

MINI EXCAVATORS



Concrete solutions. Always

ES 28.2 ZT

Operating weight 2.700 - 2.850 kg
Engine Power 24,9 kW - 33,4 HP

 **EUROCOMACH**

LIKE THE GREATEST, JUST SMALLER.

DIMENSIONS

With zero tail swing, you get optimal performance in confined spaces working in complete safety, focusing solely on the excavation operation, even with the cab door open, as it remains within the profile of the tracks.



ZERO TAIL



All models can be equipped with four upright roll-bar protection or cab. The choice allows unmatched versatility: minimum footprint for maximum performance.

The ergonomic driver seat includes servo assisted controls, wrist rests and motion levers with closing pedals.

The foot rest pedals give the operator greater stability during the different work stages, especially when working on slopes.



COMFORT, SAFETY AND FUNCTIONALITY. FINALLY TOGETHER



COMMANDS AND CONTROLS

Both models have two motion modes: first gear with reduced speed and high thrust force and second speed with greater transfer speed. Everything is controlled by a practical button above the backfill blade lever.

Motion can be controlled using the advancement lever and integrated folding pedals that, once closed, increase the space available to the operator and prevent accidental use.

The foot board flush with the door makes for stepless exit from the cab and facilitates floor cleaning operations. It was designed to be able to be removed easily to carry out any inspections or checks.



STRAIGHT TRAVEL

In case of simultaneous control of the services and motion, the hydraulic system with variable displacement pumps simultaneously ensures the fluidity of movements and straight driving of the machine.



AUTO TWO SPEED

When the excavator needs more thrust force, the automatic speed transmission intervenes, reducing the motion ratio.

EVERY CONTROL IS IN YOUR HANDS.

The cabin, with its generous interior dimensions, offers some of the best interior space in its class. The large width of the access door makes it easy to climb in and out.

The front windshield with assisted lift promotes maximum visibility due to its considerable width.

The adjustable suspension seat combined with the floating cabin, adequately dampens vibrations and bumps, maximizing operator comfort.

The cab version is also equipped with a radio, glove compartment and battery charger.



AUX

For quick and easy machine operation, the tilting controls and auxiliary hydraulic system are located on the joysticks. In addition to them, on the right joystick, there is an additional roller with electrical hookup for a second auxiliary hydraulic system.



USB RADIO

The radio is equipped with a handy USB port.

VISIBILITY

The special design of the body and protective structures give the operator a wide field of vision, allowing easy control of the front tracked part.

The large windshield along with the upper rear window lets the operator keep an eye on the entire workarea while remaining comfortably seated.



WORK LIGHTS

A powerful light built into the arm optimizes visibility even with low lighting.

LOAD SENSING HYDRAULIC SYSTEM.

The efficient Load Sensing system saves fuel (up to 15%) with the suitable powerdistribution.

With the LS control, the pump only delivers the flow required by the system.

FLOW SHARING distributor: full simultaneous movements (all), even when the flow required exceeds the maximum pumpcapacity.

Optimal flow in each element thanks to the pressure compensators in each section.

High flexibility: the flow and pressure regulators provide high-speed during empty movements and high pressure while working.



FLEXIBILITY, COMPACTNESS, ERGONOMICS.

The practical additional external ballast (optional) can, when needed, further increase the excellent operating stability without compromising the overall size of the machine.

EFFICIENCY AND CONSUMPTION

The heart of the excavators are the efficient KUBOTA D1503-M and D1803-M engines designed and built to optimize performance and reduce fuel consumption. The long intervals between programmed maintenance contribute to economic efficiency, reducing costs and machine downtime.



SAFETY

Machine safety means operator peace of mind. Sensors monitoring the manipulator position prevent accidental control of the machine. The excavator startup system does not allow ignition when control of the commands is active. Safety belts, the cabin structure and rollbar with FOPS level I and TOPS certificate provide all of the safety needed in the cab in the event of an accident.

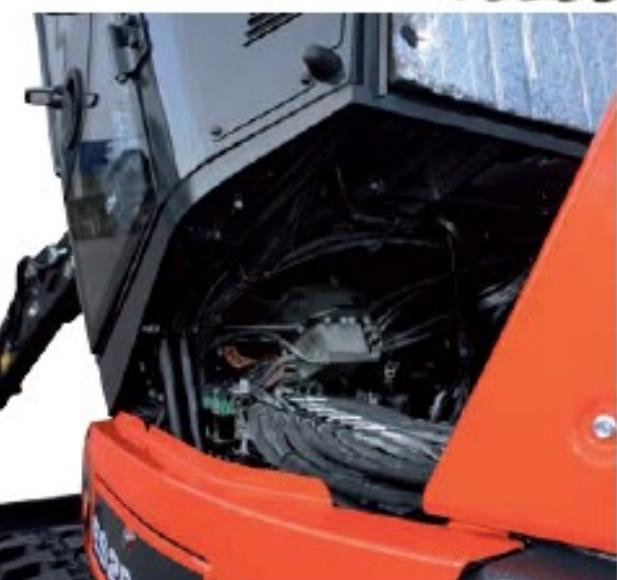


OPTIONAL COUNTERWEIGHT

MAINTENANCE HAS NEVER BEEN SO EASY.



Quick and easy tipping of the cab gives easy access to the distributor and the main components of the hydraulic system: just a few gestures for major added value.



ACCESSIBILITY

Easy routine maintenance simplifies service operations.

The rear bonnet allows quick cleaning of the radiator and access to the oil and fuel tank.



Services related to the heat engine are easily reached through a wide opening and the side compartment. All the filters (fuel, oil and air) in addition to checking and topping up the engine oil, are easily identified on the side.



All access points for daily checks and for routine maintenance are concentrated in defined areas, optimizing machine downtime.



ACCESSIBILITY

Common or dedicated access areas make every maintenance operation quick and easy.

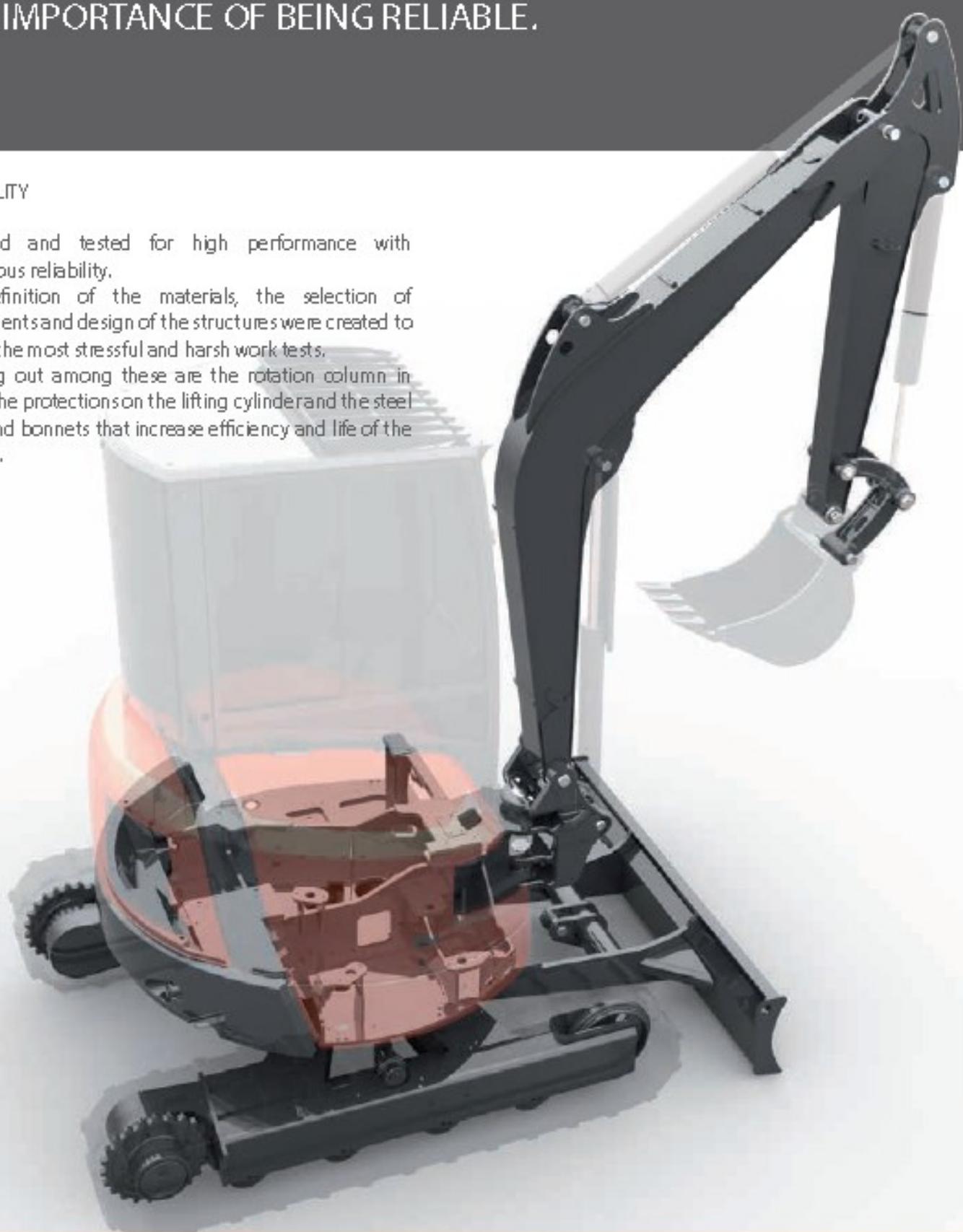
THE IMPORTANCE OF BEING RELIABLE.

RELIABILITY

Designed and tested for high performance with continuous reliability.

The definition of the materials, the selection of components and design of the structures were created to exceed the most stressful and harsh work tests.

Standing out among these are the rotation column in fusion, the protections on the lifting cylinder and the steel blade and bonnets that increase efficiency and life of the product.



PERFORMANCE

ECS: ONE CONCEPT, NUMEROUS POSSIBILITIES.

UTILITIES AND SERVICES

We listen to all your needs so we can propose the best possible machine solution.

We consider our products to be not only simple machines but the best opportunity for our clients.

Among the services provided, the following are available:

- Customized paint
- Various types of tracks
- Auxiliary line hookups customized by type and quantity
- Additional equipment

The many configurations available allow you to make the best choice in relation to the work to be performed.



SATELLITE MONITORING SYSTEM.

The image is a composite of two main parts. The upper portion shows a satellite in space, with its solar panels extended and a bright light source (likely the sun) behind it, creating a lens flare effect. The satellite is positioned above a view of Earth at night, where city lights are visible as glowing green and yellow streaks. The lower portion features a large computer monitor with a dark frame. On the screen, there is a graphic of a satellite in orbit around Earth, with a map of the world below it. The monitor sits on a desk, and a person's hand is visible on the right side, pointing towards the screen. The overall theme is space technology and monitoring.

EUROCOMACH GEOSERVICE

- Precise location of the machine on the Internet
- Antitheft device with alarm and notification via SMS/email
- High water temperature or low engine oil pressure alarm with notification via SMS/email
- Use time monitoring with alarm for service due

OPTIONALS.

The wide range of equipment especially designed for Eurocomach mini excavators ensures the most appropriate use of the machine, maximizing performance.

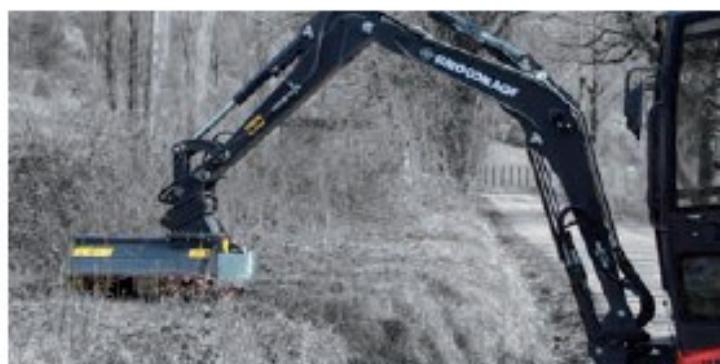
A complete offer of optional fittings ensures the best performance.



Certified and tested lifting hook and blocking valves with CE certification for material handling equipment



Additional front and rear protective grills with FOPS level II certification



Single/double effect hydraulic system with electrical containment (50 lt/min)



Electro-hydraulic proportional potentiometer to act the hydraulic system on both Joysticks



Customized paint

ES 40.2 ZT				ES 40.2 ZT				ES 40.2 ZT			
ES 35.2 ZT				ES 28.2 ZT				ES 28.2 ZT			
ES 28.2 ZT				CANOPY				ELECTRICAL SYSTEM			
Diesel engine, 3 cylinders, displacement 1499 cc, water cooled	•	•	/	4 upright rollbar ROPS - TOPS - FOPS (Level I)	○	○	○	Work lights on the lifting arm	•	•	•
Diesel engine, 3 cylinders, displacement 1806 cc, water cooled	/	/	•	Adjustable mechanical suspension seat	•	•	•	Supplementary work lights on the lifting arm	○	○	○
Electronic throttle with automatic idle speed system (Autotidle)	○	○	○	Adjustable pneumatic suspension seat	○	○	○	Supplementary front canopy/cap lights	○	○	○
Electric preheater	•	•	•	Safety Belt	•	•	•	Supplementary rear canopy/cap lights	○	○	○
Dry air filter with discharge valve and filter堵塞指示器	•	•	•	Wrist supports	•	•	•	Rotating light	○	○	○
Double cartridge air filter	•	•	•	Foot supports	•	•	•	Battery disconnect switch	•	•	•
Cartridge engine oil filter	•	•	•	Closable motion pedals	•	•	•	Watertight connectors (IP67)	•	•	•
Cartridge fuel filter	•	•	•	Comfort rubber footrest	•	•	•	UNDERCARRIAGE			
Fuel filter with transparent water separation container	•	•	•	Driver seat platform assembled on 4 vibration damping elastic supports	•	•	•	Backfill blade	•	•	•
Fuel tank discharge	•	•	•	Indicators for light for hydraulic filter and engine air intake filter clog	•	•	•	Dozer blade cylinder protective casing	•	•	•
Auxiliary liquid refrigerant expansion tank	•	•	•	Water temperature and fuel level indicators	•	•	•	Motion engine casing	•	•	•
CAB				Hour counter	•	•	•	Rotating joint protective casing	•	•	•
Cab ROPS - TOPS - ROPS (Level I)	•	•	•	High water temperature alarm	•	•	•	Rubber tracks	•	•	•
Adjustable mechanical suspension seat	•	•	•	Warning buzzer	•	•	•	Iron tracks	○	○	○
Adjustable pneumatic suspension seat	○	○	○	Single pole 12 volt power supply outlet	•	•	•	Rubber roadpad for iron tracks	○	○	○
Safety Belt	•	•	•	Glove compartment	•	•	•	4 anchoring points for transport	•	•	•
Wrist supports	•	•	•	SAFETY				UTILITY			
Foot supports	•	•	•	Machine blocking device during exit / access to the driver's seat	•	•	•	Anti theft system	○	○	○
Closable motion pedals	•	•	•	Engine ignition device only with the left console lowered	•	•	•	Geo-service system for locking and remote diagnostics	○	○	○
Comfort rubber footrest	•	•	•	Anti-slip climbing plate	•	•	•	Second excavating arm 1100 mm	•	/	/
Driver seat platform assembled on 4 vibration damping elastic supports	•	•	•	Climbing and descending handles	•	•	•	Second excavating arm 1,310 mm	○	/	/
Heating system with speed adjustment	•	•	•	Emergency bar	•	•	•	Second excavating arm 1,200 mm	/	*	/
Air-conditioning with manual adjustment	○	○	○	Rearview mirror kit	•	•	•	Second excavating arm 1,400 mm	/	○	*
Sliding right side window	•	•	•	Rearview camera kit with dedicated colour monitor	○	○	•	Second excavating arm 1,650 mm	/	/	○
Sliding left side window	•	•	•	Anti-drift safety valve on the first arm, second arm and backfill blade	○	○	•	Additional external counterweight	○	○	○
Windshield with assisted opening system (gas springs)	•	•	•	Pressure accumulator that allows the arm to be lowered in the event of an engine failure	•	•	•	Platform roll bar / lippable cab	•	•	•
Rolling sunblind	•	•	•	HYDRAULIC SYSTEM				Colour customizations (PAL specific)	○	○	○
Courtesy light	•	•	•	Load-sensing hydraulic system with variable capacity pump	•	•	•	4 anchoring points for lifting	•	•	•
Indicator light for hydraulic filter and engine air intake filter clog	•	•	•	ISO hydraulic servo-control	•	•	•	On-board visual fuel level indicator	•	•	•
Water temperature and fuel level indicators	•	•	•	Hydraulic oil intake filter	•	•	•	Fuel refill pump with automatic shutdown	○	○	○
Hour counter	•	•	•	Rotation parking brake	•	•	•	Lifting cylinder protective casing	•	•	•
High water temperature alarm	•	•	•	Motion parking brake	•	•	•				
Warning buzzer	•	•	•	Two-speed motion system	•	•	•				
Radio AM/FM USB	○	○	○	Automatic movement speed change (Shift-down)	•	•	•				
Single pole 12 volt power supply outlet	•	•	•	Single/double effect hydraulic system (e.g., hammer or drill) with electrical connection	•	•	•				
Front windshield wipers with sprayer and speed control	•	•	•	Hydraulic setup for calliper rotor (with switches on bucket cylinder)	○	○	○				
Glove compartment	•	•	•	AUX 2: System setup for calliper rotor with proportional electro-hydraulic control on the Right joystick							
Bottle holder	•	•	•								

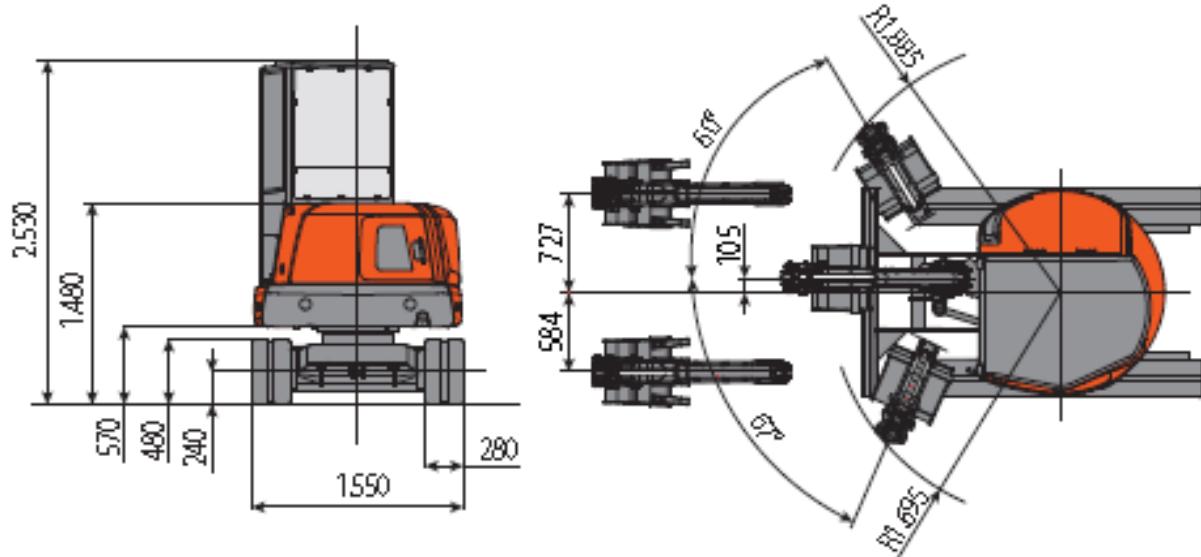
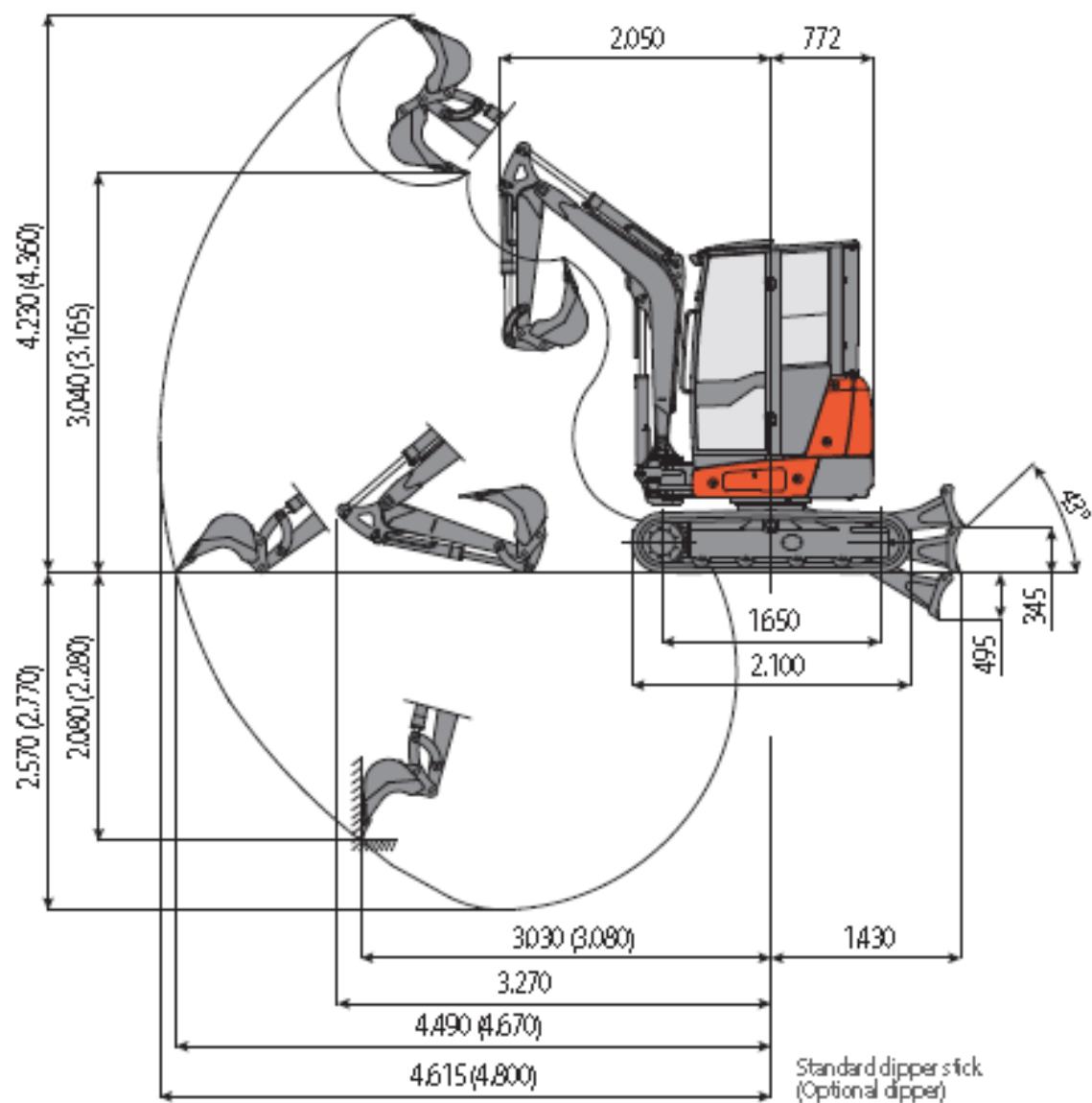
STANDARD EQUIPMENT

OPTIONAL EQUIPMENT

NOT AVAILABLE

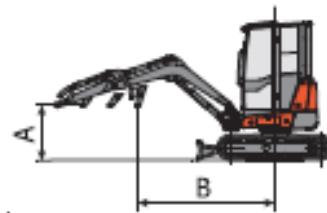
TECHNICALS SPECIFICATIONS

Operating weight with canopy (with rubber tracks)	kg	2.700
Operating weight with cabin (with rubber tracks)	kg	2.850
Travelling speed (AUTO TWO SPEED)	km/h	1.0 ÷ 2.5 / 2.0 ÷ 4.6
Slew speed	rpm	10
ENGINE		
Type	KUBOTA D1503-M	
Max Power (2.000 rpm)	kW - HP	24,9 - 33,4
Displacement	cc	1.499
Number of cylinders	n°	3
Cooling	water	
Consumption	lt/h	4,6
Alternator	V (A)	12 (40)
Battery	V (Ah)	12 (80)
HYDRAULIC SYSTEM		
Circuit Type	load sensing closed center system with flow sharing control valve	
Pump type	1 ls variable pump + 1 gear pump	
Pump displacement	cc	48 + 5
Pump capacity	lt/min	105 + 10
Max. circuit calibration pressure	bar	250
Auxiliary system:	Max capacity lt/min	90
	Max pressure bar	200
PERFORMANCES		
Max digging depth standard arm (optional arm)	mm	2.570 (2.770)
Max dumping height with cab standard arm (optional arm)	mm	3.400 (3.165)
Bucket breaking force (standard arm) ISO 6015	daN	2.400
Arm breaking force (standard arm) ISO 6015	daN	1.950
Traction force	daN	3.400
Ground bearing pressure with rubber tracks and canopy (with cabin)	kg/cm²	0,29 (0,31)
Max slope	60% - 30°	
DIMENSIONS		
Maximum width	mm	1.550
Total height	mm	2.530
Rear rotation radius	mm	772
Digging arm length std (optional)	mm	1.110 (1.310)
Tracks width	mm	280
Rollers number (for each side)	n°	4/1
FILLINGS		
Fuel tank	lt	46
Hydraulic oil tank	lt	30
Hydraulic circuit capacity	lt	54
Cooling system capacity	lt	7,5
Engine oil	lt	7
CONTROLS		
Boom, dipper stick, bucket and turner swing	2 pilot joysticks	
Track movements (included counter rotation)	2 pilot levers	
Dozer blade	1 pilot lever	
Auxiliary circuit (simple or double effect)	electropropotional switch on right joystick	
Boom swing	electropropotional switch on left joystick	



LIFTING CAPACITY

The lifting capacity is based on ISO 10567 and does not exceed 79% of the static tipping load or 87% of the hydraulic lifting capacity of the machine.



The straddle refers to the centre of rotation.

* Indicates the hydraulic load limit.

0 m refers to ground level.

The machine is understood to be equipped with a cab, rubbertracks, without a bucket and without a quick coupling.

Front Side Unitton

Blade raised, Standard Arm (1110 mm)

(*) the values in parentheses are with additional ballast 0.16 ton

A (m)	B (m)								
	1.0		2.0		3.0		MAX		
3.0					0,52 (0,6)	0,41 (0,49)	0,31 (0,38)	0,28 (0,35)	3,27 m
2.0 m					0,56 (0,64)	0,43 (0,51)	0,34 (0,4)	0,31 (0,37)	3,82 m
1.0 m					0,58 (0,66)	0,47 (0,55)	0,36 (0,41)	0,33 (0,38)	3,99 m
0 m			1,12 (1,12)	0,73 (0,87)	0,6 (0,68)	0,43 (0,51)	0,36 (0,42)	0,33 (0,39)	3,83 m
-1.0 m	1,76 (1,76)	1,34 (1,34)	1,14 (1,14)	0,81 (0,95)	0,61 (0,69)	0,41 (0,49)	0,37 (0,44)	0,33 (0,4)	3,26 m

Blade lowered, Standard Arm (1110 mm)

(*) the values in parentheses are with additional ballast 0.16 ton

A (m)	B (m)								
	1.0		2.0		3.0		MAX		
3.0 m					1,076 (1,076)	0,41 (0,49)	1,06 (1,06)	0,28 (0,35)	3,27 m
2.0 m					1,079 (1,079)	0,43 (0,49)	1,08 (1,08)	0,31 (0,37)	3,82 m
1.0 m					1,081 (1,081)	0,47 (0,55)	1,074 (1,074)	0,33 (0,38)	3,99 m
0 m			1,12 (1,12)	0,73 (0,87)	1,08 (1,08)	0,43 (0,55)	1,073 (1,073)	0,33 (0,39)	3,83 m
-1.0 m	1,76 (1,76)	1,34 (1,34)	1,14 (1,14)	0,81 (0,95)	1,076 (1,076)	0,41 (0,51)	1,076 (1,076)	0,33 (0,4)	3,26 m

Blade raised, Optional Arm (1310 mm)

(*) the values in parentheses are with additional ballast 0.16 ton

A (m)	B (m)								
	1.0		2.0		3.0		MAX		
3.0 m					0,51 (0,59)	0,4 (0,48)	0,25 (0,32)	0,22 (0,29)	3,52 m
2.0 m					0,55 (0,63)	0,42 (0,5)	0,28 (0,34)	0,25 (0,31)	4,03 m
1.0 m					0,57 (0,65)	0,46 (0,54)	0,29 (0,35)	0,26 (0,32)	4,19 m
0 m			1,11 (1,11)	0,72 (0,86)	0,59 (0,67)	0,42 (0,5)	0,3 (0,36)	0,27 (0,33)	4,04 m
-1.0 m	1,77 (1,77)	1,38 (1,38)	1,13 (1,13)	0,79 (0,94)	0,6 (0,68)	0,4 (0,48)	0,31 (0,38)	0,27 (0,34)	3,53 m

Blade lowered, Optional Arm (1310 mm)

(*) the values in parentheses are with additional ballast 0.16 ton

A (m)	B (m)								
	1.0		2.0		3.0		MAX		
3.0 m					1,075 (1,075)	0,4 (0,48)	1,053 (1,053)	0,22 (0,29)	3,52 m
2.0 m					1,076 (1,076)	0,42 (0,48)	1,055 (1,055)	0,25 (0,31)	4,03 m
1.0 m					1,078 (1,078)	0,46 (0,5)	1,068 (1,068)	0,26 (0,32)	4,19 m
0 m			1,11 (1,11)	0,72 (0,86)	1,076 (1,076)	0,42 (0,54)	1,067 (1,067)	0,27 (0,33)	4,04 m
-1.0 m	1,77 (1,77)	1,38 (1,38)	1,13 (1,13)	0,79 (0,94)	1,075 (1,075)	0,4 (0,5)	1,07 (1,07)	0,27 (0,34)	3,53 m