

LIUGONG

952F EXCAVATOR

ALL NEW
F-SERIES

Engine
Net Power
Operating Weight
Bucket Capacity

Cummins X12
282 kW (378 hp)
51,000 kg (112,455 lbs)
2.6-3.2 m³ (3.4-4.2 yd³)



TOUGH WORLD. TOUGH EQUIPMENT.

SPECIFICATIONS



OPERATING WEIGHT

51,000 kg (112,455 lbs)

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

Bucket Capacity 2.6-3.2 m³ (3.4-4.2 yd³)

ENGINE

Description

Cummins EU Stage V, 6-cylinder straight Variable-Geometry Turbocharger (VGT), high pressure common rail, electronically controlled direct injection. Air cleaner: Cummins direct flow air filter. Cooling system: Charge air cooler.

Emission rating EU Stage V

Engine manufacturer Cummins

Engine model X12

Aspiration Variable-Geometry Turbocharger (VGT)

Charged air cooling Aftercooler

Cooling fan drive Viscous clutch

Displacement 11.8 L (3.12 gal)

Rated speed 2,100 rpm

Engine output - net (SAE J1349 / ISO 9249) 282 kW (378 hp)

Engine output - rated (SAE J1995 / ISO 14396) 298 kW (400 hp)

Maximum torque 2,034 N·m (1,500 lbf·ft) @ 1,400 rpm

Bore × Stroke 132 × 144 mm (5.2" × 5.7")

DRIVE AND BRAKES

Description

2-speed axial piston motors with oil disk brakes. Steering controlled by two hand levers with pedals.

Max. travel speed High: 5.4 km/h (3.4 mph)
Low: 3.2 km/h (2.0 mph)

Gradeability 35%/70%

Max. drawbar pull 386 kN (86,772 lbf)

HYDRAULIC SYSTEM

Main pump

Type Two variable displacement piston pumps

Maximum flow 2 × 380 L/min (2 × 100 gal/min)

Pilot pump

Type Gear pump

Maximum flow 15 L/min (4 gal/min)

Relief valve setting

Implement 34.3 / 37.2 MPa (4,975 / 5,394 psi)

Travel circuit 34.3 MPa (4,975 psi)

Slew circuit 32.4 MPa (4,699 psi)

Pilot circuit 3.9 MPa (566 psi)

Hydraulic cylinders

Boom Cylinder – Bore × Stroke Φ165 × 1,560 mm (Φ6.5" × 5.1")

Arm Cylinder – Bore × Stroke Φ190 × 1,980 mm (Φ7.5" × 6.6")

Bucket Cylinder – Bore × Stroke Φ170 × 1,260 mm (Φ6.7" × 4.1")

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 8.5 rpm

Swing torque 191,900 N·m (141,526 lbf·ft)

ELECTRIC SYSTEM

System Voltage 24 V

Batteries 2 × 12 V

Alternator 24 V - 70 A

Start motor 24 V - 7.5 kW

UNDERCARRIAGE

Track shoe each side 50

Link pitch 228 mm (9")

Shoe width, triple grouser 600 / 700 / 800 / 900 mm (24" / 28" / 32" / 35")

Bottom rollers each side 9

Top rollers each side 2

SERVICE CAPACITIES

Fuel tank 700 L (185 gal)

Engine oil 34 L (9 gal)

Final drive (each) 15 L (4 gal)

Swing drive 5.3 × 2 L (1.4 × 2 gal)

Cooling system 50 L (13.2 gal)

Hydraulic reservoir 230 L (60.8 gal)

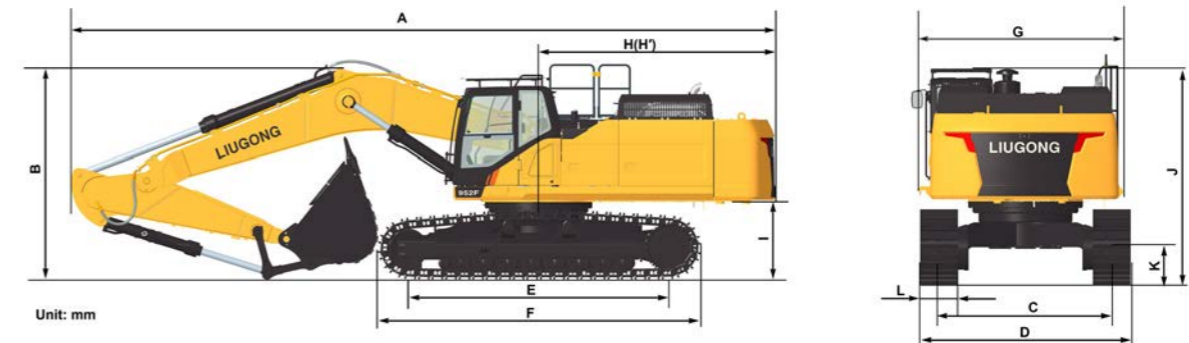
Hydraulic system total 420 L (111 gal)

DEF tank 65 L (17.2 gal)

SOUND PERFORMANCE

Interior Sound Power Level (ISO 6396) 72 dB(A)

Exterior Sound Power Level (ISO 6395) 107 dB(A)



DIMENSIONS

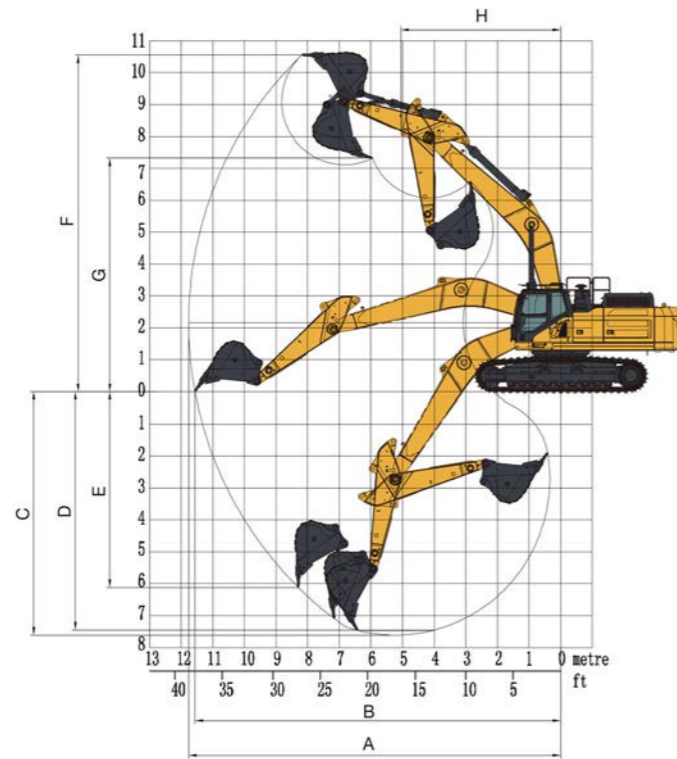
Boom	7,060 mm (23'2")	6,500 mm (21'4")
Arm Options	2,900 mm (9'6")	2,550 mm (8'4")
A Shipping Length	12,500 mm (41'0")	11,960 mm (39'3")
B Shipping Height – Top of Boom	3,970 mm (13'0") (bucket)	3,735 mm (12'3") (bucket)
C Track Gauge		2,740 mm (8'12")
D Undercarriage Width– 600 mm (24") shoes		3,340 mm (10'11")
700 mm (28") shoes		3,440 mm (11'3")
800 mm (32") shoes		3,540 mm (11'7")
900 mm (35") shoes		3,640 mm (11'11")
E Length to Center of Rollers		4,430 mm (14'6")
F Track Length		5,470 mm (17'11")
G Overall Width of Upper Structure	3,110 mm (10'2") (including protective side beam)	
H Tail Swing Radius		4,015 mm (13'2")
I Counterweight Ground Clearance		1,325 mm (4'4")
J Overall Height of Cab	3,415 mm (11'2") (with protective equipment)	
K Min. Ground Clearance		590 mm (1'8")
L Track Shoe Width		600 mm (2'0")



BOOM DIMENSIONS	STANDARD	SHORT BOOM	ARM DIMENSIONS	STANDARD	SHORT ARM
Boom	7,060 mm (23'2")	6,500 mm (21'4")	Arm	2,900 mm (9'6")	2,550 mm (8'4")
Length	7,300 mm (23'11")	6,800 mm (22'4")	Length	4,376 mm (14'4")	3,873 mm (12'9")
Height	1,900 mm (6'3")	2,000 mm (6'7")	Height	1,055 mm (3'6")	1,155 mm (3'9")
Width	1063 mm (3'6") (with boom hinge pin1, 110 mm (4"))		Width	600 mm (24") (with hinge pin)	
Weight	4,370 kg (9,634 lbs)	4,150 kg (9,149 lbs)	Weight	1,880 kg (4,145 lbs)	1,730 kg (3,814 lbs)

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

Cylinder, linkage and pin included.



WORKING RANGE			
Boom Length		7,060 mm (23'2")	6,500 mm (21'4")
Arm Length		2,900 mm (9'6")	2,550 mm (8'4")
A. Max. Digging Reach		11,660 mm (38'3")	10,860 mm (35'8")
B. Max. Digging Reach on Ground		11,450 mm (37'7")	10,620 mm (34'10")
C. Max. Digging Depth		7,510 mm (24'8")	6,760 mm (22'2")
D. Max. Digging Depth, 2.44 m (8') Level		7,340 mm (24'1")	6,585 mm (21'7")
E. Max. Vertical Wall Digging Depth		6,060 mm (19'11")	5,080 mm (16'8")
F. Max. Cutting Height		10,500 mm (34'5")	9,965 mm (32'8")
G. Max. Dumping Height		7,400 mm (24'3")	6,915 mm (22'8")
H. Min. Front Swing Radius		5,050 mm (16'7")	4,775 mm (15'8")
Bucket Digging Force (ISO)	Normal	295 kN (66,319 lbf)	280 kN (62,946 lbf)
	Power Boost	315 kN (70,815 lbf)	300 kN (67,443 lbf)
Stick Digging Force (ISO)	Normal	255 kN (57,326 lbf)	265 kN (59,574 lbf)
	Power Boost	270 kN (60,698 lbf)	280 kN (62,947 lbf)
Bucket Capacity		2.6 m ³ (3.4 yd ³)	3.2 m ³ (4.2 yd ³)
Bucket Tip Radius		1,883 mm (6'2")	1,985 mm (6'6")

MACHINE WEIGHTS AND GROUND PRESSURE						
	Operating weight	Ground pressure	Overall width	Operating weight	Ground pressure	Overall width
Shoe width	7.06 m (23'2") boom, 2.9 m (9'6") arm, 2.6 m ³ (3.4 yd ³) bucket, 10,800 kg (16,975 lbs) counterweight (other systems are standard configuration)			6.5 m (21'4") boom, 2.55 m (8'4") arm, 3.2 m ³ (4.2 yd ³) bucket, 10,800 kg (16,975 lbs) counterweight (other systems are standard configuration)		
600 mm (24")	51,000 kg (112,436 lbs)	85.9 kPa (12.5 psi)	3,340 mm (11'0")	50,800 kg (111,995 lbs)	85.6 kPa (12.4 psi)	3,340 mm (11'0")
700 mm (28")	51,600 kg (113,759 lbs)	86.9 kPa (12.6 psi)	3,440 mm (11'3")	51,400 kg (113,318 lbs)	86.6 kPa (12.6 psi)	3,440 mm (11'3")
800 mm (32")	52,200 kg (115,081 lbs)	87.9 kPa (12.7 psi)	3,540 mm (11'7")	52,000 kg (114,640 lbs)	87.6 kPa (12.7 psi)	3,540 mm (11'7")
900 mm (35")	52,800 kg (116,404 lbs)	88.9 kPa (12.9 psi)	3,640 mm (11'11")	52,600 kg (115,963 lbs)	88.6 kPa (12.8 psi)	3,640 mm (11'11")

BUCKET SELECTION GUIDE						
Bucket type	Capacity	Cutting width	Weight	Teeth pcs	7.06 m (23'2") Boom	6.5 m (21'4") Boom
					2.9 m (9'6") Arm	2.55 m (8'4") Arm
HD Digging Bucket	2.6 m ³ (3.4 yd ³)	1,710 mm (5'7")	2,600 kg (5,732 lbs)	5	D	NA
General Purpose	2.8 m ³ (3.7 yd ³)	1,865 mm (6'1")	2,650 kg (5,842 lbs)	5	AB	BC
Heavy Duty	3.2 m ³ (4.2 yd ³)	2,080 mm (5')	2,910 kg (6,415 lbs)	5	NA	AB

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 (2,023-2,191 lb/yd³): Coal, Caliche, Shale
 B. 1,400-1,600 kg/m³ (2,360-2,697 lb/yd³): Wet earth and clay, limestone, sandstone
 C. 1,700-1,800 kg/m³ (2,865-3,034 lb/yd³): Granite, wet sand, well blasted rock
 D. 1,900 kg/m³ (3,203 lb/yd³): 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)

- 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.

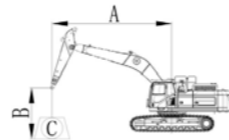
LIFTING CAPACITY

952F with 600 mm Shoes, 6,500 mm Boom, 2,550 mm Arm

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

Conditions:

Boom length: 6,500 mm
Arm length: 2,550 mm
Bucket: None
counterweight: 10,800 kg
Shoes: 600 mm triple grouser
Unit: kg



B (m)	A (Unit: m)										MAX REACH	A (m)			
	3		4.5		6		7.5								
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs					
7.5	kg										*14,078	12,909	7		
6.0	kg				*15,437		*15,437		*13,821		11,486	*13,535	10,351	8.0	
4.5	kg		*22,145		*22,145		*16,990		15,461		*14,403	11,198	*13,366	9,285	8.5
3.0	kg		*25,726		21,751		*18,641		14,683		*15,154	10,827	*13,291	8,654	8.8
1.5	kg		*22,508		20,877		*19,670		14,097		*15,664	10,507	*13,316	8,509	8.8
GROUND LEVEL	kg		*25,644		20,726		*19,658		13,807		*15,579	10,322	*13,414	8,819	8.5
-1.5	kg		*22,392	*22,392	*23,383	20,868	*18,460	13,785	*14,486	10,322	*13,152	9,552	8.0		
-3.0	kg		*22,693	*22,693	*19,667	*19,667	*15,699	14,019			*12,521	11,315	7.1		
-4.5	kg		*13,323		*13,323						*10,304	*10,304	5.7		

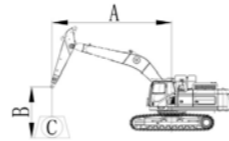
LIFTING CAPACITY

952F with 24" Shoes, 21'4" Boom, 8'4" Arm

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

Conditions:

Boom length: 21'4"
Arm length: 8'4"
Bucket: None
counterweight: 23,810 lbs
Shoes: 24" triple grouser
Unit: lbs



B (ft)	A (Unit: ft)										MAX REACH	A (ft)			
	10		15		20		25								
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs					
25	lbs										*31,037	28,459	23		
20	lbs				*34,032		*34,032		*30,470		25,323	*29,840	22,821	26.0	
15	lbs		*48,820		*48,820		*37,457		34,087		*31,754	24,688	*29,467	20,470	28.0
10	lbs		*56,716		47,954		*41,096		32,371		*33,408	23,870	*29,302	19,078	29.0
5	lbs		*49,623		46,027		*43,366		31,078		*34,532	23,164	*29,357	18,759	29.0
GROUND LEVEL	lbs		*56,534		45,694		*43,339		30,438		*34,347	22,755	*29,573	19,442	28.0
-5	lbs		*49,366	*49,366	*51,551	46,005	*40,698	30,391	*31,937	22,756	*28,996	21,059	26.0		
-10	lbs		*50,030	*50,030	*43,359	*43,359	*34,610	30,907			*27,604	24,945	23.0		
-15	lbs		*29,373		*29,373						*22,716	*22,716	19.0		

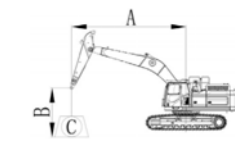
LIFTING CAPACITY

952F with 700 mm Shoes, 6,500 mm Boom, 2,550 mm Arm

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

Conditions:

Boom length: 6,500 mm
Arm length: 2,550 mm
Bucket: None
counterweight: 10,800 kg
Shoes: 700 mm triple grouser
Unit: kg



B (m)	A (Unit: m)										MAX REACH	A (m)			
	3		4.5		6		7.5								
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs					
7.5	kg										*14,078	13,122	7		
6.0	kg				*15,437		*15,437		*13,821		11,682	*13,535	10,532	8.0	
4.5	kg		*22,145		*22,145		*16,990		15,722		*14,403	11,394	*13,366	9,452	8.5
3.0	kg		*25,726		22,140		*18,641		14,944		*15,154	11,023	*13,291	8,814	8.8
1.5	kg		*22,508		21,266		*19,670		14,357		*15,664	10,702	*13,316	8,670	8.8
GROUND LEVEL	kg		*25,644		21,115		*19,658		14,067		*15,579	10,517	*13,414	8,986	8.5
-1.5	kg		*22,392	*22,392	*23,383	21,257	*18,460	14,045	*14,486	10,517	*13,152	9,733	8.0		
-3.0	kg		*22,693	*22,693	*19,667	*19,667	*15,699	14,279			*12,521	11,524	7.1		
-4.5	kg		*13,323		*13,323						*10,304	*10,304	5.7		

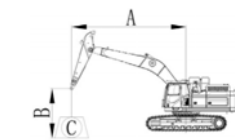
LIFTING CAPACITY

952F with 28" Shoes, 21'4" Boom, 8'4" Arm

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

Conditions:

Boom length: 21'4"
Arm length: 8'4"
Bucket: None
counterweight: 23,810 lbs
Shoes: 28" triple grouser
Unit: lbs



B (ft)	A (Unit: ft)										MAX REACH	A (ft)			
	10		15		20		25								
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs					
25	lbs										*31,037	28,929	23		
20	lbs				*34,032		*34,032		*30,470		25,754	*29,840	23,219	26.0	
15	lbs		*48,820		*48,820		*37,457		34,660		*31,754	25,119	*29,467	20,839	28.0
10	lbs		*56,716		48,811		*41,096		32,945		*33,408	24,301	*29,302	19,432	29.0
5	lbs		*49,623		46,884		*43,366		31,651		*34,532	23,595	*29,357	19,113	29.0
GROUND LEVEL	lbs		*56,534		46,551		*43,339		31,012		*34,347	23,186	*29,573	19,811	28.0
-5	lbs		*49,366	*49,366	*51,551	46,863	*40,698	30,965	*31,937	23,186	*28,996	21,457	26.0		
-10	lbs		*50,030	*50,030	*43,359	*43,359	*34,610	31,480			*27,604	25,407	23.0		
-15	lbs		*29,373		*29,373						*22,716	*22,716	19.0		

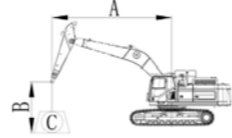


LIFTING CAPACITY

952F with 800 mm Shoes, 6,500 mm Boom, 2,550 mm Arm

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

Conditions:
Boom length: 6,500 mm
Arm length: 2,550 mm
Bucket: None
counterweight: 10,800 kg
Shoes: 800 mm triple grouser
Unit: kg



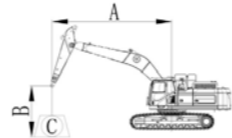
		A (Unit: m)										
		3		4.5		6		7.5		MAX REACH		
B (m)		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
7.5	kg									*14,078	13,335	7
6.0	kg					*15,437	*15,437	*13,821	11,877	*13,535	10,712	8.0
4.5	kg			*22,145	*22,145	*16,990	15,982	*14,403	11,589	*13,366	9,620	8.5
3.0	kg			*25,726	22,529	*18,641	15,204	*15,154	11,218	*13,291	8,975	8.8
1.5	kg			*22,508	21,655	*19,670	14,617	*15,664	10,898	*13,316	8,830	8.8
GROUND LEVEL	kg			*25,644	21,504	*19,658	14,327	*15,579	10,713	*13,414	9,154	8.5
-1.5	kg	*22,392	*22,392	*23,383	21,646	*18,460	14,305	*14,486	10,713	*13,152	9,913	8.0
-3.0	kg	*22,693	*22,693	*19,667	*19,667	*15,699	14,539			*12,521	11,734	7.1
-4.5	kg			*13,323	*13,323					*10,304	*10,304	5.7

LIFTING CAPACITY

952F with 32" Shoes, 21'4" Boom, 8'4" Arm

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

Conditions:
Boom length: 21'4"
Arm length: 8'4"
Bucket: None
counterweight: 23,810 lbs
Shoes: 32" triple grouser
Unit: lbs



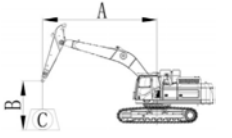
		A (Unit: ft)										
		10		15		20		25		MAX REACH		
B (ft)		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
25	lbs									*31,037	29,399	23
20	lbs					*34,032	*34,032	*30,470	26,185	*29,840	23,617	26.0
15	lbs			*48,820	*48,820	*37,457	35,234	*31,754	25,549	*29,467	21,209	28.0
10	lbs			*56,716	49,669	*41,096	33,519	*33,408	24,732	*29,302	19,787	29.0
5	lbs			*49,623	47,742	*43,366	32,225	*34,532	24,026	*29,357	19,468	29.0
GROUND LEVEL	lbs			*56,534	47,409	*43,339	31,586	*34,347	23,617	*29,573	20,181	28.0
-5	lbs	*49,366	*49,366	*51,551	47,720	*40,698	31,538	*31,937	23,617	*28,996	21,855	26.0
-10	lbs	*50,030	*50,030	*43,359	*43,359	*34,610	32,054			*27,604	25,868	23.0
-15	lbs			*29,373	*29,373					*22,716	*22,716	19.0

LIFTING CAPACITY

952F with 900 mm Shoes, 6,500 mm Boom, 2,550 mm Arm

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

Conditions:
Boom length: 6,500 mm
Arm length: 2,550 mm
Bucket: None
counterweight: 10,800 kg
Shoes: 900 mm triple grouser
Unit: kg



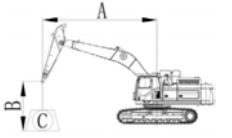
		A (Unit: m)										
		3		4.5		6		7.5		MAX REACH		
B (m)		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
7.5	kg									*14,078	13,548	7
6.0	kg					*15,437	*15,437	*13,821	12,073	*13,535	10,893	8.0
4.5	kg			*22,145	*22,145	*16,990	16,242	*14,403	11,784	*13,366	9,788	8.5
3.0	kg			*25,726	22,918	*18,641	15,464	*15,154	11,414	*13,291	9,136	8.8
1.5	kg			*22,508	22,044	*19,670	14,877	*15,664	11,093	*13,316	8,991	8.8
GROUND LEVEL	kg			*25,644	21,893	*19,658	14,587	*15,579	10,908	*13,414	9,321	8.5
-1.5	kg	*22,392	*22,392	*23,383	22,035	*18,460	14,566	*14,486	10,908	*13,152	10,094	8.0
-3.0	kg	*22,693	*22,693	*19,667	*19,667	*15,699	14,800			*12,521	11,943	7.1
-4.5	kg			*13,323	*13,323					*10,304	*10,304	5.7

LIFTING CAPACITY

952F with 35" Shoes, 21'4" Boom, 8'4" Arm

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

Conditions:
Boom length: 21'4"
Arm length: 8'4"
Bucket: None
counterweight: 23,810 lbs
Shoes: 35" triple grouser
Unit: lbs



		A (Unit: ft)										
		10		15		20		25		MAX REACH		
B (ft)		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)
25	lbs									*31,037	29,869	23
20	lbs					*34,032	*34,032	*30,470	26,616	*29,840	24,015	26.0
15	lbs			*48,820	*48,820	*37,457	35,807	*31,754	25,980	*29,467	21,578	28.0
10	lbs			*56,716	50,526	*41,096	34,092	*33,408	25,163	*29,302	20,141	29.0
5	lbs			*49,623	48,599	*43,366	32,798	*34,532	24,457	*29,357	19,822	29.0
GROUND LEVEL	lbs			*56,534	48,266	*43,339	32,159	*34,347	24,048	*29,573	20,550	28.0
-5	lbs	*49,366	*49,366	*51,551	48,578	*40,698	32,112	*31,937	24,048	*28,996	22,253	26.0
-10	lbs	*50,030	*50,030	*43,359	*43,359	*34,610	32,628			*27,604	26,330	23.0
-15	lbs			*29,373	*29,373					*22,716	*22,716	19.0

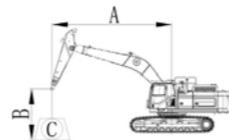


LIFTING CAPACITY

952F with 600 mm Shoes, 7,060 mm Boom, 2,900 mm Arm

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

Conditions:
Boom length: 7,060 mm
Arm length: 2,900 mm
Bucket: None
counterweight: 10,800 kg
Shoes: 600 mm triple grouser
Unit: kg



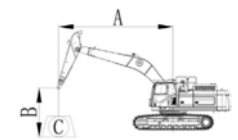
		A (Unit: m)													
		3		4.5		6		7.5		9		MAX REACH			
B (m)		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)	
9.0	kg											*12,829	*12,829	6.9	
7.5	kg							*12,312	11,824			*12,143	10,415	8.1	
6.0	kg							*12,751	11,600			*11,869	8,881	8.9	
4.5	kg			*21,759	*21,759	*16,295	15,383	*13,607	11,202	*12,066	8,585	*11,789	8,028	9.4	
3.0	kg					*18,105	14,522	*14,543	10,761	*12,465	8,373	*11,760	7,520	9.7	
1.5	kg					*19,255	13,894	*15,235	10,389	*12,750	8,176	11,719	7,399	9.7	
GROUND LEVEL	kg					*19,428	13,583	*15,424	10,158	*12,671	8,055	*12,002	7,630	9.4	
-1.5	kg			*23,490	20,534	*18,628	13,527	*14,898	10,091			*11,818	8,068	9	
-3.0	kg	*24,072	*24,072	*20,710	*20,710	*16,762	13,679	*13,296	10,211			*11,582	9,182	8.2	
-4.5	kg	*18,555	*18,555	*16,337	*16,337	*13,238	*13,238					*10,685	*10,685	7	

LIFTING CAPACITY

952F with 700 mm Shoes, 7,060 mm Boom, 2,900 mm Arm

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

Conditions:
Boom length: 7,060 mm
Arm length: 2,900 mm
Bucket: None
counterweight: 10,800 kg
Shoes: 700 mm triple grouser
Unit: kg



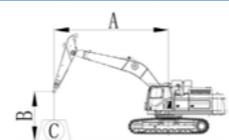
		A (Unit: m)														
		3		4.5		6		7.5		9		MAX REACH				
B (m)		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)		
9.0	kg													*12,829	*12,829	6.9
7.5	kg									*12,312	12,020			*12,143	10,592	8.1
6.0	kg									*12,751	11,796			*11,869	9,039	8.9
4.5	kg			*21,759	*21,759	*16,295	15,643	*13,607	11,398	*12,066	8,741	*11,789	8,177	9.4		
3.0	kg					*18,105	14,782	*14,543	10,956	*12,465	8,530	*11,760	7,664	9.7		
1.5	kg					*19,255	14,154	*15,235	10,585	*12,750	8,333	*11,823	7,542	9.7		
GROUND LEVEL	kg					*19,428	13,843	*15,424	10,353	*12,671	8,212	*12,002	7,779	9.4		
-1.5	kg			*23,490	20,923	*18,628	13,787	*14,898	10,286			*11,818	8,225	9		
-3.0	kg	*24,072	*24,072	*20,710	*20,710	*16,762	13,939	*13,296	10,406			*11,582	9,357	8.2		
-4.5	kg	*18,555	*18,555	*16,337	*16,337	*13,238	*13,238					*10,685	*10,685	7		

LIFTING CAPACITY

952F with 24" Shoes, 23'2" Boom, 9'6" Arm

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

Conditions:
Boom length: 23'2"
Arm length: 9'6"
Bucket: None
counterweight: 23,810 lbs
Shoes: 24" triple grouser
Unit: lbs



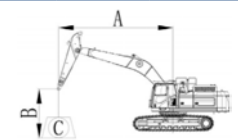
		A (Unit: ft)													
		10.0		15		20		25		30		MAX REACH			
B (ft)		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)	
30	lbs											*28,284	*28,284	23	
25	lbs							*27,144	26,068			*26,770	22,961	27	
20	lbs							*28,112	25,574			*26,167	19,578	29	
15	lbs			*47,970	*47,970	*35,924	33,913	*29,998	24,697	*26,601	18,926	*25,989	17,699	31	
10	lbs					*39,914	32,015	*32,061	23,724	*27,480	18,459	*25,927	16,580	32	
5	lbs					*42,450	30,631	*33,588	22,904	*28,108	18,026	25,837	16,311	32	
GROUND LEVEL	lbs					*42,830	29,945	*34,003	22,394	*27,935	17,759	*26,460	16,822	31	
-5	lbs			*51,787	45,270	*41,067	29,823	*32,843	22,246			*26,053	17,788	30	
-10	lbs	*53,069	*53,069	*45,658	*45,658	*36,955	30,156	*29,312	22,511			*25,535	20,242	27	
-15	lbs	*40,906	*40,906	*36,017	*36,017	*29,186	*29,186					*23,555	*23,555	23	

LIFTING CAPACITY

952F with 28" Shoes, 23'2" Boom, 9'6" Arm

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

Conditions:
Boom length: 23'2"
Arm length: 9'6"
Bucket: None
counterweight: 23,810 kg
Shoes: 28" triple grouser
Unit: lbs



		A (Unit: ft)														
		10.0		15		20		25		30		MAX REACH				
B (ft)		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)		
30	lbs													*28,284	*28,284	23
25	lbs									*27,144	26,499			*26,770	23,352	27
20	lbs									*28,112	26,005			*26,167	19,928	29
15	lbs			*47,970	*47,970	*35,924	34,487	*29,998	25,128	*26,601	19,271	*25,989	18,027	31		
10	lbs					*39,914	32,589	*32,061	24,155	*27,480	18,804	*25,927	16,895	32		
5	lbs					*42,450	31,205	*33,588	23,335	*28,108	18,371	*26,066	16,627	32		
GROUND LEVEL	lbs					*42,830	30,519	*34,003	22,825	*27,935	18,104	*26,460	17,149	31		
-5	lbs			*51,787	46,127	*41,067	30,396	*32,843	22,677			*26,053	18,133	30		
-10	lbs	*53,069	*53,069	*45,658	*45,658	*36,955	30,730	*29,312	22,942			*25,535	20,628	27		
-15	lbs	*40,906	*40,906	*36,017	*36,017	*29,186	*29,186					*23,555	*23,555	23		

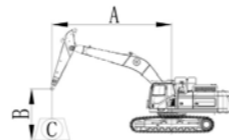


LIFTING CAPACITY

952F with 800 mm Shoes, 7,060 mm Boom, 2,900 mm Arm

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

Conditions:
Boom length: 7,060 mm
Arm length: 2,900 mm
Bucket: None
counterweight: 10,800 kg
Shoes: 800 mm triple grouser
Unit: kg



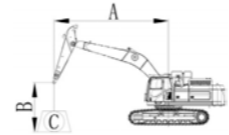
		A (Unit: m)													
		3		4.5		6		7.5		9		MAX REACH			
B (m)		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)	
9.0	kg											*12,829	*12,829	6.9	
7.5	kg							*12,312	12,215			*12,143	10,770	8.1	
6.0	kg							*12,751	11,991			*11,869	9,198	8.9	
4.5	kg			*21,759	*21,759	*16,295	15,903	*13,607	11,593	*12,066	8,898	*11,789	8,326	9.4	
3.0	kg					*18,105	15,042	*14,543	11,152	*12,465	8,686	*11,760	7,807	9.7	
1.5	kg					*19,255	14,415	*15,235	10,780	*12,750	8,489	*11,823	7,685	9.7	
GROUND LEVEL	kg					*19,428	14,103	*15,424	10,549	*12,671	8,368	*12,002	7,927	9.4	
-1.5	kg			*23,490	21,312	*18,628	14,048	*14,898	10,482			*11,818	8,381	9	
-3.0	kg	*24,072	*24,072	*20,710	*20,710	*16,762	14,199	*13,296	10,602			*11,582	9,532	8.2	
-4.5	kg	*18,555	*18,555	*16,337	*16,337	*13,238	*13,238					*10,685	*10,685	7	

LIFTING CAPACITY

952F with 32" Shoes, 23'2" Boom, 9'6" Arm

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

Conditions:
Boom length: 23'2"
Arm length: 9'6"
Bucket: None
counterweight: 23,810 lbs
Shoes: 32" triple grouser
Unit: lbs



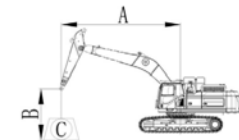
		A (Unit: ft)													
		10.0		15		20		25		30		MAX REACH			
B (ft)		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)	
30	lbs											*28,284	*28,284	23	
25	lbs							*27,144	26,499			*26,770	23,352	27	
20	lbs							*28,112	26,005			*26,167	19,928	29	
15	lbs			*47,970	*47,970	*35,924	34,487	*29,998	25,128	*26,601	19,271	*25,989	18,027	31	
10	lbs					*39,914	32,589	*32,061	24,155	*27,480	18,804	*25,927	16,895	32	
5	lbs					*42,450	31,205	*33,588	23,335	*28,108	18,371	*26,066	16,627	32	
GROUND LEVEL	lbs					*42,830	30,519	*34,003	22,825	*27,935	18,104	*26,460	17,149	31	
-5	lbs			*51,787	46,127	*41,067	30,396	*32,843	22,677			*26,053	18,133	30	
-10	lbs	*53,069	*53,069	*45,658	*45,658	*36,955	30,730	*29,312	22,942			*25,535	20,628	27	
-15	lbs	*40,906	*40,906	*36,017	*36,017	*29,186	*29,186					*23,555	*23,555	23	

LIFTING CAPACITY

952F with 900 mm Shoes, 7,060mm Boom, 2,900 mm Arm

A: Load radius
B: Load point height
C: Lifting capacity rating
Cf: Rated loads over front
Cs: Rated loads over side

Conditions:
Boom length: 7,060 mm
Arm length: 2,900 mm
Bucket: None
counterweight: 10,800 kg
Shoes: 900 mm triple grouser
Unit: kg



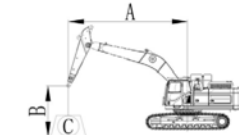
		A (Unit: m)													
		3		4.5		6		7.5		9		MAX REACH			
B (m)		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (m)	
9.0	kg											*12,829	*12,829	6.9	
7.5	kg							*12,312	*12,312			*12,143	10,948	8.1	
6.0	kg							*12,751	12,187			*11,869	9,357	8.9	
4.5	kg			*21,759	*21,759	*16,295	16,163	*13,607	11,789	*12,066	9,054	*11,789	8,474	9.4	
3.0	kg					*18,105	15,302	*14,543	11,347	*12,465	8,843	*11,760	7,950	9.7	
1.5	kg					*19,255	14,675	*15,235	10,976	*12,750	8,646	*11,823	7,828	9.7	
GROUND LEVEL	kg					*19,428	14,363	*15,424	10,744	*12,671	8,525	*12,002	8,076	9.4	
-1.5	kg			*23,490	21,701	*18,628	14,308	*14,898	10,677			*11,818	8,538	9	
-3.0	kg	*24,072	*24,072	*20,710	*20,710	*16,762	14,459	*13,296	10,797			*11,582	9,707	8.2	
-4.5	kg	*18,555	*18,555	*16,337	*16,337	*13,238	*13,238					*10,685	*10,685	7	

LIFTING CAPACITY

952F with 35" Shoes, 23'2" Boom, 9'6" Arm

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

Conditions:
Boom length: 23'2"
Arm length: 9'6"
Bucket: None
counterweight: 23,814 lbs
Shoes: 35" triple grouser
Unit: lbs



		A (Unit: ft)													
		10.0		15		20		25		30		MAX REACH			
B (ft)		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	A (ft)	
30	lbs											*28,284	*28,284	23	
25	lbs							*27,144	*27,144			*26,770	24,136	27	
20	lbs							*28,112	26,867			*26,167	20,628	29	
15	lbs			*47,970	*47,970	*35,924	35,634	*29,998	25,990	*26,601	19,961	*25,989	18,682	31	
10	lbs					*39,914	33,736	*32,061	25,016	*27,480	19,495	*25,927	17,527	32	
5	lbs					*42,450	32,352	*33,588	24,197	*28,108	19,061	*26,066	17,258	32	
GROUND LEVEL	lbs					*42,830	31,666	*34,003	23,687	*27,935	18,794	*26,460	17,805	31	
-5	lbs			*51,787	47,842	*41,067	31,543	*32,843	23,539			*26,053	18,823	30	
-10	lbs	*53,069	*53,069	*45,658	*45,658	*36,955	31,877	*29,312	23,803			*25,535	21,400	27	
-15	lbs	*40,906	*40,906	*36,017	*36,017	*29,186	*29,186					*23,555	*23,555	23	

STANDARD EQUIPMENT

ENGINE SYSTEM

- Cummins X12 engine
- Engine overheat prevention system
- Auto-idle speed control
- Auto engine shutdown
- Double element air filter
- Fuel pre-filter with water separator and water detection
- Variable speed fan
- Cold starting kit (-20° C)
- Engine oil low pressure protection
- Automatic preheating
- Electric refueling pump with auto shutoff

HYDRAULIC SYSTEM

- Full electronic controlled hydraulic system
- Boom and arm holding valves
- Monitor controlled eletro-proportional single/dual way circuits with adjustable flow & pressure
- Boom float function

OPERATOR STATION

- ROPS cab
- Front lower windshield
- Roof window with sun visor
- Heated air suspension seat
- 3-inch retractable seat belt
- Armrest with fore-aft adjustment, left-hand and right-hand side
- 8-inch LCD screen
- Fire extinguisher
- Safety hammer
- Green safety glass
- Sliding window positioning
- Interior lighting

ELECTRICAL SYSTEM

- 3-power modes (Power, Standard, and Economy)
- Front windshield wiper with intermittent setting
- AM/FM radio with USB Input and bluetooth

- Battery disconnect switch
- Emergency engine shutdown
- Attachment flow password protection function
- Attachment flow and pressure history record
- Maintenance-free batteries
- Multi-language selection
- Plateau mode function
- Travel alarm, swing alarm, overload warning and quick coupler warning.
- Keyless start
- Rotating warning light
- Machine startup password
- 2-speed travel with auto-shift
- 12V power source
- 360° camera
- Work lights with turn-off delay (4 boom lights, 2 counterweight lights, LED front and rear work lights – 4 front, 2 rear and right-side platform worklight)

UNDERCARRIAGE

- 600 mm (24") track-shoes with triple grousers
- Track rollers- 9 each side
- Carrier roller- 2 each side
- Heavy duty undercarriage

WORK IMPLEMENT

- 7,060 mm (23'2") boom, 2,900 mm (9'6") arm
- Bucket pin dust seal
- Bucket cylinder guard

AIR CONDITIONING SYSTEM

- Automatic A/C with defogging function

SERVICE AND MAINTENANCE

- Tool kit
- Spare parts packages
- Diagnostic port
- Self diagnostic system

OPTIONAL EQUIPMENT

ENGINE SYSTEM

Cold starting kit (-35° C)

Oil bath air pre-filter

HYDRAULIC SYSTEM

Electro-proportional auxiliary rotation circuit

Quick-coupler circuit

Attachment oil Return circuit

OPERATOR STATION

OPG

Roof window

Sun visor

Front window rain visor

Adjustable armrest, left-side

ELECTRICAL SYSTEM

Seatbelt warning

LED strips front/rear working lights

UNDERCARRIAGE

700 mm (28") track with triple grouser track shoes

800 mm (32") track with triple grouser track shoes

900 mm (35") track with triple grouser track shoes

Full Track guard

UPPER STRUCTURE

Platform fall prevention system-steel

Reinforced platform bottom plate

WORK IMPLEMENT

6,500 mm (21'3") boom, 2,550 mm (8'4") arm

7,060 mm (23'2") boom, 3,380 mm (11'1") arm

ATTACHMENT

Hydraulic quick coupler

Breaking hammer LGB195

2.2 m³ (2.9yd³) digging bucket

2.6 m³ (3.4yd³) HD digging bucket

2.8 m³ (3.7yd³) GP bucket

3.2 m³ (4.2yd³) HD loading bucket



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