

# **DP100NM1S - DP120NM1S - DP135NM1S DP150NM1S**

Preliminary specifications

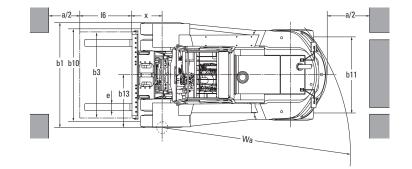
## **Engine powered lift trucks**

10.0 - 15.0 tonnes



Cat Lift Trucks								
1.2   Manufacturor's model designation								
1.3   Power source: (hatertury, diesel, LP pas, pettrol)   Diesel   Diesel   Diesel   Soutod								
1.4   Operator type: potentiam, (operator) standingseated   C   (kg)   (1000)   13500   1					DP100NM1S		DP135NM1S	
1.5   Load capacity								
16   Load centre distance								
18   Load distance, aske to fork face   x   mm  755   756   790				(kg)				
Weight   Weight   Winelloans   Weight   Weigh								
Truck weight without load / including battery (simplex mast, lowest lift height)		,						
21   Track weight, without load / including battery simplex mast, lowest lift height)	1.9		У	(mm)	2800	2800	2800	
2.2   Axi leading with maximum lead, front/rear (simplex mast, lowest lift height)							.=	
Value   Conting without load, front/rear (simplex mast, lowest lift height)   Value   Value								
Nebels Drive Train								
1	2.3			кд	7355 / 7305	7310 / 8590	7805 / 9735	
3.2   Tyre dimensions, front								
3.3   Tyre dimensions, rear								
Section   Sumber of wheels, front/rear (x-edriven)								
Track width (centre of tyres), front   bil   mm   1900   1905								
Track width (centre of tyres), rear   bil   (mm)   1985   1985   1925			h 10	/·				
Dimensions								
Mast tilt, forwards/backwards	3.7		DII	(mm)	1965	1965	1925	
Height with mast lowered (see tables)	4.1		o./0	0	15 / 10	15 / 10	15 / 10	
A3   Free lift (see tables)			α/p					
Lift height (see tables)				: :				
A5   Overall height with mast raised   h4 (mm)   4890   4890   5130		, ,						
Height to top of overhead guard								
4.8   Seat height								
4.12   Tow coupling height								
4.19   Overall length								
4.20   Length to fork face (includes fork thickness)   12   (mm)   4295   4375   4525     4.21   Overall width   bi/b2   (mm)   2515   2515   2605     4.22   Fork dimensions (thickness, width, length)   s.e., e.l.   (mm)   72/180/1220   79/180/1220   88/180/1220     4.23   Fork carriage to DIN 15 173 A/B/no       4.24   Fork carriage width   bi   (mm)   260   260   305     4.25   Ground clearance under mast, with load   (mm)   260   260   305     4.31   Ground clearance at centre of wheelbase, with load (forks lowered)   m2   (mm)   310   310   355     4.32   Working aisle width with 1000 x1200 mm pallets, crosswise   Ast   (mm)   5970   6040   6160     4.36   Working aisle width with 800 x1200 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   bi   3   (mm)   1565   1565     Ferformance							-	
4.21   Overall width								
4.22   Fork dimensions (thickness, width, length)   S, e, I   (mm)   72/180/1220   79/180/1220   88/180/1220								
4.24   Fork carriage to DIN 15 173 A/B/no			-					
4.24   Fork carriage width			5, 6,1	(111111)	72/180/1220	79/180/1220	00 / 100 / 1220	
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 x1200 mm pallets, crosswise   Ast (mm)   5970   6040   6160     4.34a   Working aisle width with 800 x1200 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			h2	/mm\	2010	2010	2260	
4.32   Ground clearance at centre of wheelbase, with load (forks lowered)   m2 (mm)   310   310   355     4.33   Working aisle width with 1000 x1200 mm pallets, crosswise   Ast (mm)   5970   6040   6160     4.34   Working aisle width with 800 x1200 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     Ferformance   Travel speed, with/without load   m/s   0.46 / 0.50   0.39 / 0.50   0.34 / 0.42     5.1   Lowering speed, with/without load   m/s   0.46 / 0.48   0.46 / 0.46   0.48 / 0.40     5.2   Lowering speed, with/without load   m/s   0.46 / 0.48   0.46 / 0.46   0.48 / 0.40     5.3   Lowering speed, with/without load   m/s   0.46 / 0.48   0.46 / 0.46   0.48 / 0.40     5.5   Rated drawbar pull, with/without load   m/s   0.46 / 0.48   0.46 / 0.46   0.48 / 0.40     5.7   Gradeability, with/without load   m/s   31.6 / 21.9   27.2 / 19.8   20.5 / 19.0     5.10   Service brakes (mechanical/hydraulic/electric/pneumatic)   Pneumatic   Pneum			1					
4.33   Working aisle width with 1000 x1200 mm pallets, crosswise   Ast (mm)   5970   6040   6160								
4.34a   Working aisle width with 800 x1200 mm pallets, lengthwise   Ast (mm)   6170   6240   6360								
4.35   Turning circle radius   Wa (mm)   4000   4060   4160								
A.36   Minimum distance between centres of rotation   b13   (mm)   1565   1565     1565								
Performance								
5.1       Travel speed, with/without load       km/h       24.5/30.0       22.5/29.5       21.0/30.0         5.2       Lifting speed, with/without load       m/s       0.46/0.50       0.39/0.50       0.34/0.42         5.3       Lowering speed, with/without load       m/s       0.46/0.48       0.46/0.46       0.48/0.40         5.5       Rated drawbar pull, with/without load       N       73000/34000       72000/33000       67000/35000         5.7       Gradeability, with/without load       %       31.6/21.9       27.2/19.8       20.5/19.0         5.10       Service brakes (mechanical/hydraulic/electric/pneumatic)       Pneumatic       Pneumatic       Pneumatic         7.1       Manufacturer/Type       6D16-TL       6D16-TL       6D16-TL       6D16-TL         7.2a       Rated / Nominal output to ISO 1585       kW       100       100       100         7.3       Rated speed to DIN 70 020       rpm       2200       2200       2200         7.4       Number of cylinders / cubic capacity       /cm³       6/7550       6/7550         Miscellaneous       Powershift/3       Powershift/3       Powershift/3         8.2       Maximum operating pressure for attachments       l/min       -       -       -	4.50		510	(111111)	1303	1303	1303	
5.2         Lifting speed, with/without load         m/s         0.46 / 0.50         0.39 / 0.50         0.34 / 0.42           5.3         Lowering speed, with/without load         m/s         0.46 / 0.48         0.46 / 0.46         0.48 / 0.40           5.5         Rated drawbar pull, with/without load         N         73000 / 34000         72000 / 33000         67000 / 35000           5.7         Gradeability, with/without load         %         31.6 / 21.9         27.2 / 19.8         20.5 / 19.0           5.10         Service brakes (mechanical/hydraulic/electric/pneumatic)         Pneumatic         Pneumatic         Pneumatic           IC Engine         Pneumatic         Pneumatic         Pneumatic         Pneumatic           7.1         Manufacturer / Type         6D16-TL         6D16-TL         6D16-TL           7.2         Rated / Nominal output to ISO 1585         kW         100         100         100           7.3         Rated speed to DIN 70 020         rpm         2200         2200         2200           7.4         Number of cylinders / cubic capacity         /cm³         6 / 7550         6 / 7550           8.1         Type of drive control         Powershift/3         Powershift/3         Powershift/3           8.2         Maximum operating p	5.1			km/h	24 5 / 30 0	22 5 / 29 5	21.0 / 30.0	
5.3         Lowering speed, with/without load         m/s         0.46 / 0.48         0.46 / 0.46         0.48 / 0.40           5.5         Rated drawbar pull, with/without load         N         73000 / 34000         72000 / 33000         67000 / 35000           5.7         Gradeability, with/without load         %         31.6 / 21.9         27.2 / 19.8         20.5 / 19.0           5.10         Service brakes (mechanical/hydraulic/electric/pneumatic)         Pneumatic         Pneumatic         Pneumatic           IC Engine           7.1         Manufacturer / Type         6D16-TL         6D16-TL         6D16-TL           7.2a         Rated / Nominal output to ISO 1585         kW         100         100         100           7.3         Rated speed to DIN 70 020         rpm         2200         2200         2200           7.4         Number of cylinders / cubic capacity         /cm³         6 / 7550         6 / 7550           Miscellaneous           8.1         Type of drive control         Powershift / 3         Powershift / 3         Powershift / 3           8.2         Maximum operating pressure for attachments         bar         206         206         206           8.3         Oil flow for attachments         l/min		·					.,	
5.5         Rated drawbar pull, with/without load         N         73000 / 34000         72000 / 33000         67000 / 35000           5.7         Gradeability, with/without load         %         31.6 / 21.9         27.2 / 19.8         20.5 / 19.0           5.10         Service brakes (mechanical/hydraulic/electric/pneumatic)         Pneumatic         Pneumatic         Pneumatic           1.1         Manufacturer / Type         6D16-TL         6D16-TL         6D16-TL         6D16-TL           7.2a         Rated / Nominal output to ISO 1585         kW         100         100         100           7.3         Rated speed to DIN 70 020         rpm         2200         2200         2200           7.4         Number of cylinders / cubic capacity         /cm³         6 / 7550         6 / 7550           Miscellaneous         0 / 7550         6 / 7550         6 / 7550         6 / 7550           8.1         Type of drive control         Powershift / 3         Powershift / 3         Powershift / 3           8.2         Maximum operating pressure for attachments         bar         206         206         206           8.3         Oil flow for attachments         I/min         -         -         -           8.4         Noise level, value at operator's ear (				-				
5.7       Gradeability, with/without load       %       31.6/21.9       27.2/19.8       20.5/19.0         5.10       Service brakes (mechanical/hydraulic/electric/pneumatic)       Pneumatic       Pneumatic         IC Engine         7.1       Manufacturer / Type       6D16-TL       6D16-TL       6D16-TL         7.2a       Rated / Nominal output to ISO 1585       kW       100       100       100         7.3       Rated speed to DIN 70 020       rpm       2200       2200       2200         7.4       Number of cylinders / cubic capacity       /cm³       6/7550       6/7550       6/7550         Miscellaneous         8.1       Type of drive control       Powershift/3       Powershift/3       Powershift/3         8.2       Maximum operating pressure for attachments       bar       206       206       206         8.3       Oil flow for attachments       I/min       -       -       -         8.4       Noise level, value at operator's ear (EN 12053)       dB(A)       85       85								
Service brakes (mechanical/hydraulic/electric/pneumatic)   Pneumatic   Pneum								
C Engine   C Engine				,-				
7.1       Manufacturer / Type       6D16-TL       6D16-TL       6D16-TL         7.2a       Rated / Nominal output to ISO 1585       kW       100       100       100         7.3       Rated speed to DIN 70 020       rpm       2200       2200       2200         7.4       Number of cylinders / cubic capacity       /cm³       6 / 7550       6 / 7550       6 / 7550         Miscellaneous         8.1       Type of drive control       Powershift / 3       Powershift / 3       Powershift / 3         8.2       Maximum operating pressure for attachments       bar       206       206       206         8.3       Oil flow for attachments       I/min       -       -       -         8.4       Noise level, value at operator's ear (EN 12053)       dB(A)       85       85       85	0110							
7.2a       Rated / Nominal output to ISO 1585       kW       100       100       100         7.3       Rated speed to DIN 70 020       rpm       2200       2200       2200         7.4       Number of cylinders / cubic capacity       /cm³       6 / 7550       6 / 7550       6 / 7550         Miscellaneous         8.1       Type of drive control       Powershift / 3       Powershift / 3       Powershift / 3         8.2       Maximum operating pressure for attachments       bar       206       206       206         8.3       Oil flow for attachments       I/min       -       -       -         8.4       Noise level, value at operator's ear (EN 12053)       dB(A)       85       85       85	7.1				6D16-TI	6D16-TI	6D16-TI	
7.3     Rated speed to DIN 70 020     rpm     2200     2200       7.4     Number of cylinders / cubic capacity     /cm³     6 / 7550     6 / 7550       Miscellaneous       8.1     Type of drive control     Powershift / 3     Powershift / 3       8.2     Maximum 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				kW				
7.4         Number of cylinders / cubic capacity         /cm³         6 / 7550         6 / 7550           Miscellaneous         8.1         Type of drive control         Powershift / 3         Powershift / 3           8.2         Maximum operating pressure for attachments         bar         206         206         206           8.3         Oil flow for attachments         I/min         -         -         -           8.4         Noise level, value at operator's ear (EN 12053)         dB(A)         85         85								
Miscellaneous         Powershift / 3         Powershift / 3         Powershift / 3           8.1         Type of drive control         Powershift / 3         Powershift / 3           8.2         Maximum operating pressure for attachments         bar 206 206 206         206           8.3         Oil flow for attachments         I/min								
8.1 Type of drive control Powershift/3 Powershift/3 Powershift/3 8.2 Maximum operating pressure for attachments bar 206 206 8.3 Oil flow for attachments I/min								
8.2       Maximum operating pressure for attachments       206       206         8.3       Oil flow for attachments       I/min       -       -         8.4       Noise level, value at operator's ear (EN 12053)       dB(A)       85       85	8.1				Powershift/3	Powershift/3	Powershift/3	
8.3       Oil flow for attachments       I/min       -       -         8.4       Noise level, value at operator's ear (EN 12053)       dB(A)       85       85				bar			206	
8.4 Noise level, value at operator's ear (EN 12053) dB(A) 85 85					-	-	-	
				dB(A)	85	85	85	
					Pin	Pin	Pin	

Ast = Wa + x + I6 + a
Ast = Working aisle width with load
a = Safety clearance (200 mm)
I6 = Pallet length (800 or 1000 mm)
b12 = Pallet width (1200 mm)















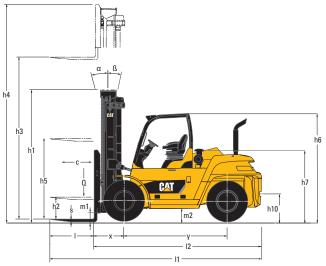


Cat Lift Trucks
DP150NM1S
Diesel
Seated
15000
600
795
3100
18010
29910 / 3100
8170 / 9840
1.44
L/L
12.00 x 20-18PR
12.00 x 20-18PR
4x / 2
1905 1925
1925
15 / 12
3480
3460 88
3300
5130
2960
1960
735
6050
4830
2605
88 / 180 / 1220
-
2280
300
355
6555
6755
4550
1815
19.5 / 29.5
0.33 / 0.42
0.48 / 0.40
67000 / 38000
21.2 / 19.7
Pneumatic
0D40 T
6D16-TL
100
2200
6 / 7550
Powershift/3
206
206
85
Pin









### **Lower Cost of Ownership**

- 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**

- High-powered 6D16 in-line 6-cylinder 7.5 litre diesel engine provides superior performance.
- Automatic transmission in drive train converts engine power directly into torque, with three forward and three reverse speeds, to tackle heavy-duty applications effectively.
- Low-speed torque delivers controlled but powerful acceleration for maximum productivity, while fast-response turbocharger further enhances 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 rubbermounted 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.
- 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 legroom allow each user to find the perfect driving position.
- Conveniently placed grab bars and steps ease access to operator compartment.

#### **Options**

- Oil-cooled disc brakes.
- Fingertip hydraulic control (electric over hydraulic).
- Wide range of side shifters and fork positioners.
- Options for operation in dusty environments.
- Working light and rear mirror kit options for increased safety.

## Cat® Lift Trucks.

## Your partner in materials handling.

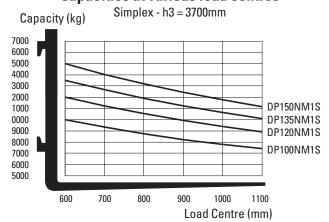
	DP100NM1S						
Mast Type	h3	h1	h4	h2/h5	Tilt angle Fwd./Bwd.	Q @ c = 600mm	
	mm	mm	mm	mm	deg	kg	
Simplex	3000	3090	4490	70	15 / 12	10000	
	3300	3240	4790	70	15 / 12	10000	
	3500	3340	4990	70	15 / 12	10000	
	3700	3440	5190	70	15 / 12	10000	
	4000	3590	5490	70	15 / 12	10000	
	4500	3840	5990	70	15 / 12	10000	
	5000	4090	6490	70	15 / 12	10000	
	5500	4340	6990	70	15 / 12	10000	
	6000	4640	7490	70	6/6	9800	
	6600	4940	8090	70	6/6	9400	
	7000	5190	8490	70	6/6	9200	

			DP12	ONM1S		
Mast Type	h3	h1	h4	h2/h5	Tilt angle Fwd./Bwd.	Q.@ c = 600mm
	mm	mm	mm	mm	deg	kg
Simplex	3000	3090	4490	75	15 / 12	12000
	3300	3240	4790	75	15 / 12	12000
	3500	3340	4990	75	15 / 12	12000
	3700	3440	5190	75	15 / 12	12000
	4000	3590	5490	75	15 / 12	12000
	4500	3840	5990	75	15 / 12	12000
	5000	4090	6490	75	15 / 12	12000
	5500	4340	6990	75	15 / 12	12000
	6000	4640	7490	75	6/6	11800
	6600	4940	8090	75	6/6	11300
	7000	5190	8490	75	6/6	11100

			DP13	5NM1S		
Mast Type	h3	h1	h4	h2/h5	Tilt angle Fwd./Bwd.	Q @ c = 600mm
	mm	mm	mm	mm	deg	kg
Simplex	3000	3335	4930	90	15 / 12	13500
	3300	3485	5230	90	15 / 12	13500
	3500	3635	5430	90	15 / 12	13500
	3700	3735	5630	90	15 / 12	13500
	4000	3885	5930	90	15 / 12	13500
	4500	4135	6430	90	15 / 12	13500
	5000	4385	6930	90	15 / 12	13500
	5500	4685	7430	90	15 / 12	13500
	6000	4935	7930	90	6/6	13300
	6600	5285	8530	90	6/6	12800
	7000	5485	8930	90	6/6	12600

			DP15	ONM1S		
Mast Type	h3	h1	h4	h2/h5	Tilt angle Fwd./Bwd.	Q.@ c = 600mm
	mm	mm	mm	mm	deg	kg
Simplex	3000	3335	4930	90	15 / 12	15000
	3300	3485	5230	90	15 / 12	15000
	3500	3585	5430	90	15 / 12	15000
	3700	3685	5630	90	15 / 12	15000
	4000	3885	5930	90	15 / 12	15000
	4500	4135	6430	90	15 / 12	15000
	5000	4385	6930	90	15 / 12	13500
	5500	4685	7430	90	15 / 12	15000
	6000	4935	7930	90	6/6	14600
	6600	5285	8530	90	6/6	14200
	7000	5485	8930	90	6/6	13800

## **Capacities at various load centres**



## 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)

## info@catlifttruck.com www.catlifttruck.com

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