



DP80N - DP90N - DP100N - DP120N DP135N - DP150N - DP160N

Specifications

Engine powered lift trucks

8.0 - 16.0 tonnes

| Characteristics | | | Cat Lift Trucks | Cat Lift Trucks | Cat Lift Trucks | Cat Lift Trucks | Cat Lift Trucks | Cat Lift Trucks | Cat Lift Trucks | Cat Lift Trucks |
|---------------------|--|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|
| 1.01 | Manufacturer (abbreviation) | | DP80N | DP90N | DP100N | DP120N | DP135N | DP150N | DP160N | DP160N |
| 1.02 | Manufacturer's model designation | | Diesel | Diesel | Diesel | Diesel | Diesel | Diesel | Diesel | Diesel |
| 1.03 | Power source: (battery, diesel, LP gas, petrol) | | Seated | Seated | Seated | Seated | Seated | Seated | Seated | Seated |
| 1.04 | Operator type: pedestrian, (operator)-standing, -seated | | Q (kg) | 8000 | 9000 | 10000 | 12000 | 13500 | 15000 | 16000 |
| 1.05 | Load capacity | | c (mm) | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| 1.06 | Load centre distance | | x (mm) | 675 | 755 | 755 | 765 | 795 | 795 | 805 |
| 1.08 | Load distance, axle to fork face | | y (mm) | 2650 | 2650 | 2800 | 2800 | 2800 | 3100 | 3300 |
| 1.09 | Wheelbase | | | | | | | | | |
| Weight | | | | | | | | | | |
| 2.01 | Truck weight, without load / including battery (simplex mast, lowest) | kg | 11740 | 13510 | 14800 | 16060 | 17700 | 18050 | 18950 | 18950 |
| 2.02 | Axle loading with maximum load, front/rear (simplex mast, lowest lift) | kg | 17740/2000 | 20290/2220 | 22290/2510 | 25190/2870 | 28060/3140 | 29930/3120 | 31720/3230 | 31720/3230 |
| 2.03 | Axle loading without load, front/rear (simplex mast, lowest lift height) | kg | 5890/5850 | 6685/6825 | 7450/7350 | 7340/8720 | 7850/9850 | 8190/9860 | 8910/10040 | 8910/10040 |
| Wheels, Drive Train | | | | | | | | | | |
| 3.01 | Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear | | L/L | L/L | L/L | L/L | L/L | L/L | L/L | L/L |
| 3.02 | Tyre dimensions, front | | 9.00-20-12PR | 9.00-20-14PR | 10.00-20-14PR | 10.00-20-16PR | 12.00-20-18PR | 12.00-20-18PR | 12.00-20-20PR | 12.00-20-20PR |
| 3.03 | Tyre dimensions, rear | | 9.00-20-12PR | 9.00-20-14PR | 10.00-20-14PR | 10.00-20-16PR | 12.00-20-18PR | 12.00-20-18PR | 12.00-20-20PR | 12.00-20-20PR |
| 3.05 | Number of wheels, front/rear (x=driven) | | 4x/2 | 4x/2 | 4x/2 | 4x/2 | 4x/2 | 4x/2 | 4x/2 | 4x/2 |
| 3.06 | Track width (centre of tyres), front | b10 (mm) | 1820 | 1820 | 1900 | 1900 | 1905 | 1905 | 1905 | 1905 |
| 3.07 | Track width (centre of tyres), rear | b11 (mm) | 1755 | 1755 | 1965 | 1965 | 1925 | 1925 | 1925 | 1890 |
| Dimensions | | | | | | | | | | |
| 4.01 | Mast tilt, forwards/backwards | α/β ° | 15/12 | 15/12 | 15/12 | 15/12 | 15/12 | 15/12 | 15/12 | 15/12 |
| 4.02 | Height with mast lowered (see tables) | h1 (mm) | 3275 | 3520 | 3590 | 3590 | 3885 | 3885 | 4035 | 4035 |
| 4.03 | Free lift (see tables) | h2 (mm) | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.04 | Lift height (see tables) | h3 (mm) | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 |
| 4.05 | Overall height with mast raised | h4 (mm) | 5325 | 5490 | 5590 | 5590 | 5930 | 5930 | 6035 | 6035 |
| 4.07 | Height to top of overhead guard | h6 (mm) | 2845 | 2845 | 2915 | 2915 | 2960 | 2960 | 2960 | 2960 |
| 4.08 | Seat height | h7 (mm) | 1800 | 1800 | 1875 | 1875 | 1915 | 1915 | 1915 | 1915 |
| 4.12 | Tow coupling height | h10 (mm) | 565 | 565 | 695 | 695 | 735 | 735 | 735 | 735 |
| 4.19 | Overall length | l1 (mm) | 5285 | 5460 | 5510 | 5595 | 5750 | 6050 | 6260 | 6260 |
| 4.20 | Length to fork face (includes fork thickness) | l2 (mm) | 4065 | 4240 | 4295 | 4375 | 4530 | 4830 | 5040 | 5040 |
| 4.21 | Overall width | b1/b2 (mm) | 2390 | 2390 | 2515 | 2515 | 2600 | 2600 | 2635 | 2635 |
| 4.22 | Fork dimensions (thickness, width, length) | s, e, l (mm) | 64/180/1220 | 72/180/1220 | 72/180/1220 | 79/180/1220 | 88/180/1220 | 88/180/1220 | 92/180/1220 | 92/180/1220 |
| 4.23 | Fork carriage to DIN 15 173 A/B/no | | No | No | No | No | No | No | No | No |
| 4.24 | Fork carriage width | b3 (mm) | 1825 | 2210 | 2210 | 2210 | 2220 | 2220 | 2220 | 2220 |
| 4.31 | Ground clearance under mast, with load | m1 (mm) | 215 | 205 | 220 | 220 | 260 | 260 | 260 | 260 |
| 4.32 | Ground clearance at centre of wheelbase, with load (forks lowered) | m2 (mm) | 230 | 230 | 275 | 275 | 320 | 320 | 320 | 320 |
| 4.33 | Working aisle width with 1000 x1200 mm pallets, crosswise | Ast (mm) | 5925 | 6105 | 6165 | 6235 | 6365 | 6755 | 7030 | 7030 |
| 4.34 | Working aisle width with 800 x1200 mm pallets, crosswise | Ast (mm) | - | - | - | - | - | - | - | 3505 |
| 4.35 | Turning circle radius | Wa (mm) | 3830 | 3930 | 3990 | 4050 | 4150 | 4545 | 4805 | 4805 |
| 4.36 | Minimum distance between centres of rotation | b13 (mm) | 1535 | 1535 | 1550 | 1550 | 1550 | 1805 | 1975 | 1975 |
| Performance | | | | | | | | | | |
| 5.01 | Travel speed, with/without load | km/h | 27/31 | 26/30 | 24/29 | 23/29 | 23/30 | 23/30 | 22/30 | 22/30 |
| 5.02 | Lifting speed, with/without load | m/s | 0.55/0.57 | 0.44/0.46 | 0.46/0.48 | 0.46/0.48 | 0.38/0.40 | 0.38/0.40 | 0.35/0.37 | 0.35/0.37 |
| 5.03 | Lowering speed, with/without load | m/s | 0.55/0.50 | 0.44/0.40 | 0.46/0.50 | 0.46/0.50 | 0.48/0.51 | 0.48/0.51 | 0.44/0.47 | 0.44/0.47 |
| 5.05 | Rated drawbar pull, with/without load | N | 85600/40700 | 84800/46200 | 86500/50200 | 85700/49700 | 78800/51800 | 78400/55200 | 77900/60300 | 77900/60300 |
| 5.07 | Gradeability, with/without load | % | 49/31 | 39/28 | 38/30 | 33/27 | 27/26 | 25/27 | 23/29 | 23/29 |
| 5.09 | Acceleration time (10 metres) with/without load | s | - | - | - | - | - | - | - | - |
| 5.10 | Service brakes (mechanical/hydraulic/electric/pneumatic) | | Drum/Pneumatic - Hydr | Drum/Pneumatic - Hydr | Drum/Pneumatic - Hydr | Drum/Pneumatic - Hydr | Drum/Pneumatic - Hydr | Drum/Pneumatic - Hydr | WDB/Pneumatic - Hydr | WDB/Pneumatic - Hydr |
| IC Engine | | | | | | | | | | |
| 7.01 | Manufacturer / Type | | 6M60-TL | 6M60-TL | 6M60-TL | 6M60-TL | 6M60-TL | 6M60-TL | 6M60-TL | 6M60-TL |
| 7.02 | Rated output to ISO 1585 | kW | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| 7.03 | Rated speed to DIN 70 020 | rpm | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| 7.04 | Number of cylinders / cubic capacity | cm ³ | 6/7545 | 6/7545 | 6/7545 | 6/7545 | 6/7545 | 6/7545 | 6/7545 | 6/7545 |
| 7.05 | Fuel consumption according to VDI 45 cycle | l/h / kg/h | 7.0 | 7.0 | 8.0 | 8.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| Miscellaneous | | | | | | | | | | |
| 8.01 | Type of drive control | | Torque converter | Torque converter | Torque converter | Torque converter | Torque converter | Torque converter | Torque converter | Torque converter |
| 8.02 | Maximum operating pressure for attachments | bar | 181 | 181 | 206 | 206 | 206 | 206 | 206 | 206 |
| 8.03 | Oil flow for attachments | l/min | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 8.04 | Noise level, value at operator's ear (EN 12053) | dB(A) | - | - | - | - | - | - | - | - |
| 8.05 | Towing coupling design / DIN type, ref. | | Pin | Pin | Pin | Pin | Pin | Pin | Pin | Pin |



Cat® Lift Trucks.

Your partner in materials handling.

Since the 1960's we have been producing lift trucks designed to last and built to perform in some of the toughest environments in the world. Today those brand values of ruggedness, durability and serviceability are at the core of our complete range of lift truck and warehouse equipment.

Together with our dealer network we are dedicated to providing customers with comprehensive materials handling solutions and cost-effective machine selection.

Our 'off the shelf' parts availability in excess of 95% is the highest in the industry and is supported by online access to our other centralized departments in the USA, Singapore and Japan to provide a truly global service. We offer a variety of warranties and maintenance contracts tailored to your specific needs. Cat-trained service technicians respond quickly and efficiently when required, to keep your materials handling operation running smoothly and profitably.

To help spread the cost of ownership we also provide a full range of finance and rental options. For customers with continental operations our 'International Fleet Sales & Services' department delivers the benefits of the global Cat Lift Trucks network, through a single point of contact. For cost-effective solutions, or to find your nearest dealer, contact Cat Lift Trucks, your partner in materials handling.

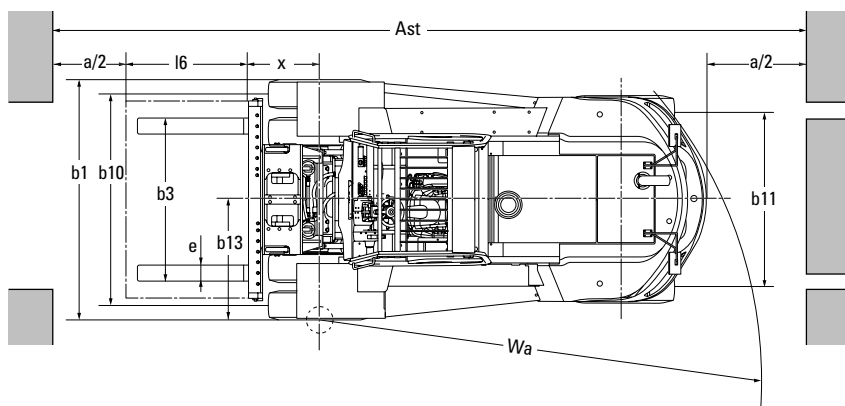
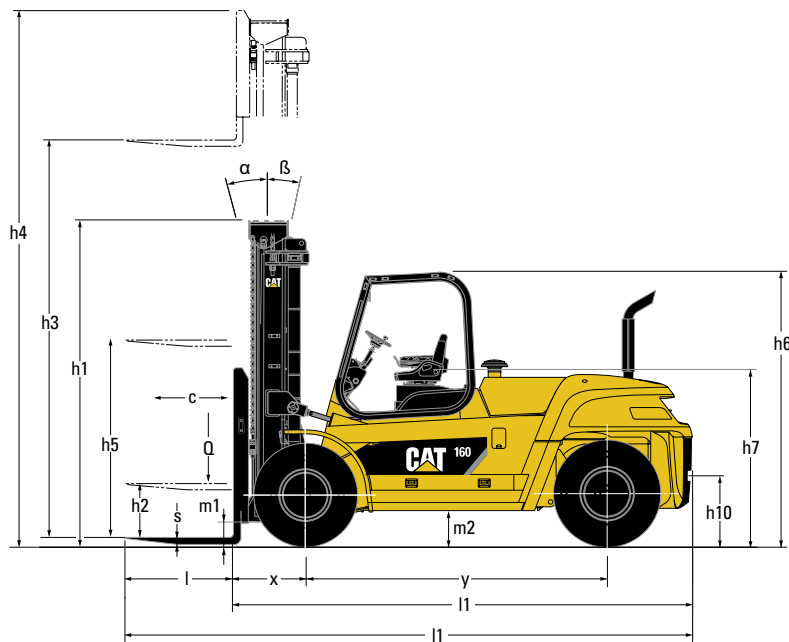


catliftruck@mcf.nl
www.catliftruck.com

CESC1079(08/08)
Copyright ©2008, MCFE. All rights reserved.
CATERPILLAR, CAT, their respective logos,
'Caterpillar yellow' and the 'POWER EDGE' trade dress,
as well as corporate and product identity used herein,
are trademarks of Caterpillar and may not be used
without permission.
Printed in The Netherlands

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.

CAT® Lift
Trucks



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

Lower Cost of Ownership

- Design improvements have extended the service intervals to 500* hours, thus reducing the total cost of ownership.
- Vehicle Control Unit controls various functions and allows easy troubleshooting of electronic components.
- Tilt able operator compartment for unobstructed service and reduction of down time.

Unmatched Productivity

- Complete model line up with capacities from 8 - 16 tonne at 600 mm load centre.
- Diesel engine is stage III A compliant according to directive 97/68/EC, amended by 2004/26/EC, due to the use of common rail technology in combination with turbo charger, intercooler, exhaust gas recirculation and a positive crankcase ventilation for low emissions of harmful exhaust gasses.
- Powerful 6M60-TL engine with high output and torque at low rpm's to match performance and extend service life.
- High lift speed, drawbar pull and gradeability for excellent productivity.
- The range has a modern N-range family styling, consistent with smaller ranges.

Safety and Ergonomics

- Safety seat switch prevents truck operation when the operator is not seated.
- Low noise levels which increase operator comfort.
- Advanced fingertip hydraulic controls mounted on an adjustable armrest for optimum load handling precision.
- Automotive style pedal layout.
- Adjustable steering column for comfortable operation.

Options

- Oil cooled disc brakes optional on the complete range (std on 16 ton) for lower operational costs in hard applications.
- Lever hydraulic control (electric over hydraulic)
- Optional cabin with excellent functionality including:
 1. Full lining, optional heater with defrosting and air conditioning for excellent operator comfort
 2. All controls and switches are clustered for improved comfort
 3. Cabin has flat windows for easy and cost effective service replacement
 4. Optional audio preparation

* Conditions apply

| DP80N | | | | | | |
|-----------|------|------|------|------------|-------|------------------------|
| Mast Type | h3 | h1 | h4 | Tilt Angle | h2/h5 | Q @ c = 600mm kg |
| | mm | mm | mm | | mm | |
| Simplex | 3000 | 2775 | 4325 | 15-12 | 160 | 8000 |
| | 3300 | 2925 | 4625 | 15-12 | 160 | 8000 |
| | 3500 | 3025 | 4825 | 15-12 | 160 | 8000 |
| | 3700 | 3125 | 5025 | 15-12 | 160 | 8000 |
| | 4000 | 3275 | 5325 | 15-12 | 160 | 8000 |
| | 4500 | 3525 | 5825 | 15-12 | 160 | 8000 |
| | 5000 | 3875 | 6325 | 15-12 | 160 | 8000 |
| | 5500 | 4125 | 6825 | 6-6 | 160 | 7800 |
| | 6000 | 4375 | 7325 | 6-6 | 160 | 7600 |
| | 6500 | 4625 | 7825 | 6-6 | 160 | 7400 |
| 7000 | 4875 | 8325 | 6-6 | 160 | 5800 | |
| Triplex | 3700 | 2575 | 5025 | 6-6 | 1255 | 7500 |
| | 4000 | 2675 | 5325 | 6-6 | 1355 | 7500 |
| | 4300 | 2775 | 5625 | 6-6 | 1455 | 7500 |
| | 4500 | 2850 | 5835 | 6-6 | 1525 | 7500 |
| | 4700 | 2925 | 6025 | 6-6 | 1625 | 7500 |
| | 5000 | 3025 | 6325 | 6-6 | 1705 | 7500 |
| | 5500 | 3275 | 6825 | 6-6 | 1955 | 7200 |
| | 6000 | 3445 | 7335 | 6-6 | 2125 | 6800 |
| | 6500 | 3625 | 7825 | 6-6 | 2305 | 6500 |
| | 7000 | 3775 | 8325 | 6-6 | 2455 | 5800 |
| | 7500 | 3945 | 8835 | 6-6 | 2625 | 5100 |
| | 8000 | 4125 | 9325 | 6-6 | 2805 | 4500 |

| DP90N | | | | | | |
|-----------|------|------|------|------------|-------|------------------------|
| Mast Type | h3 | h1 | h4 | Tilt Angle | h2/h5 | Q @ c = 600mm kg |
| | mm | mm | mm | | mm | |
| Simplex | 3000 | 2970 | 4490 | 15-12 | - | 9000 |
| | 3300 | 3120 | 4790 | 15-12 | - | 9000 |
| | 3500 | 3270 | 4990 | 15-12 | - | 9000 |
| | 3700 | 3370 | 5190 | 15-12 | - | 9000 |
| | 4000 | 3520 | 5490 | 15-12 | - | 9000 |
| | 4500 | 3820 | 5990 | 15-12 | - | 9000 |
| | 5000 | 4070 | 6490 | 15-12 | - | 9000 |
| | 5500 | 4320 | 6990 | 6-6 | - | 8700 |
| | 6000 | 4620 | 7490 | 6-6 | - | 8400 |
| | 6500 | 4870 | 7990 | 6-6 | - | 8000 |
| | 7000 | 5170 | 8490 | 6-6 | - | 6600 |

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)

| DP100N-DP120N | | | | DP100N | | | DP120N | |
|---------------|------|------|------|------------|-------|------------------------|--------|------------------------|
| Mast Type | h3 | h1 | h4 | Tilt Angle | h2/h5 | Q @ c = 600mm kg | h2/h5 | Q @ c = 600mm kg |
| | mm | mm | mm | | mm | | mm | |
| Simplex | 3000 | 3090 | 4590 | 15-12 | - | 10000 | - | 12000 |
| | 3300 | 3240 | 4890 | 15-12 | - | 10000 | - | 12000 |
| | 3500 | 3340 | 5090 | 15-12 | - | 10000 | - | 12000 |
| | 3700 | 3440 | 5290 | 15-12 | - | 10000 | - | 12000 |
| | 4000 | 3590 | 5590 | 15-12 | - | 10000 | - | 12000 |
| | 4500 | 3840 | 6090 | 15-12 | - | 10000 | - | 12000 |
| | 5000 | 4090 | 6590 | 15-12 | - | 10000 | - | 12000 |
| | 5500 | 4340 | 7090 | 15-12 | - | 10000 | - | 12000 |
| | 6000 | 4640 | 7640 | 6-6 | - | 9800 | - | 11800 |
| | 6500 | 4890 | 8140 | 6-6 | - | 9600 | - | 11400 |
| 7000 | 5190 | 8690 | 6-6 | - | 9200 | - | 11100 | |

| DP135N | | | | | | |
|-----------|------|------|------|------------|-------|------------------------|
| Mast Type | h3 | h1 | h4 | Tilt Angle | h2/h5 | Q @ c = 600mm kg |
| | mm | mm | mm | | mm | |
| Simplex | 3000 | 3335 | 4930 | 15-12 | - | 13500 |
| | 3300 | 3485 | 5230 | 15-12 | - | 13500 |
| | 3500 | 3635 | 5430 | 15-12 | - | 13500 |
| | 3700 | 3735 | 5360 | 15-12 | - | 13500 |
| | 4000 | 3885 | 5930 | 15-12 | - | 13500 |
| | 4500 | 4135 | 6430 | 15-12 | - | 13500 |
| | 5000 | 4385 | 6930 | 15-12 | - | 13500 |
| | 5500 | 4685 | 7435 | 15-12 | - | 13500 |
| | 6000 | 4935 | 7935 | 6-6 | - | 13300 |
| | 6500 | 5235 | 8485 | 6-6 | - | 12900 |
| | 7000 | 5485 | 8985 | 6-6 | - | 12600 |

| DP150N | | | | | | |
|-----------|------|------|------|------------|-------|------------------------|
| Mast Type | h3 | h1 | h4 | Tilt Angle | h2/h5 | Q @ c = 600mm kg |
| | mm | mm | mm | | mm | |
| Simplex | 3000 | 3335 | 4930 | 15-12 | - | 15000 |
| | 3300 | 3485 | 5230 | 15-12 | - | 15000 |
| | 3500 | 3585 | 5430 | 15-12 | - | 15000 |
| | 3700 | 3685 | 5630 | 15-12 | - | 15000 |
| | 4000 | 3885 | 5930 | 15-12 | - | 15000 |
| | 4500 | 4135 | 6430 | 15-12 | - | 15000 |
| | 5000 | 4385 | 6930 | 15-12 | - | 15000 |
| | 5500 | 4685 | 7435 | 15-12 | - | 15000 |
| | 6000 | 4935 | 7935 | 6-6 | - | 14600 |
| | 6500 | 5235 | 8485 | 6-6 | - | 14200 |
| | 7000 | 5485 | 8985 | 6-6 | - | 13800 |

| DP160N | | | | | | |
|-----------|------|------|------|------------|-------|------------------------|
| Mast Type | h3 | h1 | h4 | Tilt Angle | h2/h5 | Q @ c = 600mm kg |
| | mm | mm | mm | | mm | |
| Simplex | 3000 | 3535 | 5035 | 15-12 | - | 16000 |
| | 3300 | 3685 | 5335 | 15-12 | - | 16000 |
| | 3500 | 3785 | 5535 | 15-12 | - | 16000 |
| | 3700 | 3885 | 5735 | 15-12 | - | 16000 |
| | 4000 | 4035 | 6035 | 15-12 | - | 16000 |
| | 4500 | 4285 | 6535 | 15-12 | - | 16000 |
| | 5000 | 4535 | 7035 | 15-12 | - | 16000 |
| | 5500 | 4835 | 7585 | 15-12 | - | 16000 |
| | 6000 | 5085 | 8085 | 6-6 | - | 15800 |
| | 6500 | 5385 | 8635 | 6-6 | - | 15300 |
| | 7000 | 5635 | 9135 | 6-6 | - | 14900 |

Capacities at various load centers
Simplex - h3 = 3700mm

