CASE CONSTRUCTION

CX38D

MINI EXCAVATOR
DOZER BLADE
TIER 4 FINAL / STAGE V CERTIFIED



ENGINE

Model	Kubota D1703-M
Emissions Certification	Tier 4 Final / Stage V
Net horsepower — SAE J1349 @ 2,300 RPM:	24.4 hp (18.2 kW)
Displacement	97.6 in³ (1.6 L)
Cylinders	3-cylinder in line
Cooling	Liquid

DRIVETRAIN

Travel speeds — 2-speed travel with auto-shift:	
1st	1.7 mph (2.7 kph)
2nd	2.7 mph (4.3 kph)
Number of lower rollers	4

ELECTRICAL

Voltage	12 volts
Alternator rating	40 amp
Battery	12 volts
Battery reserve capacity	80 Ah
Work lights	1 × boom / 1 × roof

OPERATOR ENVIRONMENT

Boom, arm, bucket and swing	2 × pilot joysticks
Tracks	2 × pilot levers
Dozer blade	1 × pilot lever
AUX 1 Electric proportional switch on right joystick	1- or 2-way flow
AUX 2 Electric proportional switch on right joystick	2-way flow

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: 8,333 lb (3 780 kg)

Cab operating weight* with rubber tracks: 8,620 lb (3 910 kg)

*Operating weight includes 165 lb bucket and 165 lb operator

Ground pressure	4.8 psi (.34 kg/cm²)

Weight addition for steel tracks: 220.5 lb (100kg)

HYDRAULICS

Type	Open Center
Pump type	1 × LS variable pump
Max. rated flow total	26.7 gpm (101 L/min)
Max. system pressure	3,771 psi (260 bar)
Std. AUX 1 rated flow @ max. system pressure	10.6 gpm (40 L/min)
Mulcher Provision	8.2 gpm (31 L/min) @ 2,610 psi (180 bar)
Std. AUX 2 rated flow @ max. system pressure	8.5 – 5.3 gpm (32 – 20 L/min)
Optional AUX 3 rated flow @ max. system pressure	8.5 – 5.3 gpm (32 – 20 L/min)
Slew speed	10.5 rpm

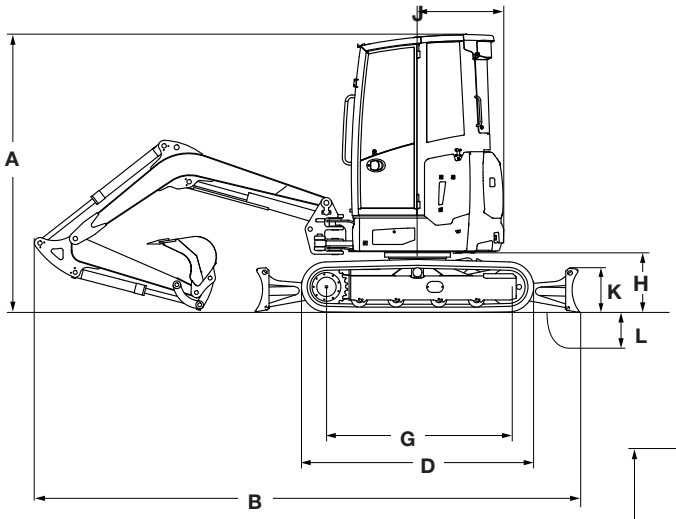
2nd Auxiliary (AUX 2) circuit with Electro-Hydraulic proportional control

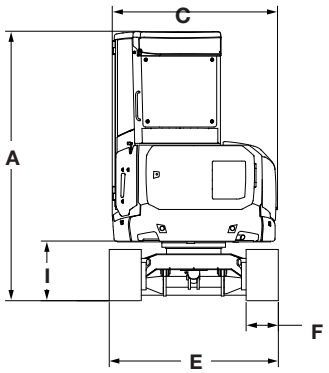
SERVICE CAPACITIES

Fuel tank	12.9 gal (49 L)
Hydraulic oil tank	8.8 gal (33.5 L)
Hydraulic circuit capacity	14.3 gal (54 L)
Cooling system capacity	2.1 gal (8 L)
Engine oil	1.7 gal (6.3 L)

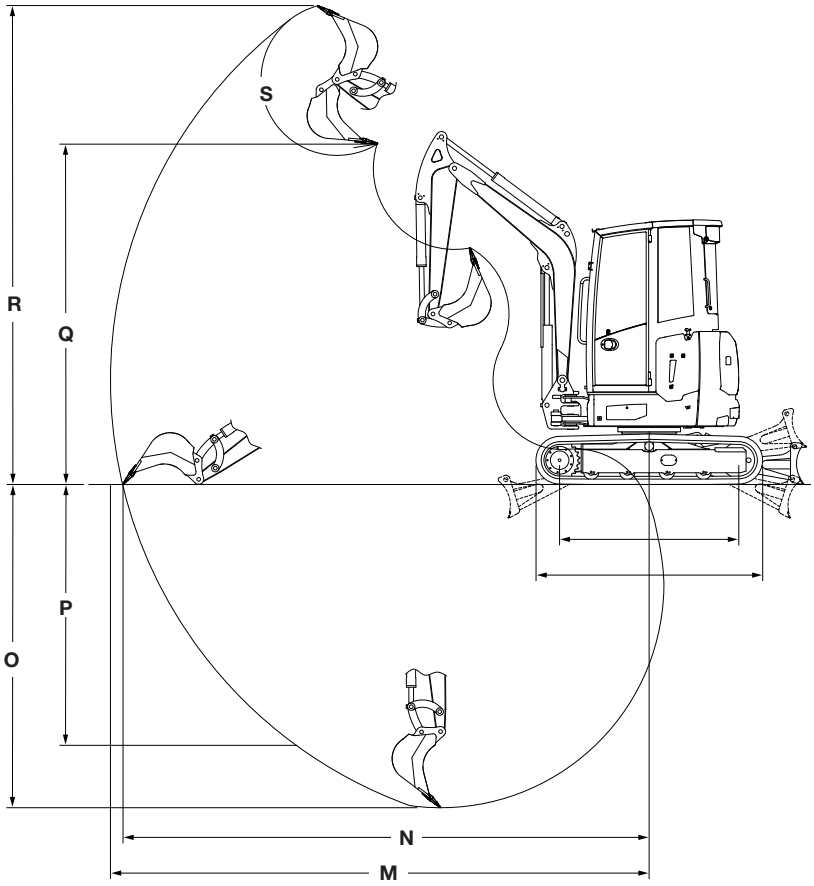
UNDERCARRIAGE

Lower rollers	4 per side
Upper roller	1 per side
Rubber Tracks	15.7 in × 2.9 in × 3 in (400 mm × 72.5 mm × 76 mm)
Steel track shoe width	15.7 in (400 mm)





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



DIMENSIONS

Arm	4 ft 7 in (1.4 m)	5 ft 5 in (1.65 m)
A. Overall height	8 ft 3 in (2 520 mm)	8 ft 3 in (2 520 mm)
B. Overall transport length	16 ft 2 in (4 930 mm)	16 ft 1 in (4 900 mm)
C. Width of upper structure	5 ft 5 in (1 640 mm)	5 ft 5 in (1 640 mm)
D. Track overall length	7 ft 1 in (2 155 mm)	7 ft 1 in (2 155 mm)
E. Track overall width	5 ft 6 in (1 700 mm)	5 ft 7 in (1 700 mm)
F. Track shoe width	11.8 in (300 mm)	11.8 in (300 mm)
G. Center to center — idler to sprocket	5 ft 7 in (1 700 mm)	5 ft 7 in (1 700 mm)
H. Upper structure ground clearance	1 ft 10 in (550 mm)	1 ft 10 in (550 mm)
I. Minimum ground clearance	1 ft 7 in (295 mm)	1 ft 7 in (295 mm)
J. Tail swing radius:		
Standard counterweight	2 ft 9 in (850 mm)	
Add. counterweight	3 ft 2 in (966 mm)	
Add. counterweight — heavy	3 ft 4 in (1 020 mm)	
Boom swing	67° left / 60° right	
Tail swing overhang:		
Standard counterweight	0 in (0 mm)	
Add. counterweight	4.6 in (116 mm)	
Add. counterweight — heavy	6.7 in (170 mm)	

BLADE SPECS

K. Backfill blade rise above ground	1 ft 2 in (352 mm)
L. Backfill blade dig depth	1 ft 1 in (321 mm)
Backfill blade width	5 ft 7 in (1 700 mm)

PERFORMANCE SPECS

	4 ft 7 in (1.4 m) Arm	5 ft 5 in (1.65 m) Arm
M. Maximum dig radius	16 ft 10 in (5 120 mm)	17 ft 7 in (5 360 mm)
N. Dig radius at groundline	16 ft 5 in (5 000 mm)	17 ft 3 in (5 250 mm)
O. Maximum dig depth	10 ft 1 in (3 070 mm)	10 ft 11 in (3 320 mm)
P. Vertical straight wall dig depth	8 ft 2 in (2 480 mm)	8 ft 11 in (2 730 mm)
Q. Dump height	10 ft 7 in (3 230 mm)	11 ft 1 in (3 380 mm)
R. Overall reach height	14 ft 11 in (4 550 mm)	15 ft 5 in (4 690 mm)
S. Bucket rotation	197°	197°
Arm digging force — ISO	3,552 lbf (15.8 kN)	3,158 lbf (14 kN)
Bucket digging force — ISO	6,800 lbf (30.2 kN)	6,800 lbf (30.2 kN)

LIFT CAPACITIES

4 ft 7 in (1.4 m) Arm, Dozer Blade Down

Load (Lift Point) Height	7 ft (2 m)		8 ft (2.5 m)		10 ft (3 m)		12 ft (3.5 m)		13 ft (4 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+10 ft (3 m)							1,604 lb* (728 kg)*	1,604 lb* (728 kg)*			12 ft 5 in (3.78 m)	1,735 lb* (787 kg)*	1,547 lb (702 kg)
+8 ft (2.5 m)							1,627 lb* (738 kg)*	1,627 lb* (738 kg)*	1,732 lb* (786 kg)*	1,416 lb (642 kg)	13 ft 4 in (4.06 m)	1,759 lb* (798 kg)*	1,380 lb (626 kg)
+7 ft (2 m)					1,823 lb* (827 kg)*	1,823 lb* (827 kg)*	1,767 lb* (801 kg)*	1,724 lb (782 kg)	1,758 lb* (797 kg)*	1,409 lb (639 kg)	13 ft 11 in (4.25 m)	1,792 lb* (813 kg)*	1,282 lb (582 kg)
+5 ft (1.5 m)			2,614 lb* (1 186 kg)*	2,614 lb* (1 186 kg)*	2,195 lb* (996 kg)*	2,127 lb (965 kg)	1,975 lb* (896 kg)*	1,695 lb (769 kg)	1,859 lb* (843 kg)*	1,394 lb (632 kg)	14 ft 4 in (4.36 m)	1,834 lb* (832 kg)*	1,225 lb (556 kg)
+3 ft (1 m)			3,341 lb* (1 515 kg)*	2,712 lb (1 230 kg)	2,592 lb* (1 176 kg)*	2,076 lb (942 kg)	2,206 lb* (1 001 kg)*	1,665 lb (755 kg)	1,985 lb* (900 kg)*	1,376 lb (624 kg)	14 ft 5 in (4.40 m)	1,883 lb* (854 kg)*	1,201 lb (545 kg)
+2 ft (0.5 m)			3,886 lb (1 763 kg)*	2,646 lb (1 200 kg)	2,930 lb* (1 329 kg)*	2,034 lb (923 kg)	2,413 lb* (1 095 kg)*	1,638 lb (743 kg)	2,101 lb* (953 kg)*	1,360 lb (617 kg)	14 ft 4 in (4.36 m)	1,938 lb* (879 kg)*	1,206 lb (547 kg)
Groundline	6,077 lb* (2 756 kg)*	3,703 lb (1 680 kg)	4,166 lb (1 890 kg)*	2,610 lb (1 184 kg)	3,149 lb* (1428 kg)*	2,006 lb (910 kg)	2,556 lb* (1 159 kg)*	1,619 lb (734 kg)	2,170 lb* (984 kg)*	1,349 lb (612 kg)	14 ft 0 in (4.26 m)	2,000 lb* (907 kg)*	1,242 lb (563 kg)
-2 ft (-0.5 m)	5,942 lb* (2 695 kg)*	3,701 lb (1 679 kg)	4,215 lb* (1 912 kg)*	2,597 lb (1 178 kg)	3,223 lb* (1 462 kg)*	1,992 lb* (904 kg)	2,599 lb* (1 179 kg)*	1,609 lb (730 kg)	2,138 lb* (970 kg)*	1,347 lb (611 kg)	13 ft 4 in (4.07 m)	2,067 lb* (938 kg)*	1,317 lb (597 kg)
-3 ft (-1.0 m)	5,580 lb* (2 531 kg)*	3,715 lb (1 685 kg)	4,054 lb* (1 839 kg)*	2,601 lb (1 180 kg)	3,131 lb* (1 420 kg)*	1,993 lb (904 kg)	2,489 lb* (1 129 kg)*	1,612 lb (731 kg)			12 ft 5 in (3.79 m)	2,136 lb* (969 kg)*	1,454 lb (660 kg)
-5 ft (-1.5 m)	4,941 lb* (2 241 kg)*	3,746 lb (1 699 kg)	3,648 lb* (1 655 kg)*	2,621 lb (1 189 kg)	2,796 lb* (1 268 kg)*	2,010 lb (912 kg)					11 ft 1 in (3.39 m)	2,201 lb* (998 kg)*	1,708 lb (775 kg)
- 7 ft (-2 m)	3,824 lb* (1 735 kg)*	3,804 lb (1 725 kg)	2,778 lb* (1 260 kg)*	2,668 lb (1 210 kg)							9 ft 1 in (2.78 m)	2,227 lb* (1 010 kg)*	2,227 lb* (1 010 kg)*

*Indicates load limited by hydraulic capacity

5 ft 5 in (1.65 m) Arm, Dozer Blade Down

Load (Lift Point) Height	7 ft (2 m)		8 ft (2.5 m)		10 ft (3 m)		12 ft (3.5 m)		13 ft (4 m)		15 ft (4.5 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+10 ft (3 m)							1,344 lb* (610 kg)*	1,344 lb* (610 kg)*	1,540 lb* (699 kg)*	1,420 lb (644 kg)			13 ft 4 in (4.06 m)	1,577 lb* (715 kg)*	1,382 lb (627 kg)
+8 ft (2.5 m)							1,401 lb* (635 kg)*	1,401 lb* (635 kg)*	1,505 lb* (683 kg)*	1,420 lb (644 kg)			14 ft 2 in (4.32 m)	1,604 lb* (728 kg)*	1,251 lb (567 kg)
+7 ft (2 m)					1,543 lb* (700 kg)*	1,543 lb* (700 kg)*	1,558 lb* (707 kg)*	1,558 lb* (707 kg)*	1,576 lb* (715 kg)*	1,408 lb (639 kg)	1,639 lb* (743 kg)*	1,170 lb (531 kg)	14 ft 9 in (4.50 m)	1,639 lb* (743 kg)*	1,170 lb (531 kg)
+5 ft (1.5 m)			2,182 lb* (990 kg)*	2,182 lb* (990 kg)*	1,925 lb* (873 kg)*	1,925 lb* (873 kg)*	1,782 lb* (808 kg)*	1,695 lb (769 kg)	1,701 lb* (772 kg)*	1,390 lb (630 kg)	1,674 lb* (759 kg)*	1,163 lb (528 kg)	15 ft 1 in (4.60 m)	1,681 lb* (762 kg)*	1,123 lb (509 kg)
+3 ft (1 m)			2,960 lb* (1 343 kg)*	2,731 lb (1 239 kg)	2,355 lb* (1 068 kg)*	2,080 lb (943 kg)	2,036 lb* (924 kg)*	1,662 lb (754 kg)	1,852 lb* (840 kg)*	1,369 lb (621 kg)	1,745 lb* (792 kg)*	1,152 lb (523 kg)	15 ft 3 in (4.64 m)	1,728 lb* (784 kg)*	1,102 lb (500 kg)
+2 ft (0.5 m)	5,508 lb* (2 498 kg)*	3,742 lb (1 697 kg)	3,612 lb* (1 638 kg)*	2,650 lb (1 202 kg)	2,745 lb* (1 245 kg)*	2,031 lb (921 kg)	2,278 lb* (1 033 kg)*	1,630 lb (740 kg)	1,997 lb* (906 kg)*	1,349 lb (612 kg)	1,813 lb* (822 kg)*	1,141 lb (518 kg)	15 ft 1 in (4.60 m)	1,780 lb* (807 kg)*	1,105 lb (501 kg)
Groundline	5,968 lb* (2 707 kg)*	3,685 lb (1 671 kg)	4,017 lb* (1 822 kg)*	2,600 lb (1 179 kg)	3,029 lb* (1 374 kg)*	1,994 lb (904 kg)	2,464 lb* (1 118 kg)*	1,605 lb (728 kg)	2,108 lb* (956 kg)*	1,333 lb (605 kg)	1,839 lb* (834 kg)*	1,133 lb (514 kg)	14 ft 9 in (4.50 m)	1,839 lb* (834 kg)*	1,133 lb (514 kg)
-2 ft (-0.5 m)	6,023 lb* (2 732 kg)*	3,667 lb (1 663 kg)	4,183 lb* (1 897 kg)*	"2,575 lb (1 168 kg)"	3,178 lb* (1 442 kg)*	1,973 lb (895 kg)	2,565 lb* (1 163 kg)*	1,590 lb (721 kg)	2,149 lb* (975 kg)*	1,325 lb (601 kg)			14 ft 2 in (4.33 m)	1,903 lb* (863 kg)*	1,192 lb (541 kg)
-3 ft (-1.0 m)	5,807 lb* (2 634 kg)*	3,672 lb (1 666 kg)	4,135 lb* (1 876 kg)*	2,570 lb (1 166 kg)	3,173 lb* (1 439 kg)*	1,967 lb (892 kg)	2,545 lb* (1 154 kg)*	1,586 lb (719 kg)	2,055 lb* (932 kg)*	1,328 lb (602 kg)			13 ft 4 in (4.07 m)	1,973 lb* (895 kg)*	1,298 lb (589 kg)
-5 ft (-1.5 m)	5,323 lb* (2 414 kg)*	3,696 lb (1 676 kg)	3,866 lb* (1 754 kg)*	2,582 lb (1 171 kg)	2,976 lb* (1 350 kg)*	1,975 lb (896 kg)	2,325 lb* (1 055 kg)*	1,597 lb (724 kg)					12 ft 2 in (3.71 m)	2,046 lb* (928 kg)*	1,483 lb (673 kg)
- 7 ft (-2 m)	4,472 lb* (2 028 kg)*	3,740 lb (1 696 kg)	3,276 lb* (1 486 kg)*	2,615 lb (1 186 kg)	2,434 lb* (1 104 kg)*	2,006 lb (910 kg)							10 ft 5 in (3.18 m)	2,111 lb* (958 kg)*	1,853 lb (841 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
- Electric engine RPM and idle control

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

UPPER STRUCTURE

- Zero tail swing (with standard counterweight)
- Long arm with thumb bracket
- Pin-on bucket
- Swing boom
- Enclosed cab with ROPS/TOPS/FOPS Level 1
- LED work lights
- LED beacon
- Standard counterweight
- Bucket linkage with lifting hook
- Tiltable operator station

HYDRAULICS

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

SOUND PERFORMANCE

- Operating Sound Pressure: * 73dB(A)
- External Sound Power Level: ** 94dB(A)
- * The declared dynamic operator sound pressure levels per ISO 6396-2008.
- The measurements were conducted with cab doors and windows closed.
- ** The labeled sound power level for the CE marked configurations when measured according to the test procedure and conditions specified in EU directive 2000/14/EC.

OPERATOR ENVIRONMENT

- A/C and heating
- 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
- Automatic courtesy light (in-cab)
- Windshield wiper and washer
- 2-piece overhead stowable windshield
- Slide right side window
- Adjustable arm rests
- Cup holder
- Footrests
- Radio and speakers
- Horn
- Travel alarm

WARRANTY

- Base warranty coverage: 2-Year/3,000-Hour Full Machine Limited Warranty

TELEMATICS

- MyCASEConstruction Telematics Includes hardware and 7-year data subscription.

OPTIONAL EQUIPMENT

ELECTRICAL

- Electric refuel pump with auto-stop function

UPPER STRUCTURE

- Short arm with thumb bracket
- Full range of attachment quick couplers
- Full range of buckets
- Hydraulic thumb
- Bio degradable hydraulic oil and lubricants
- Anti-theft system
- Additional bolt-on counterweight
- Front protection guard (Level 2)
- Open canopy with ROPS/TOPS/FOPS Level 1

HYDRAULICS

- Low flow 2-way auxiliary hydraulics (AUX 3)
- Object handling kit with hose burst check valves on boom and arm and overload indicator light
- Blade safety hose burst check valve
- Mulching Provision — tandem gear pump 1 way AUX 1 hydraulics
- Attachment quick coupler auxiliary hydraulics

UNDERCARRIAGE & TRACK DRIVE

- Steel tracks
- 6-way dozer blade with cutting edge, float and dual side foldable extensions

OPERATOR ENVIRONMENT

- Rear view mirrors

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