LiuGong North America

9017FZTS

EXCAVATOR

Engine	Rated Power	Operating Weight	Bucket Capacity
Kubota D902	15.8 hp (11.8 kW)	3,858.1 - 4,078.6 lb (1,750 - 1,850 kg)	0.02 - 0.105 yd^3 (0.015 - 0.08 m^3)



XTRACARE WARRANTY

SPECIFICATIONS

ENGINE

Description	
Kubota EPA Tier 4 final / EU Stage V, 3-cylinder, 4-stroke direct injection diesel engine.	
Emission rating	EPA Tier 4F / EU Stage V
Engine manufacturer	Kubota
Engine model	D902
Aspiration	Natural
Cooling fan drive	Direct
Displacement	0.2 gal (0.9 L)
Rated Power(SAE J1995 / ISO 14396)	15.8 hp (11.8 kW) @ 2,300 rpm
Max. Torque	37.8 lbf·ft (51.3 N·m) @ 1,800 rpm
Bore × stroke	3.15" × 3.31" (72 × 73.6 mm)

ELECTRIC SYSTEM

System voltage	12 V
Batteries	12 V
Alternator	12 V - 40 A
Starter motor	12 V - 1.9 hp (1.4 kW)

HYDRAULIC SYSTEM

Main pump	
Type	Load-sensing variable pump
Max. flow	11.6 gpm (44 L/min)
Relief valve setting	
Implement	3,045.8 psi (21 MPa)
Travel circuit	3,045.8 psi (21 MPa)
Slew circuit	1,914.5 psi (13.2 MPa)
Pilot circuit	507.6 - 565.6 psi (3.5 - 3.9 MPa)
Hydraulic cylinders	
Boom cylinder – bore × stroke	2.4" x 1'6" (Φ60 × 462 mm)
Arm cylinder – bore × stroke	2.4" x 1'2" (Φ60 × 365 mm)
Bucket cylinder – bore × stroke	2.4" x 12" (Φ60 × 295 mm)
Dozer cylinder – bore × stroke	2.6" x 3.5" (Φ65 × 89 mm)
Swing cylinder – bore × stroke	2.2" x 1.7" (Φ55 × 349 mm)

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	11 rpm
Swing torque	1,562.9 lb·ft (2,119 N·m)

DRIVE AND BRAKES

Description	
Steering controlled by two hand levers with pedals.	
Max. Travel speed	High: 2.5 mph (4 km/h) Low: 1.1 mph (1.8 km/h)
Gradeability	30° / 58%
Max. Drawbar pull	3,821.8 lbf (17 kN)

UNDERCARRIAGE

Track shoe each side	Steel track shoes: 1.5" (37 mm) / Rubber track shoes: 2.8" (70 mm)
Link pitch	Steel track shoes: 3.5" (90 mm) / Rubber track shoes: 1.9" (48 mm)
Shoe width, triple grouser	9" (230 mm)
Bottom rollers each side	3
Top rollers each side	1

SOUND PERFORMANCE

Interior sound power Level (ISO 6396)	80 dB(A)
Exterior sound power Level (ISO 6395)	93 dB(A)

SERVICE CAPACITIES

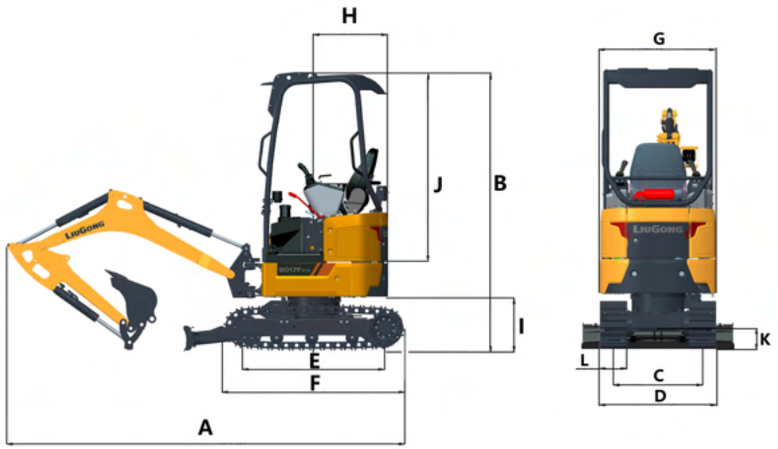
Fuel tank	5.8 gal (22 L)
Engine oil	1 gal (3.7 L)
Cooling system	0.8 gal (3 L)
Hydraulic reservoir	4 gal (15 L)

LGNA-HEX-9017F$_{ZTS}$-Stage V-USL-EN-032026

Specifications and designs are subject to change without notice.
Machines shown may include optional equipment.

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SPECIFICATIONS



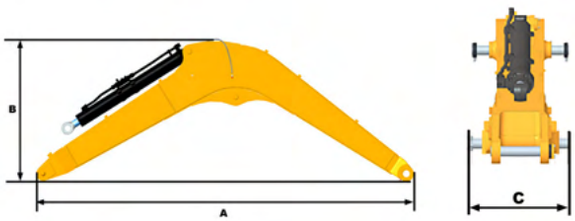
DIMENSIONS

	Boom	5'6" (1,685 mm)	
	Arm options	3'6" (1,070 mm)	3'12" (1,210 mm)
A	Shipping length	11'4" (3,445 mm)	11'2" (3,415 mm)
B	Shipping height	7'11" (2,410 mm)	
C	Track gauge	2'6" (750 mm)	3'6" (1,060 mm)
D	Undercarriage width – 9" (230 mm) shoes	3'3" (980 mm)	4'3" (1,290 mm)
E	Length to center of rollers	4' (1,230 mm)	
F	Track length	5'2" (1,580 mm)	
G	Overall width of upper structure	3'3" (980 mm)	
H	Tail swing radius	2'1" (645 mm)	
I	Counterweight ground clearance	1'6" (469 mm)	
J	Overall height of cab	5'5" (1,652 mm)	
K	Min. Ground clearance	6" (150 mm)	
L	Track shoe width	9" (230 mm)	
	Distance between the working device and swing center--right	1'4" (419 mm)	
	Distance between the working device and swing center--left	1'10" (558 mm)	
	Max. Boom swing angle to the right	58°	
	Max. Boom swing angle to the left	72°	

BOOM

Boom	5'6" (1,685 mm)
A Length	5'10" (1,767 mm)
B Height	2' (615 mm)
C Width	10" (246 mm)
Weight	194 lb (88 kg)

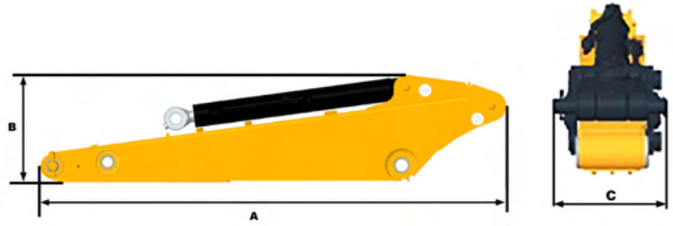
Cylinder, piping and pin included. Boom cylinder pin excluded.



ARM

Arm	3'6" (1,070 mm)	3'12" (1,210 mm)
A Length	4'3" (1,305 mm)	4'9" (1,445 mm)
B Height	11" (282 mm)	10" (248 mm)
C Width	4.8" (122 mm)	
Weight	110.2 lb (50 kg)	114.6 lb (52 kg)

Cylinder, linkage and pin included.



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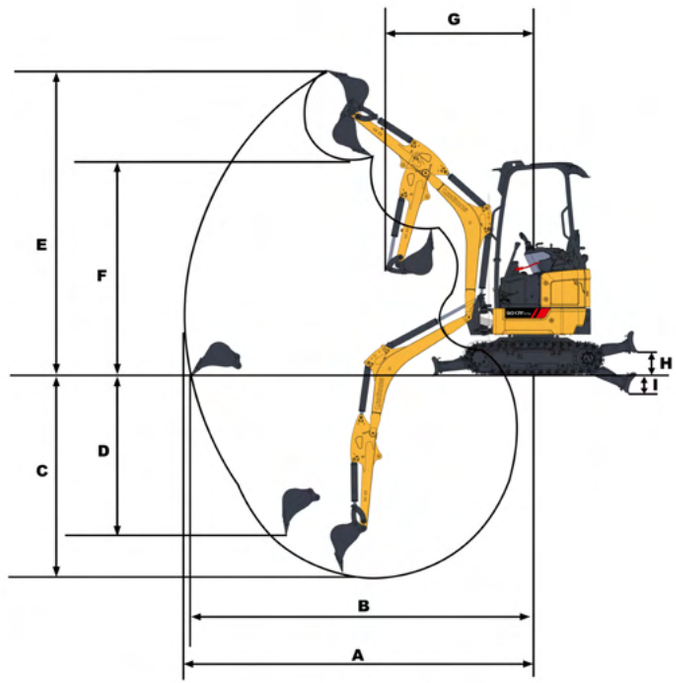
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SPECIFICATIONS

9017FZTS WEIGHTS AND GROUND PRESSURE

Operating weight, including 5'6" (1,685 mm) boom, 3'6" (1,070 mm) arm, 0.073 yd³ (0.056 m³) bucket, 319.7 lb (145 kg) counterweight

Shoe width	Shoe type	Operating weight	Ground pressure	Overall width
9" (230 mm)	Metal	4,078.6 lb (1,850 kg)	4.3 psi (29.6 kPa)	4'3" (1,290 mm)
	Rubber	3,858.1 lb (1,750 kg)	4.1 psi (28.1 kPa)	4'3" (1,290 mm)



WORKING RANGES

A	Max. Digging reach	12'10" (3,910 mm)	13'3" (4,040 mm)
B	Max. Digging reach on ground	12'7" (3,840 mm)	13'1" (3,980 mm)
C	Max. Digging depth	7'5" (2,255 mm)	7'10" (2,395 mm)
D	Max. Digging depth, 2.5 M (8') level	5'10" (1,780 mm)	6'3" (1,915 mm)
E	Max. Vertical wall digging depth	11'3" (3,420 mm)	11'6" (3,510 mm)
F	Max. Cutting height	7'10" (2,400 mm)	8'2" (2,495 mm)
G	Max. Dumping height	5'5" (1,660 mm)	
H	Dozer blade raised	9" (240 mm)	1' (315 mm) (Long dozer blade)
I	Dozer blade raised	9" (240 mm)	10.6" (270 mm) (Long dozer blade)
	Blade up	9" (240 mm)	
	Blade down	9" (240 mm)	
	Bucket digging force (iso)	3,597 lbf (16 kN)	
	Arm digging force (iso)	2,023 lbf (9 kN)	1,798 lbf (8 kN)
	Bucket capacity	0.02 - 0.105 yd³ (0.015 - 0.08 m³)	
	Bucket tip radius	1'10" (548 mm)	

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SPECIFICATIONS

9017FZTS BUCKET SELECTION GUIDE

Bucket Type	Capacity	Cutting Width	Weight	Teeth pcs	5'6" (1,685 mm) boom, 3'6" (1,070 mm) arm	5'6" (1,685 mm) boom, 3'12" (1,210 mm) arm
Trenching bucket	0.02 yd³ (0.015 m³)	9" (234 mm)	70.5 lb (32 kg)	2	B	B
General purpose bucket	0.029 yd³ (0.022 m³)	12" (300 mm)	81.6 lb (37 kg)	2	A	A
General purpose bucket	0.05 yd³ (0.038 m³)	1'6" (455 mm)	103.6 lb (47 kg)	3	A	A
General purpose bucket	0.073 yd³ (0.056 m³)	1'12" (600 mm)	127.9 lb (58 kg)	4	A	A
Ditching/grading bucket	0.105 yd³ (0.08 m³)	3'3" (1,000 mm)	163.1 lb (74 kg)	0	A	A

The recommendations are given as a guide only, based on typical operation conditions. Bucket capacity based on ISO 7451, heaped material with a 1: 1 angle of repose.
Maximum material density:
A. 1,200-1,300 kg/m³: Coal, Caliche, Shale
B. 1,400-1,600 kg/m³: Wet earth and clay, limestone, sandstone
C. 1,700-1,800 kg/m³: Granite, wet sand, well blasted rock
D. 1,900 kg/m³: Wet mud, Iron ore
NA. Not applicable

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SPECIFICATIONS

A: Load radius
B: Load point height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side

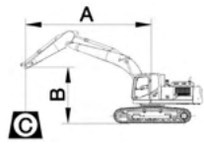


Rating over - front (Cf)



Rating over - side (Cs)

Conditions:
Boom length: 5'6"
Arm length: 3'6"
Bucket: None
Counterweight: 319.7 lb
Shoes: 9"
Unit: lb



1. 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.
2. 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.
3. Ratings at bucket lift hook.
4. Lifting capacities are based on machine standing on level, firm and uniform ground.
5. *Indicates the load is limited by hydraulic capacity rather than tipping capacity.
6. 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.

9017FZTS

A (Unit: ft) Blade: up

B (ft)		5 ft		7 ft		8 ft		10 ft		Max reach		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
8	lb					352	272			334	259	2.6
7	lb					669	514			503	386	3.0
5	lb			*794	*713	658	506	494	380	444	340	3.2
3	lb			892	673	638	486	486	371	415	313	3.3
2	lb			848	631	616	464	475	360	404	505	3.4
0	lb	1,278	1,095	819	605	598	448	466	351	413	311	3.3
-2	lb	1,276	914	808	596	589	439	461	347	442	331	3.1
-3	lb	1,287	923	810	598	589	442			508	382	2.8
-5	lb	1,311		826	611					682	510	2.3

9017FZTS

A (Unit: ft) Blade: down

B (ft)		5 ft		7 ft		8 ft		10 ft		Max reach		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
8	lb					352	272			*874	486	2.6
7	lb					669	514			*896	386	3.0
5	lb			*795	713	658	506	*905	380	*889	340	3.2
3	lb			*1,349	673	638	486	*960	370	*872	313	3.3
2	lb			*1,737	631	616	464	*1,000	360	*852	505	3.4
0	lb	*1,614	1,095	*1,795	605	598	448	*985	350	*838	311	3.3
-2	lb	*2,492	914	*1,660	596	589	439	*894	346	*825	331	3.1
-3	lb	*2,130	923	*1,430	598	589	442			*825	382	2.8
-5	lb	*1,655	945	*1,092	611					*856	510	2.3

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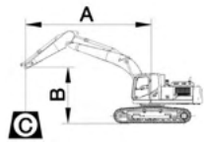


Rating over - front (Cf)



Rating over - side (Cs)

Conditions:
Boom length: 1,685 mm
Arm length: 1,070 mm
Bucket: None
Counterweight: 145 kg
Shoes: 230 mm
Unit: kg



1. 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.
2. 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.
3. Ratings at bucket lift hook.
4. Lifting capacities are based on machine standing on level, firm and uniform ground.
5. *Indicates the load is limited by hydraulic capacity rather than tipping capacity.
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9017FZTS

A (Unit: m) Blade: up

B (m)		1.5 m		2 m		2.5 m		3 m		Max reach		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
2.5	kg					352	272			334	259	2.6
2.0	kg					303	233			228	175	3.0
1.5	kg			*360	323	298	229	224	172	201	154	3.2
1.0	kg			404	305	289	220	220	168	188	142	3.3
0.5	kg			384	286	279	210	215	163	183	138	3.4
0	kg	579	496	371	274	271	203	211	159	187	141	3.3
-0.5	kg	578	414	366	270	267	199	209	157	200	150	3.1
-1.0	kg	583	418	367	271	267	200			230	173	2.8
-1.5	kg	594	428	374	277					309	231	2.3

9017FZTS

A (Unit: m) Blade: down

B (m)		1.5 m		2 m		2.5 m		3 m		Max reach		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
2.5	kg					*375	232			*396	220	2.6
2.0	kg					*350	233			*406	175	3.0
1.5	kg			*360	323	*409	229	*410	172	*403	154	3.2
1.0	kg			*611	305	*500	220	*435	168	*395	142	3.3
0.5	kg			*787	286	*569	210	*453	163	*386	138	3.4
0	kg	*731	496	*813	274	*583	203	*446	159	*380	141	3.3
-0.5	kg	*1,129	414	*752	270	*546	199	*405	157	*374	150	3.1
-1.0	kg	*965	418	*648	271	*467	200			*374	173	2.8
-1.5	kg	*750	428	*495	277					*388	231	2.3

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SPECIFICATIONS

9017FZTS STANDARD EQUIPMENT

POWER 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
	• Rotating beacon
	• Integrated shift lever with high speed and creep speed
	• Travel alarm (can be cancelled)

9017FZTS STANDARD EQUIPMENT

CHASSIS FRAME	• 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)
	• Maximum flow adjustment of large flow auxiliary line
	• Auxiliary 1&2 pressure-adjustable range: 10-25 MPa
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

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SPECIFICATIONS

9017FZTS STANDARD EQUIPMENT

DIGGING EQUIPMENT	• Standard boom 5'6" (1,685 mm)
	• Standard arm 3'6" (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

9017FZTS STANDARD EQUIPMENT

UNDERCARRIAGE	• Extendable track frame
	• Cover plate under travel frame
	• Rubber shoes 9" (230 mm)
	• Dozer blade
	• Foldable dozer blade
	• Long dozer blade
BUCKET	• Bucket 0.073 yd^3 (0.056 m^3)

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SPECIFICATIONS

9017FZTS OPTIONAL EQUIPMENT

ELECTRICAL SYSTEM	• GPS (T-BOX)
UNDERCARRIAGE	• Steel shoes 9" (230 mm)
	• Rubber track 9" (230 mm)
	• Long dozer blade (to reach the bucket)
BUCKET	• Bucket 0.020 yd³ (0.015 m³)
	• Bucket 0.029 yd³ (0.022 m³)
	• Bucket 0.05 yd³ (0.038 m³)
	• Bucket 0.105 yd³ (0.08 m³)

9017FZTS OPTIONAL EQUIPMENT

DIGGING EQUIPMENT	• Additional counterweight
	• Long arm 3'12" (1,210 mm)
HYDRAULIC SYSTEM	• Bucket cylinder rod protect
	• Bucket clamp system
	• Adjustable pressure (manually adjustable)
	• Maximum flow adjustment of large flow auxiliary line

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