

U55-4

KUBOTA MINI EXCAVATOR



UPGRADED PERFORMANCE

Powerful & Versatile

Combining the power for demanding jobs and the versatility to work in any condition, the Kubota U55-4 is ready to take on any challenge. This advanced 5.4 tonne machine is designed with excellent stability to work efficiently even where space is confined. Versatility is greatly enhanced with two auxiliary circuits as standard* and precise oil flow control. With upgraded digging and lifting power and smoother travel performance, this Kubota truly has it all.

*For Types L and M.



Kubota Original Direct Injection Engine

The U55-4 is powered by Kubota's impressive 46 PS direct injection engine. Engineered with the power to maximise digging and lifting performance, it also delivers minimised noise and vibration.

Tight Tail Swing

This tight tail swing model proves to be highly versatile when undertaking operations in a confined space.

Load Sensing Hydraulic System

Kubota's improved 3-pump load sensing hydraulic system ensures smoother operation, regardless of load size. It allows hydraulic oil to flow according to the specific range of the operator's lever motion. The result is greater fuel economy and smoother travelling.

Increased Boom Lifting Force

The U55-4 features a significantly improved boom lifting force.

Enhanced Digging Force

The U55-4 delivers an impressive bucket digging force of 4,315 kgf. Its powerful and well-balanced arm and bucket allow the operator to dig faster and more efficiently even in the toughest conditions.

Boom Anti-drop Valve

The U55-4 is fitted with a boom-lowering control device (ISO8643) as standard.

Auto-shift

The auto-shift system enables automatic travel shift from high to low depending on traction effort and terrain. This gives smoother operations when dozing and turning.

Optimised Site Cleaning

The dozer blade is heightened up to 410 mm, and the gap between the blade and the bucket edge is optimised. This enables easier site cleaning and levelling.



Versatile Control

Two auxiliary circuits (SP1 and SP2*) come standard on the U55-4. The maximum oil flow settings of both circuits are conveniently adjustable from the digital panel. No additional tools or complex manual adjusting procedures are necessary.

*For Types L and M.

DELUXE INTERIOR

Spacious & Comfortable

On the U55-4, your comfort truly comes first. The luxurious cabin features a deluxe seat and a wider entrance which enables easier entrance and exit to and from the cabin. The Roll-over Protective Structure (ROPS) and Operator Protective Guard (OPG, ISO10262) maximise safety. Operability is greatly enhanced with more easy-to-use features than ever before.



Easy Operation

A. Wrist Rest

A thoughtfully designed wrist rest enhances operation and reduces operator fatigue.

B. Proportional Flow Control Of Auxiliary Circuits (SP1 and SP2*)

Convenient thumb-operated switches allow the operator easy

proportional flow control of SP1 and SP2.

*SP2 is standard for Types L and M.

C. Constant Oil Flow Switch (SP1)

A forefinger-operated on/off switch enables simple operation of special applications that require a constant oil flow.

Air Conditioning*

The overall air circulation in the cabin has been improved, thanks to a stronger cooling/heating unit and the positioning of six vents around the operator to offer better all-round comfort.

*A/C is standard for Type L.



New Digital Panel

Following the excellence of Kubota's Intelligent Control System, the new digital panel puts convenience at the operator's fingertips. Featuring easier button operation, the user-friendly digital panel is positioned to the front right corner of the operator. This operator-facing wider display greatly improves visibility. With easier access, simpler settings, easy-to-read indicators and alerts, you'll always be aware of the excavator's functioning status.



Operation History Record

An operation history is automatically recorded on the U55-4. You can trace back up to 90 days of the machine's usage dates by simply checking the built-in calendar.



Standard Mode



Service Interval Information



Warning Mode

- a. Hour Meter**
- b. Water Temperature**
- c. Clock**
- d. Fuel Level**
- e. Engine RPM**



MAX. AUX Oil Flow Setting (SP1 and SP2)



Ignition Key Removal Alert



Anti-theft Immobilizer Activation LED Alert



Operation History Record

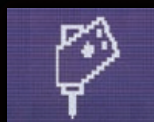
Attachment Icons



AUX



Tilt Bucket



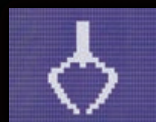
Breaker



Clamshell



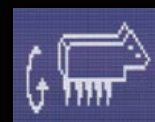
Auger



Grapple



Rotary Grapple



Brush Cutter

Attachment Icons

You can programme up to five maximum oil flow settings corresponding to specific attachments into memory on the digital panel. Programmed settings can be quickly retrieved for the next job. The system comes with eight pre-installed attachment icons.

Kubota Original Anti-theft System

Your U55-4 is protected by Kubota's industry-leading anti-theft system. Only programmed keys will enable the engine to start up. Attempting to start with an un-programmed key will activate the alarm. Newly enhanced features include an alert to remind the operator to extract the key after operation, and an LED alert to prevent potential theft.



EASY MAINTENANCE

Accessible & Convenient

Although your Kubota excavator is state-of-the-art, its maintenance doesn't get much easier. Thanks to the full-opening rear and right side bonnets, engine, control valves and various components are accessible for easy inspection and repair.



One-sided Engine Maintenance

Kubota has made routine maintenance extremely simple by consolidating primary engine components onto one side for easier access. Engine and other vital components can be inspected quickly and easily.

A. Air Cleaner

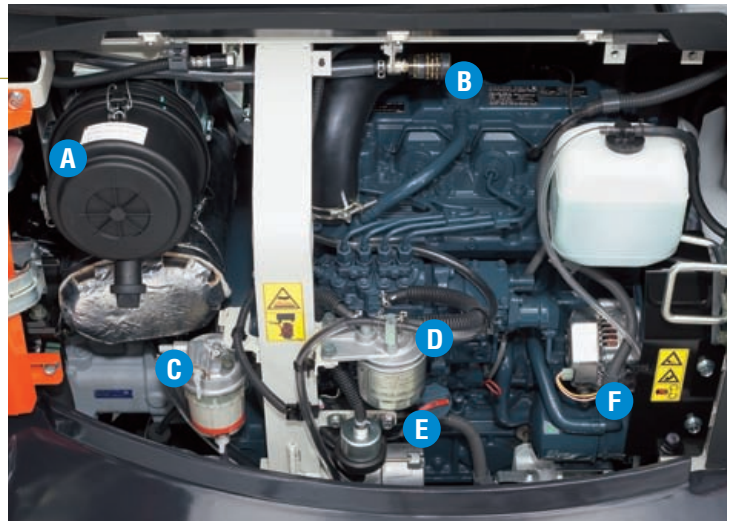
D. Fuel Filter

B. Air Cleaner Indicator

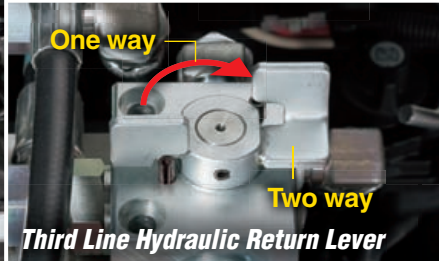
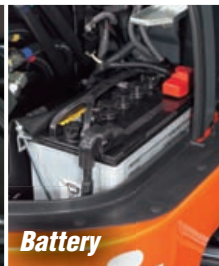
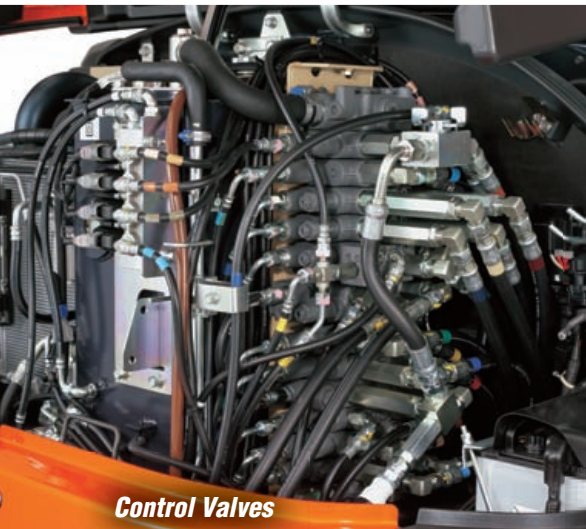
E. Starter Motor

C. Water Separator

F. Alternator



Side Bonnet Features



Standard Equipment

Safety System

- Engine start safety system on the left console
- Travel motor with disc brake
- Swivel motor with disc brake
- Overload warning buzzer
- Kubota original anti-theft system
- Anti-drop valve on the boom (ISO8643)

Working Equipment

- Auxiliary hydraulic circuits (SP1 and SP2*) piping to the arm end *For Types L and M.
- 2 working lights on cabin and 1 light on the boom
- 1570 mm arm

Cabin

- ROPS (Roll-over Protective Structure, ISO3471)
- OPG (Operator Protective Guard) Level1
- Weight-adjustable full suspension seat
- Seatbelt
- Hydraulic pilot control levers with wrist rests
- Travel levers with foot pedals
- Air conditioning *For Type L
- Cabin heater for defrosting and demisting
- Emergency exit hammer
- Front window power-assisted with gas damper
- 12V power source
- 2 speakers and radio aerial
- Location for radio

- Side/Rear mirrors (left, right and rear)
- Cup holder

Engine/Fuel System

- Double-element air filter
- Electric fuel pump
- Auto idling system
- Water separator with drain cock

Undercarriage

- 400 mm rubber track
- 1 x upper track roller
- 5 double-flange track rollers on each track
- 2-speed travel switch on dozer lever
- Two-speed travel with auto-shift

Hydraulic System

- Pressure accumulator
- Hydraulic pressure checking ports
- Straight travel circuit
- Third line hydraulic return
- Load-sensing hydraulic system
- Adjustable maximum oil flow on auxiliary circuits (SP1 and SP2*) *For Types L and M.
- Double auxiliary circuit for accessories
- Auxiliary switch (SP1) on right control lever
- Auxiliary switch (SP2) on left control lever
- *For Types L and M.

Optional Equipment

Undercarriage

- 400 mm steel track (+ 100 kg)
- 550 mm steel track (+ 300 kg)

Safety System

- Anti-drop valve unit (arm and dozer)
- Bracket and harness for beacon light

Others

- Special paint upon request

Standard Equipment For Each Type

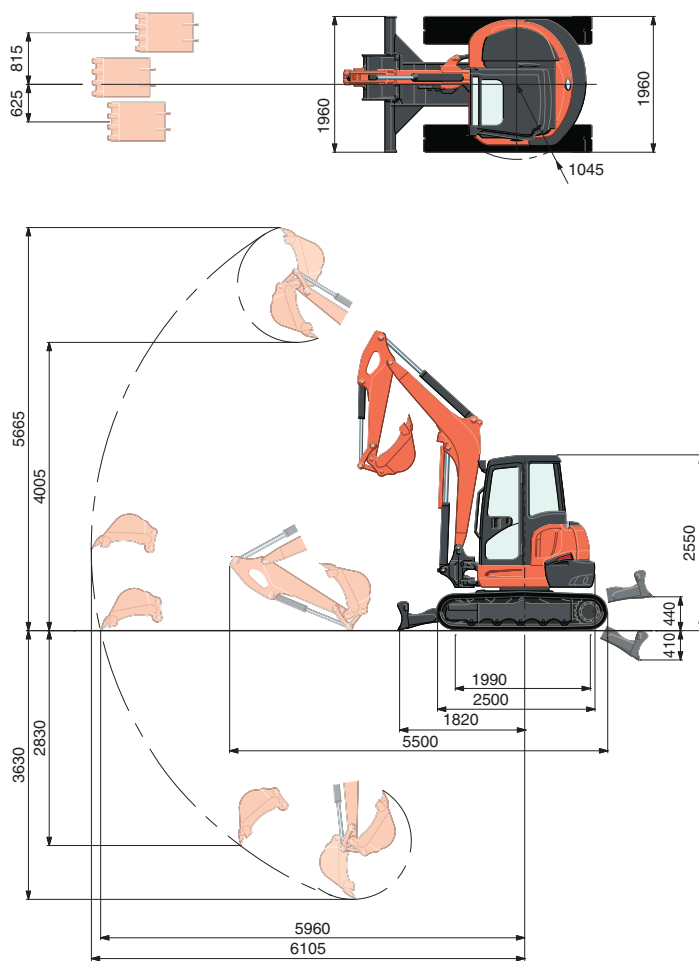
| Type | Air conditioning | AUX SP1/SP2 |
|------|------------------|-------------|
| L | ● | ● / ● |
| M | - | ● / ● |
| S | - | ● / - |

SPECIFICATIONS

*Rubber shoe type/JPN bucket

| | | | |
|---|------------------------|----------------------------|-----------------------------|
| Operating weight (cabin/with 120 kg bucket) | | kg | 5400 |
| Bucket capacity, std. SAE/CECE | | m ³ | 0.16/0.13 |
| Bucket width | With side teeth | mm | 650 |
| | Without side teeth | mm | 600 |
| Engine | Model | | V2607-DI |
| | Type | | Water cooled, diesel engine |
| | Output (ISO 9249 NET) | kW/rpm | 33.8/2200 |
| | | PS/rpm | 46.0/2200 |
| | Number of cylinders | | 4 |
| | Bore × Stroke | mm | 87 × 110 |
| Displacement | | cc | 2615 |
| Overall length | | mm | 5500 |
| Overall height | | mm | 2550 |
| Swivelling speed | | rpm | 9.3 |
| Rubber shoe width | | mm | 400 |
| Tumbler distance | | mm | 1990 |
| Dozer size (width × height) | | mm | 1960 × 410 |
| Hydraulic pumps | P1, P2 | | Variable displacement pump |
| | Flow rate | ℓ/min | 56.1 + 56.1 |
| | Hydraulic pressure | MPa (kgf/cm ²) | 27.4 (280) |
| | P3 | | Gear type |
| | Flow rate | ℓ/min | 37.0 |
| | Hydraulic pressure | MPa (kgf/cm ²) | 19.1 (195) |
| Max. digging force | Arm | kN (kgf) | 27.2 (2770) |
| | Bucket | kN (kgf) | 42.3 (4315) |
| Boom swing angle (left/right) | | deg | 70/55 |
| Auxiliary circuit (SP1) | Max flow rate | ℓ/min | 75 |
| | Max hydraulic pressure | MPa (kgf/cm ²) | 20.6 (210) |
| Auxiliary circuit (SP2) | Max flow rate | ℓ/min | 37 |
| | Max hydraulic pressure | MPa (kgf/cm ²) | 19.1 (195) |
| Hydraulic reservoir | tank/full | ℓ | 45/79 |
| Fuel tank capacity | | ℓ | 68 |
| Max. travelling speed | Low | km/h | 2.8 |
| | High | km/h | 4.9 |
| Ground contact pressure | | kPa (kgf/cm ²) | 30.5 (0.311) |
| Ground clearance | | mm | 310 |

WORKING RANGE



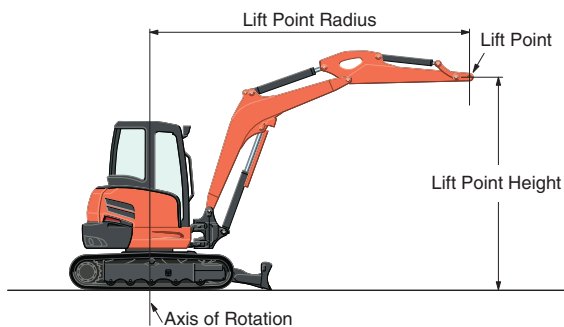
1570 mm arm
Unit: mm

LIFTING CAPACITY

Cabin, Rubber version

kN (ton)

| Lift Point Height | Lift point radius (min.) | | Lift point radius (1m) | | | Lift point radius (2m) | | | Lift point radius (3m) | | Lift point radius (4m) | | Lift point radius (max.) | | | | | |
|-------------------|--------------------------|-------------|------------------------|-------------|-------------|------------------------|-------------|-------------|------------------------|-------------|------------------------|-------------|--------------------------|------------|-------------|-------------|------------|------------|
| | Over-front | | Over-front | | Over-side | Over-front | | Over-side | Over-front | | Over-side | Over-front | | Over-side | | | | |
| | Blade Down | Blade Up | Blade Down | Blade Up | | Blade Down | Blade Up | | Blade Down | Blade Up | | Blade Down | Blade Up | | | | | |
| 3m | | | | | | | | | | | | | | | | | | |
| 2m | | | | | | | | | 17.8 (1.82) | 14.5 (1.48) | 11.8 (1.20) | 13.3 (1.36) | 9.2 (0.94) | 7.6 (0.78) | 10.6 (1.08) | 6.1 (0.62) | 5.1 (0.52) | |
| 1m | | | | | | | | | 23.1 (2.35) | 13.3 (1.36) | 10.7 (1.09) | 15.3 (1.56) | 8.7 (0.89) | 7.2 (0.73) | 11.3 (1.16) | 5.8 (0.60) | 4.9 (0.49) | |
| 0m | | | | | | | | | 24.4 (2.48) | 12.8 (1.30) | 10.2 (1.04) | 16.2 (1.65) | 8.4 (0.86) | 6.9 (0.70) | 11.6 (1.18) | 6.0 (0.61) | 5.0 (0.51) | |
| -1m | 14.4 (1.47) | 14.4 (1.47) | 14.4 (1.47) | 24.2 (2.47) | 24.2 (2.47) | 24.2 (2.47) | 30.0 (3.06) | 26.7 (2.72) | 19.7 (2.01) | 22.2 (2.27) | 12.7 (1.30) | 10.1 (1.03) | 15.1 (1.54) | 8.3 (0.85) | 6.8 (0.69) | 11.6 (1.18) | 6.8 (0.69) | 5.6 (0.57) |
| -2m | | | | | | | 25.0 (2.55) | 25.0 (2.55) | 20.2 (2.06) | 16.5 (1.68) | 13.0 (1.33) | 10.4 (1.06) | | | | | | |
| -3m | | | | | | | | | | | | | | | | | | |



Please note:

- * The lifting capacities are based on ISO10567 and do not exceed 75% of the static tilt load of the machine or 87% of the hydraulic lifting capacity of the machine.
- * The excavator bucket, hook, sling and other lifting accessories are not included on this table.
- * Standards EN474-1 and EN474-5 require the machine to be fitted with a safety valve on the boom cylinder and an overload warning buzzer for object handling operations.

- * Working ranges are with Kubota standard bucket, without quick coupler.
- * Specifications are subject to change without notice for purpose of improvement.

★ All images shown are for brochure purposes only.
When operating the excavator, wear clothing and equipment in accordance to local legal and safety regulations.

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