



**Engine**

Yanmar 3TNV88F-ESLY

**Net Power**

17.3 kW (23.2 hp)

**Operating Weight**

3,860 kg (8,510 lbs)

**Bucket Capacity**

0.11 m<sup>3</sup> (0.14 yd<sup>3</sup>)

# 9035E EXCAVATOR

LiuGong 9035E Excavator delivers high performance, durability and reliability in zero tail swing design to ensure safe and easy operation within a confined space.

## POWERFUL ENGINE

The fuel efficient, Tier 4 final certified Yanmar 3TNV88 engine provides proven and reliable power.

## ADVANCED HYDRAULICS

Advanced hydraulic system is perfectly matched to the engine and components for fast response and smooth operation. The hydraulic system provides a load sensing and flow sharing capability leading to operational precision, efficient performance and greater controllability.

## BOOM SWING

When it works alongside obstacles, the swing post and cylinder stay within the tracks in an offset position, so that you can avoid the risk of damage to your machine.

## BLADE FLOAT FUNCTION

When you push the lever fully forward into the detent position the float function is enabled. Because you don't have to adjust the blade height during travel, cleanup and backfilling will be easier.

## SIMPLY MULTIFUNCTIONAL

Switching attachments like buckets, breakers and shears can be time consuming and hazardous. We've made it fast, safe and simple with LiuGong's quick coupler and powerlatch tilt coupler. These are perfectly matched to a range of genuine LiuGong attachments including; buckets and breakers which can be changed from the seat of the cab in less than a minute, quick, safe and easy.

## COMFORTABLE OPERATION ENVIRONMENT

Ergonomically designed controls, clear visibility and convenient features all contribute to operator comfort and overall productivity on the job site.

## ZERO TAIL SWING

The 9035E model features a zero tail swing design. On this model, the radius of the upper body stays entirely within the width of the undercarriage that ensures safe and easy operation within a confined space.





# SPECIFICATIONS

Operating weight	3,980 kg (8,774 lb)
	3,860 kg (8,510 lb)

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

Bucket capacity	0.11 m <sup>3</sup> (0.14 yd <sup>3</sup> )
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### ENGINE

#### Description

Yanmar EPA Tier 4 final, 1.64 liter, 3-cylinder, 4 stroke direct injection diesel engine.

Emission rating	EPA Tier 4 Final
Engine manufacturer	Yanmar
Engine model	3TNV88F-ESLY
Aspiration	Natural
Charged air cooling	Aftercooler
Cooling fan drive	Belt drive
Displacement	1.64 L (100 in <sup>3</sup> )
Rated speed	2,200 rpm
Net power (SAE J1349/ISO 9249)	17.3 kW (23.2 hp)
Gross power (SAE J1995/ISO 14396)	18.2 kW (24.4 hp)
Maximum torque	94.2 N·m (69.5 lbf·ft) @1,320 rpm
Bore × Stroke	88 × 90 mm (3.46 × 3.54 in)

### DRIVE AND BRAKES

#### Description

2-speed drive motors allow auto speed shifting. Each motor is equipped with a hydraulic released, spring applied parking brake.

Max. travel speed	High: 4.2 km/h (2.6 mph)
	Low: 2.5 km/h (1.5 mph)
Gradeability	30°/58%
Max. drawbar pull	33 kN (7,419 lbf)

### SWING SYSTEM

#### Description

Planetary gear reduction driven by high torque axial piston motor with spring applied parking brake; Hydraulic oil lubricate.

Swing speed	10 rpm
Swing torque	8,009 N·m (5,907 lbf·ft)

### HYDRAULIC SYSTEM

#### Main pump

Type	Variable displacement piston pump
Maximum flow	99 L/min (26.1 gal/min)

#### Pilot pump

Type	Gear pump
Maximum flow	8.8 L/min (2.3 gal/min)

#### Relief valve setting

Implement	24.5 MPa (3,553 psi)
Travel circuit	24.5 MPa (3,553 psi)
Slew circuit	18.6 MPa (2,698 psi)
Pilot circuit	3.9 MPa (566 psi)

#### Hydraulic cylinders

Boom Cylinder – Bore × Stroke	Φ80 × 510 mm (Φ3.1 in × 1 ft 8 in)
Stick Cylinder – Bore × Stroke	Φ80 × 590 mm (Φ3.1 in × 1 ft 11 in)
Bucket Cylinder – Bore × Stroke	Φ70 × 465 mm (Φ3 in × 1 ft 6 in)
Dozer Cylinder – Bore × Stroke	Φ100 × 142 mm (3.9 in × 5.6 in)
Swing Cylinder – Bore × Stroke	Φ80 × 400 mm (3.1 in × 1 ft 4 in)

### ELECTRIC SYSTEM

System Voltage	12 V
Battery	12 V
Alternator	12 V - 55 A
Start motor	12 V - 1.7 kW (12 V - 2.3 hp)

### SERVICE CAPACITIES

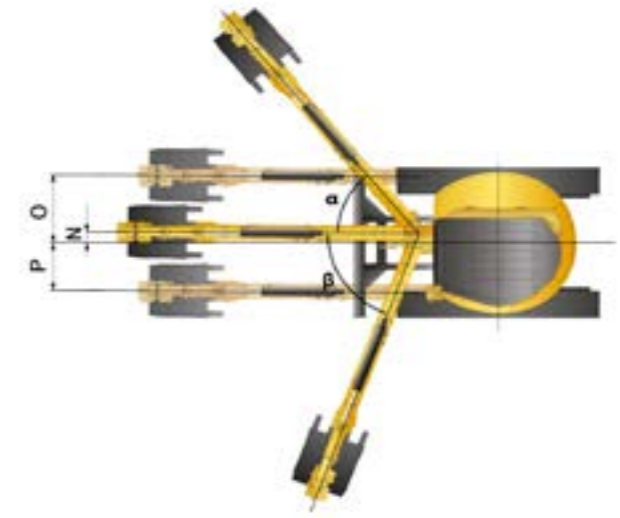
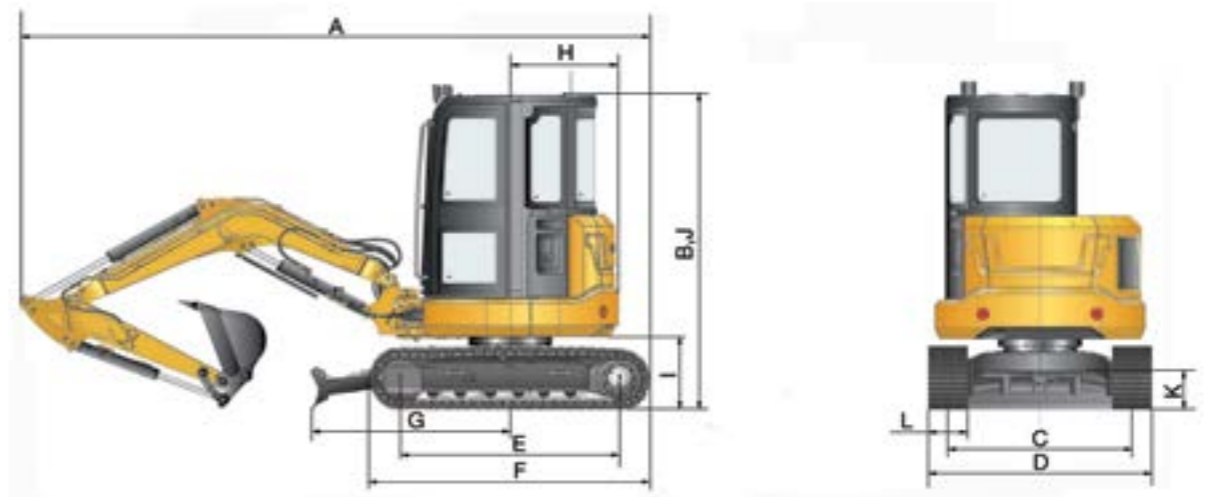
Fuel tank	40 L (10.6 gal)
Engine oil	6.7 L (1.77 gal)
Final drive (each)	0.5 L (0.13 gal)
Swing drive	/
Cooling system	7 L (1.85 gal)
Hydraulic reservoir	42 (11.1 gal)
Hydraulic system total	70 (18.5 gal)

### SOUND PERFORMANCE

Interior Sound Power Level (ISO 6396)	79 dB(A)
Exterior Sound Power Level (ISO 6395)	93 dB(A)

### UNDERCARRIAGE

Track shoe each side	45
Link pitch	101.6 mm (4")
Shoe width, triple grouser	300 mm (12")
Bottom rollers each side	4
Top rollers each side	1



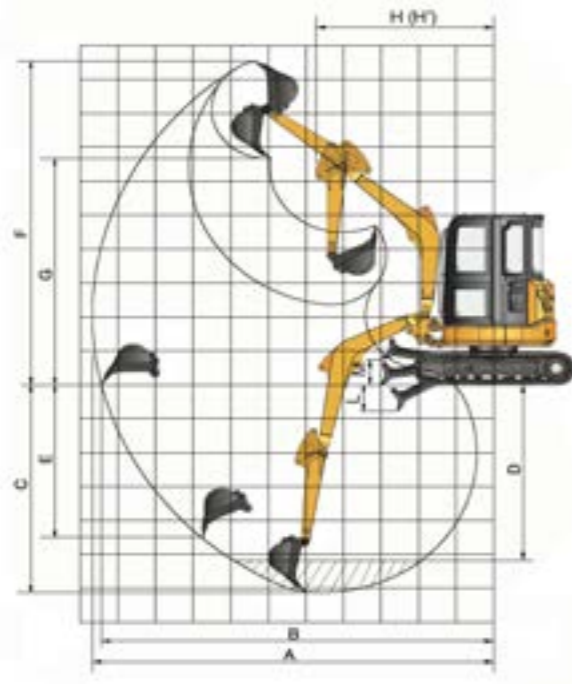
DIMENSIONS	
Boom	2,450 mm (8')
Arm Options	1,320 mm (4'4") 1,700 mm (5'7")
A Shipping Length	4,810 mm (15'9") 4,860 mm (15'11")
B Shipping Height – Top of Cab	2,500 mm (8'2")
C Track Gauge	1,400 mm (4'7")
D Undercarriage Width – with 300 mm Shoes	1,700 mm (5'7")
E Length to Center of Rollers	1,675 mm (5'6")
F Track Length	2,100 mm (6'11")
G Length from Blade to Swing Center	1,600 mm (5'3")
H Tail Swing Radius	850 mm (2'9")
I Counterweight Ground Clearance	580 mm (1'11")
J Overall Height of Cab	2,500 mm (8'2")
K Min. Ground Clearance	258 mm (10")
L Track Shoe Width	300 mm (12")
N Offset	100 mm (4")
O Maximum Boom Offset to the Right	772 mm (2'6")
P Maximum Boom Offset to the Left	537 mm (1'9")
α Maximum Boom Swing Angle to the Right	50°
β Maximum Boom Swing Angle to the Left	70°

BOOM DIMENSIONS	
Boom	2,450 mm (8')
Length	2,548 mm (8'4")
Height	806 mm (2'8")
Width	273 mm (11") (with boom hinge pin)
Weight	142 kg (313 lbs)

Only boom.

ARM DIMENSIONS		
Arm	1,320 mm (4'4")	1,700 mm (5'7")
Length	1,706 mm (5'7")	2,100 mm (6'11")
Height	392 mm (1'3")	392 mm (1'3")
Width	145 mm (5.7")	145 mm (5.7")
Weight	78 kg (172 lbs)	97 kg (214 lbs)

Only arm.



WORKING RANGE		
Boom	2,450 mm (8')	
Arm Options	1,320 mm (4'4")	1,700 mm (5'7")
A. Max. digging reach	5,385 mm (17'8")	5,715 mm (18'9")
B. Max. digging reach on ground	5,270 mm (17'3")	5,603 mm (18'5")
C. Max. digging depth	3,085 mm (10'1")	3,440 mm (11'3")
D. Max. digging depth 2.44 m (8') level	2,610 mm (8'7")	3,019 mm (9'11")
E. Max. vertical wall digging depth	2,503 mm (8'3")	2,713 mm (8'11")
F. Max. cutting height	4,710 mm (15'5")	4,843 mm (15'11")
G. Max. dumping height	3,310 mm (10'10")	3,463 mm (11'4")
H. Min. front swing radius	2,416 mm (7'11")	2,416 mm (7'11")
L. Dozer-Down	390 mm (1'3")	390 mm (1'3")
M. Dozer-Up	370 mm (1'3")	370 mm (1'3")
Bucket Digging Force (ISO)	30 kN (6,744 lbf)	30 kN (6,744 lbf)
Stick Digging Force (ISO)	22 kN (4,945 lbf)	17.8 kN (4,002 lbf)
Bucket Capacity	0.11 m <sup>3</sup> (0.14 yd <sup>3</sup> )	0.07 m <sup>3</sup> (0.09 yd <sup>3</sup> )
Bucket Tip Radius	725 mm (2'5")	725 mm (2'5")

BUCKET SELECTION GUIDE						
2.45 m (8') Boom						
Bucket type	Capacity	Cutting width	Weight	Teeth pcs	1.32 m (4'4") Arm	1.7 m (5'7") Arm
General purpose	0.11 m <sup>3</sup> (0.14 yd <sup>3</sup> )	610 mm (2')	101 kg (223 lbs)	4	B	NA
General purpose	0.07 m <sup>3</sup> (0.09 yd <sup>3</sup> )	458 mm (1'6")	82 kg (181 lbs)	4	B	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<sup>3</sup> (2,023-2,191 lb/yd<sup>3</sup>): Coal, Caliche, Shale  
 B 1,400-1,600 kg/m<sup>3</sup> (2,360-2,697 lb/yd<sup>3</sup>): Wet earth and clay, limestone, sandstone  
 C 1,700-1,800 kg/m<sup>3</sup> (2,865-3,034 lb/yd<sup>3</sup>): Granite, wet sand, well blasted rock  
 D 1,900 kg/m<sup>3</sup> (3,203 lb/yd<sup>3</sup>): 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.



- 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)

**9035EZTS with 300 mm shoes, 1,320 mm arm (Standard)**      **Conditions**  
 A: Reach from swing center      Boom length: 2,450 mm one-piece boom  
 B: Bucket hook height      Arm length: 1,320 mm  
 C: Lifting capacity      Bucket: 0.11 m<sup>3</sup>  
 Cf: Rating over front      Shoes: 300 mm  
 Cs: Rating over side      Unit: kg

Blade: Down							
A (Unit: m)							
	2		3		4		MAX REACH
B (m)							A (m)
3					*650	490	*660 450 4.2
2			*840	780	*700	480	*670 370 4.6
1			*1,200	720	*820	460	*690 340 4.7
0	*1,730	1,270	*1,390	680	*900	440	*720 340 4.6
-1	*2,400	1,290	*1,330	670	*830	440	*750 410 4.2

Blade: Up							
A (Unit: m)							
	2		3		4		MAX REACH
B (m)	Cf	Cs	Cf	Cs	Cf	Cs	A (m)
3					630	490	580 450 4.2
2			*840	780	620	480	490 370 4.6
1			950	720	600	460	460 340 4.7
0	*1,730	1,270	910	680	580	440	460 340 4.6
-1	1,780	1,290	900	670	580	440	550 410 4.2



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)

**9035EZTS with 300 mm shoes, 1,700 mm arm**      **Conditions**

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

Boom length: 2,450 mm one-piece boom  
Arm length: 1,700 mm  
Bucket: 0.07 m<sup>3</sup>  
Shoes: 300 mm  
Unit: kg



Blade: Down									
A (Unit: m)									
B (m)	2		3		4		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
3					*507	493	*532	414	4.4
2					*590	479	*567	341	4.8
1	*2,310	1,363	*1,048	724	*737	454	*613	315	4.9
0	*2,902	1,267	*1,343	675	*858	431	*671	322	4.8
-1	*2,685	1,266	*1,375	659	*865	422	*743	370	4.4

Blade: Up									
A (Unit: m)									
B (m)	2		3		4		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
3					*507	493	*532	414	4.4
2					*590	479	458	341	4.8
1	1,886	1,363	964	724	606	454	428	315	4.9
0	1,779	1,267	912	675	582	431	439	322	4.8
-1	1,777	1,266	895	659	573	422	504	370	4.4

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 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)

**9035EZTS with 12" Shoes, 4'4" Arm (Standard)**      **Conditions**

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

Boom length: 8' one-piece boom  
Arm length: 4'4"  
Bucket: 0.14 yd<sup>3</sup>  
Shoes: 12"  
Unit: lb



Blade: Down											
A (Unit: ft)											
B (ft)	6'7"		9'10"		13'1"		MAX REACH		A (ft)		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs			
9'10"					*1,433	1,080	*1,455	992	13'9"		
6'7"					*1,851	1,719	*1,543	1,058	*1,477	815	15'2"
3'3"					*2,645	1,587	*1,807	1,014	*1,521	749	15'7"
0"	*3,813	2,799	*3,064	1,499	*1,984	970	*1,587	749	15'1"		
-3'3"	*5,291	2,843	*2,932	1,477	*1,829	970	*1,653	903	13'8"		

Blade: Up											
A (Unit: ft)											
B (ft)	6'7"		9'10"		13'1"		MAX REACH		A (ft)		
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs			
9'10"					1,388	1,080	1,278	992	13'9"		
6'7"					*1,851	1,719	1,366	1,058	1,080	815	15'2"
3'3"					2,094	1,587	1,322	1,014	1,014	749	15'7"
0"	*3,813	2,799	2,006	1,499	1,278	970	1,014	749	15'1"		
-3'3"	*3,924	2,843	1,984	1,477	1,278	970	1,212	903	13'8"		

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 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)

### 9035EZTS with 12" Shoes, 5'7" Arm

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

### Conditions

Boom length: 8' one-piece boom  
Arm length: 5'7"  
Bucket: 0.09 yd<sup>3</sup>  
Shoes: 12"  
Unit: lb



### Blade: Down

#### A (Unit: ft)

B (ft)	6'7"		9'10"		13'1"		MAX REACH		A (ft)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
9'10"					*1,117	1,086	*1,172	912	14'5"
6'7"					*1,300	1,056	*1,250	751	15'9"
3'3"	*5,092	3,004	*2,310	1,596	*1,624	1,000	*1,351	694	16'1"
'0"	*6,397	2,793	*2,960	1,488	*1,891	950	*1,479	709	15'8"
-3'3"	*5,919	2,791	*3,031	1,452	*1,906	930	*1,638	815	14'3"

### Blade: Up

#### A (Unit: ft)

B (ft)	6'7"		9'10"		13'1"		MAX REACH		A (ft)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
9'10"					*1,117	1,086	*1,172	912	14'5"
6'7"					*1,300	1,056	1,009	751	15'9"
3'3"	4,157	3,004	2,125	1,596	1,336	1,000	943	694	16'1"
'0"	3,922	2,793	2,010	1,488	1,283	950	967	709	15'8"
-3'3"	3,917	2,791	1,973	1,452	1,263	930	1,111	815	14'3"

# STANDARD EQUIPMENT

## ENGINE SYSTEM

- Yanmar engine, inline 3 cylinders, 4 stroke, water cooled, natural aspiration
- Air filter with pre-cleaner
- Engine oil filter
- Pre-filter with water separator
- Radiator, oil cooler

## HYDRAULIC SYSTEM

- Main pump: one variable displacement piston pump
- Pilot pump: gear
- Cylinders: boom, stick, bucket
- Swing with anti-reverse function
- Pilot oil filter
- Pilot control shut-off lever

## DIGGING EQUIPMENT

- Boom, 2,450 mm (8')
- Arm, 1,320 mm (4'4")
- 0.11 m<sup>3</sup> (0.14 yd<sup>3</sup>) bucket (SAE, heaped)

## OPERATOR STATION

- Pressurized and sealed cab with all-around visibility, large roof window, front window wiper and removable lower window
- Integrated Roll-Over Protective Structures (ISO12117-2)
- Air conditioner, heater, defroster
- Mechanical suspension seat
- AM/FM radio
- Glass-breaking hammer
- Cigarette lighter
- Floor mat
- Fire extinguisher
- One key for all locks
- Rear view mirrors, 1 mounted on cab left, 1 on cab inside

## INSTRUMENTATION

- Color LCD monitor with alarms, filter/fluid change, fuel rate, water temperature, work mode, fault code, hour meter, etc.
- Fuel gauge
- Hydraulic oil level gauge

## ELECTRICAL

- Alternator 12 V, 55 A
- System 12 V, one battery 12 V
- Working lights, 2 cab mounted, 1 boom mounted
- Starting, 12 V, 1.7 kW (2.3 hp)

## UNDERCARRIAGE

- 300 mm (12") steel track, double grouser
- Rollers, bottom - 4 each side, top - 1 each side
- Towing eye on base frame
- Short blade

## GUARDS

- Cover plate under travel frame

## OTHER STANDARD EQUIPMENT

- 560 kg counterweight
- Maintenance tool kit
- Maintenance parts package

# OPTIONAL EQUIPMENT

## HYDRAULIC SYSTEM

- Security valves (1 on boom, 1 on arm and 1 on dozer)
- Hydraulic piping: Breaker & shear, Slope & rotator, Grapple, Quick coupler (Low pressure)
- Low pressure quick coupler

## OPERATOR STATION

- Operation protection guard (Include cab front and top guard, bar)

- Control joysticks with 2 switch & 1 proportional
- Falling-Object Protective Structures (FOPS)
- Safety net for front window

## ELECTRICAL

- Travel alarm
- Rotating beacon
- Over loading warning

## UPPER STRUCTURE

- Auxiliary counterweight

## UNDERCARRIAGE

- Rubber Track, 300 mm (12")
- Long blade

## DIGGING EQUIPMENT

- Arm: 1,700 mm (5'7")
- 0.07 m<sup>3</sup> (0.09 yd<sup>3</sup>) bucket (SAE, heaped)



TOUGH WORLD. TOUGH EQUIPMENT.

LG-BP-9035E-T4-WW-A4-022022-ENG

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