

8,000/9,000/10,000/11,000/12,000 lb Capacities

Engine Powered Forklift Trucks

Pneumatic Tire

MAIN VEHICLE SPECIFICATIONS

| | | | DOOSAN | DOOSAN | DOOSAN | DOOSAN | DOOSAN | | | |
|-----------------|--------------------|---|-------------------------------|-----------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|--------------|
| CHARACTERISTICS | 1 | Manufacture | | DOOSAN | DOOSAN | DOOSAN | DOOSAN | DOOSAN | | |
| | 2 | Model | | D35S-5 | D40S-5 | D45S-5 | D50C-5 | D55C-5 | | |
| | 3 | Load Capacity | at rated load center | lb(kg) | 8,000(3,500) | 9,000(4,000) | 10,000(4,500) | 11,000(5,000) | 12,000(5,500) | |
| | 4 | Load Center | | in(mm) | 24(600) | 24(600) | 24(600) | 24(600) | 24(600) | |
| | 5 | Power type | Elec, Diesel, LPG, Gasoline | | Diesel | Diesel | Diesel | Diesel | Diesel | |
| | 6 | Operator type | | | Driver-seated | Driver-seated | Driver-seated | Driver-seated | Driver-seated | |
| | 7 | Tire type | P:Pnu, E:Solid Soft, C: Cush | | P | P | P | P | P | |
| | 8 | Wheels (x=Driven) | Front / Rear | | x 2 / 2 | x 2 / 2 | x 2 / 2 | x 2 / 2 | x 2 / 2 | |
| DIMENSIONS | 9 | Max. Fork Height | with STD 2-stage mast | in(mm) | 118.1(3,000) | 118.1(3,000) | 118.1(3,000) | 120(3,050) | 120(3,050) | |
| | 10 | Free Lift | | in(mm) | 6.3(160) | 6.3(160) | 6.3(160) | 6.7(170) | 6.7(170) | |
| | 12 | Fork Carriage | ISO Class | | III | III | IV | IV | IV | |
| | 13 | Forks | Length x Width x Thickness | in(mm) | 41.3x5.9x2.0 (1,050x150x50) | 41.3x5.9x2.0 (1,050x150x50) | 47.2x5.9x2.0 (1,200x150x50) | 47.2x5.9x2.4 (1,200x150x60) | 47.2x5.9x2.4 (1,200x150x60) | |
| | | | Fork Spacing(Min x Max) | in(mm) | 12.2(310)/46.5(1,182) | 12.2(310)/46.5(1,182) | 13.4(340)/50.8(1,290) | 13.4(340)/50.8(1,290) | 13.4(340)/50.8(1,290) | |
| | 14 | Tilt of Mast | Forward / Backward | deg | 8 / 10 | 8 / 10 | 8 / 10 | 8 / 10 | 8 / 10 | |
| | 15 | | Length to Fork Face | in(mm) | 122.0(3,100) | 124.1(3,151) | 128.5(3,265) | 129.9(3,300) | 131.9(3,350) | |
| | 16 | Overall Dimensions | Overall Width | in(mm) | 54.0(1,372) | 57.1(1,451) | 57.1(1,451) | 57.1(1,451) | 57.1(1,451) | |
| | | | Mast Lowered Height | in(mm) | 87.6(2,225) | 87.8(2,230) | 87.8(2,230) | 93.7(2,380) | 93.7(2,380) | |
| | | | Mast Extended Height | in(mm) | 167.9(4,265) | 168.1(4,270) | 174.0(4,420) | 176.0(4,470) | 176.0(4,470) | |
| | | | Overhead Guard Height | in(mm) | 87.6(2,225) | 87.8(2,230) | 87.8(2,230) | 87.8(2,230) | 87.8(2,230) | |
| | | | Seat Height | in(mm) | 49.1(1,248) | 49.4(1,255) | 49.4(1,255) | 49.4(1,255) | 49.4(1,255) | |
| | 19 | | Turning Radius | Minimum outside | in(mm) | 109.1(2,770) | 111.0(2,820) | 112.8(2,865) | 115.4(2,930) | 117.7(2,990) |
| | 22 | Load Moment Center | | in(mm) | 22.1(561) | 22.1(561) | 22.1(561) | 22.5(571) | 22.5(571) | |
| | 23 | Aisle 90 degree stacking(add load length & clearance) | | in(mm) | 131.2(3,331) | 133.1(3,381) | 134.9(3,426) | 137.9(3,501) | 140.2(3,561) | |
| PERFORMANCE | 24 | Travel Speed | Loaded / Unloaded | mph(km/h) | 14.9 / 15.5 (24 / 25) | 14.9 / 15.5 (24 / 25) | 14.9 / 15.5 (24 / 25) | 14.9 / 15.5 (24 / 25) | 14.9 / 15.5 (24 / 25) | |
| | 25 | Lifting Speed | Loaded / Unloaded | fpm(mm/s) | 102.4 / 106.3 (520 / 540) | 102.4 / 106.3 (520 / 540) | 102.4 / 106.3 (520 / 540) | 92.5 / 106.3 (470 / 540) | 92.5 / 106.3 (470 / 540) | |
| | 26 | Lowering Speed | Loaded / Unloaded | fpm(mm/s) | 94.5 / 88.6 (480 / 450) | 94.5 / 88.6 (480 / 450) | 94.5 / 88.6 (480 / 450) | 96.5 / 88.6 (490 / 450) | 96.5 / 88.6 (490 / 450) | |
| | 28 | Max. drawbar pull | Loaded at 1.0 mph (1.6km / h) | lb(kg) | 7,275.2(3,300) | 7,275.2(3,300) | 7,495.7(3,400) | 7,716.1(3,500) | 7,936.6(3,600) | |
| | 30 | Max. gradeability | Loaded at 1.0 mph (1.7km / h) | % | 38 | 35 | 32 | 30 | 28 | |
| WEIGHT | 32 | Total Service Weight, Unloaded | | lb(kg) | 12,765(5,790) | 13,625(6,180) | 14,440(6,550) | 15,543(7,050) | 16,292(7,390) | |
| | 33 | Axle Load | Loaded, Front / Rear | lb(kg) | 18,111 / 2,370 (8,215 / 1,075) | 19,798 / 2,646 (8,980 / 1,200) | 21,605 / 2,756 (9,800 / 1,250) | 23,545 / 3,020 (10,680 / 1,370) | 25,067 / 3,351 (11,370 / 1,520) | |
| | | | Unloaded, Front / Rear | lb(kg) | 5,919 / 6,845 (2,685 / 3,105) | 5,864 / 7,760 (2,660 / 3,520) | 6,195 / 8,245 (2,810 / 3,740) | 6,371 / 9,171 (2,890 / 4,160) | 6,173 / 10,119 (2,800 / 4,590) | |
| | 34 | | | | | | | | | |
| CHASSIS | 35 | | Number of wheels(F / R) | | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | |
| | 36 | Tires | Size, Front | | 8.25x15-14 | 300x15-18 | 300x15-18 | 300x15-18 | 300x15-18 | |
| | | | Size, Rear | | 7.00x12-12 | 7.00x12-12 | 7.00x12-12 | 7.00x12-14 | 7.00x12-14 | |
| | 38 | Wheel Base | Distance | in(mm) | 78.7(2,000) | 78.7(2,000) | 82.7(2,100) | 82.7(2,100) | 82.7(2,100) | |
| | 39 | Tread Width | Front / Rear | in(mm) | 44.8 / 43.9 (1,138 / 1,115) | 45.4 / 43.9 (1,153 / 1,115) | 45.4 / 43.9 (1,153 / 1,115) | 45.4 / 43.9 (1,153 / 1,115) | 45.4 / 43.9 (1,153 / 1,115) | |
| | 40 | Ground Clearance | Loaded at the lowest point | in(mm) | 6.3(160) | 6.3(160) | 6.3(160) | 6.3(160) | 6.3(160) | |
| | | | Loaded at center of wheelbase | in(mm) | 8.1(205) | 8.1(205) | 8.1(205) | 8.1(205) | 8.1(205) | |
| | 42 | Brakes | Service | | shoe / disc | shoe / disc | shoe / disc | shoe / disc | shoe / disc | |
| | | | Parking | | ratchet | ratchet | ratchet | ratchet | ratchet | |
| 43 | | | | | | | | | | |
| 45 | Battery | Voltage / Ampere | V/AH | 24 / 75 | 24 / 75 | 24 / 75 | 24 / 75 | 24 / 75 | | |
| POWER TRAIN | 49 | | Manufacturer / Model | | doosan / DB58S | doosan / DB58S | doosan / DB58S | doosan / DB58S | doosan / DB58S | |
| | 50 | Engine | Rated Power(DIN) | HP/rpm | 91 / 2,200 | 91 / 2,200 | 91 / 2,200 | 91 / 2,200 | 91 / 2,200 | |
| | | | | kW/rpm | 68 / 2,200 | 68 / 2,200 | 68 / 2,200 | 68 / 2,200 | 68 / 2,200 | |
| | | | | lb_ft/rpm | 239 / 1,600 | 239 / 1,600 | 239 / 1,600 | 239 / 1,600 | 239 / 1,600 | |
| | | | | kg_m/rpm | 33 / 1,600 | 33 / 1,600 | 33 / 1,600 | 33 / 1,600 | 33 / 1,600 | |
| | 51 | | Maximum Torque | | | | | | | |
| | 52 | | Cylinders / Displacements | CC | 6 / 5,785 | 6 / 5,785 | 6 / 5,785 | 6 / 5,785 | 6 / 5,785 | |
| 55 | Transmission | Type | | powershift | powershift | powershift | powershift | powershift | | |
| | | Number of Speed (Fwd / Rev) | | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | | |
| 57 | Hydraulic Pressure | System | psi(bar) | 2,755(190) | 2,755(190) | 3,045(210) | 3,045(210) | 3,335(230) | | |
| | | Attachment | psi(bar) | 2,030(140) | 2,030(140) | 2,030(140) | 2,030(140) | 2,030(140) | | |

Note: Specification values quoted in this specification sheet has been rounded. Performance may vary due to operation conditions.

Products and specifications are subject to improvement and change without prior notices.

8,000/9,000/10,000/11,000/12,000 lb Capacities

Engine Powered Forklift Trucks Pneumatic Tire

| | | | | |
|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|
| DOOSAN | DOOSAN | DOOSAN | DOOSAN | DOOSAN |
| G35S-5 | G40S-5 | G45S-5 | G50C-5 | G55C-5 |
| 8,000(3,500) | 9,000(4,000) | 10,000(4,500) | 11,000(5,000) | 12,000(5,500) |
| 24(600) | 24(600) | 24(600) | 24(600) | 24(600) |
| LPG | LPG | LPG | LPG | LPG |
| rider-seated | rider-seated | rider-seated | rider-seated | Driver-seated |
| P | P | P | P | P |
| x 2 / 2 | x 2 / 2 | x 2 / 2 | x 2 / 2 | x 2 / 2 |
| 3,000 | 3,000 | 3,000 | 3,050 | 3,050 |
| 160 | 160 | 160 | 170 | 170 |
| III | III | IV | IV | IV |
| 41.3x5.9x2.0 (1,050x150x50) | 41.3x5.9x2.0 (1,050x150x50) | 47.2x5.9x2.0 (1,200x150x50) | 47.2x5.9x2.4 (1,200x150x60) | 47.2x5.9x2.4 (1,200x150x60) |
| 12.2(310)/46.5(1,182) | 12.2(310)/46.5(1,182) | 13.4(340)/50.8(1,290) | 13.4(340)/50.8(1,290) | 13.4(340)/50.8(1,290) |
| 8 / 10 | 8 / 10 | 8 / 10 | 8 / 10 | 8 / 10 |
| 122.0(3,100) | 124.0(3,150) | 128.5(3,265) | 129.9(3,300) | 131.9(3,350) |
| 54.0(1,372) | 57.1(1,451) | 57.1(1,451) | 57.1(1,451) | 57.1(1,451) |
| 87.6(2,225) | 87.8(2,230) | 87.8(2,230) | 93.7(2,380) | 93.7(2,380) |
| 167.9(4,265) | 168.1(4,270) | 174.0(4,420) | 176.0(4,470) | 176.0(4,470) |
| 87.6(2,225) | 87.8(2,230) | 87.8(2,230) | 87.8(2,230) | 87.8(2,230) |
| 49.1(1,248) | 49.4(1,255) | 49.4(1,255) | 49.4(1,255) | 49.4(1,255) |
| 109.1(2,770) | 111.0(2,820) | 112.8(2,865) | 115.4(2,930) | 117.7(2,990) |
| 22.1(561) | 22.1(561) | 22.1(561) | 22.5(571) | 22.5(571) |
| 131.2(3,331) | 133.1(3,381) | 134.9(3,426) | 137.9(3,501) | 140.2(3,561) |
| 12.4 / 13.0 (20 / 21) | 12.1 / 12.7 (19.5 / 20.5) | 12.1 / 12.7 (19.5 / 20.5) | 12.1 / 12.7 (19.5 / 20.5) | 12.1 / 12.7 (19.5 / 20.5) |
| 98.4 / 106.3 (500 / 540) | 98.4 / 106.3 (500 / 540) | 98.4 / 106.3 (500 / 540) | 96.5 / 106.3 (490 / 540) | 92.5 / 106.3 (470 / 540) |
| 94.5 / 88.6 (480 / 450) | 94.5 / 88.6 (480 / 450) | 94.5 / 88.6 (480 / 450) | 96.5 / 88.6 (490 / 450) | 96.5 / 88.6 (490 / 450) |
| 7,496.5(3,355) | 7,561.8(3,430) | 7,517.7(3,410) | 7,517.7(3,410) | 7,936.6(3,600) |
| 36 | 33.5 | 30.7 | 30.7 | 28 |
| 12,765(5,790) | 13,625(6,180) | 14,440(6,550) | 15,543(7,050) | 16,292(7,390) |
| 18,111 / 2,370 (8,215 / 1,075) | 19,798 / 2,646 (8,980 / 1,200) | 21,606 / 2,756 (9,800 / 1,250) | 23,545 / 3,020 (10,680 / 1,370) | 25,067 / 3,351 (11,370 / 1,520) |
| 5,919 / 6,845 (2,685 / 3,105) | 5,864 / 7,760 (2,660 / 3,520) | 6,195 / 8,245 (2,810 / 3,740) | 6,371 / 9,171 (2,890 / 4,160) | 6,173 / 10,119 (2,800 / 4,590) |
| 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 |
| 8.25x15-14 | 300x15-18 | 300x15-18 | 300x15-18 | 300x15-18 |
| 7.00x12-12 | 7.00x12-12 | 7.00x12-12 | 7.00x12-14 | 7.00x12-14 |
| 78.7(2,000) | 78.7(2,000) | 82.7(2,100) | 82.7(2,100) | 82.7(2,100) |
| 44.8 / 43.9 (1138 / 1115) | 45.4 / 43.9 (1,153 / 1,115) | 45.4 / 43.9 (1,153 / 1,115) | 45.4 / 43.9 (1,153 / 1,115) | 45.4 / 43.9 (1,153 / 1,115) |
| 6.3(160) | 6.3(160) | 6.3(160) | 6.3(160) | 6.3(160) |
| 8.1(205) | 8.1(205) | 8.1(205) | 8.1(205) | 8.1(205) |
| shoe / disc | shoe / disc | shoe / disc | shoe / disc | shoe / disc |
| ratchet | ratchet | ratchet | ratchet | ratchet |
| 12 / 75 | 12 / 75 | 12 / 75 | 12 / 75 | 12 / 75 |
| G643(E) | G643(E) | G643(E) | G643(E) | G643(E) |
| 93 / 2,450 | 93 / 2,450 | 93 / 2,450 | 93 / 2,450 | 93 / 2,450 |
| 69 / 2,450 | 69 / 2,450 | 69 / 2,450 | 69 / 2,450 | 69 / 2,450 |
| 222 / 1,400 | 222 / 1,400 | 222 / 1,400 | 222 / 1,400 | 222 / 1,400 |
| 31 / 1,400 | 31 / 1,400 | 31 / 1,400 | 31 / 1,400 | 31 / 1,400 |
| 6 / 4,294 | 6 / 4,294 | 6 / 4,294 | 6 / 4,294 | 6 / 4,294 |
| powershift | powershift | powershift | powershift | powershift |
| 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 |
| 2,755(190) | 2,755(190) | 3,045(210) | 3,045(210) | 3,335(230) |
| 2,030(140) | 2,030(140) | 2,030(140) | 2,030(140) | 2,030(140) |