MINIESCAVATORE

LIUGONG 9027FZTS

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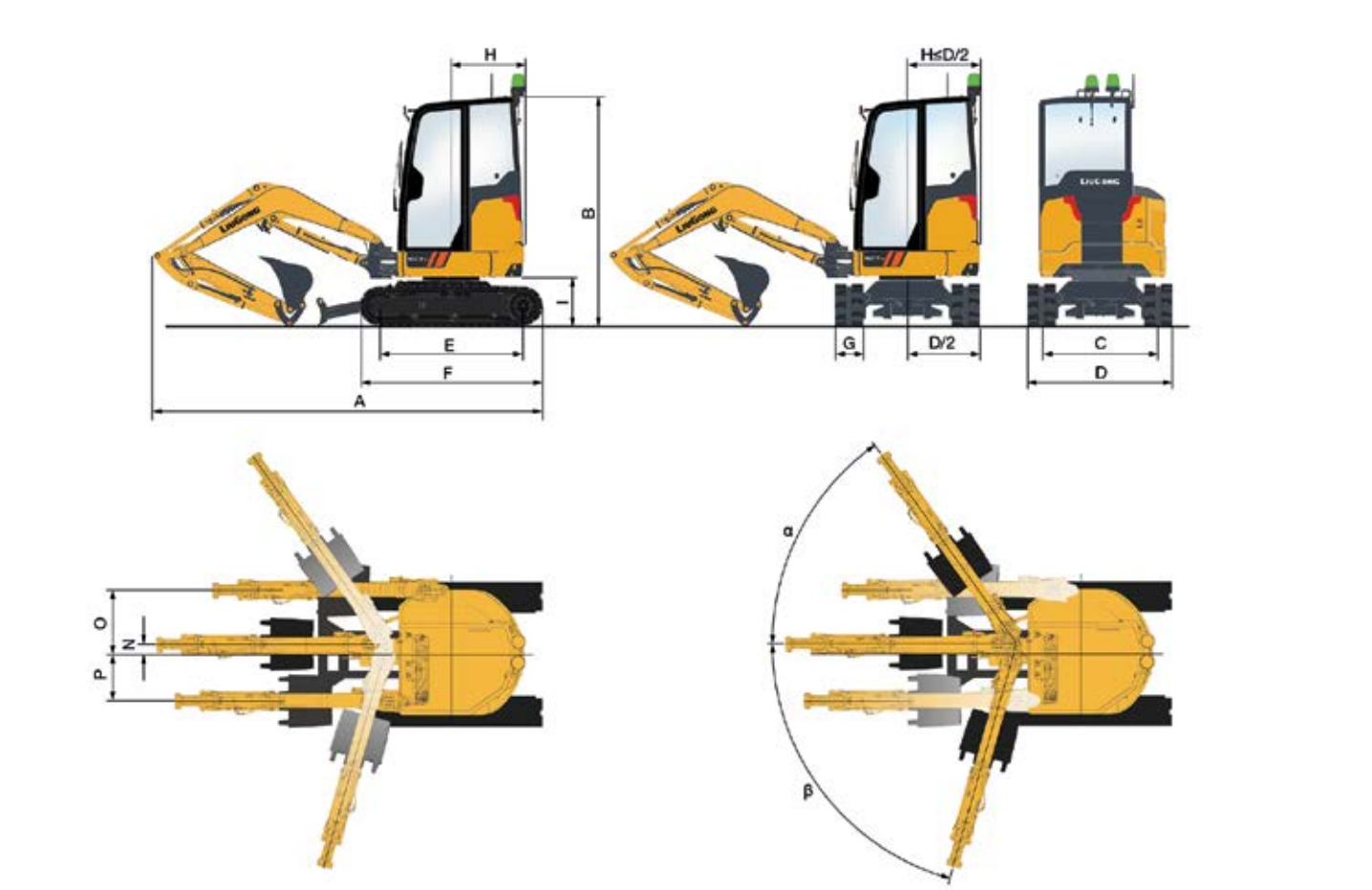

DIMENSIONS	
Boom	2,080 mm (6'10")
Arm	1,300 mm (4'3")
A Shipping Length	4,160 mm (13'8")
B Shipping Height	2,450 mm (8')
C Track Gauge	1,250 mm (2'6")
D Undercarriage Width	1,550 mm (3'3")
E Length to Center of Rollers	1,540 mm (5'1")
F Track Length	1,953 mm (6'5")
G Track Shoe Width	300 mm (1')
H Tail Swing Radius	775 mm (2'7")
I Counterweight Ground Clearance	530 mm (1'9")
Overall Height of Cab	2,450 mm (5'4")
Min. Ground Clearance	295 mm (1')
Overall Width of Upper Structure	1,350 mm (4'5")
N Offset	110 mm (4")
O Maximum Boom Offset to the Right	694 mm (2'3")
P Maximum Boom Offset to the Left	498 mm (1'8")
α Maximum Boom Swing Angle to the Right	54.5°
β Maximum Boom Swing Angle to the Left	74°

ARM DIMENSIONS	
Description	
Arm	1,300 mm (4'3")
Length	1,603 mm (5'3")
Height	423 mm (1'5")
Width	202 mm (8")
Weight	99.4 kg (219 lb)

Includes cylinder, linkage and pin.

BOOM DIMENSIONS	
Description	
Boom	2,080 mm (6'10")
Length	2,160 mm (7'1")
Height	730 mm (2'5'')
Width	262 mm (10")
Weight	137.8 kg (304 lb)

Includes cylinder, piping and pin, excludes boom cylinder pin.

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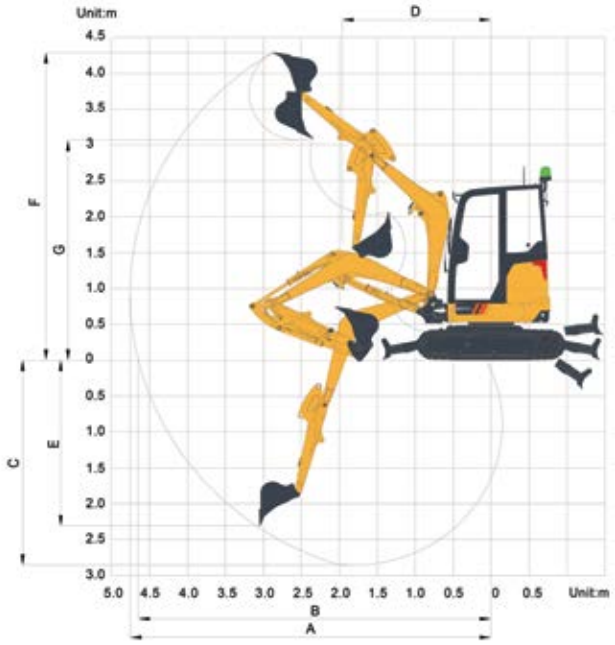


WORKING RANGE	
Boom Length	2,080 mm (6'10")
Arm Length	1,300 mm (4'3")
A. Max. Digging Reach	4,757 mm (15'7'')
B. Max. Digging Reach on Ground	4,648 mm (15'2'')
C. Max. Digging Depth	2,857 mm (9'4'')
D. Min. Front Swing Radius	1,965 mm (6'5'')
E. Max. Vertical Wall Digging Depth	2,312 mm (7'7'')
F. Max. Cutting Height	4,365 mm (14'3'')
G. Max. Dumping Height	3,067 mm (10')
Max. Digging Depth, 2.44 m (8') level	2,386 mm (7'10'')
Blade up	350 mm (1'2")
Blade down	400 mm (1'4")
Bucket Digging Force (ISO)	20 kN (4,496 lbf)
Arm Digging Force (ISO)	12 kN (2,698 lbf)
Bucket Capacity	0.08 m³ (0.1 yd^3)
Bucket Tip Radius	662 mm (2'2'')

MACHINE WEIGHTS & GROUND PRESSURE

Shoe width	Shoe type	Operating weight	Ground pressure	Overall width
		2,080 mm (6'10"), 1,300 mm (4'3") arm, 0.08 m^3 (0.1 yd^3) bucket, 315 kg (694 lb) counterweight		
300 mm (1')	Rubber	2,750 kg (6,063 lb)	26.4 kPa (3.8 psi)	1,550 mm (5'1")
	Metal	2,860 kg (6,305 lb)	27.5 kPa (4.0 psi)	1,550 mm (5'1")

BUCKET SELECTION GUIDE

Bucket Type	Capacity	Cutting Width	Weight	Teeth pcs	2,080 mm (6'10'') Boom 1,300 mm (4'3'') Arm
General Purpose	0.08 m^3 (0.1 yd^3)	567 mm (1'10'')	61 kg (134 lbs)	4	A/B
	0.09 m^3 (0.12 yd^3)	1,000 mm (3'3'')	65 kg (143 lbs)	0	A
	0.05 m^3 (0.07 yd^3)	400 mm (1'4'')	45 kg (99 lbs)	3	B
	0.02 m^3 (0.03 yd^3)	234 mm (9'')	39 kg (86 lbs)	2	B

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/m^3 (2,023-2,191 lb/yd^3) : Coal, Caliche, Shale
B. 1,400-1,600 kg/m^3 (2,360-2,697 lb/yd^3) : Wet earth and clay, limestone, sandstone
C. 1,700-1,800 kg/m^3 (2,865-3,034 lb/yd^3) : Granite, wet sand, well blasted rock
D. 1,900 kg/m^3 (3,203 lb/yd^3) : Wet mud, Iron ore
NA. Not applicable

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)

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.

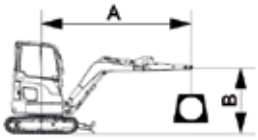
LIFTING CAPACITY (METRIC)

9027F ZTS with 300 mm Shoes, 2,080 mm Boom, 1,300 mm Arm

A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side

Conditions

Boom length: 2,080 mm
Arm length: 1,300 mm
Shoes: 300 mm
Bucket: None
Unit: kg



A (Blade Up)

B (m)		2.0 m		2.5 m		3.0 m		3.5 m		MAX REACH		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
2.0 m	kg					*460	*470	456	362	430	350	3.9
1.0 m	kg	1,026	777	724	562	553	433	442	348	351	277	4.1
Ground Level	kg	1,020	860	690	529	570	480	460	390	380	320	4.0
-1.0 m	kg	977	732	685	525	526	408			433	339	3.5

A (Blade Down)

B (m)		2.0 m		2.5 m		3.0 m		3.5 m		MAX REACH		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
2.0 m	kg					*460	*470	*569	*362	*480	350	3.9
1.0 m	kg	*1,382	777	*951	562	*761	433	*657	348	*584	277	4.1
Ground Level	kg	*1,270	900	*1,150	529	*690	480	*520	400	*520	320	4.0
-1.0 m	kg	*1,436	732	*1,061	525	*817	408			*619	339	3.5

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)

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.

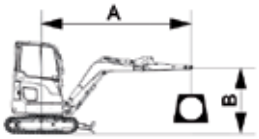
LIFTING CAPACITY (IMPERIAL)

9027F ZTS with 1' Shoes, 6'10" Boom, 4'3'' Arm

A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side

Conditions

Boom length: 6'10"
Arm length: 4'3''
Shoes: 1'
Bucket: None
Unit: lbs



A (Blade Up)

B (ft)		6.6 ft		8.2 ft		9.8 ft		11.5 ft		MAX REACH		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
6.6	lbs	-	-	-	-	*1,012	*1,034	1,003	796	946	770	12.8
3.3	lbs	2,257	1,709	1,593	1,236	1,217	953	972	766	772	609	13.4
Ground Level	lbs	2,244	1,892	1,518	1,164	1,254	1056	1,012	858	836	704	13.0
-3.3	lbs	2,149	1,610	1,507	1,155	1,157	898	-	-	953	746	11.4

A (Blade Down)

B (ft)		6.6 ft		8.2 ft		9.8 ft		11.5 ft		MAX REACH		
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
6.6	lbs	-	-	-	-	*1,012	*1,034	*1,252	*796	*1,056	770	12.8
3.3	lbs	*3,040	1,709	*2,092	1,236	*1,674	953	*1,445	766	*1,285	609	13.4
Ground Level	lbs	*2,794	1,980	*2,530	1,164	*1,518	1,056	*1,144	880	*1,144	704	13.0
-3.3	lbs	*3,159	1,610	*2,334	1,155	*1,797	898	-	-	*1,362	746	11.4