

E42D

MINI EXCAVATOR



ENGINE	
Model	Kubota D1803
Emissions certification	Stage V
Fuel	Diesel
Cylinders	3
Displacement	111.4 in ³ (1826 cc)
Fuel injection	Electronic common rail
Gross horsepower – SAE J1995 @ 2300 RPM:	43.3 hp (32.3 kW)
Maximum engine torque @ 1600 RPM:	110.6 lb ft (150 Nm)
Minimum RPM	1000
Maximum RPM	2400
Cooling	Liquid
Cooling fan:	Variable speed hydraulic cooling fan w/ reverse function

DRIVETRAIN	
Travel speeds – 2-speed travel w/ auto-shift:	
1st	1.6 mph (2.6 kph)
2nd	2.8 mph (4.5 kph)
Maximum traction force	9577 lbf (42.6 kN)
Gradeability	30° (60%)
Ground pressure	4.1 psi (0.29 kgf/cm ²) 4.3 psi (0.3 kgf/cm ²)

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, replace w/ fabric pneumatic seat with automatic weight control (cab only), 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	9259 lb (4200 kg)
Long arm w/ additional counterweight	9921 lb (4500 kg)
Cab operating weight:	
Short arm	9590 lb (4350 kg)
Long arm w/ additional counterweight	10,251 lb (4650 kg)
Counterweights:	
Standard	110 lb (50 kg)
Additional	617 lb (280 kg)
Additional (heavy)	925 lb (420 kg)

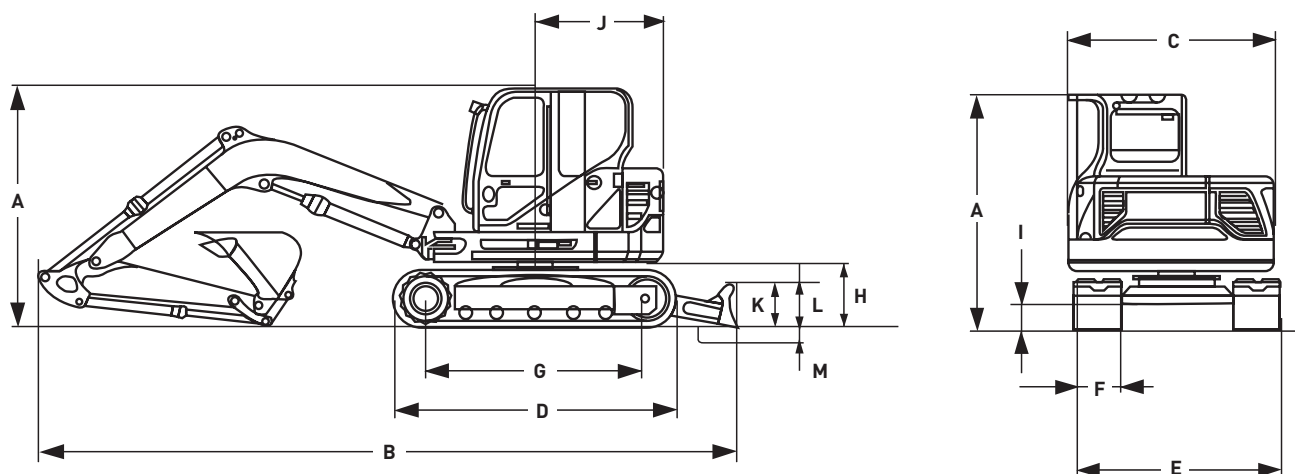
NOTE: w/ rubber tracks/no quick coupler/bucket/fluids/full of fuel/165 lb operator.

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)

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 in ³ (53.7 + 11.2 cc)
Total flow rate	28.3 + 5.9 gpm (107 + 22.3 L/min)
Operating pressures:	
Boom, bucket, blade, travel motors	4061 psi (280 bar)
Swing gear motor	2828 psi (195 bar)
Pilot controls	93 psi (34 bar)
Auxiliary flow:	
Aux 1 – 1 or 2-way circuit:	
Max flow	18.5 gpm (70 L/min)
Max pressure	2900 psi (200 bar)
Aux 2 – 2-way circuit:	
Max flow	10.6 gpm (40 L/min)
Max pressure	4061 psi (280 bar)
Swing motor:	
Hydraulic drive units w/ axial pistons and hydraulic released brake	
Travel motor:	
Hydraulic drive units w/ axial pistons, Auto-Shift 2-speed transmission, and hydraulic released parking brake	

OTHER SPECIFICATIONS	
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 – ISO6396 – LpA:	
Canopy	81 dBA
Cab	74 dBA
Sound Power External – LwA	98 dBA
Vibrations ISO 2631 – hand	0.98 m/s ²
Vibrations ISO 2631 – whole body	0.45 m/s ²



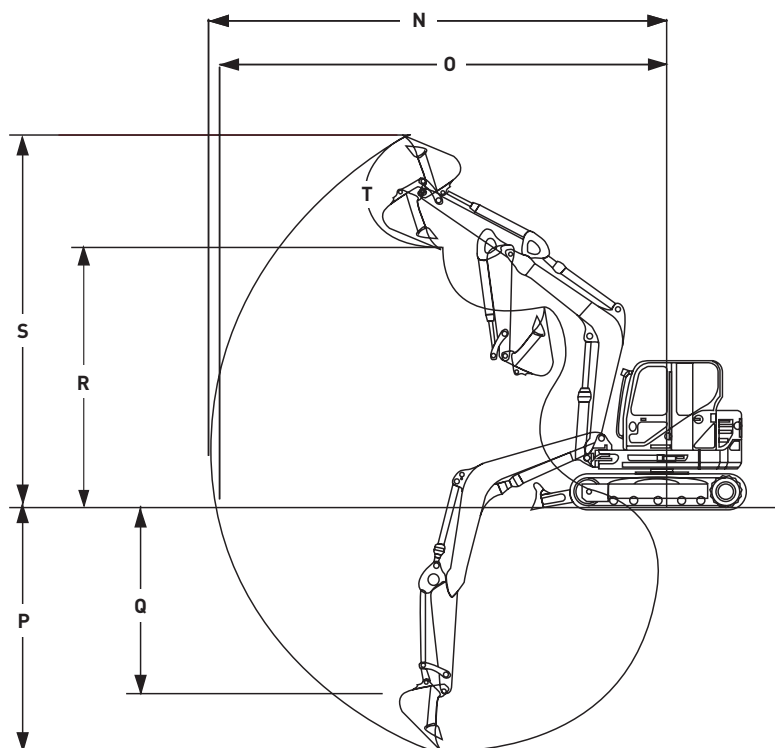


DIMENSIONS

Arm Length	4 ft 7 in (1.40 m)
A Overall height	8 ft 3 in (2510 mm)
B Overall transport length	17 ft 5 in (5300 mm)
C Width of upper structure	5 ft 7 in (1716 mm)
D Track overall length	7 ft 5 in (2260 mm)
E Track overall width:	5 ft 9 in (1750 mm)
F Track shoe width	1 ft 2 in (350 mm)
G Center to center – idler to sprocket	5 ft 11 in (1810 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	2 ft 10 in (875 mm)
Additional counterweight	3 ft 2 in (965 mm)
Additional counterweight – heavy	3 ft 4 in (1015 mm)
Boom swing	71° left/56° right
Tail swing overhang:	
Standard counterweight	0 in (0 mm)
Additional counterweight	3.5 in (90 mm)
Additional counterweight – heavy	5.5 in (140 mm)

BLADE SPECS

K Backfill blade height	1 ft 4 in (410 mm)
L Backfill blade rise above ground	1 ft 3 in (380 mm)
M Backfill blade dig depth	1 ft 1 in (330 mm)
Backfill blade width	5 ft 9 in (1750 mm)



PERFORMANCE SPECS

Arm Length	4 ft 7 in (1.40 m)	5 ft 5 in (1.65 m)
N Maximum dig radius	17 ft 9 in (5400 mm)	18 ft 6 in (5640 mm)
O Dig radius at groundline	17 ft 3 in (5270 mm)	18 ft 1 in (5515 mm)
P Maximum dig depth	10 ft 1 in (3085 mm)	10 ft 11 in (3335 mm)
Q Vertical straight wall dig depth	7 ft 10 in (2380 mm)	8 ft 7 in (2620 mm)
R Dump height	12 ft 0 in (3660 mm)	12 ft 6 in (3820 mm)
S Overall reach height	16 ft 5 in (5010 mm)	17 ft 0 in (5170 mm)
T Bucket rotation	195°	195°
Arm digging force – ISO	4946 lbf (22 kN)	4406 lbf (19.6 kN)
Bucket digging force – ISO	9667 lbf (43 kN)	9667 lbf (43 kN)

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

E42D MINI EXCAVATOR SPECIFICATIONS

LIFT CAPACITIES

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	ft m	End	Side
+13 ft (4.0 m)									10 ft 10 in (3.29 m)	1984 lb* (900 kg)*	1587 lb (720 kg)
+10 ft (3.0 m)							1984 lb* (900 kg)*	1146 lb (520 kg)	13 ft 7 in (4.15 m)	2028 lb* (920 kg)*	1080 lb (490 kg)
+7 ft (2.0 m)					2491 lb* (1130 kg)*	1742 lb (790 kg)	2161 lb* (980 kg)*	1124 lb (510 kg)	15 ft 0 in (4.56 m)	2116 lb* (960 kg)*	904 lb (410 kg)
+3 ft (1.0 m)					3549 lb* (1610 kg)*	1,87 lb (720 kg)	2513 lb* (1140 kg)*	1058 lb (480 kg)	15 ft 4 in (4.67 m)	2249 lb* (1020 kg)*	838 lb (380 kg)
Groundline			7937 lb* (3600 kg)*	2734 lb (1240 kg)	4145 lb* (1880 kg)*	1499 lb (680 kg)	2800 lb* (1270 kg)*	1014 lb (460 kg)	14 ft 10 in (4.52 m)	2403 lb* (1090 kg)*	860 lb (390 kg)
-3 ft (-1.0 m)		13,073 lb (5930 kg)	7187 lb* (3260 kg)*	2756 lb (1250 kg)	4079 lb* (1850 kg)*	1499 lb (680 kg)	2668 lb* (1210 kg)*	1014 lb (460 kg)	13 ft 4 in (4.06 m)	2579 lb* (1170 kg)*	992 lb (450 kg)
-7 ft (-2.0 m)			5225 lb* (2370 kg)*	2866 lb (1300 kg)	2932 lb* (1330 kg)*	1565 lb (710 kg)			10 ft 2 in (3.10 m)	2778 lb* (1260 kg)*	1499 lb (680 kg)

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, standard counterweight, without bucket or quick coupler.

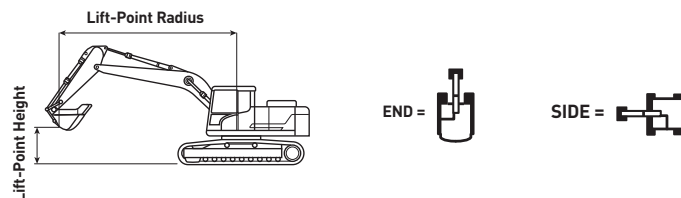
Load (Lift Point) Height	Load Radius								Maximum Reach		
	3 ft (1.0 m)		7 ft (2.0 m)		10 ft (3.0 m)		13 ft (4.0 m)		Reach	Capacity	
	End	Side	End	Side	End	Side	End	Side	ft m	End	Side
+13 ft (4.0 m)									12 ft 0 in (3.65 m)	1786 lb* (810 kg)*	1543 lb (700 kg)
+10 ft (3.0 m)							1742 lb* (790 kg)*	1345 lb (610 kg)	14 ft 6 in (4.42 m)	1852 lb* (840 kg)*	1124 lb (510 kg)
+7 ft (2.0 m)					2161 lb* (980 kg)*	2028 lb (920 kg)	1962 lb* (890 kg)*	1301 lb (590 kg)	15 ft 9 in (4.80 m)	1940 lb* (880 kg)*	970 lb (440 kg)
+3 ft (1.0 m)					3263 lb* (1480 kg)*	1852 lb (840 kg)	2381 lb* (1080 kg)*	1235 lb (560 kg)	16 ft 1 in (4.91 m)	2072 lb* (940 kg)*	926 lb (410 kg)
Groundline			8047 lb* (3650 kg)*	3153 lb (1430 kg)	4012 lb* (1820 kg)*	1742 lb (790 kg)	2712 lb* (1230 kg)*	1191 lb (540 kg)	15 ft 8 in (4.77 m)	2205 lb* (1000 kg)*	926 lb (420 kg)
-3 ft (-1.0 m)		14,749 lb (6690 kg)	7562 lb* (3430 kg)*	3153 lb (1430 kg)	4123 lb* (1870 kg)*	1720 lb (780 kg)	2734 lb* (1240 kg)*	1168 lb (530 kg)	14 ft 3 in (4.34 m)	2403 lb* (1090 kg)*	1,058 lb (80 kg)
-7 ft (-2.0 m)			5975 lb* (2710 kg)*	3263 lb (1480 kg)	3395 lb* (1540 kg)*	1764 lb (800 kg)			11 ft 5 in (3.48 m)	2601 lb* (1180 kg)*	1455 lb (660 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.



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, right-hand upright)
- USB type A power socket
- Key start switch
- Auxiliary power socket on roof for beacon
- Auto-idle feature with on/off switch
- Horn

Visibility

- Rear view camera
- LED lights on top of cab/canopy, front and rear

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
- Direct drain to tank

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 (1.4 m)
- Linkage with lifting hook
- Thumb bracket
- Backfill blade with float

Operator Environment

- See page 1
- Fabric pneumatic seat with automatic weight control (cab only)
- Travel Alarm

Other

- Swing boom - 71° left /56° right
- Additional counterweight adds:
 - 617 lb (280 kg)

Telematics

- New Holland FleetForce™ Telematics - includes hardware and a 5-year advanced data subscription for 2-way communication

Warranty

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

Optional Equipment

Track Options

- Tracks:
 - Steel tracks

Visibility

- Beacon

Hydraulics

- Mulcher hydraulics package

Other

- 6-way backfill blade
- 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



New Holland Construction
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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.



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