



DP100N - DP120N - DP135N - DP150N DP160N

Specifications

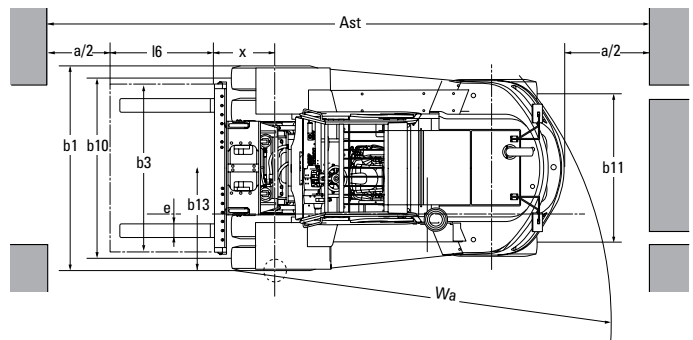
Engine powered lift trucks

10.0 - 16.0 tonnes

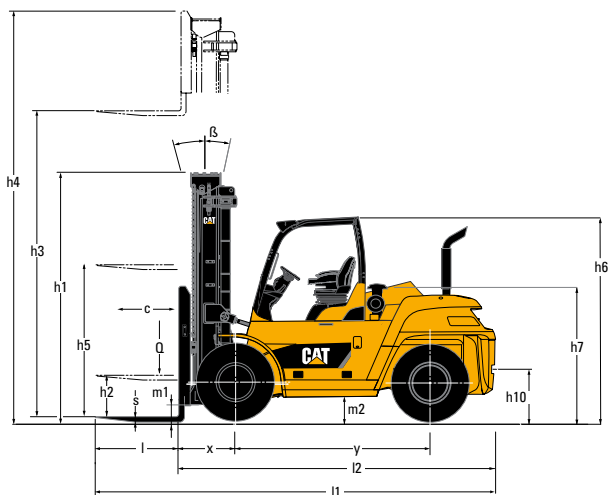


Characteristics			Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
1.1	Manufacturer (abbreviation)		DP100N	DP120N	DP135N
1.2	Manufacturer's model designation		Diesel	Diesel	Diesel
1.3	Power source: (battery, diesel, LP gas, petrol)		Seated	Seated	Seated
1.4	Operator type: pedestrian, (operator)-standing, -seated				
1.5	Load capacity	Q (kg)	10000	12000	13500
1.6	At load centre	c (mm)	600	600	600
1.8	Load distance	x (mm)	770	780	800
1.9	Wheelbase	y (mm)	2800	2800	2800
Weight					
2.1	Truck weight, without load / including battery (simplex mast, lowest lift height)	kg	14610	15860	17480
2.2	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)	kg	22150 / 2460	25130 / 2730	27940 / 3040
2.3	Axle loading without load, front/rear (simplex mast, lowest lift height)	kg	7260 / 7350	7230 / 8630	7700 / 9780
Wheels, Drive Train					
3.1	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear		L / L	L / L	L / L
3.2	Tyre dimensions, front		10.00 x 20 - 14 PR	10.00 x 20 - 16 PR	12.00 x 20 - 18 PR
3.3	Tyre dimensions, rear		10.00 x 20 - 14 PR	10.00 x 20 - 16 PR	12.00 x 20 - 18 PR
3.5	Number of wheels, front/rear (x=driven)		4x / 2	4x / 2	4x / 2
3.6	Distance between centreline of tyres, front	b10 (mm)	1900	1900	1905
3.7	Distance between centreline of tyres, rear	b11 (mm)	1965	1965	1925
Dimensions					
4.1	Mast tilt, forwards/backwards	α/β (°)	15 / 12	15 / 12	15 / 12
4.2	Height with mast lowered (see tables)	h1 (mm)	3087	3087	3332
4.3	Free lift (see tables)	h2 (mm)	72	72	88
4.4	Lift height (see tables)	h3 (mm)	3072	3072	3088
4.5	Overall height with mast raised	h4 (mm)	4486	4486	4927
4.7	Height to top of overhead guard	h6 (mm)	3015	3020	3060
4.8	Seat height	h7 (mm)	1915	1915	1960
4.12	Tow coupling height	h10 (mm)	695	695	740
4.19	Overall length	l1 (mm)	5530	5610	5755
4.20	Length to fork face (includes fork thickness)	l2 (mm)	4310	4390	4535
4.21	Overall width	b1/b2 (mm)	2515	2515	2605
4.22	Fork dimensions (thickness, width, length)	s, e, l (mm)	72 x 180 x 1220	79 x 180 x 1220	88 x 180 x 1220
4.23	Fork carriage to DIN 15 173 A/B/no		No	No	No
4.24	Fork carriage width	b3 (mm)	2010	2010	2260
4.31	Ground clearance under mast, with load	m1 (mm)	260	260	305
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)	m2 (mm)	310	310	355
4.33	Working aisle width with 1000 x 1200 mm pallets, crosswise	Ast (mm)	5970	6040	6160
4.34a	Working aisle width with 800 x 1200 mm pallets, lengthwise	Ast (mm)	6170	6240	6360
4.35	Turning circle radius	Wa (mm)	4000	4060	4160
4.36	Minimum distance between centres of rotation	b13 (mm)	1565	1565	1565
Performance					
5.1	Travel speed, with/without load	km/h	26.5 / 31.0	25.0 / 31.0	25.5 / 32.0
5.2	Lifting speed, with/without load	m/s	0.41 / 0.44	0.41 / 0.44	0.34 / 0.37
5.3	Lowering speed, with/without load	m/s	0.45 / 0.47	0.45 / 0.47	0.45 / 0.48
5.5	Rated drawbar pull, with/without load	N	107000 / 34000	121000 / 33000	110900 / 35000
5.7	Gradeability, with/without load	%	42.1 / 21.7	42.2 / 19.7	38.9 / 18.8
5.9	Acceleration time (10 metres) with/without load	s	-	-	-
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Pneu./Hydraulic	Pneu./Hydraulic	Pneu./Hydraulic
IC Engine					
7.1	Manufacturer / Type		1204E	1204E	1204E
7.2	Rated output to ISO 1585	kW	129	129	129
7.3	Rated speed to DIN 70 020	rpm	2200	2200	2200
7.4	Number of cylinders / cubic capacity	/cm ³	4 / 4400	4 / 4400	4 / 4400
Miscellaneous					
8.1	Type of drive control		Powershift / 3	Powershift / 3	Powershift / 3
8.2	Operating pressure for attachments	bar	206	206	206
8.3	Oil flow for attachments	l/min	-	-	-
8.4	Noise level, value at operator's ear (EN 12053)	dB(A)	85	85	85
8.5	Towing coupling design / DIN type, ref.		Pin	Pin	Pin

$Ast = Wa + x + l6 + a$
 $Ast =$ Working aisle width with load
 $a =$ Safety clearance (200 mm)
 $l6 =$ Pallet length (800 or 1000 mm)
 $b12 =$ Pallet width (1200 mm)



Cat Lift Trucks DP150N	Cat Lift Trucks DP160N
Diesel	Diesel
Seated	Seated
15000	16000
600	600
805	820
3100	3300
18050	18940
30055 / 2995	31895 / 3045
8260 / 9790	9025 / 9915
L / L	L / L
12.00 x 20 - 18 PR	12.00 x 20 - 18 PR
12.00 x 20 - 18 PR	12.00 x 20 - 18 PR
4x / 2	4x / 2
1905	1905
1925	1890
15 / 12	15 / 12
3332	3530
88	92
3088	3092
4927	4927
3060	3060
1960	1960
735	735
6060	6275
4840	5055
2605	2635
88 x 180 x 1220	92 x 180 x 1220
No	No
2280	2280
300	300
355	355
6555	6835
6755	7035
4550	4550
1815	2000
25.0 / 32.0	24.5 / 31.5
0.34 / 0.37	0.32 / 0.34
0.45 / 0.48	0.41 / 0.44
110000 / 38000	109000 / 42000
36.2 / 20.0	33.4 / 21.1
-	-
Pneu./Hydraulic	Pneu./Hydraulic
1204E	1204E
129	129
2200	2200
4 / 4400	4 / 4400
Powershift / 3	Powershift / 3
206	206
-	-
85	85
Pin	Pin



Lower Cost of Ownership

- Advanced 4-cylinder twin turbo diesel engine delivers powerful performance with 13% greater fuel efficiency than previous units and meets EURO Stage IIIB emissions standard.
- Low-maintenance Diesel Particulate Filter (DPF) technology with Passive Regeneration (PR) avoids the need for downtime by burning off soot while truck is operating.
- Engine Protection System (EPS) monitors oil pressure, coolant temperature and transmission temperature, giving warnings and limiting power output, travel speed and hydraulic speed if abnormalities are detected.
- Robust steel frame designed using Finite Element Analysis gives durable structure with low centre of gravity, resulting in higher residual capacity.
- Fully floating drive axle adds extra durability and capacity compared to semi- or non-floating alternatives.
- Steer axle construction as a single solid unit maximises strength and rigidity.
- Dependable engine and strong resistance of all truck components to damage and wear helps minimise repair and service bills.
- Easy and quick access to all areas for routine checks and maintenance keeps truck in sound working condition, saves time and reduces expense.

Unmatched Productivity

- Latest diesel engine design increases power to new levels.
- Powershift transmission controlled by the truck's Vehicle Control Module (VCM) offers three forward and three reverse gears to tackle heavy-duty applications effectively.
- Fast-response twin turbochargers further enhance driver experience and output.
- Design of frame and counterweight optimises weight positioning and residual capacity for strong lifting.

Safety and Ergonomics

- Noise and vibration limitation features include rubber-mounted key components, fully insulated steel engine hood and helical transmission gears.
- Electronic direction control permits easy and smooth shifting between forward and reverse travel, without removing hands from steering wheel, at any speed up to 4.0 km/h.
- Fully hydrostatic assisted steering via small-diameter steering wheel ensures accurate and rapid response with little effort.
- Counterweight design allows small turning circle and clear view to the rear for precise manoeuvring.
- Mast with narrow channels and small-diameter lift cylinders increases forward vision and uses six load rollers with side rollers to achieve high load stability.
- Choice of up-to-date, ergonomic fingertip or lever controls is available for precise, low-effort operation of hydraulic functions.
- Comprehensively equipped instrument panel offers valuable on-the-go information and warnings to aid operator awareness and control.
- Presence Detection System (PDS) gives audible warning if seat belt is not fastened and prevents all travel and hydraulic movement if operator is not correctly seated.
- Tilttable steering column, adjustable full-suspension seat and generous leg room allow each user to find the perfect driving position.
- Conveniently placed grab bars and steps ease access to operator compartment.

Options

- Engine Shutdown System (ESS) stopping engine in the event of:
 - o Transmission temperature >110 °C
 - o Coolant temperature >107 °C
 - o Engine oil pressure <24 kPa
- Oil-cooled disc brakes (standard on 16.0 tonne, optional on others)
- High-comfort cabin.
- Wide range of sidershifters and fork positioners.

Cat® Lift Trucks.

Your partner in materials handling.

Mast Type	DP100N / DP120N					DP100N	DP120N
	h3	h1	h4	h2	Tilt angle (fwd./ back)	Q @ c = 600mm kg	Q @ c = 600mm kg
Simplex	3072	3087	4486	72	15°/12°	10000	12000
	3572	3337	4986	72	15°/12°	10000	12000
	3772	3437	5186	72	15°/12°	10000	12000
	4072	3587	5486	72	15°/12°	10000	12000
	4572	3837	5986	72	15°/12°	10000	12000
	5072	4087	6486	72	15°/12°	10000	12000
	5572	4337	6986	72	15°/12°	10000	12000
	6072	4637	7486	72	6°/6°	9800	11800

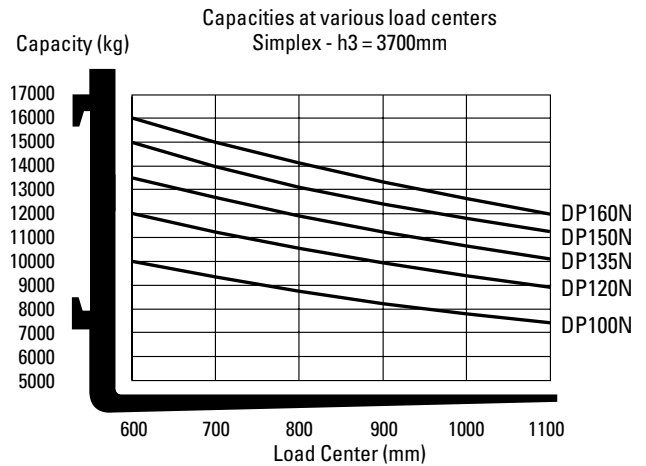
Mast Type	DP135N / DP150N					DP135N	DP150N
	h3	h1	h4	h2	Tilt angle (fwd./ back)	Q @ c = 600mm kg	Q @ c = 600mm kg
Simplex	3088	3332	4927	88	15°/12°	13500	15000
	3588	3632	5427	88	15°/12°	13500	15000
	3788	3732	5627	88	15°/12°	13500	15000
	4088	3882	5927	88	15°/12°	13500	15000
	4588	4132	6427	88	15°/12°	13500	15000
	5088	4382	6927	88	15°/12°	13500	15000
	5588	4682	7427	88	15°/12°	13500	15000
	6088	4932	7927	88	6°/6°	13300	14600

Mast Type	DP160N					
	h3	h1	h4	h2	Tilt angle (fwd./ back)	Q @ c = 600mm kg
Simplex	3092	3530	4927	92	15°/12°	16000
	3592	3780	5427	92	15°/12°	16000
	3792	3880	5627	92	15°/12°	16000
	4092	4030	5927	92	15°/12°	16000
	4592	4280	6427	92	15°/12°	16000
	5092	4530	6927	92	15°/12°	16000
	5592	4830	7427	92	15°/12°	16000
	6082	5080	7927	92	6°/6°	15800



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)



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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.

