### Cat® Lift Trucks.

## Your partner in materials handling.

		DP	100N / DF	DP100N	DP120N			
Mast Type	h3 mm	h1 mm	h4 mm	h2 mm	Tilt angle (fwd./ back)	0 @ c = 600mm kg	0 @ 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	

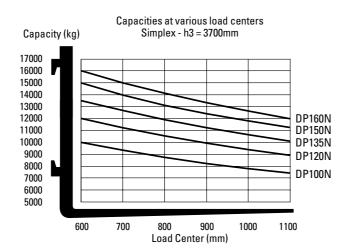
		DP	135N / DF	DP135N	DP150N				
Mast Type	h3	h1 mm			Tilt angle (fwd./ back)	0 @ c = 600mm	Q @ c = 600mm kg		
C:I	mm 3088	3332	4927		15°/12°	kg 13500	15000		
Simplex	3588 3632	5427	88 88	15°/12°	13500	15000			
	3788	3732	5627	88	15°/12°	13500	15000		
	4088	3882	5927	88	15°/12°	13500	15000		
	4588	4132	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		

	DP160N									
Mast Type	h3 mm	h1 mm	h4 mm	h2 mm	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
- Q Lifting capacity, rated load
- Load centre (distance)



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# **DP100N - DP120N - DP135N - DP150N DP160N**

Preliminary specifications

## **Engine powered lift trucks**

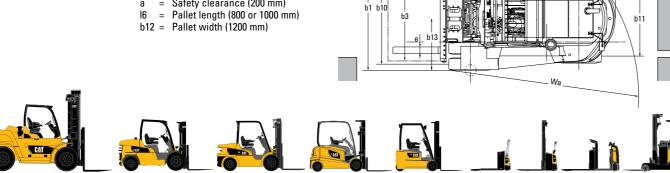
10.0 - 16.0 tonnes

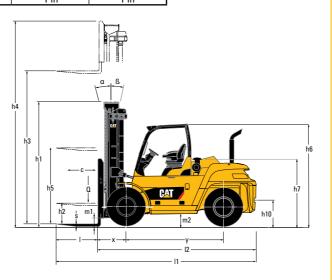


	Characteristics								
1.1	Manufacturer (abbreviation)			Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks		Cat Lift Trucks	Cat Lift Trucks
	Manufacturer (abbreviation)  Manufacturer's model designation			DP100N	DP120N	DP135N		DP150N	DP160N
1.3	Power source: (battery, diesel, LP gas, petrol)			Diesel	Diesel	Diesel		Diesel	Diesel
1.4	Operator type: pedestrian, (operator)-standing, -seated			Seated	Seated	Seated		Seated	Seated
1.5	Load capacity	α	(1,0)	10000	12000	13500		15000	16000
1.6	At load centre	_	(kg)	600	600	600		600	600
1.8	Load distance	С	(mm)	770	780	800		805	820
1.9	Wheelbase	X	(mm)	2800	2800	2800		3100	3300
1.9	Weight	У	(mm)	2000	2000	2000		3100	3300
2.1	Truck weight, without load / including battery (simplex mast, lowest lift height)		ka	14610	15860	17480		18050	18940
	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)		kg	22150 / 2460	25130 / 2730	27940 / 3040		30055 / 2995	31895 / 3045
2.2	Axle loading without load, front/rear (simplex mast, lowest lift height)		kg kg	7260 / 7350	7230 / 8630	7700 / 9780		8260 / 9790	9025 / 9915
2.0	Wheels, Drive Train		ĸy	7200 / 7330	7230 / 0030	7700 / 3700		0200 / 3730	3023 / 3313
3.1	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear			L/L	L/L	L/L		L/L	L/L
3.2	Tyre dimensions, front			10.00 x 20 - 14 PR				12.00 x 20 - 18 PR	
3.3	Tyre dimensions, nonc			10.00 x 20 - 14 PR				12.00 x 20 - 18 PR	
3.5	Number of wheels, front/rear (x=driven)			4x/2	4x/2	4x/2		4x/2	4x/2
3.6	Distance between centreline of tyres, front	h10	(mm)	1900	1900	·			1905
	Distance between centreline of tyres, from		(mm)	1965	1965	1905 1925		1905 1925	1890
S.1	Distance between centreline of tyres, rear  Dimensions	ווע	(mm)	1900	1900	1525		1929	1090
4.1	Mast tilt, forwards/backwards	2/0	(0)	15 / 12	15 / 12	15 / 12		15 / 12	15 / 12
4.1	Height with mast lowered (see tables)	∂/ß	(°)	15 / 12 3087	15 / 12 3087	15 / 12 3332		15 / 12 3332	15 / 12 3530
4.2	Free lift (see tables)	h1 h2	(mm)	72	72	88		88	92
4.4	Lift height (see tables)		(mm)	3072	3072	3088		3088	3092
4.4	Overall height with mast raised	h3	(mm)	4486	4486	4927		4927	4927
		h4	(mm)						
4.7	Height to top of overhead guard Seat height	h6	(mm)	3015 1915	3020	3060 1960		3060 1960	3060 1960
4.8	Tow coupling height	h7	(mm)		1915				
4.12	Overall length	h10	(mm)	695	695	740		735	735
4.19	Length to fork face (includes fork thickness)	11	(mm)	5530	5610	5755		6060	6275
4.20 4.21	Overall width	12	(mm)	4310 2515	4390 2515	4535 2605		4840 2605	5055 2635
4.21	Fork dimensions (thickness, width, length)		2 (mm)	72 x 180 x 1220	79 x 180 x 1220	88 x 180 x 1220		88 x 180 x 1220	92 x 180 x 1220
4.22	Fork carriage to DIN 15 173 A/B/no	S, e, i	(mm)	No	No	No		No	92 x 160 x 1220 No
4.23	Fork carriage width	b3	/\	2010	2010	2260		2280	2280
4.24	Ground clearance under mast, with load		(mm)	260	260	305		300	300
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)	m1 m2	(mm)	310	310	355		355	355
4.32	Working aisle width with 1000 x1200 mm pallets, crosswise		(mm)	5970	6040	6160		6555	6835
	Working aisle width with 800 x1200 mm pallets, lengthwise	Ast Ast	(mm)	6170	6240	6360		6755	7035
4.35	Turning circle radius	Wa	(mm) (mm)	4000	4060	4160		4550	4550
4.36	Minimum distance between centres of rotation		(mm)	1565	1565	1565		1815	2000
4.30	Performance	บเจ	(111111)	1303	1303	1303		1013	2000
5.1	Travel speed, with/without load		km/h	26.5 / 31.0	25.0 / 31.0	25.5 / 32.0		25.0 / 32.0	24.5 / 31.5
5.2	Lifting speed, with/without load		m/s	0.41 / 0.44	0.41 / 0.44	0.34 / 0.37		0.34 / 0.37	0.32 / 0.34
	Lowering speed, with/without load								
	Rated drawbar pull, with/without load		m/s N	0.45 / 0.47 107000 / 34000	0.45 / 0.47 121000 / 33000	0.45 / 0.48 110000 / 35000		0.45 / 0.48 110000 / 38000	0.41 / 0.44 109000 / 42000
	Gradeability, with/without load		%	42.1 / 21.7	42.2 / 19.7	38.9 / 18.8		36.2 / 20.0	33.4 / 21.1
	Acceleration time (10 metres) with/without load		70 S	74.1 / 41.1	74.4   13.1	30.5 / 10.0			JU.4 / ZI.I
	Service brakes (mechanical/hydraulic/electric/pneumatic)		3	Pneumatic	Pneumatic	Pneumatic		Pneumatic	Pneumatic
J. 10	IC Engine			sumuus	sumutio	sumano		umatic	umatic
7.1	Manufacturer / Type			1204E	1204E	1204E		1204E	1204E
	Rated output to ISO 1585		kW	129	129	129		12045	129
7.3	Rated speed to DIN 70 020			2200	2200	2200		2200	2200
	Number of cylinders / cubic capacity		rpm /cm <sup>3</sup>	4 / 4400	4 / 4400	4 / 4400		4 / 4400	4 / 4400
7.4	Miscellaneous		/CIII	T / 4400	7 / 4400	7/ 4400		7/ 4400	7 / <del>44</del> 00
8.1	Type of drive control			Powershift / 3	Powershift / 3	Powershift / 3		Powershift / 3	Powershift / 3
	Operating pressure for attachments		bar	170	170	170		170	170
8.3	Oil flow for attachments		l/min	-	-	-		-	- 170
	Noise level, value at operator's ear (EN 12053)		dB(A)	85	85	85		85	85
8.5	Towing coupling design / DIN type, ref.		ub(A)	Pin	Pin	Pin		Pin	Pin
0.0	1.011g 000pig 000igit/ Dist ()po/10ii			1.00	1 111	1 111		1 111	1 111

Ast = Wa + x + I6 + a

Ast = Working aisle width with load a = Safety clearance (200 mm)





### **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.
- Tiltable 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 sideshifters and fork positioners.