32 Ground clearance at centre of wheelbase, with load (forks lowered)	m2 (mm)
4.33 Working aisle width with 1000 x 1200 mm pallets, crosswise	Ast (mm)
4.34a Working aisle width with 800 x 1200 mm pallets, lengthwise	Ast (mm)
4.35 Turning circle radius	Va (mm)
4.36 Minimum distance between centres of rotation	b13 (mm)
5.0 Performance	
5.1 Travel speed, with / without load	km / h
5.2 Lifting speed, with / without load	m / s
5.3 Lowering speed, with / without load	m / s
5.5 Rated drawbar pull, with / without load	N
5.6 Maxium drawbar pull, with / without load (5 min short duty)	N
5.7 Gradeability, with / without load	%
5.8 Maximum gradeability with / without load	%
5.9 Acceleration time (10 metres) with / without load	s
5.10 Service brakes (mechanical / hydraulic / electric / pneumatic)	
6.0 Electric motor	
6.1 Drive motor capacity (60 min. short duty)	kW
6.2 Lift motor output at 15% duty factor	kW
6.3 Dattery to DIN 43 531 / 35 / 36 A / B / C / no	
6.4 Battery voltage / capacity at 5 - hour discharge	V / Ah
6.5 Battery weight	kg
8.0 Miscellaneous	
8.1 Type of drive control	
10.1 Maximum operating pressure for attachments	bar
10.2 Oil flow for attachments	l / min
10.7 Noise level, value at operator's ear (EN 12053)	dB (A)
10.8 Towing coupling, type DIN 15170	

Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
EP25N	EP25CN	EP30N	EP30CN	EP35N
Electric	Electric	Electric	Electric	Electric
Seated	Seated	Seated	Seated	Seated
2500	2500	3000	3000	3500
500	500	500	500	500
476	476	504	504	504
1730	1585	1730	1585	1730
4700	4621	5152	5234	5591
6336 / 864	6332 / 789	7313 / 839	7355 / 878	8186 / 904
2424 / 2275	2292 / 2329	2571 / 2581	2454 / 2780	2654 / 2937
SE	SE	SE	SE	SE
23 x 9 - 10	23 x 9 - 10	23 x 10 - 12	23 x 10 - 12	23 x 10 - 12
18 x 7 - 8	18 x 7 - 8	18 x 7 - 8	18 x 7 - 8	18 x 7 - 8
2 x / 2	2 x / 2	2 x / 2	2 x / 2	2 x / 2
985	985	950	950	950
970	970	970	970	970
6 / 8	6 / 8	6 / 8	6 / 8	6 / 8
2145	2145	2165	2165	2291
100	100	100	100	100
3300	3300	3270	3270	3300
4355	4355	4325	4325	4345
2240	2240	2240	2240	2240
1130	1130	1130	1130	1130
395	395	395	395	395
3600	3459	3628	3487	3628
2530	2389	2558	2417	2558
1190	1190	1190	1190	1190
40 x 100 x 1070	40 x 100 x 1070	45 x 125 x 1070	45 x 125 x 1070	45 x 125 x 1070
2A	2A	3A	3A	3A
1000	1000	1000	1000	1000
105	105	115	115	115
122	122	122	122	122
3805	3660	3830	3690	3830
3960	3815	3985	3840	3985
2064	1920	2064	1920	2064
160	160	160	160	160
20 / 20	20 / 20	20 / 20	20 / 20	18 / 18
0.5 / 0.65	0.5 / 0.65	0.45 / 0.6	0.45 / 0.6	0.45 / 0.6
0.55 / 0.5	0.55 / 0.5	0.5 / 0.45	0.5 / 0.45	0.5 / 0.45
9300 / 9700	9300 / 9700	9100 / 9550	9100 / 9550	8950 / 9500
15800 / 16200	15800 / 16200	15550 / 16050	15550 / 16050	15400 / 16000
15 / 25	15 / 25	13 / 22	13 / 22	12 / 20
23 / 38	23 / 38	20 / 34	20 / 33	18 / 31
4.2 / 3.9	4.2 / 3.10	4.2 / 3.11	4.3 / 3.9	4.4 / 3.9
Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
2 x 8	2 x 8	2 x 8	2 x 8	2 x 8
20.8	20.8	25.5	25.5	25.5
43536A	43536A	43536A	43536A	43536A
80 / 700 - 775	80 / 560 - 620	80 / 700 - 775	80 / 560 - 620	80 / 700 - 775
1863	1558	1863	1558	1863
AC	AC	AC	AC	AC
185	185	185	185	205**
30	30	30	30	30
65	65	66	66	66
DIN 15170 - H	DIN 15170 - H	DIN 15170 - H	DIN 15170 - H	DIN 15170 - H



* h7 values recorded with MSG65 seat type.

**Separate option for pressure relief valve when lower pressure needed.

EP25N / EP25CN						EP25N	EP25CN	EP30N / EP30CN						EP30N	EP30CN	EP35N						
Mast Type	h3 mm	h1 mm	h4 mm	h2/h5 mm	tilt angle (fwd-rev) degrees	Q @ c = 500mm kg	Q @ c = 500mm kg	Mast Type	h3 mm	h1 mm	h4 mm	h2/h5 mm	tilt angle (fwd-rev) degrees	Q @ c = 500mm kg	Q @ c = 500mm kg	Mast Type	h3 mm	h1 mm	h4 mm	h2/h5 mm	tilt angle (fwd-rev) degrees	Q @ c = 500mm kg
Simplex	3000	1995	4055	100	6/8	2500	2500	Simplex	3030	2045	4085	100	6/8	3000	3000	Simplex	3000	2170	4045	100	6/8	3500
	3300	2145	4355	100	6/8	2500	2500		3270	2165	4325	100	6/8	3000	3000		3300	2290	4345	100	6/8	3500
	3740	2410	4795	100	6/8	2500	2500		3700	2430	4755	100	6/8	3000	3000		3720	2500	4765	100	6/8	3500
	4100	2590	5155	100	6/8	2500	2500		4000	2610	5055	100	6/8	3000	3000		4000	2755	5045	100	6/8	3500
	4500	2800	5555	100	6/8	2500	2500		4500	2870	5555	100	6/8	3000	3000		4500	3000	5545	100	6/8	3500
	5000	3050	6055	100	6/8	2500	2450		5000	3120	6055	100	6/8	3000	2900		5000	3250	6045	100	6/8	3500
	5500	3300	6555	100	6/4	2450	2400		5500	3370	6555	100	6/4	2900	2800		5500	3500	6545	100	6/4	3400
	6000	3550	7055	100	6/4	2000	2000		6000	3635	7055	100	6/4	2650	2700		6000	3750	7045	100	6/4	2800
Duplex	3000	1995	4055	940	6/8	2500	2500	Duplex	3000	2035	4055	980	6/8	3000	3000	Duplex	3010	2170	4055	1125	6/8	3500
	3300	2145	4355	1090	6/8	2500	2500		3250	2165	4305	1110	6/8	3000	3000		3300	2290	4345	1245	6/8	3500
	3700	2410	4755	1355	6/8	2500	2500		3700	2430	4755	1375	6/8	3000	3000		3720	2615	4765	1570	6/8	3500
	4020	2590	5075	1535	6/8	2500	2500		4010	2610	5065	1555	6/8	3000	3000		4000	2755	5045	1710	6/8	3500
Triplex	3730	1805	4785	750	6/6	2500	2500	Triplex	3690	1825	4745	770	6/6	3000	3000	Triplex	3730	1930	4775	885	6/6	3500
	4030	1905	5085	850	6/6	2500	2500		3990	1925	5045	870	6/6	3000	3000		4010	2050	5055	1005	6/6	3500
	4300	1995	5355	940	6/6	2500	2500		4320	2045	5375	990	6/6	3000	3000		4390	2170	5435	1125	6/6	3500
	4750	2145	5805	1090	6/6	2500	2500		4700	2165	5755	1110	6/6	3000	2950		4700	2290	5745	1245	6/6	3500
	5060	2265	6115	1210	6/6	2500	2450		5060	2285	6115	1230	6/6	3000	2850		5030	2435	6075	1390	6/6	3450
	5500	2410	6555	1355	6/6	2500	2350		5450	2430	6505	1375	6/6	2900	2800		5580	2615	6625	1570	6/6	3100
	5990	2590	7045	1535	6/4	2400	2300		5970	2610	7025	1555	6/4	2750	2650		6000	2755	7045	1710	6/4	2900
	6500	2850	7555	1795	6/4	1950	2100		6470	2870	7525	1815	6/4	2100	2000		6510	2930	7555	1885	6/4	2250
	7000	3050	8055	1995	6/4	1500	1600		7000	3070	8055	2015	6/4	1600	1450		7000	3125	8045	2080	6/4	1700

* h5 including load backrest (without load backrest increase with 305 mm duplex or 465 mm triplex)

* h5 including load backrest (without load backrest increase with 305 mm duplex or 465 mm triplex)

* h5 including load backrest (without load backrest increase with 305 mm duplex or 465 mm triplex)

Battery Dimensions

		EP25N	EP25CN	EP30N	EP30CN	EP35N
Battery voltage	V	80	80	80	80	80
Capacity at a 5-hour discharge	Ah	700-775	560-620	700-775	560-620	700-775
Battery weight, (+/-5%)	kg	1863	1558	1863	1558	1863
Battery box dimensions						
Length	mm	1028	1028	1028	1028	1028
Width	mm	855	711	855	711	855
Height	mm	784	784	784	784	784
Battery compartment size						
Length	mm	1056	1056	1056	1056	1056
Width	mm	865	720	865	720	865
Height*	mm	790	790	790	790	790

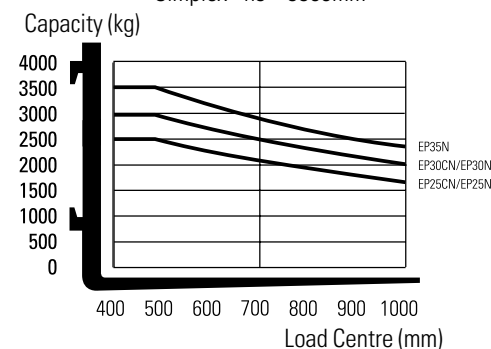
* 5mm tolerance

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 = 3300mm



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