

# Cat® Lift Trucks.

Your partner in materials handling.

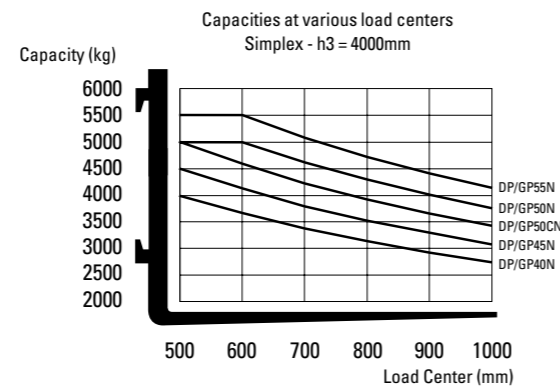
| DP/GP40N - DP/GP45N |      |      |      |       | DP/GP40N         |                  | DP/GP45N         |                  |
|---------------------|------|------|------|-------|------------------|------------------|------------------|------------------|
| Mast Type           | h3   | h1   | h4   | h2/h5 | Q @<br>c = 500mm | Q @<br>c = 600mm | Q @<br>c = 500mm | Q @<br>c = 600mm |
|                     | mm   | mm   | mm   | mm    | kg               | kg               | kg               | kg               |
| Simplex             | 3000 | 2170 | 4130 | 150   | 4000             | 3500             | 4500             | 4000             |
|                     | 3300 | 2320 | 4430 | 150   | 4000             | 3500             | 4500             | 4000             |
|                     | 3700 | 2520 | 4830 | 150   | 4000             | 3500             | 4500             | 4000             |
|                     | 4000 | 2700 | 5130 | 150   | 4000             | 3500             | 4500             | 4000             |
|                     | 4500 | 3000 | 5630 | 150   | 4000             | 3500             | 4500             | 4000             |
|                     | 5000 | 3250 | 6130 | 150   | 3850             | 3500             | 4500             | 4000             |
|                     | 5500 | 3500 | 6630 | 150   | 3050             | 3050             | 3600             | 3400             |
|                     | 6000 | 3750 | 7130 | 150   | 2400             | 2400             | 2700             | 2700             |
| Duplex              | 3000 | 2170 | 4130 | 1090  | 4000             | 3500             | 4500             | 4000             |
|                     | 3300 | 2320 | 4430 | 1240  | 4000             | 3500             | 4500             | 4000             |
|                     | 3700 | 2520 | 4830 | 1440  | 4000             | 3500             | 4500             | 4000             |
|                     | 4100 | 2700 | 5190 | 1620  | 4000             | 3500             | 4500             | 4000             |
| Triplex             | 3700 | 1950 | 4830 | 870   | 4000             | 3500             | 4500             | 4000             |
|                     | 4000 | 2050 | 5130 | 970   | 4000             | 3500             | 4500             | 4000             |
|                     | 4360 | 2170 | 5490 | 1090  | 4000             | 3500             | 4500             | 4000             |
|                     | 4700 | 2285 | 5830 | 1200  | 3900             | 3500             | 4500             | 4000             |
|                     | 5050 | 2400 | 6180 | 1320  | 3800             | 3500             | 4500             | 4000             |
|                     | 5500 | 2550 | 6630 | 1470  | 3050             | 3050             | 3600             | 3500             |
|                     | 6000 | 2750 | 7130 | 1670  | 2400             | 2400             | 2700             | 2700             |
|                     | 6500 | 2950 | 7630 | 1870  | 1900             | 1900             | 2100             | 2100             |
|                     | 7000 | 3150 | 8130 | 2070  | 1500             | 1500             | 1600             | 1600             |

| DP/GP50CN |      |      |      |       |                  |                  |  |
|-----------|------|------|------|-------|------------------|------------------|--|
| Mast Type | h3   | h1   | h4   | h2/h5 | Q @<br>c = 500mm | Q @<br>c = 600mm |  |
|           | mm   | mm   | mm   | mm    | kg               | kg               |  |
| Simplex   | 3000 | 2250 | 4130 | 150   | 5000             | 4500             |  |
|           | 3300 | 2400 | 4430 | 150   | 5000             | 4500             |  |
|           | 3700 | 2600 | 4830 | 150   | 5000             | 4500             |  |
|           | 4000 | 2850 | 5130 | 150   | 5000             | 4500             |  |
|           | 4500 | 3100 | 5630 | 150   | 5000             | 4500             |  |
|           | 5000 | 3350 | 6130 | 150   | 5000             | 4500             |  |
|           | 5500 | 3600 | 6630 | 150   | 3600             | 3400             |  |
|           | 6000 | 3850 | 7130 | 150   | 2700             | 2700             |  |
| Duplex    | 2970 | 2250 | 4100 | 1170  | 5000             | 4500             |  |
|           | 3300 | 2400 | 4410 | 1320  | 5000             | 4500             |  |
|           | 4100 | 2850 | 5210 | 1770  | 5000             | 4500             |  |
| Triplex   | 3700 | 2050 | 4830 | 970   | 5000             | 4500             |  |
|           | 4040 | 2170 | 5170 | 1090  | 5000             | 4500             |  |
|           | 4310 | 2260 | 5440 | 1180  | 5000             | 4500             |  |
|           | 4750 | 2400 | 5880 | 1320  | 5000             | 4500             |  |
|           | 5050 | 2500 | 6180 | 1420  | 5000             | 4500             |  |
|           | 5500 | 2650 | 6630 | 1570  | 3600             | 3500             |  |
|           | 6000 | 2850 | 7130 | 1770  | 2700             | 2700             |  |
|           | 6500 | 3050 | 7630 | 1970  | 2100             | 2100             |  |
|           | 7000 | 3250 | 8130 | 2170  | 1600             | 1600             |  |

| DP/GP50N - DP/GP55N |      |      |      |       | DP/GP50N         | DP/GP55N         |
|---------------------|------|------|------|-------|------------------|------------------|
| Mast Type           | h3   | h1   | h4   | h2/h5 | Q @<br>c = 600mm | Q @<br>c = 600mm |
|                     | mm   | mm   | mm   | mm    | kg               | kg               |
| Simplex             | 3000 | 2250 | 4280 | 160   | 5000             | 5500             |
|                     | 3300 | 2400 | 4580 | 160   | 5000             | 5500             |
|                     | 3700 | 2600 | 4980 | 160   | 5000             | 5500             |
|                     | 4000 | 2850 | 5280 | 160   | 5000             | 5500             |
|                     | 4500 | 3100 | 5780 | 160   | 5000             | 5500             |
|                     | 5000 | 3350 | 6280 | 160   | 5000             | (4800)           |
|                     | 5500 | 3600 | 6780 | 160   | 3400             | 3400             |
|                     | 6000 | 3850 | 7280 | 160   | 2700             | (2600)           |
| Duplex              | 3000 | 2250 | 4250 | 1030  | 5000             | 5500             |
|                     | 3300 | 2400 | 4560 | 1180  | 5000             | 5500             |
|                     | 4100 | 2850 | 5360 | 1630  | 5000             | 5500             |
| Triplex             | 3700 | 2050 | 4980 | 830   | 5000             | 5500             |
|                     | 4040 | 2170 | 5320 | 950   | 5000             | 5500             |
|                     | 4310 | 2260 | 5590 | 1040  | 5000             | 5500             |
|                     | 4750 | 2400 | 6030 | 1180  | 5000             | 5450             |
|                     | 5050 | 2500 | 6330 | 1280  | 5000             | (4700)           |
|                     | 5500 | 2650 | 6780 | 1430  | 3500             | 3550             |
|                     | 6000 | 2850 | 7280 | 1630  | 2700             | (2600)           |
|                     | 6500 | 3050 | 7780 | 1830  | 2100             | (2000)           |
|                     | 7000 | 3250 | 8280 | 2030  | 1700             | (1550)           |

## 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)



Some values for DP/GP55N are shown in brackets to highlight lower values when compared with the DP/GP50N.

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CEC1043(11/09)ok  
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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.



## DP/GP40N - DP/GP45N - DP/GP50CN DP/GP50N - DP/GP55N

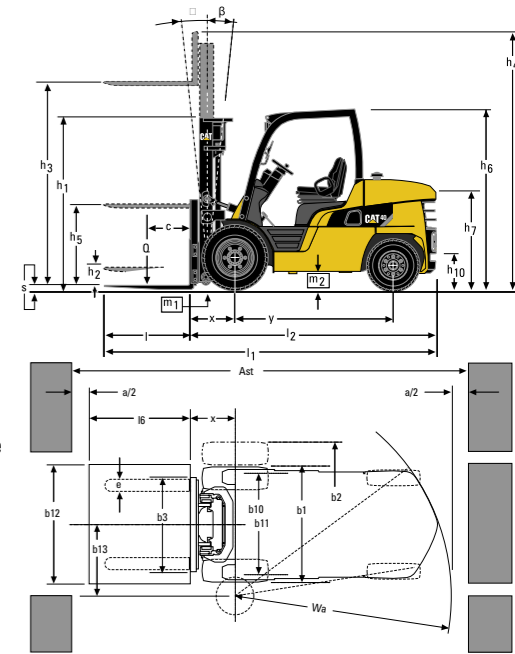
Specifications

Engine powered lift trucks  
4.0 - 5.5 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 | Cat Lift Trucks | Cat Lift Trucks | Cat Lift Trucks | Cat Lift Trucks |                |
|----------------------------|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| 1.01                       | Manufacturer (abbreviation)   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                |
| 1.02                       | Manufacturer's model designation  | DP40N           | DP45N           | DP50CN          | DP50N           | DP55N           |                 |                 |                 | GP40N           | GP45N           | GP50CN          | GP50N           | GP55N          |
| 1.03                       | Power source: (battery, diesel, LP gas, petrol)                                   | Diesel          | Diesel          | Diesel          | Diesel          | Diesel          |                 |                 |                 | LPG             | LPG             | LPG             | LPG             | LPG            |
| 1.04                       | Operator type: pedestrian, (operator)-standing, -seated                           | Seated          | Seated          | Seated          | Seated          | Seated          |                 |                 |                 | Seated          | Seated          | Seated          | Seated          | Seated         |
| 1.05                       | Load capacity   | Q (kg)          | 4000            | 4500            | 5000            | 5000            | 5500            |                 |                 | 4000            | 4500            | 5000            | 5000            | 5500           |
| 1.06                       | Load centre distance  | c (mm)          | 500             | 500             | 500             | 600             | 600             |                 |                 | 500             | 500             | 500             | 600             | 600            |
| 1.08                       | Load distance, axle to fork face  | x (mm)          | 577             | 577             | 582             | 602             | 602             |                 |                 | 577             | 577             | 582             | 602             | 602            |
| 1.09                       | Wheelbase   | y (mm)          | 1850            | 2000            | 2000            | 2150            | 2150            |                 |                 | 1850            | 2000            | 2000            | 2150            | 2150           |
| <b>Weight</b>              |   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                |
| 2.01                       | Truck weight, without load / including battery (simplex mast, lowest lift height) | kg              | 5920            | 6330            | 6850            | 7300            | 7640            |                 |                 | 5860            | 6270            | 6790            | 7240            | 7570           |
| 2.02                       | Axle loading with maximum load, front/rear (simplex mast, lowest lift height)     | kg              | 8960/960        | 9710/1130       | 10600/1250      | 11020/1280      | 11740/1400      |                 |                 | 8940/920        | 9680/1090       | 10570/1210      | 10990/1250      | 11710/1360     |
| 2.03                       | Axle loading without load, front/rear (simplex mast, lowest lift height)          | kg              | 2630/3290       | 2780/3550       | 2900/3950       | 3220/4080       | 3170/4470       |                 |                 | 2610/3250       | 2750/3520       | 2870/3920       | 3190/4050       | 3130/4440      |
| <b>Wheels, Drive Train</b> |   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                |
| 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             | L/L             | L/L            |
| 3.02                       | Tyre dimensions, front  |                 | 8.25-15-14PR    | 300-15-18PR     | 300-15-18PR     | 300-15-18PR     | 300-15-18PR     |                 |                 | 8.25-15-14PR    | 300-15-18PR     | 300-15-18PR     | 300-15-18PR     | 300-15-18PR    |
| 3.03                       | Tyre dimensions, rear   |                 | 7.00-12-14PR    | 7.00-12-14PR    | 7.00-12-14PR    | 7.00-12-14PR    | 7.00-12-14PR    |                 |                 | 7.00-12-14PR    | 7.00-12-14PR    | 7.00-12-14PR    | 7.00-12-14PR    | 7.00-12-14PR   |
| 3.05                       | Number of wheels, front/rear (x=driven)   |                 | 2x/2            | 2x/2            | 2x/2            | 2x/2            | 2x/2            |                 |                 | 2x/2            | 2x/2            | 2x/2            | 2x/2            | 2x/2           |
| 3.06                       | Track width (centre of tyres), front  | b10 (mm)        | 1175            | 1175            | 1175            | 1175            | 1175            |                 |                 | 1175            | 1175            | 1175            | 1175            | 1175           |
| 3.07                       | Track width (centre of tyres), rear   | b11 (mm)        | 1180            | 1180            | 1180            | 1180            | 1180            |                 |                 | 1180            | 1180            | 1180            | 1180            | 1180           |
| <b>Dimensions</b>          |   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                |
| 4.01                       | Mast tilt, forwards/backwards   | ∂/β °           | 6/10            | 6/10            | 6/10            | 6/10            | 6/10            |                 |                 | 6/10            | 6/10            | 6/10            | 6/10            | 6/10           |
| 4.02                       | Height with mast lowered (see tables)   | h1 (mm)         | 2320            | 2320            | 2400            | 2400            | 2400            |                 |                 | 2320            | 2320            | 2400            | 2400            | 2400           |
| 4.03                       | Free lift (see tables)  | h2 (mm)         | 150             | 150             | 150             | 160             | 160             |                 |                 | 150             | 150             | 150             | 160             | 160            |
| 4.04                       | Lift height (see tables)  | h3 (mm)         | 3300            | 3300            | 3300            | 3300            | 3300            |                 |                 | 3300            | 3300            | 3300            | 3300            | 3300           |
| 4.05                       | Overall height with mast raised   | h4 (mm)         | 3920            | 3920            | 4000            | 4000            | 4000            |                 |                 | 3920            | 3920            | 4000            | 4000            | 4000           |
| 4.07                       | Height to top of overhead guard   | h6 (mm)         | 2296            | 2296            | 2296            | 2296            | 2296            |                 |                 | 2296            | 2296            | 2296            | 2296            | 2296           |
| 4.08                       | Seat height   | h7 (mm)         | 1280            | 1280            | 1280            | 1280            | 1280            |                 |                 | 1280            | 1280            | 1280            | 1280            | 1280           |
| 4.12                       | Tow coupling height   | h10 (mm)        | 395             | 395             | 395             | 395             | 395             |                 |                 | 395             | 395             | 395             | 395             | 395            |
| 4.19                       | Overall length  | l1 (mm)         | 4220            | 4350            | 4390            | 4530            | 4580            |                 |                 | 4220            | 4350            | 4390            | 4530            | 4580           |
| 4.20                       | Length to fork face (includes fork thickness)                                     | l2 (mm)         | 3000            | 3130            | 3170            | 3310            | 3360            |                 |                 | 3000            | 3130            | 3170            | 3310            | 3360           |
| 4.21                       | Overall width   | b1/b2 (mm)      | 1415/1965       | 1460/1965       | 1460/1965       | 1460/1965       | 1460/1965       |                 |                 | 1415/1965       | 1460/1965       | 1460/1965       | 1460/1965       | 1460/1965      |
| 4.22                       | Fork dimensions (thickness, width, length)  | s, e, l (mm)    | 50x150x1220     | 50x150x1220     | 50x150x1220     | 60x150x1220     | 60x150x1220     |                 |                 | 50x150x1220     | 50x150x1220     | 50x150x1220     | 60x150x1220     | 60x150x1220    |
| 4.23                       | Fork carriage to DIN 15 173 A/B/no  |                 | 3A              | 3A              | 3A              | 4A              | 4A              |                 |                 | 3A              | 3A              | 3A              | 4A              | 4A             |
| 4.24                       | Fork carriage width   | b3 (mm)         | 1190            | 1190            | 1190            | 1190            | 1190            |                 |                 | 1190            | 1190            | 1190            | 1190            | 1190           |
| 4.31                       | Ground clearance under mast, with load  | m1 (mm)         | 150             | 150             | 150             | 150             | 150             |                 |                 | 150             | 150             | 150             | 150             | 150            |
| 4.32                       | Ground clearance at centre of wheelbase, with load (forks lowered)                | m2 (mm)         | 227             | 227             | 227             | 227             | 227             |                 |                 | 227             | 227             | 227             | 227             | 227            |
| 4.33                       | Working aisle width with 1000 x1200 mm pallets, crosswise                         | Ast (mm)        | 4357            | 4507            | 4542            | 4692            | 4742            |                 |                 | 4357            | 4507            | 4542            | 4692            | 4742           |
| 4.34                       | Working aisle width with 800 x1200 mm pallets, crosswise                          | Ast (mm)        | 4157            | 4307            | 4342            | 4492            | 4542            |                 |                 | 4157            | 4307            | 4342            | 4492            | 4542           |
| 4.35                       | Turning circle radius   | Wa (mm)         | 2580            | 2730            | 2760            | 2890            | 2940            |                 |                 | 2580            | 2730            | 2760            | 2890            | 2940           |
| 4.36                       | Minimum distance between centres of rotation                                      | b13 (mm)        | 836             | 903             | 903             | 971             | 971             |                 |                 | 836             | 903             | 903             | 971             | 971            |
| <b>Performance</b>         |   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                |
| 5.01                       | Travel speed, with/without load   | km/h            | 21.5/22.0       | 21.0/22.0       | 21.0/22.0       | 21.0/22.0       | 21.0/22.0       |                 |                 | 22.0/22.5       | 22.0/22.5       | 22.0/22.5       | 22.0/22.5       | 21.5/22.5      |
| 5.02                       | Lifting speed, with/without load  | m/s             | 0.55/0.61       | 0.55/0.61       | 0.47/0.53       | 0.47/0.53       | 0.47/0.53       |                 |                 | 0.57/0.60       | 0.57/0.60       | 0.49/0.52       | 0.49/0.52       | 0.49/0.52      |
| 5.03                       | Lowering speed, with/without load   | m/s             | 0.50/0.50       | 0.50/0.50       | 0.50/0.50       | 0.50/0.50       | 0.50/0.50       |                 |                 | 0.50/0.50       | 0.50/0.50       | 0.50/0.50       | 0.50/0.50       | 0.50/0.50      |
| 5.05                       | Rated drawbar pull, with/without load   | N               | 25000/17400     | 25000/18700     | 24700/19400     | 24500/21800     | 24200/21300     |                 |                 | 26000/17200     | 26000/18500     | 25500/19200     | 25500/21600     | 25000/21000    |
| 5.07                       | Gradeability, with/without load   | %               | 26.9/26.4       | 24.4/26.7       | 22.0/25.7       | 20.8/26.8       | 19.3/25.0       |                 |                 | 27.8/25.9       | 25.3/26.2       | 22.7/25.2       | 21.6/26.4       | 19.9/24.6      |
| 5.09                       | Acceleration time (10 metres) with/without load                                   | s               | 4.2/3.7         | 4.52/3.87       | 4.52/3.87       | 4.52/3.87       | 4.52/3.87       |                 |                 | 5.02/3.65       | 5.02/3.65       | 5.02/3.65       | 5.02/3.65       | 5.02/3.65      |
| 5.10                       | Service brakes (mechanical/hydraulic/electric/pneumatic)                          |                 | Hydraulic       | Hydraulic       | Hydraulic       | Hydraulic       | Hydraulic       |                 |                 | Hydraulic       | Hydraulic       | Hydraulic       | Hydraulic       | Hydraulic      |
| <b>I.C. Engine</b>         |   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                |
| 7.01                       | Manufacturer / Type   |                 | S6S             | S6S             | S6S             | S6S             | S6S             |                 |                 | TB45            | TB45            | TB45            | TB45            | TB45           |
| 7.02                       | Rated output to ISO 1585  | kW              | 57.4            | 57.4            | 57.4            | 57.4            | 57.4            |                 |                 | 71.8            | 71.8            | 71.8            | 71.8            | 71.8           |
| 7.03                       | Rated speed to DIN 70 020   | rpm             | 2300            | 2300            | 2300            | 2300            | 2300            |                 |                 | 2450            | 2450            | 2450            | 2450            | 2450           |
| 7.04                       | Number of cylinders / cubic capacity  | /cm3            | 6/4996          | 6/4996          | 6/4996          | 6/4996          | 6/4996          |                 |                 | 6/4500          | 6/4500          | 6/4500          | 6/4500          | 6/4500         |
| 7.05                       | Fuel consumption according to VDI 60 cycle  | l/h / kg/h      | *               | *               | *               | *               | *               |                 |                 | *               | *               | *               | *               | *              |
| <b>Miscellaneous</b>       |   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                |
| 8.01                       | Type of drive control   |                 | Powershift 2/1  | Powershift 2/1  | Powershift 2/1  | Powershift 2/1  | Powershift 2/1  |                 |                 | Powershift 2/1  | Powershift 2/1  | Powershift 2/1  | Powershift 2/1  | Powershift 2/1 |
| 8.02                       | Maximum operating pressure for attachments  | bar             | 191             | 191             | 191             | 191             | 191             |                 |                 | 191             | 191             | 191             | 191             | 191            |
| 8.03                       | Oil flow for attachments  | l/min           | -               | -               | -               | -               | -               |                 |                 | -               | -               | -               | -               | -              |
| 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             | Pin             | Pin            |

\*Available on request



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

- Specially positioned air intake system lengthens the life of air intake filter cartridges.
- LCD multi functional display with indicators providing all safety functions, allows for rapid trouble shooting.
- Long service interval.
- Fingertip hydraulic mast control.
- Durable transmission system giving smooth and accurate gear changes and low noise levels.
- Highly regarded, market proven industrial diesel and LPG engines give excellent performance.
- LED lights and LED front / rear combination lights.

### Unmatched Productivity

- Engine hour's timer keeps track of hours worked helping fleet managers to schedule regular maintenance.
- Compact design through all the range which increases maneuverability in space restricted areas.
- Cooling system designed to reduce blockages utilising pusher type radiator airflow.
- Wide variety of mast types and lifting heights allows the truck to be specified to your needs.
- High capacity ratings.
- Full floating power line featuring two forward speeds and one speed reverse with high gradeability and travel speed.
- Hydrostatic steering system makes maneuvering the truck light and easy.

- 5.5 tonnes capacity model gives greater versatility to satisfy customer requirements.

### Safety and Ergonomics

- PDS+, presence detection system disengages drive and hydraulic functions when the operator's seat is vacated.
- Electronic button operated parking brake.
- Operator identification system with Pin-code standard.
- Handgrip mounted at the rear of the overhead guard with a horn button contributes to reduce back strain and fatigue in applications with repetitive reversing.
- Hydraulic controlled drum brake system for increased safety.
- Adjustable steering column for comfortable operation.

### Options

- Electronic controlled diesel engine.
- Ground speed control.
- Load indicator on Simplex masts.
- "Dust prevention" and "Clogging prevention" packages.
- Panel cabin.
- Full tiltable cabin.
- Complete range of attachments.

