

Engine

Yanmar 3TNV88, EU Stage IIIA

Net Power

29 hp (21 kW)

Operating Weight

3,860 kg

Bucket Capacity

0.11 m³

9035E
EXCAVATOR



TOUGH WORLD. TOUGH EQUIPMENT.

DESIGNED TO GET MORE DONE

The 9035E is designed to **get more done** in less time. Featuring a stronger boom, arm and bucket breakout force, greater hydraulic flow, higher swing speeds and improved cycle times, this excavator will power **through any task** in any terrain.

POWERFUL PERFORMANCE

The Yanmar fuel efficient 4TNV88 engine delivers net power of 29 hp (21 kW) and torque of 107 N-m.

LOAD SENSING HYDRAULICS

Load-sensing hydraulics direct the engine's power to ensure the hydraulic pump flow continually adjusts for smooth, quick and efficient operation. The pilot valves match up with the main control valve to offer more precise control.

OPERATOR FRIENDLY ENVIRONMENT

Ergonomically designed controls, large entrance, spacious interior designed for operator comfort and efficiency.



EFFICIENCY, PRECISION & VERSATILITY

LiuGong E-Series excavators deliver the **perfect balance** of performance, precision, and quality. The 9035E model is powered by the latest generation, low emission Yanmar 4TNV88 engine. A zero tail swing excavator with powerful output, excellent **visibility** and fast cycle times to get the job done.

A POWERFUL ENGINE

Yanmar 4TNV88 engine meets EU Stage IIIA emissions standards with superior power to weight ratio, quiet, reliable designed to be environmentally friendly, fuel efficient with the capability of running on up to 5 percent B5 Bio Diesel.

SAFETY STANDARDS

All LiuGong E-Series excavators come with certified ROPS (Rollover Protective System) cabs meeting ISO safety standards. LiuGong offers FOPS (Falling Object Protective Structure) as an option on all E-Series excavators.

ALL AROUND VISION FEATURES

Designed to offer optimized visibility with flat glass with a panoramic view and well position controls with plenty of head and legroom, gives the operator greater control of the machine when working in confined spaces. Each feature has been designed to keep you working with great comfort



ALL AROUND COMFORT

In the 9035E cab, you're working in complete **comfort** with outstanding **visibility** all around. We understand how operators like to work and have designed the cab for maximum comfort and ultimate **productivity**.

AT HOME IN THE CAB

The 9035E series ROPS certified cab is ISO 12117-2 certified mounted on dampener silicone to absorb noise and vibration. Wide spacious cab door swings full open to lock position. Front windshield slides up into ceiling, removable lower window, large right sliding glass offers greater cab ventilation.

ADVANCED CLIMATE CONTROL

Pressurized cab, advanced climate control, air is circulated through the cab by three outlets to improve air circulation and front windshield defrost allows year round operator comfort in any environment.

IMPROVED JOYSTICK CONTROLS

Operator can now control both the boom offset and hammer shear functions without moving hands from joysticks.



ALWAYS STRONG ALWAYS RELIABLE

The use of thick, high-tensile steel components, internal baffling, and stress-relieved plates, make the structures on LiuGong E-Series excavators **tough and durable**.

We guarantee the **quality and reliability** of our machines throughout the manufacturing process by conducting stringent tests and ultrasound inspections that detect defects well before they make it into production.



BOOM & ARM

The boom and arm structures are designed with large cross-sectional supports and incorporates one-piece steel castings. This solid engineering guarantees long-term durability and high resistance to bending and torsional stress.

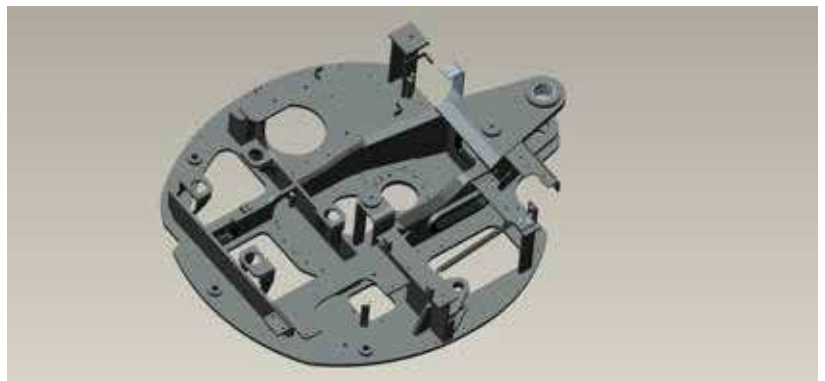
UPPER STRUCTURE

The upper structure is strongly reinforced by the use of an H-beam in the high cross section of the main structure providing even weight distribution and increasing stability.

UNDERCARRIAGE

The high-strength undercarriage of the 9035E incorporates a welded X-frame construction for long life durability and is designed to perform in the most challenging applications.

The standard rubber track lets you work on multiple surfaces such as asphalt, concrete, and grass without damaging the surface or machine.



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, EU Stage IIIA 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 3,860 kg

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

BUCKET CAPACITY 0.11 m³

ENGINE

Description

Yanmar EU Stage IIIA, 1.64 liter, 4 stroke direct injection diesel engine.

Emission rating EU Stage IIIA

Engine manufacturer Yanmar

Engine model 3TNV88

Aspiration Natural

Charged air cooling Aftercooler

Cooling fan drive Direct

Displacement 1.64 L

Rated speed 2,400 rpm

Engine output - net
(SAE J1349 / ISO 9249) 29 hp (21 kW)

Engine output - gross
(SAE J1995 / ISO 14396) 30 hp (22 kW)

Maximum torque 107 N·m @1,440 rpm

Bore × Stroke 88 × 90 mm

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: 4.6 km/h
Low: 2.7 km/h

Gradeability 30°/58%

Max. drawbar pull 33 kN

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 8,008 N·m

HYDRAULIC SYSTEM

Main pump

Type Variable displacement piston pump

Maximum flow 92.4 L/min

Pilot pump

Type Gear pump

Maximum flow 8.8 L/min

Relief valve setting

Implement 24.5 MPa

Travel circuit 24.5 MPa

Slew circuit 18.6 MPa

Pilot circuit 3.9 MPa

Hydraulic cylinders

Boom Cylinder –
Bore × Stroke $\Phi 80 \times 510$ mm

Stick Cylinder –
Bore × Stroke $\Phi 80 \times 590$ mm

Bucket Cylinder –
Bore × Stroke $\Phi 63 \times 465$ mm

UNDERCARRIAGE

Track shoe each side 45

Link pitch 101.6 mm

Shoe width,
triple grouser 300 mm

Bottom rollers each
side 4

Top rollers each side 1

ELECTRIC SYSTEM

System Voltage 12 V

Battery 12 V

Alternator 12 V - 55 A

Start motor 12 V - 1.7 kW

SERVICE CAPACITIES

Fuel tank 40 L

Engine oil 6.7 L

Final drive (each) 0.5 L

Swing drive /

Cooling system 7 L

Hydraulic reservoir 42

Hydraulic system total 70

SOUND PERFORMANCE

Interior Sound Power
Level (ISO 6396) 79 dB(A)

Exterior Sound Power
Level (ISO 6395) 94 dB(A)

MACHINE WEIGHTS AND GROUND PRESSURE

Operating weight 3,860 kg

Shoe width 300 mm

Boom 2,450 mm

Arm 1,320 mm

Bucket 0.11 m³

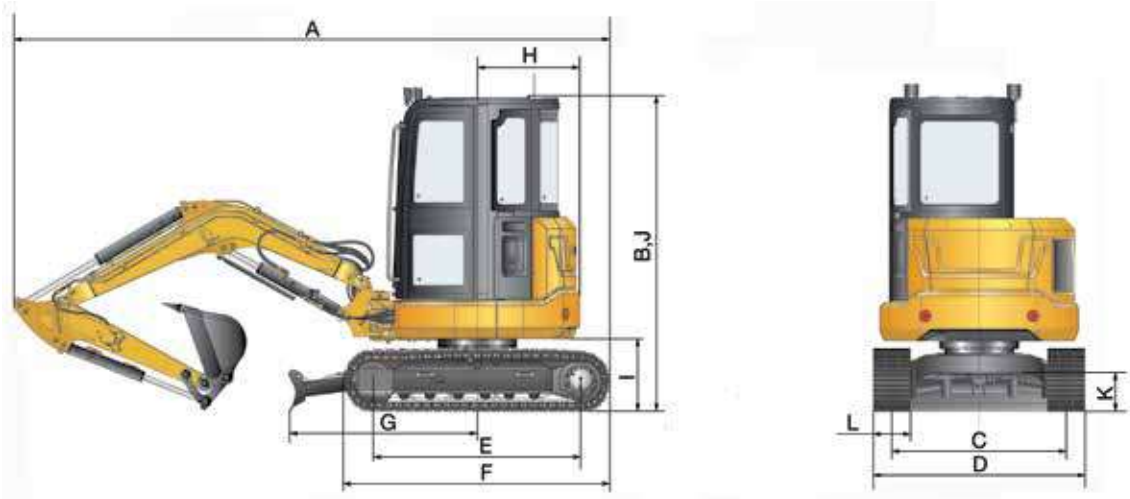
Counterweight 560 kg

Ground pressure 34 kPa



9035E EXCAVATOR





DIMENSIONS

Boom	2,450 mm	
Arm Options	1,320 mm	1,700 mm
A Shipping Length	4,810 mm	
B Shipping Height – Top of Cab	2,500 mm	
C Track Gauge	1,400 mm	
D Undercarriage Width – with 300 mm Shoes	1,700 mm	
E Length to Center of Rollers	1,675 mm	
F Track Length	2,100 mm	
G Length from Blade to Swing Center	1,517 mm	
H Tail Swing Radius	850 mm	
I Counterweight Ground Clearance	580 mm	
J Overall Height of Cab	2,500 mm	
K Min. Ground Clearance	258 mm	
L Track Shoe Width	300 mm	

BOOM DIMENSIONS

Boom	2,450 mm
Length	2,548 mm
Height	806 mm
Width	273 mm (with boom hinge pin)
Weight	142 kg

ARM DIMENSIONS

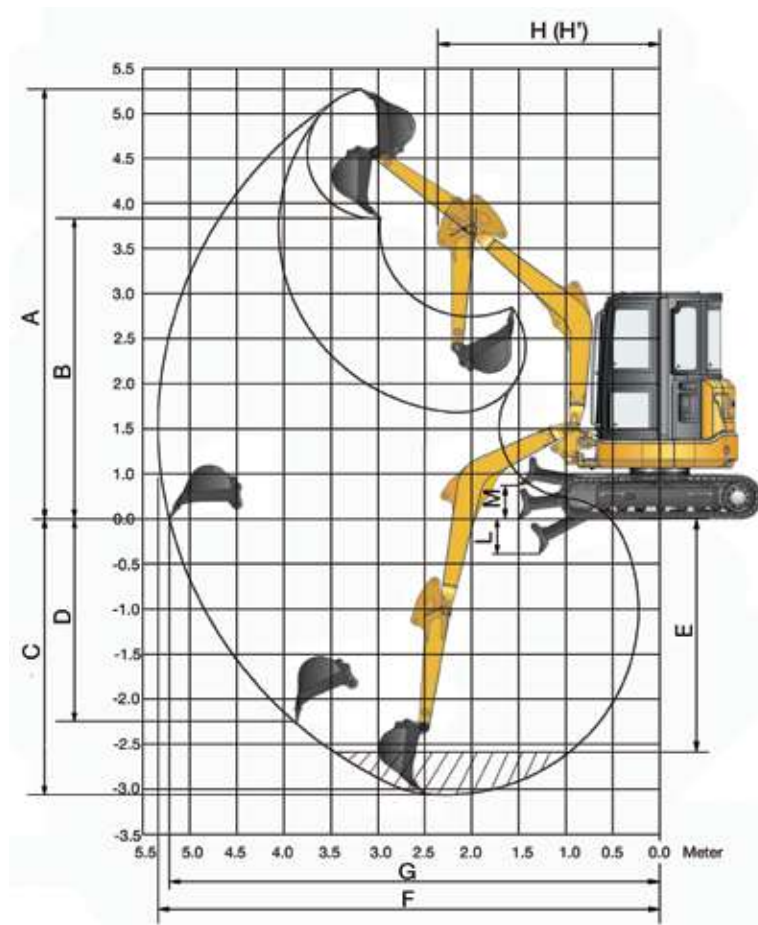
Arm	1,320 mm	1,700 mm
Length	1,706 mm	2,100 mm
Height	392 mm	392 mm
Width	145 mm	145 mm
Weight	78 kg	97 kg

BUCKET SELECTION GUIDE

Bucket type	Capacity	Cutting width	Weight	Teeth pcs	2.45 m Boom	
					1.32 m Arm	1.7 m Arm
General purpose	0.11 m ³	610 mm	101 kg	4	B	NA
General purpose	0.07 m ³	458 mm	82 kg	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.

- 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



WORKING RANGE

Boom	2,450 mm	
Arm Options	1,320 mm	1,700 mm
A. Max. cutting height	4,710 mm	4,843 mm
B. Max. dumping height	3,310 mm	3,463 mm
C. Max. digging depth	3,085 mm	3,440 mm
D. Max. vertical wall digging depth	2,503 mm	2,713 mm
E. Max. digging depth 2.44 m (8') level	2,610 mm	3,019 mm
F. Max. digging reach	5,385 mm	5,715 mm
G. Max. digging reach on ground	5,270 mm	5,603 mm
H. Min. front swing radius	2,416 mm	2,416 mm
Bucket Digging Force (ISO)	30 kN	30 kN
Stick Digging Force (ISO)	20 kN	17.8 kN
Bucket Capacity	0.11 m ³	0.07 m ³
Bucket Tip Radius	725 mm	725 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)

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.

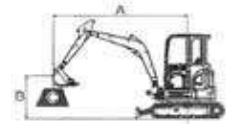
LIFTING CAPACITY (METRIC)

9035E with 300 mm shoes, 1,320 mm arm (Standard)

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

Conditions

Boom length: 2,450 mm one-piece boom
Arm length: 1,320 mm
Bucket: 0.11 m³
Shoes: 300 mm
Unit: kg



Blade: Down

A (Unit: m)

B (m)	2		3		4		MAX REACH		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)

B (m)	2		3		4		MAX REACH		A (m)
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	
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.
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Lifting capacities are based on the machine standing on a firm, uniform supporting surface.



Rating over - front (Cf)



Rating over - side (Cs)

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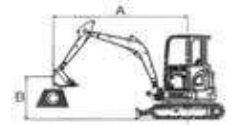
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9035E with 300 mm shoes, 1,320 mm arm (Standard)

Conditions

A: Load radius
B: Bucket hook height
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Cf: Rating over front
Cs: Rating over side

Boom length: 2,450 mm one-piece boom
Arm length: 1,320 mm
Bucket: 0.11 m³
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

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 m³ (0.14 yd³) 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 ROPS (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

UNDERCARRIAGE

- 300 mm 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
- Long blade

DIGGING EQUIPMENT

- Arm: 1,700 mm
- 0.07 m³ bucket (SAE, heaped)
- 0.065 m³ bucket (SAE, heaped)



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