





# **ENGINE**Model

Model	Kubota D1803
Emissions Certification	Tier 4 Final
Fuel	Diesel
Cylinders	3
Displacement	111.4 in <sup>3</sup> (1 826 cc)
Fuel injection	Electronic common rail
Gross horsepower - SA	E J1995 @ 2300 RPM:
	43.3 hp (32.3 kW)

Maximum Engine Torque @ 1600 RPM:

	110.0 10 11 (150 1411)
Minimum RPM	1,000
Maximum RPM	2,400
Cooling	Liquid

Cooling Fan:

Variable Speed Hydraulic cooling fan w/ reverse function

# **DRIVETRAIN**

Travel speeds – 2-speed 1st 2nd	travel w/ auto-shift: 1.6 mph (2.6 kph) 2.8 mph (4.5 kph)
Maximum traction force	9,577 lbf (42.6 kN)
Gradeability	30° (60%)
Ground pressure: Canopy Cab	4.1 psi (0.29 kgf/cm²) 4.3 psi (0.3 kgf/cm²)

# **ELECTRICAL**

Voltage	12 Volts
Alternator rating	70 amp
Battery	1 x 12 V x 74 Ah

# **OPERATOR ENVIRONMENT**

ROPS/FOPS Four Post Canopy: Adjustable Vinyl mechanical suspension seat w/ automatic weight control; ROPS/FOPS Enclosed Cab: Overhead opening front window, Sliding right side window, Heat & A/C - automatic climate control or manual w/ 6 adjustable vents, Radio & Speakers, Adjustable Cloth mechanical suspension seat w/ automatic weight control, Front wiper and washer, Hammer for emergency exit, Rear view mirrors - left and right; Tipping cab/canopy for servicing; Height adjustable arm rests; Controls cut-out lever (safety lever); Auto-idle/manual idle button; Engine rpm hand dial; 2 in (51 mm) Seat belt; Bottle/cup holder; Keyed locks common w/ starting key; Foot rests; 2- 12V auxiliary socket; USB type power socket 7 in LCD Control Panel; Display Navigation console.

#### Controls:

Travel Levers; Foldable travel foot pedals; Pilot controlled joysticks for boom, arm, bucket, and swing; Operation joysticks; Blade control lever.

#### Display includes:

Coolant Temp; Hydraulic Oil Temp; Fuel Level; Machine hours; Time; Climate Control; Engine; RPM; Warning Indicators; Message area; DPF Regeneration request; Function Indicators.

# **OPERATING WEIGHT**

Canopy operating weight:

Short arm 9,259 lb (4 200 kg) Long arm w/ additional counterweight 9,921 lb (4 500 kg)

Cab operating weight:

Short arm 9,590 lb (4 350 kg) Long arm w/ additional counterweight 10,251 lb (4 650 kg)

Counterweights:

 Standard
 110 lb (50 kg)

 Additional
 617 lb (280 kg)

 Additional – heavy
 925 lb (420 kg)

NOTE: w/rubber tracks/no quick coupler/bucket/fluids/full of fuel/165 lb operator.

# **HYDRAULICS**

Load Sensing closed center w/ "Flow Sharing" control valve

Pump type 1 Electronic control Load Sensing pump w/ variable flow rate + 1 gear pump

Pump displacement  $3.3 + 0.7 \text{ in}^3 (53.7 + 11.2 \text{ cc})$ Total flow rate 28.3 + 5.9 gpm (107 + 22.3 L/min)

Operating Pressures:

Boom, bucket, blade, travel motors:

4,061 psi (280 bar)
Slewing Gear Motor 2,828 psi (195 bar)
Pilot controls 493 psi (34 bar)

Auxiliary flow:

Aux. 1 – 1 or 2-way circuit:

Max. Flow 18.5 gpm (70 L/min)
Max. Pressure 2,900 psi (200 bar)

Aux. 2 – 2-way circuit:

Max. Flow 10.6 gpm (40 L/min) Max. Pressure 4,061 psi (280 bar)

Aux. 3 – 2-way circuit:

Max. Flow 10.6 gpm (40 L/min) Max. Pressure 4,061 psi (280 bar)

Swing Motor: Hydraulic drive units w/ axial pistons and

w/ axiai pistons and hydraulic released brake

Travel Motor: Hydraulic drive units w/ axial pistons, Auto-Shift 2-speed

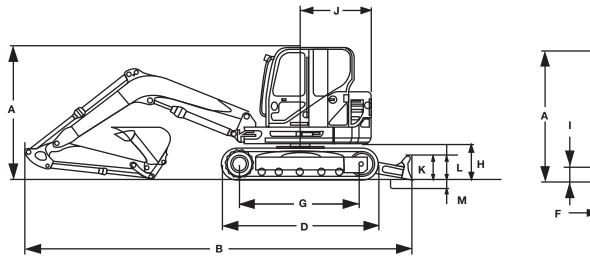
transmission, and hydraulic released parking brake

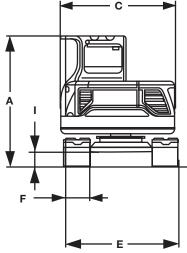
# SERVICE CAPACITIES

Fuel tank	15.9 gal (60 L)
Hydraulic tank:	
Refill capacity	13.2 gal (50 L)
Total system	17.2 gal (65 L)
Cooling system	2.4 gal (9 L)
Engine oil	1.8 gal (7 L)

#### **OTHER SPECIFICATIONS**

OTTIETT OF EOUTOATION	
Swing speed	10.5 RPM
Rubber tracks dimensions	13.8 x 2.2 x 3.5 in
	(350 x 55 x 88 mm)
Undercarriage:	
Track rollers	1 upper/5 lower each
Boom:	
Swing	71° left/56° right
Length	8 ft 2 in (2.5 m)
Arm:	
Standard length	4 ft 7 in (1.4 m)
Long arm length	5 ft 5 in (1.65 m)
Sound Pressure Internal - IS	:O6396 – LpA:
Canopy	81 dBA
Cab	74 dBA
Sound Power External - Lwi	96 dBA
Vibrations ISO 2631 - hand	0.98 m/s <sup>2</sup>
Vibrations ISO 2631 - whole	body 0.45 m/s <sup>2</sup>

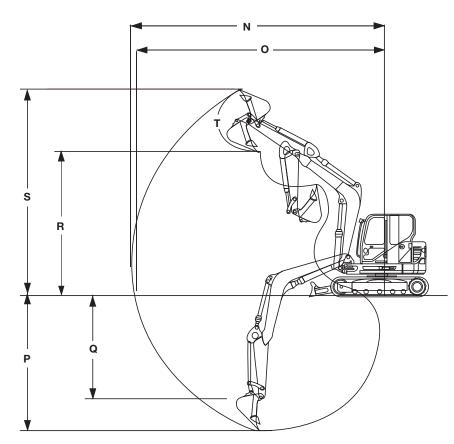




Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS	
	4 ft 7 in (1.40 m) Arm
A. Overall height	8 ft 3 in (2 510 mm)
B. Overall transport length	17 ft 5 in (5 300 mm)
C. Width of upper structure	5 ft 7 in (1 716 mm)
D. Track overall length	7 ft 5 in (2 260 mm)
E. Track overall width	5 ft 9 in (1 750 mm)
F. Track shoe width	1 ft 2 in (350 mm)
G. Center to center – idler to sprocket	5 ft 11 in (1 810 mm)
H. Upper structure ground clearance	1 ft 10 in (550 mm)
I. Minimum ground clearance	11.4 in (290 mm)
J. Tail swing radius: Standard counterweight Additional counterweight Additional counterweight – heavy	2 ft 10 in (875 mm) 3 ft 2 in (965 mm) 3 ft 4 in (1 015 mm)
Boom swing	71° left/56° right
Tail swing overhang: Standard counterweight Additional counterweight Additional counterweight – heavy	0 in (0 mm) 3.5 in (90 mm) 5.5 in (140 mm)

1 ft 4 in (410 mm)
1 ft 3 in (380 mm)
1 ft 1 in (330 mm)
5 ft 9 in (1 750 mm)



PERFORMANCE SPECS		
	4 ft 7 in (1.40 m) Arm	5 ft 5 in (1.65 m) Arm
N. Maximum dig radius	17 ft 9 in (5 400 mm)	18 ft 6 in (5 640 mm)
O. Dig radius at groundline	17 ft 3 in (5 270 mm)	18 ft 1 in (5 515 mm)
P. Maximum dig depth	10 ft 1 in (3 085 mm)	10 ft 11 in (3 335 mm)
Q. Vertical straight wall dig depth	7 ft 10 in (2 380 mm)	8 ft 7 in (2 620 mm)
R. Dump height	12 ft 0 in (3 660 mm)	12 ft 6 in (3 820 mm)
S. Overall reach height	16 ft 5 in (5 010 mm)	17 ft 0 in (5 170 mm)
T. Bucket rotation	195°	195°
Arm digging force – ISO	4,946 lbf (22 kN)	4,406 lbf (19.6 kN)
Bucket digging force - ISO	9,667 lbf (43 kN)	9,667 lbf (43 kN)

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8 ft 2 in (2.5 m) Boom, 4 ft 7 in (1.40 m) Arm, Dozer Blade Down Machine equipped with cab, rubber tracks, standard counterweight, without bucket or quick coupler.

Load/Lift Point Height	LOAD RADIUS								MAXIMUM REACH		
	3 ft (1.0 m)		7 ft (2.0 m)		10 ft (3.0 m)		13 ft (4.0 m)		REACH	CAPACITY	
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+13 ft (4.0 m)									10 ft 10 in (3.29 m)	1,984 lb* (900 kg)*	1,587 lb (720 kg)
+10 ft (3.0 m)							1,984 lb* (900 kg)*	1,146 lb (520 kg)	13 ft 7 in (4.15 m)	2,028 lb* (920 kg)*	1,080 lb (490 kg)
+7 ft (2.0 m)					2,491 lb* (1 130 kg)*	1,742 lb (790 kg)	2,161 lb* (980 kg)*	1,124 lb (510 kg)	15 ft 0 in (4.56 m)	2,116 lb* (960 kg)*	904 lb (410 kg)
+3 ft (1.0 m)					3,549 lb* (1 610 kg)*	1,587 lb (720 kg)	2,513 lb* (1 140 kg)*	1,058 lb (480 kg)	15 ft 4 in (4.67 m)	2,249 lb* (1 020 kg)*	838 lb (380 kg)
Groundline			7,937 lb* (3 600 kg)*	2,734 lb (1 240 kg)	4,145 lb* (1 880 kg)*	1,499 lb (680 kg)	2,800 lb* (1 270 kg)*	1,014 lb (460 kg)	14 ft 10 in (4.52 m)	2,403 lb* (1 090 kg)*	860 lb (390 kg)
-3 ft (-1.0 m)		13,073 lb (5 930 kg)	7,187 lb* (3 260 kg)*	2,756 lb (1 250 kg)	4,079 lb* (1 850 kg)*	1,499 lb (680 kg)	2,668 lb* (1 210 kg)*	1,014 lb (460 kg)	13 ft 4 in (4.06 m)	2,579 lb* (1 170 kg)*	992 lb (450 kg)
-7 ft (-2.0 m)			5,225 lb* (2 370 kg)*	2,866 lb (1 300 kg)	2,932 lb* (1 330 kg)*	1,565 lb (710 kg)			10 ft 2 in (3.10 m)	2,778 lb* (1 260 kg)*	1,499 lb (680 kg)

NOTE: Lifting capacity are based on ISO 10567.

Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

Back of the arm linkage.

\*Indicates load limited by hydraulic capacity.

For lift capacities with additional counterweights please see operators manual.

# 8 ft 2 in (2.5 m) Boom, 5 ft 5 in (1.65 m) Arm, Dozer Blade Down Machine equipped with cab, rubber tracks, additional counterweight, without bucket or quick coupler.

	LOAD RADIUS								MAXIMUM REACH		
Load/Lift Point Height	3 ft (1.0 m)		7 ft (2.0 m)		10 ft (3.0 m)		13 ft (4.0 m)		REACH	CAPACITY	
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+13 ft (4.0 m)									12 ft 0 in (3.65 m)	1,786 lb* (810 kg)*	1,543 lb (700 kg)
+10 ft (3.0 m)							1,742 lb* (790 kg)*	1,345 lb (610 kg)	14 ft 6 in (4.42 m)	1,852 lb* (840 kg)*	1,124 lb (510 kg)
+7 ft (2.0 m)					2,161 lb* (980 kg)*	2,028 lb (920 kg)	1,962 lb* (890 kg)*	1,301 lb (590 kg)	15 ft 9 in (4.80 m)	1,940 lb* (880 kg)*	970 lb (440 kg)
+3 ft (1.0 m)					3,263 lb* (1 480 kg)*	1,852 lb (840 kg)	2,381 lb* (1 080 kg)*	1,235 lb (560 kg)	16 ft 1 in (4.91 m)	2,072 lb* (940 kg)*	904 lb (410 kg)
Groundline			8,047 lb* (3 650 kg)*	3,153 lb (1 430 kg)	4,012 lb* (1 820 kg)*	1,742 lb (790 kg)	2,712 lb* (1 230 kg)*	1,191 lb (540 kg)	15 ft 8 in (4.77 m)	2,205 lb* (1 000 kg)*	926 lb (420 kg)
-3 ft (-1.0 m)		14,749 lb (6 690 kg)	7,562 lb* (3 430 kg)*	3,153 lb (1 430 kg)	4,123 lb* (1 870 kg)*	1,720 lb (780 kg)	2,734 lb* (1 240 kg)*	1,168 lb (530 kg)	14 ft 3 in (4.34 m)	2,403 lb* (1 090 kg)*	1,058 lb (480 kg)
-7 ft (-2.0 m)			5,975 lb* (2 710 kg)*	3,263 lb (1 480 kg)	3,395 lb* (1 540 kg)*	1,764 lb (800 kg)			11 ft 5 in (3.48 m)	2,601 lb* (1 180 kg)*	1,455 lb (660 kg)

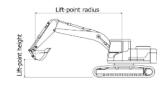
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Back of the arm linkage.

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For lift capacities with additional counterweights please see operators manual.



#### STANDARD EQUIPMENT

#### **ENGINE**

KUBOTA D1803

Glow Plugs for cold weather starting

Dry air filter with clogged filter warning on control panel

Variable Speed Hydraulic cooling fan with reverse function

#### **ELECTRICAL**

12-volt electrical system

Heavy-duty battery

Battery disconnect switch

Auxiliary Power Socket (left console, righthand upright)

USB type A power socket

Key Start Switch

Auxiliary Power socket on roof for beacon

Auto-idle feature with on/off switch

Horn

Pre-wired - Telematics ready

# **HYDRAULICS**

Standard 1st auxiliary hydraulics. 1 or 2 way operation. Set in control panel.

2nd auxiliary hydraulics - 2-way

Large hydraulic oil cooler

Control pattern selector valve

Cylinder guard on boom and dozer blade cylinder

#### TRACK DRIVE

Rubber belt tracks

2-speed travel (turtle & rabbit) with auto-shift

Fully hydrostatic drive system

Sealed and lubricated track rollers

Track Tensioner Hydraulic adjustment with grease

#### LIGHTING

LED light under boom

LED strip lights on right hand side engine cover

Courtesy Light with 3 settings:

Always on

Always off

Automatic when door is open (cab only)

#### **UPPER STRUCTURE**

Zero Tail Swing (with standard counterweight) Standard arm: 4 ft 7 in (1.40 m)

Linkage with lifting hook

Thumb bracket

Backfill blade with float

#### **OPERATOR ENVIRONMENT**

See page 1

#### **OTHER**

Swing boom - 71° left/56° right

#### **WARRANTY**

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

#### **OPTIONAL EQUIPMENT**

#### **OPERATOR ENVIRONMENT**

Fabric Pneumatic Seat with automatic weight control (cab only)

Travel Alarm

# TRACK OPTIONS

Tracks:

Steel Tracks

#### **VISIBILITY**

Rear view camera

LED lights on top of cab/canopy, front and rear

Beacon

# **HYDRAULICS**

3rd auxiliary hydraulics - 2-way

Direct drain to tank

Load holding valves on boom and arm

Mulcher hydraulics package

Bio hydraulic oil

#### OTHER

6-way backfill blade

Additional counterweight adds: 617 lb (280 kg)

Additional counterweight - heavy:

926 lb (420 kg)

Optional long arm: 5 ft 5 in (1.65 m)

# **ATTACHMENTS**

Mechanical quick coupler

Hydraulic quick coupler

Digging buckets

Thumb

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