



Engine	Kubota D902
Rated Power	11.8 kW (15.8 hp / 16.0 ps) @ 2,300 rpm
Operating Weight	1,850 kg (steel track) (4,079 lbs) 1,750 kg (rubber track) (3,858 lbs)
Bucket Capacity	0.045 m ³ (0.059 yd ³)

9017FZTS EXCAVATOR

9017FZTS

EXCAVATOR

Tier 4F / Stage V



SPECIFICATIONS

Operating weight	Canopy 1,850 kg (steel track)
	Canopy 1,750 kg (rubber track)

Operating weight includes coolant, lubricants, full fuel tank, cab, standard Shoes, boom, arm, bucket and operator 75 kg (165 lbs).

Bucket capacity	0.045 m ³
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ENGINE

Description

3-cylinder straight four strokes, indirect injection.

Emission rating	Tier 4F / Stage V
Engine manufacturer	Kubota
Engine model	D902
Aspiration	Natural
Charged air cooling	Watercooler
Cooling fan drive	Direct
Displacement	0.898 L
Rated speed	2,300 rpm
Engine output - net	11.8 kW
Maximum torque	51.30 N·m @1,800 rpm
Bore × Stroke	72 × 73.6 mm

UNDERCARRIAGE

Track shoe each side	37 (metal) / 70 (rubber)
Link pitch	90 mm (metal) / 48 mm (rubber)
Shoe width, triple grouser	230 mm
Bottom rollers each side	3
Top rollers each side	-

SWING SYSTEM

Description

Planetary gear reduction driven by high torque axial piston motor, with oil disk brake. Swing parking brake resets within five seconds after swing pilot controls return to neutral

Swing speed	9.5 rpm
Swing torque	2,119 N·m

HYDRAULIC SYSTEM

Main pump

Type	Load-sensing variable pump
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Maximum flow	44 L/min
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Relief valve setting

Implement	21 MPa
Travel circuit	21 MPa
Slew circuit	13.2 MPa
Pilot circuit	3.5-3.9 MPa

Hydraulic cylinders

Boom Cylinder – Bore × Stroke	Φ60 × 462 mm
Arm Cylinder – Bore × Stroke	Φ60 × 365 mm
Bucket Cylinder – Bore × Stroke	Φ60 × 295 mm

ELECTRIC SYSTEM

System voltage	12 V
Batteries	12 V
Alternator	12 V - 40 A
Start motor	12 V - 1.4 kW

SERVICE CAPACITIES

Fuel tank	22 L
Engine oil	3.7 L
Cooling system	3 L
Hydraulic reservoir	15 L
Hydraulic system total	-

SOUND PERFORMANCE

Interior Sound Power Level (ISO 6396)	79 dB(A)
Exterior Sound Power Level (ISO 6395)	92 dB(A)

DRIVE AND BRAKES

Description

Steering controlled by two hand levers with pedals.

Max. travel speed	High: 4.0 km/h Low: 2.2 km/h
Gradeability	30%/58%
Max. drawbar pull	16 kN

MACHINE WEIGHTS & GROUND PRESSURE

Shoe width	Shoe type	Operating weight	Ground pressure	Overall width
		1,685 mm, 1,070 mm arm, 0.045 m ³ bucket, 145 kg counterweight		
230 mm	Metal	1,850 kg	29.6 kPa	1,290 mm
	Rubber	1,750 kg	28.1 kPa	1,290 mm

ARM DIMENSIONS

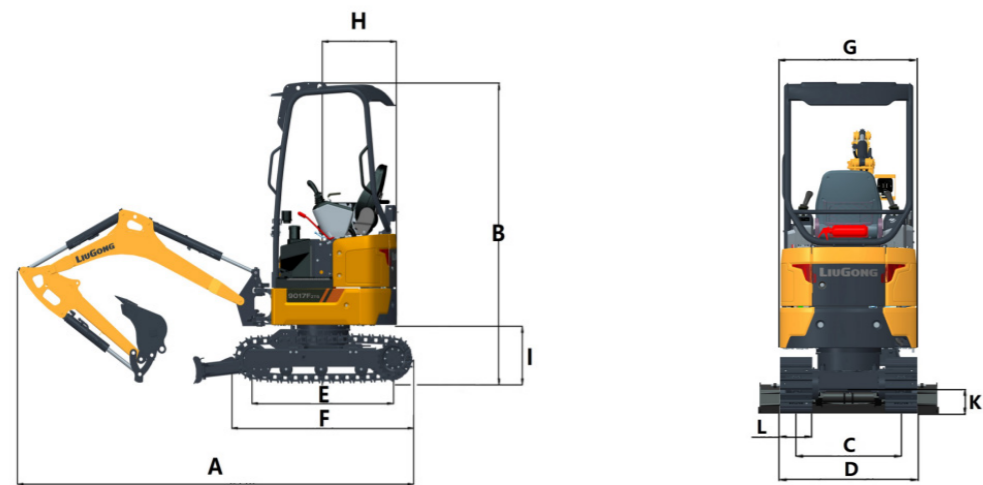
Description			
Arm	1,070 mm (3'6")		1,210 mm (3'12")
Length	1,305 mm (4'3")		1445 mm (4'7")
Height	282 mm (11")		248 mm (10")
Width	113 mm (10")		113 mm (9")
Weight	50 kg (110 lbs)		52 kg (115 lbs)

Cylinder, linkage and pin included.

BOOM DIMENSIONS

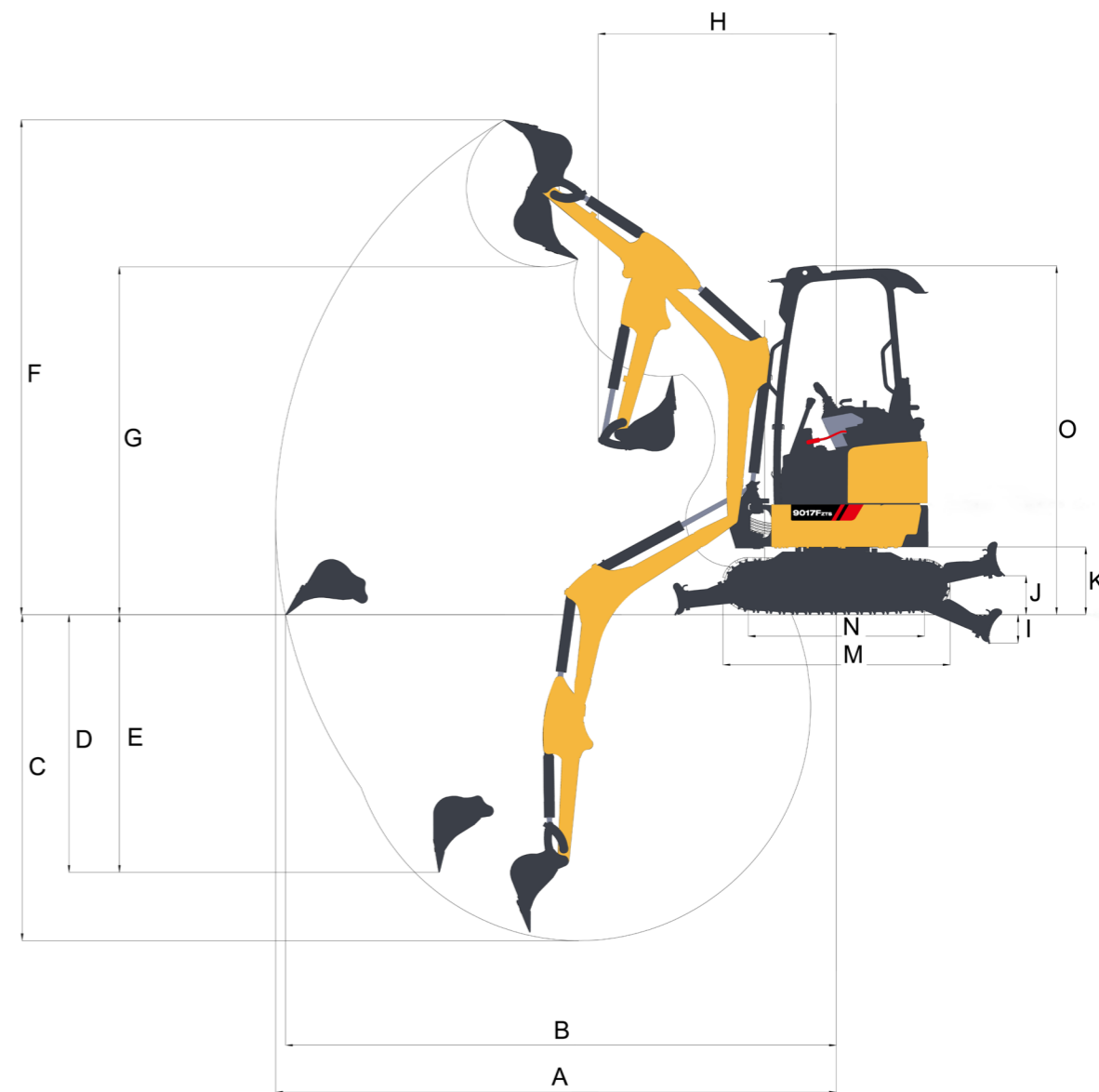
Description	
Boom	1,685 mm (5'6")
Length	1,767 mm (5'10")
Height	615 mm (2'0")
Width	246 mm (10")
Weight	88 kg (193 lbs)

Cylinder, piping and pin included. Boom cylinder pin excluded.



DIMENSIONS

Boom	1,685 mm	
Arm Options	1,070 mm	1,210 mm
A Shipping Length	3,445 mm	3,415 mm
B Shipping Height – Top of Boom	2,410 mm	
C Track Gauge	750 mm	1,060 mm
D Undercarriage Width - 230mm shoes	980 mm	1,290 mm
E Length to Center of Rollers	1230 mm	
F Track Length	1580 mm	
G Overall Width of Upper Structure	980 mm	
H Tail Swing Radius	1,070 mm	
I Counterweight Ground Clearance	469 mm	
J Overall Height of Cab	1,652 mm	
K Min. Ground Clearance	150 mm	
L Track Shoe Width	230 mm	
Maximum Boom Offset to the Right	419 mm	
Maximum Boom Offset to the Left	558 mm	
Maximum Boom Swing Angle to the Right	58°	
Maximum Boom Swing Angle to the Left	72°	



WORKING RANGE

Boom Length	1,685 mm	
Arm Options	1,070 mm	1,210 mm
A. Max. Digging Reach	3,910 mm	4,040 mm
B. Max. Digging Reach on Ground	3,840 mm	3,980 mm
C. Max. Digging Depth	2,255 mm	2,395 mm
D. Max. Digging Depth, 2.44 m (8') level	-	-
E. Max. Vertical Wall Digging Depth	1,780 mm	1,915 mm
F. Max. Cutting Height	3,420 mm	3,510 mm
G. Max. Dumping Height	2,400 mm	2,495 mm
H. Min. Front Swing Radius	645 mm	645 mm
I. Maximum Blade Depth	240 mm	240 mm
J. Maximum Blade Height	240 mm	240 mm
K. Counterweight Ground Clearance	469 mm	469 mm
M. Track Length	1,580 mm	1,580 mm
N. Length to Center of Rollers	1,230 mm	1,230 mm
O. Shipping Height – Top of Boom	2,410 mm	2,410 mm

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, weight of the bucket or the bucket with quick coupler must be deducted from the lifting capacities.
Lifting capacities are based on the machine standing on a firm, uniform supporting surface.



Rating over-front (Cf)



Rating over-side (Cs)

- Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
- The rated loads are in compliance with ISO 10567 Hydraulic Excavator Lift Capacity Rating Standard. They do not exceed 87% of hydraulic lifting capacity or 75% tipping load.
- Ratings at bucket lift hook.
- Lifting capacities are based on machine standing on level, firm and uniform ground.
- *Indicates the load is limited by hydraulic capacity rather than tipping capacity.
- Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine and rules for the safe operation of equipment should be adhered to at all times.

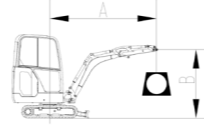
LIFTING CAPACITY (METRIC)

9017FZTS with 230 mm Shoes, 1,685 mm Boom, 1,070 mm Arm

Conditions

A: Load radius
B: Load point height
C: Lifting capacity rating
Cf: Rating loads over front
Cs: Rating loads over side or 360°

Boom length: 1,685 mm
Arm length: 1,070 mm
Shoes: 230 mm
Bucket: SAE 0.045 m³ 45.8 kg
Unit: kg



B (m)		A (Blade Up)										A (m)
		1.5m		2m		2.5m		3m		MAX REACH		
	kg	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
3.0	kg	—	—	—	—	—	—	—	—	—	—	—
2.5	kg	—	—	—	—	352	272	—	—	334	259	2.58
2.0	kg	—	—	—	—	303	233	—	—	228	175	2.975
1.5	kg	—	—	*360	323	298	229	224	172	201	154	3.21
1.0	kg	—	—	404	305	289	220	220	168	188	142	3.335
0.5	kg	—	—	384	286	279	210	215	163	183	138	3.36
Ground Level	kg	579	496	371	274	271	203	211	159	187	141	3.285
-0.5	kg	578	414	366	270	267	199	209	157	200	150	3.11
-1.0	kg	583	418	367	271	267	200	—	—	230	173	2.805
-1.5	kg	594	428	374	277	—	—	—	—	309	231	2.29
-2.0	kg	—	—	—	—	—	—	—	—	—	—	—
-2.5	kg	—	—	—	—	—	—	—	—	—	—	—

B (m)		A (Blade Down)										A
		1.5m		2m		2.5m		3m		MAX REACH		
	kg	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
3.0	kg	—	—	—	—	—	—	—	—	—	—	—
2.5	kg	—	—	—	—	*375	232	—	—	*396	220	2.58
2.0	kg	—	—	—	—	*350	233	—	—	*406	175	2.975
1.5	kg	—	—	*360	323	*409	229	*410	172	*403	154	3.21
1.0	kg	—	—	*611	305	*500	220	*435	168	*395	142	3.335
0.5	kg	—	—	*787	286	*569	210	*453	163	*386	138	3.36
Ground Level	kg	*731	496	*813	274	*583	203	*446	159	*380	141	3.285
-0.5	kg	*1,129	414	*752	270	*546	199	*405	157	*374	150	3.11
-1.0	kg	*965	418	*648	271	*467	200	—	—	*374	173	2.805
-1.5	kg	*750	428	*495	277	—	—	—	—	*388	231	2.29
-2.0	kg	—	—	—	—	—	—	—	—	—	—	—
-2.5	kg	—	—	—	—	—	—	—	—	—	—	—

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, weight of the bucket or the bucket with quick coupler must be deducted from the lifting capacities.
Lifting capacities are based on the machine standing on a firm, uniform supporting surface.



Rating over-front (Cf)



Rating over-side (Cs)

- Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
- The rated loads are in compliance with ISO 10567 Hydraulic Excavator Lift Capacity Rating Standard. They do not exceed 87% of hydraulic lifting capacity or 75% tipping load.
- Ratings at bucket lift hook.
- Lifting capacities are based on machine standing on level, firm and uniform ground.
- *Indicates the load is limited by hydraulic capacity rather than tipping capacity.
- Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine and rules for the safe operation of equipment should be adhered to at all times.

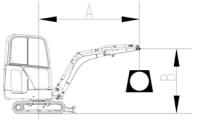
LIFTING CAPACITY (IMPERIAL)

9017FZTS with 9" Shoes, 5'5" Boom, 3'5" Arm

Conditions

A: Load radius
B: Load point height
C: Lifting capacity rating
Cf: Rating loads over front
Cs: Rating loads over side or 360°

Boom length: 5'6"
Arm length: 3'6"
Shoes: 9"
Bucket: None
Unit: lbs



B (ft)		A (Blade Up)										MAX REACH
		5 ft		7 ft		8 ft		10 ft		MAX REACH		
	lbs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
10	lbs	—	—	—	—	—	—	—	—	—	—	—
8	lbs	—	—	—	—	352	272	—	—	334	259	2.58
7	lbs	—	—	—	—	669	514	—	—	503	386	2.975
5	lbs	—	—	*794	713	658	506	494	380	444	340	3.21
3	lbs	—	—	892	673	638	486	486	371	415	313	3.335
2	lbs	—	—	848	631	616	464	475	360	404	305	3.36
Ground Level	lbs	1,278	1,095	819	605	598	448	466	351	413	311	3.285
-2	lbs	1,276	914	808	596	589	439	461	347	442	331	3.11
-3	lbs	1,287	923	810	598	589	442	—	—	508	382	2.805
-5	lbs	1,311	—	826	611	—	—	—	—	682	510	2.29
-7	lbs	—	—	—	—	—	—	—	—	—	—	—
-8	lbs	—	—	—	—	—	—	—	—	—	—	—

B (ft)		A (Blade down)										MAX REACH
		5 ft		7 ft		8 ft		10 ft		MAX REACH		
	lbs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
10	lbs	—	—	—	—	—	—	—	—	—	—	—
8	lbs	—	—	—	—	*828	512	—	—	*874	486	2.58
7	lbs	—	—	—	—	*773	514	—	—	*896	386	2.975
5	lbs	—	—	*795	713	*903	506	*905	380	*889	340	3.21
3	lbs	—	—	*1,349	673	*1,104	485	*960	370	*872	313	3.335
2	lbs	—	—	*1,737	631	*1,256	464	*1,000	360	*852	305	3.36
Ground Level	lbs	*1,614	1,095	*1,795	605	*1,287	448	*985	350	*838	311	3.285
-2	lbs	*2,492	914	*1,660	596	*1,205	439	*894	346	*825	331	3.11
-3	lbs	*2,130	923	*1,430	598	*1,031	442	—	—	*825	382	2.805
-5	lbs	*1,655	945	*1,092	611	—	—	—	—	*856	510	2.29
-7	lbs	—	—	—	—	—	—	—	—	—	—	—
-8	lbs	—	—	—	—	—	—	—	—	—	—	—

STANDARD EQUIPMENT

ENGINE SYSTEM

- Dry type air cleaner (inside and outside elements)
- Manual mechanical accelerator
- Engine manual pre-heating
- Fuel tank with drain plug
- Fuel supply passage with electric fuel pump
- Fuel shutoff valve
- Fuel level sensor
- Fuel refilling and fuel level alert
- Fuel pre-filter with water separation
- Fuel filter
- Radiator group with drain plug
- Coolant-level indicator (ground level)
- Cold start assembly (-15°C)

ELECTRICAL SYSTEM

- Display: hour meter, tachometer and timer etc.
- Indicator: engine oil pressure, low fuel level, air filter plugging, overheating, high fuel level, etc.
- Horn
- Pilot cut-off switch
- Disconnect switch
- 12 Volt power outlet with cap
- Data diagnosis port
- Auto diagnosis system
- Free maintenance battery
- 1 working light on boom (with guard)
- Fuse box
- Travel alarm (can be cancelled)

- Rotating beacon
- Integrated shift lever with high speed and creep speed

HYDRAULIC SYSTEM

- Pilot accumulator
- Visual hydraulic oil level (level gauge)
- Straight travel function
- Blade cylinder guard
- Swing lock: mechanical disc brake
- Service break
- Auto-shift travel speed
- Travel two-speed switching
- Boom deflection controlled by pedal
- Large flow single / two-way attached hydraulic line (to arm)
- Manual switch on auxiliary circuit: one way / dual way
- Attached large flow line controlled by electric proportional handle (with flow lock)

OPERATOR STATION

- Cabin with ROPS standard
- Cabin with TOPS standard
- Canopy
- File bag or file box
- Pedals for rest
- Height adjustable elbow rest
- Left armrest box can be flipped

- Foldable walking pedal
- Fire extinguisher
- General seat with 2' red retractable seat belt+seat belt alarm)
- 1 working light on the top of the cab

DIGGING EQUIPMENT

- Standard boom
- Standard arm 1,070 mm
- Boom with lifting hole
- Boom swing

UPPER STRUCTURE

- Boom swing position limit
- Swing lock: mechanical disc brake
- Transport fixing hole of travel frame
- Traction hole
- Seat forward
- Upper platform fastening point

UNDERCARRIAGE

- Extendable track frame
- Cover plate under travel frame
- Rubber shoes
- Dozer blade
- Foldable dozer blade

OPTIONAL EQUIPMENT

ELECTRICAL SYSTEM

- GPS (T-BOX)

HYDRAULIC SYSTEM

- Bucket cylinder rod protect
- Bucket clamp system
- Maximum flow adjustment of large flow auxiliary line
- Adjustable pressure (manually adjustable)

DIGGING EQUIPMENT

- Additional counterweight
- 1,210 mm (4') long arm

UPPER STRUCTURE

- Platform bottom plate

UNDERCARRIAGE

- Steel track
- Rubber block
- Long dozer blade (to reach the bucket)



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