

E30D

MINI EXCAVATOR



| ENGINE | |
|--|------------------------|
| Model | Kubota D1703-M |
| Emissions certification | Tier 4 Final / Stage V |
| Net horsepower - SAE J1349 @ 2300 RPM: | 24.4 hp (18.2 kW) |
| Displacement | 0.42 gal (1.6 L) |
| Cylinders | 3-cylinder in line |
| Cooling | Liquid |

| DRIVETRAIN | |
|---|--------------------|
| Travel speeds - 2-speed travel w/ auto-shift: | |
| 1st | 1.7 mph (2.7 km/h) |
| 2nd | 2.7 mph (4.3 km/h) |
| Number of lower rollers | 4 |

| ELECTRICAL | |
|--------------------------|---------------|
| Voltage | 12 volts |
| Alternator rating | 40 amp |
| Battery | 12 volts |
| Battery reserve capacity | 80 Ah |
| Work lights | Boom and roof |

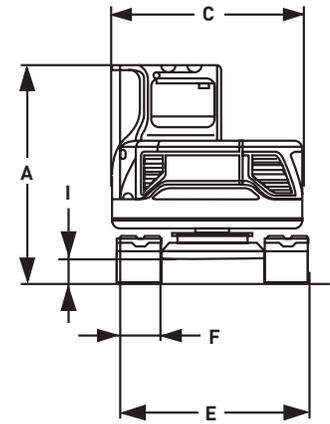
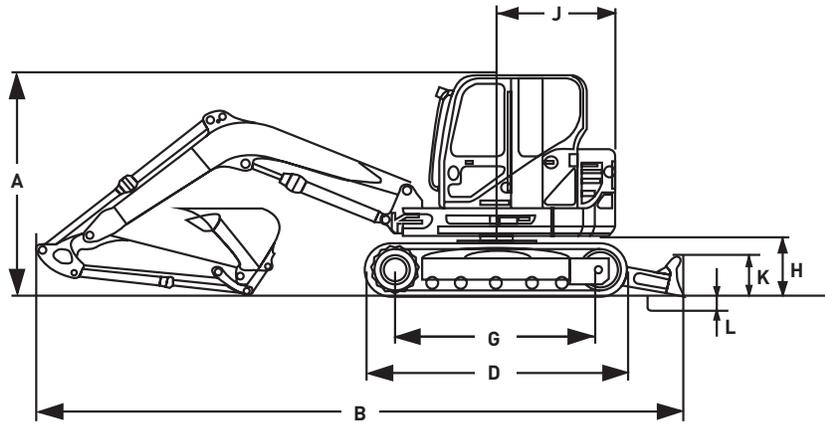
| OPERATOR ENVIRONMENT | |
|---|---------------------|
| Boom, arm, bucket and swing | |
| | 2 x pilot joysticks |
| Tracks | 2 x pilot levers |
| Dozer blade | 1 x pilot lever |
| AUX 1 | 1- or 2-way flow |
| Electric proportional switch on right joystick | |
| AUX 2 | 2 way flow |
| Electric proportional switch on right joystick | |
| Boom swing | |
| Electric proportional switch on left joystick | |
| AUX 2/boom swing switch selection on right joystick | |

| OPERATING WEIGHT | |
|--|-------------------|
| Canopy operating weight with rubber tracks | 6658 lb (3020 kg) |
| Cab operating weight with rubber tracks | 7143 lb (3240 kg) |

| HYDRAULICS | |
|---|-------------------------------|
| Type | Open Center |
| Pump type | 1 x LS variable pump |
| Max. rated flow total | 26.7 gpm (101 L/min) |
| Max. system pressure | 3771 psi (260 bar) |
| AUX 1 rated flow @ max. system pressure | |
| | 10.6 gpm (40 L/min) |
| AUX 2 rated flow @ max. system pressure | |
| | 8.5 - 5.3 gpm (32 - 20 L/min) |
| Slew speed | 10.5 rpm |
| 2nd Auxiliary (AUX 2) circuit with Electro-Hydraulic proportional control | |

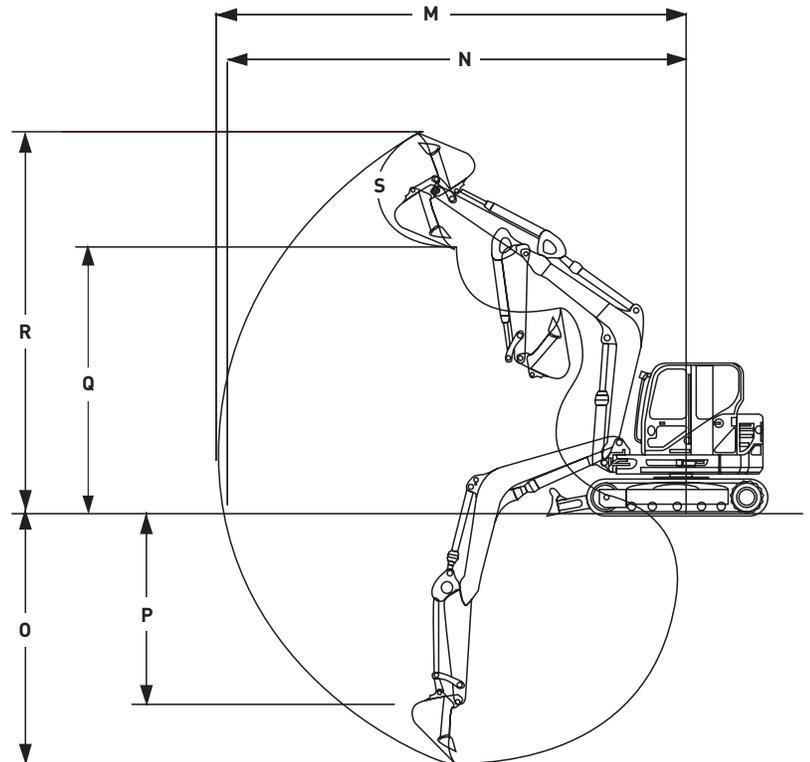
| SERVICE CAPACITIES | |
|----------------------------|------------------|
| Fuel tank | 13 gal (49 L) |
| Hydraulic oil tank | 8.8 gal (33.5 L) |
| Hydraulic circuit capacity | 14.3 gal (54 L) |
| Cooling system capacity | 2.0 gal (7.5 L) |
| Engine oil | 1.7 gal (6.3 L) |





| DIMENSIONS | |
|---|--------------------------------|
| Arm Length | 3 ft 11 in (1.20 m) Arm |
| A Overall height | 8 ft 3 in (2520 mm) |
| B Overall transport length | 15 ft 8 in (4780 mm) |
| C Width of upper structure | 5 ft 0 in (1525 mm) |
| D Track overall length | 6 ft 11 in (2100 mm) |
| E Track overall width | 5 ft 1 in (1550 mm) |
| F Track shoe width | 11 in (280 mm) |
| G Center to center - idler to sprocket | 5 ft 5 in (1650 mm) |
| H Upper structure ground clearance | 1 ft 10 in (550 mm) |
| I Minimum ground clearance | 11 in (282 mm) |
| J Tail swing radius: | |
| Standard counterweight | 2 ft 7 in (775 mm) |
| Additional counterweight | 2 ft 11 in (891 mm) |
| Additional counterweight - heavy | 3 ft 1 in (945 mm) |
| Boom swing | 67° left / 60° right |
| Tail swing overhang: | |
| Standard counterweight | 0 in (0 mm) |
| Additional counterweight | 4.6 in (116 mm) |
| Additional counterweight - heavy | 6.7 in (170 mm) |

| BLADE SPECS | |
|---|---------------------|
| K Backfill blade rise above ground | 1 ft 2 in (366 mm) |
| L Backfill blade dig depth | 1 ft 0 in (311 mm) |
| Backfill blade width | 5 ft 1 in (1550 mm) |



| PERFORMANCE SPECS | | | |
|---|-------------------------|------------------------|--|
| Arm Length | 3 ft 11 in (1.20 m) Arm | 4 ft 7 in (1.40 m) Arm | |
| M Maximum dig radius | 15 ft 5 in (4700 mm) | 16 ft 1 in (4890 mm) | |
| N Dig radius at groundline | 15 ft 0 in (4570 mm) | 5 ft 7 in (4760 mm) | |
| O Maximum dig depth | 8 ft 8 in (2640 mm) | 9 ft 3 in (2830 mm) | |
| P Vertical straight wall dig depth | 6 ft 11 in (2100 mm) | 7 ft 6 in (2280 mm) | |
| Q Dump height | 10 ft 2 in (3110 mm) | 10 ft 8 in (3240 mm) | |
| R Overall reach height | 13 ft 11 in (4250 mm) | 14 ft 4 in (4370 mm) | |
| S Bucket rotation | 197° | 197° | |
| Arm digging force - ISO | 4116 lbf (18.3 kN) | 3698 lbf (16.5 kN) | |
| Bucket digging force - ISO | 7868 lbf (35 kN) | 7861 lbf (35 kN) | |

Line drawings are for illustrative purpose only and may not be exact representation of unit.

E30D MINI EXCAVATOR SPECIFICATIONS

| LIFT CAPACITIES | | | | | | | | | | | | | | |
|---|------------------------|-----------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|-----------------------|--------------------|---------------|-------------------------|-----------------------|-----------------------|
| 3 ft 11 in (1.20 m) Arm, Dozer Blade Down | | | | | | | | | | | | | | |
| Load (Lift Point) Height | Load Radius | | | | | | | | | | Maximum Reach | | | |
| | 7 ft (2 m) | | 8 ft (2.5 m) | | 10 ft (3 m) | | 12 ft (3.5 m) | | 13 ft (4 m) | | Reach | Capacity | | |
| | End | Side | End | Side | End | Side | End | Side | End | Side | ⌀ | End | Side | |
| +10 ft (3 m) | | | | | 1588 lb* (720 kg)* | 1545 lb (701 kg) | | | | | | 11 ft 1 in (3.38 m) | 1742 lb* (790 kg)* | 1268 lb (575 kg) |
| +8 ft (2.5 m) | | | | | 1634 lb* (741 kg)* | 1533 lb (695 kg) | 1693 lb* (768 kg)* | 1198 lb (543 kg) | | | | 12 ft 2 in (3.70 m) | 1749 lb* (793 kg)* | 1092 lb (495 kg) |
| +7 ft (2 m) | | | | | 1834 lb* (832 kg)* | 1503 lb (682 kg) | 1763 lb* (800 kg)* | 1185 lb (538 kg) | | | | 12 ft 10 in (3.91 m) | 1774 lb* (805 kg)* | 992 lb (450 kg) |
| +5 ft (1.5 m) | | | | | 1968 lb* (893 kg)* | 1502 lb (681 kg) | 1911 lb* (867 kg)* | 1163 lb (528 kg) | 1810 lb* (821 kg)* | 949 lb (430 kg) | | 13 ft 3 in (4.03 m) | 1809 lb* (821 kg)* | 937 lb (425 kg) |
| +3 ft (1 m) | | | 3145 lb* (1427 kg)* | 1846 lb (837 kg) | 2443 lb* (1108 kg)* | 1420 lb (644 kg) | 2080 lb* (943 kg)* | 1138 lb (516 kg) | 1874 lb* (850 kg)* | 937 lb (425 kg) | | 13 ft 4 in (4.07 m) | 1853 lb* (841 kg)* | 913 lb (414 kg) |
| +2 ft (0.5 m) | | | 3554 lb* (1612 kg)* | 1793 lb (813 kg) | 2696 lb* (1223 kg)* | 1386 lb (629 kg) | 2223 lb* (1013 kg)* | 1117 lb (507 kg) | 1922 lb* (872 kg)* | 927 lb (420 kg) | | 13 ft 3 in (4.03 m) | 1903 lb* (863 kg)* | 916 lb (415 kg) |
| Groundline | 5331 lb* (2418 kg)* | 2479 lb (1124 kg) | 3722 lb* (1688 kg)* | 1766 lb (801 kg) | 2832 lb* (1285 kg)* | 1364 lb (619 kg) | 2296 lb* (1041 kg)* | 1103 lb (500 kg) | | | | 12 ft 10 in (3.92 m) | 1959 lb* (889 kg)* | 949 lb (430 kg) |
| -2 ft (-0.5 m) | 5086 lb* (2307 kg)* | 2483 lb (1126 kg) | 3671 lb* (1665 kg)* | 1759 lb (798 kg) | 2820 lb* (1279 kg)* | 1356 lb (615 kg) | 2245 lb* (1018 kg)* | 1100 lb (499 kg) | | | | 12 ft 2 in (3.71 m) | 2017 lb* (915 kg)* | 1022 lb (464 kg) |
| -3 ft (-1.0 m) | 4611 lb* (2092 kg)* | 2502 lb (1135 kg) | 3399 lb* (1542 kg)* | 1769 lb (802 kg) | 2608 lb* (1183 kg)* | 1364 lb (619 kg) | | | | | | 11 ft 1 in (3.39 m) | 2069 lb* (938 kg)* | 1163 lb (528 kg) |
| -5 ft (-1.5 m) | 3782 lb* (1715 kg)* | 2541 lb (1153 kg) | 2791 lb* (1266 kg)* | 1799 lb (816 kg) | | | | | | | | 9 ft 7 in (2.91 m) | 2088 lb* (947 kg)* | 1459 lb (662 kg) |
| -7 ft (-2 m) | 2085 lb* (946 kg)* | 2085 lb* (946 kg)* | | | | | | | | | | 6 ft 10 in (2.09 m) | 1900 lb* (862 kg)* | 1900 lb* (862 kg)* |

*Indicates load limited by hydraulic capacity

| 4 ft 7 in (1.40 m) Arm, Dozer Blade Down | | | | | | | | | | | | | | |
|--|-------------------------|------------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|-----------------------|--------------------|---------------|-------------------------|-----------------------|---------------------|
| Load (Lift Point) Height | Load Radius | | | | | | | | | | Maximum Reach | | | |
| | 7 ft (2 m) | | 8 ft (2.5 m) | | 10 ft (3 m) | | 12 ft (3.5 m) | | 13 ft (4 m) | | Reach | Capacity | | |
| | End | Side | End | Side | End | Side | End | Side | End | Side | ⌀ | End | Side | |
| +10 ft (3 m) | | | | | | | 1538 lb* (698 kg)* | 1203 lb (546 kg) | | | | 11 ft 10 in (3.61 m) | 1626 lb* (738 kg)* | 1137 lb (516 kg) |
| +8 ft (2.5 m) | | | | | | | 1513 lb* (686 kg)* | 1201 lb (545 kg) | | | | 12 ft 10 in (3.91 m) | 1613 lb* (732 kg)* | 995 lb (451 kg) |
| +7 ft (2 m) | | | | | 1637 lb* (743 kg)* | 1508 lb (684 kg) | 1610 lb* (730 kg)* | 1184 lb (537 kg) | 1621 lb* (735 kg)* | 956 lb (434 kg) | | 13 ft 6 in (4.11 m) | 1641 lb* (744 kg)* | 912 lb (414 kg) |
| +5 ft (1.5 m) | 2965 lb* (1345 kg)* | 2,757 lb (1 251 kg) | 2265 lb* (1027 kg)* | 1936 lb (878 kg) | 1946 lb* (883 kg)* | 1465 lb (665 kg) | 1775 lb* (805 kg)* | 1160 lb (526 kg) | 1687 lb* (765 kg)* | 944 lb (428 kg) | | 13 ft 10 in (4.22 m) | 1677 lb* (761 kg)* | 865 lb (392 kg) |
| +3 ft (1 m) | | | 2899 lb* (1315 kg)* | 1854 lb (841 kg) | 2288 lb* (1038 kg)* | 1419 lb (644 kg) | 1968 lb* (893 kg)* | 1132 lb (513 kg) | 1783 lb* (809 kg)* | 929 lb (421 kg) | | 14 ft 0 in (4.26 m) | 1720 lb* (780 kg)* | 844 lb (383 kg) |
| +2 ft (0.5 m) | | | 3594 lb* (1630 kg)* | 1800 lb (816 kg) | 2612 lb* (1185 kg)* | 1400 lb (635 kg) | 2141 lb* (971 kg)* | 1108 lb (503 kg) | 1868 lb* (847 kg)* | 915 lb (415 kg) | | 13 ft 11 in (4.23 m) | 1667 lb* (756 kg)* | 845 lb (383 kg) |
| Groundline | 5335 lb* (2 420 kg)* | 2459 lb (1115 kg) | 3654 lb* (1657 kg)* | 1753 lb (795 kg) | 2771 lb* (1257 kg)* | 1352 lb (613 kg) | 2253 lb* (1022 kg)* | 1090 lb (494 kg) | 1902 lb* (863 kg)* | 906 lb (411 kg) | | 13 ft 6 in (4.12 m) | 1823 lb* (827 kg)* | 872 lb (396 kg) |
| -2 ft (-0.5 m) | 5220 lb* (2 368 kg)* | 2453 lb (1113 kg) | 3693 lb* (1675 kg)* | 1739 lb (789 kg) | 2822 lb* (1280 kg)* | 1338 lb (607 kg) | 2266 lb* (1028 kg)* | 1081 lb (490 kg) | | | | 12 ft 10 in (3.92 m) | 1881 lb* (853 kg)* | 930 lb (422 kg) |
| -3 ft (-1.0 m) | 4857 lb* (2203 kg)* | 2466 lb (1119 kg) | 3517 lb* (1595 kg)* | 1742 lb (790 kg) | 2701 lb* (1225 kg)* | 1340 lb (608 kg) | 2103 lb* (954 kg)* | 1087 lb (493 kg) | | | | 11 ft 11 in (3.63 m) | 1939 lb* (880 kg)* | 1039 lb (471 kg) |
| -5 ft (-1.5 m) | 4182 lb* (1897 kg)* | 2497 lb (1133 kg) | 3071 lb* (1393 kg)* | 1763 lb (800 kg) | 2296 lb* (1041 kg)* | 1360 lb (617 kg) | | | | | | 10 ft 6 in (3.20 m) | 1985 lb* (900 kg)* | 1253 lb (568 kg) |
| -7 ft (-2 m) | 2946 lb* (1336 kg)* | 2559 lb (1161 kg) | 2000 lb* (907 kg)* | 1821 lb (826 kg) | | | | | | | | 8 ft 3 in (2.52 m) | 1959 lb* (889 kg)* | 1798 lb (816 kg) |

*Indicates load limited by hydraulic capacity

Standard Equipment

Engine

- Kubota D1703-M diesel engine - Tier 4 Final/Stage V compliant
- Dry air filter with drain valve and electric anti-clogging indicator
- Glow plugs for cold weather starting

Electrical

- 12-volt electrical system
- Heavy-duty battery
- Battery disconnect switch
- Auxiliary power socket next to operator
- Auxiliary power socket on roof for beacon
- Key start switch
- Horn
- Travel alarm
- myNewHollandConstruction Telematics –includes hardware and a 7-year advanced data subscription

Upper Structure

- Zero tail swing (with standard counterweight)
- Short arm with thumb bracket
- Pin-on bucket
- Swing boom
- Open canopy with ROPS/TOPS/FOPS
- LED work lights
- Standard counterweight
- Bucket linkage with lifting hook
- Tilttable operator station

Hydraulics

- Variable displacement hydraulic pump
- High flow 1-1/2-way auxiliary hydraulics (AUX1)
- Low flow 2-way auxiliary hydraulics (AUX2)
- Attachment quick coupler auxiliary hydraulics (2-way I double effect)
- Control pattern selector valve (ISO/SAE)
- Cylinder guard on boom and dozer blade cylinders
- Mineral based hydraulic oil and lubricants
- AUX1 1-1/2-way flow manual selection valve

Undercarriage & Track Drive

- Rubber belt tracks
- 2-speed travel with auto shift down/up
- Fully hydrostatic drive system
- Sealed and lubricated track rollers
- Hydraulically adjustable track tensioner (with grease)
- Dozer blade with float

Operator Station

- Adjustable mechanical suspension vinyl seat with seat belt
- Travel levers with foldable foot pedals
- Pilot controlled joysticks for boom, arm, bucket, and boom swing with electro-hydraulic proportional controls for boom swing, AUX1, AUX2, and AUX3
- Blade control lever
- Engine throttle lever
- Digital cluster with warning light indicators
- Visual indicators
- Ignition key that opens all machine panel locks
- Operator's manual compartment
- Adjustable arm rests
- Cup holder
- Foot rests
- Rear view mirrors

Optional Equipment

Upper Structure

- Long arm with thumb bracket
- Multi-pin grabber quick coupler
- Full range of buckets
- Hydraulic thumb
- Bio degradable hydraulic oil and lubricants
- Additional bolt-on counterweight
- Enclosed cab with ROPS/TOPS/FOPS Level 1 and HVAC system
- LED beacon

Hydraulics

- Low flow 2-way auxiliary hydraulics (AUX3)
- Object handling kit with hose burst check valves on boom and arm and overload indicator light
- Blade safety hose burst check valve*
- High constant flow 1-way mulching head auxiliary hydraulics

Undercarriage & Track Drive

- Steel tracks

*Removes dozer blade float feature



New Holland Construction
500 Diller Ave.
New Holland, PA 17557

Learn more at www.newholland.com

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Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place. This is a one-person machine. Never allow riders in the cab, outside the machine, or in/on any bucket or attachment.

