

CONCRETE SOLUTIONS. ALWAYS



ES 85 ZT
ES 85 SB
ES 90 UR
ES 95 TR

Engine 4TNV98
Engine power 46,3 kW - 63,2 HP
Operating weight 9.000 kg

Engine 4TNV98
Engine power 46,3 kW - 63,2 HP
Operating weight 8.300 kg

Engine 4TNV98
Engine power 46,3 kW - 63,2 HP
Operating weight 9.100 kg

Engine 4TNV98
Engine power 46,3 kW - 63,2 HP
Operating weight 9.900 kg

 **EUROCOMACH®**

FEARS NO COMPETITION





ES 85 ZT - Engine power HP 63.2 - Operating weight kg 9.000



ES 95 TR - Engine power HP 63.2 - Operating weight kg 10.220



Plus Points Eurocomach

- 5** "True zero tail swing", turning through 360 ° in just 3.11 m and keeping the boom swing tower almost within the tracks
 - 6** 16 valve engine with electronically controlled external water-cooled EGR (complies with emission control regulations until 2016)
 - 7** Advanced Load sensing hydraulics with reduced flow rate at minimum and maximum pressure (25% reduction in fuel consumption)
 - 8** Radiators in "parallel" with suction fan for increased cooling efficiency
 - 9** Excellent visibility (looking up, over track and on the right of the dozer blade)
 - 10** "Floating" side consoles with "double sliding" seat (Independent adjustments without vibrations transmitted from the deck)
- Closed centre, Flow Sharing control valve** (precise simultaneous movements regardless of load and engine speed)
- Side mounted engine, rear control valve and tanks** (reductions in length of pipes and loss of pressure)
- Electro-proportional controls for accessories and swing** (including triple articulation and demolition breaker, cutter head and cutter)

FEATURES

- 1** Exceptional versatility with 4 Versions (monobloc, with or without swing, triple articulation, side digging boom). Three undercarriages (5 roller, 6 roller, adjustable up to 3m wide). Three counterweights (standard, additional internal or external)
- 2** Lifting cylinder of large diameter and high pressure for excellent lifting capacity: 2860 kg (blade up, 360°, 3m, 0H)
- 3** Low centre of gravity, wide track, unique features: pulling power at tracks 7809 daN, torque and rotation speed 2106 daN with 12 rpm
- 4** Exceptional transportability, including in container with a 2.56 m cab



Extremely unobstructed deck (with handy footrests)

Easy to read electronic dashboard (malfunction and maintenance signals, fault memory)

- 11** **Satellite Geoservice as standard** (checks of locating, operating status, machine diagnostic functionality) **with alarm notification via email or telephone**

- 12** **Electronic fuel pump** (as standard)

- 13** **Low boom offset** (less strain on the swing bearing)

Hydraulically dampened end of travel on swing and safety valve to prevent leakage

- 14** **Automatic gear downshift** under strain

- 15** **Battery with rare charge indicator**

Lower protection on swivel joint (as standard)

- 16** **Strong sheet metal covers with automatic closure**

Customised paintwork

Fine details and finishes

Care taken over layout, supports and protection of the electrical and hydraulic circuits, for resale value



Unparalleled versatility



Version ES 85 ZT with swing

- the basis of the "true" zero tail swing Midi Excavator for working with no worries about what's behind



Version ES 95 TR with swing and triple articulation

- greater digging depth
- higher working height
- digging near to the vehicle
- vertical wall near to the vehicle
- lifting near to the vehicle



Customised paintwork



Variable track (up to 3 m)

- exceptional increase in stability
- normal width for transportation (2.32 m)



Exclusive 6 rollers steel track with central guide

- lower specific pressure, longer life of the chassis and greater comfort for the operator





Version ES 90 UR offset boom at the side of cabin

- specifically for side digging
- "total" zero tail swing (booms, bucket and rear of turret)



Plate
fixed to
the boom

Hydraulic quick coupling plate: the plate fixed to the boom guides the supply pipeline and, depending on the bucket position, (open or closed) rises or lowers. The system allows any hydraulic quick coupling available on the market to be used.



Version ES 85 SB boom at the side of cabin

- a traditional excavator, but with zero tail swing



Various ballasts to increase stability but without compromising space requirements (internal ballast)



Additional standard hydraulic functions

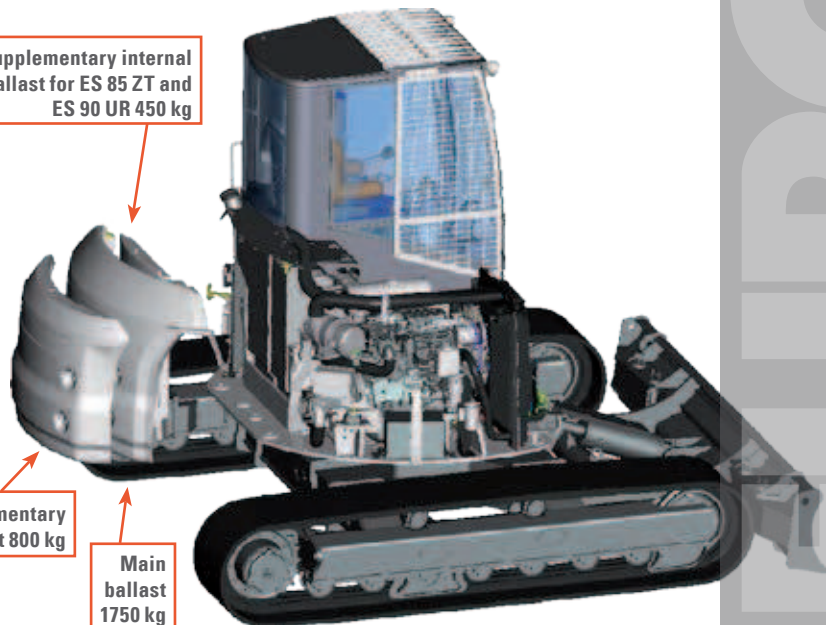
- demolition breaker and aguger (1 or 2 way)
- cutters and crushers (1 way, 100 l/min at 200 MPa constant)
- swinging buckets (2 way low capacity)
- grabs with rotor (2 way with flow diverter from the bucket)



Supplementary internal
ballast for ES 85 ZT and
ES 90 UR 450 kg

Supplementary
ballast 800 kg

Main
ballast
1750 kg

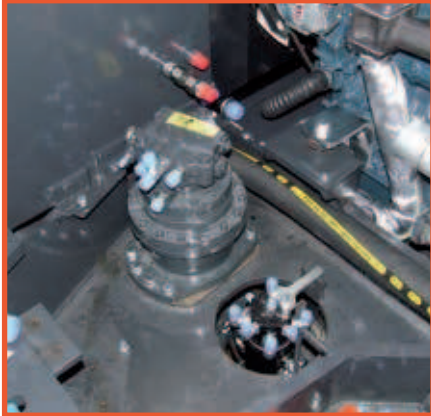




Top of the category performance



Torque and rotation speed at the top of the category 2106 daN and 12 rpm



High rotation speed also in slope.



- functional counter-rotation on compacted or frozen ground
- automatic gear downshift under strain



Exceptional 7809 daN pulling power



90 mm bucket
cylinder diameter

 **Large cylinders with high hydraulic pressure (29 MPa) wide track and low centre of gravity for high performance**

Dipper stick cylinder diameter
100 mm
Driving force 4267 daN

 **The only machine in its category with a 120mm lifting cylinder**

 **Nothing lifts more in its category: 2860 kg (dozer blade up, 360°, 3m, on the ground)**

Low centre of gravity
99 cm

98 cm

70 cm

The only machine in its category with a **140 mm** blade cylinder

2,32 m



Intelligent architecture in terms of space



**Minimum required
space of swing,
rotation inside the
tracks**



To rotate with all the equipment
within the tracks there is the version
ES 90 UR

3,11 m

3 cm

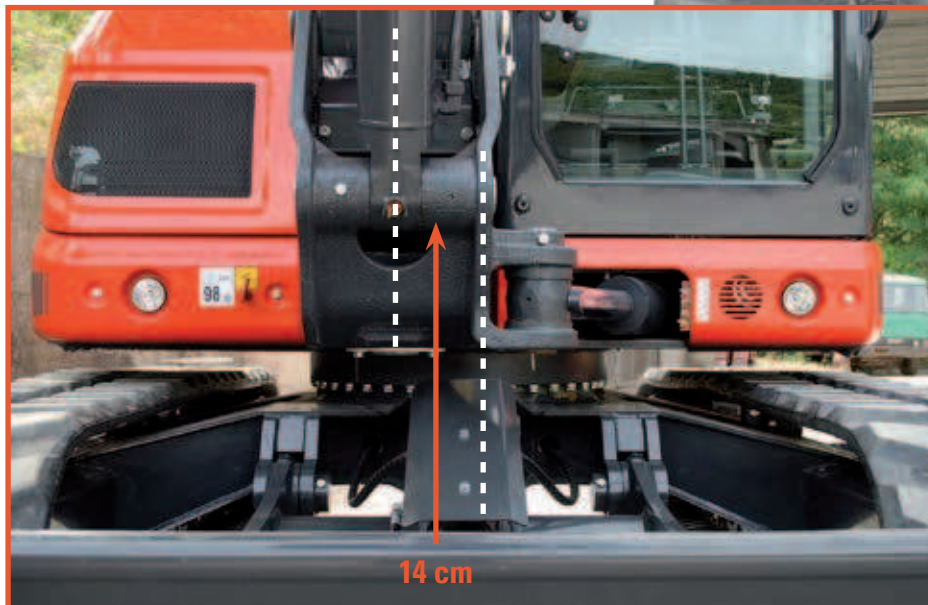


**A true “zero tail swing”
that turns in just 3,11 m...**



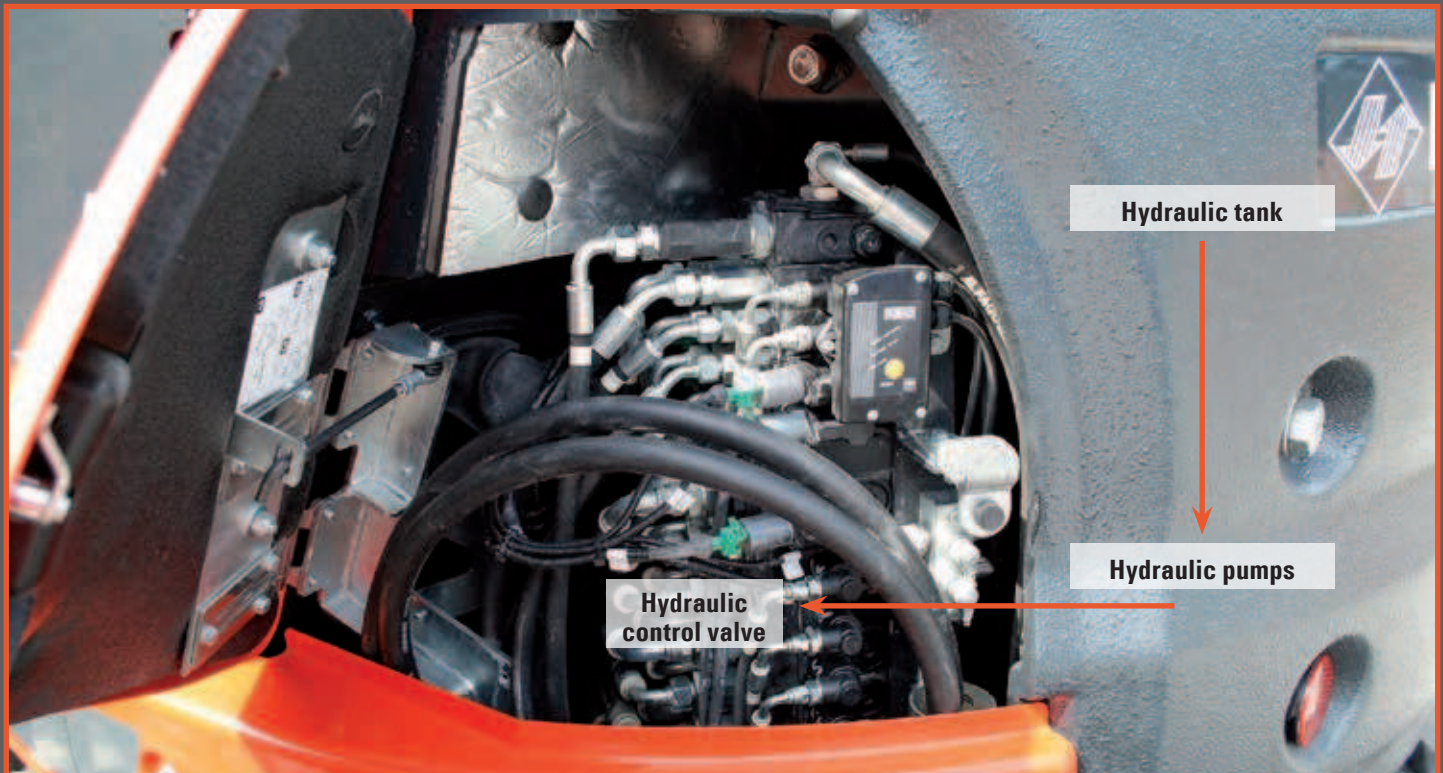
 **Cab designed for excellent transportability including in container**

 **Minimum disalignment of swing, less stress for slewing bearing**



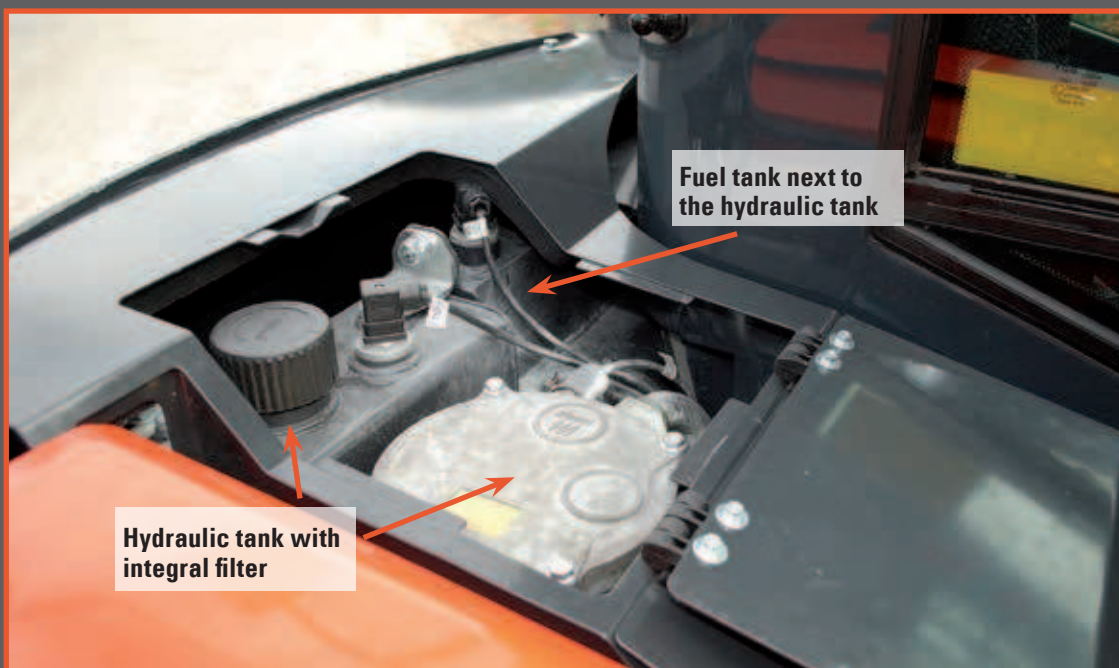
INTELLIGENT DESIGN... to keep consumptions down

the close proximity of the tank, pump and hydraulic control valve reduces loss of pressure with shorter and better arranged pipes (reliability and efficiency)



INTELLIGENT DESIGN... to cut down heat

The side mounted engine “detached” from the cab, just like the hydraulic oil tank and the control valve at the rear (not under the deck), prevent the heat transmission to the driving station.



Beneath the deck are just electrical parts and the air filter which do not “heat” the footplate.



MONO PUMP WITH "TRUE" LOAD SENSING ADJUSTMENT... to reduce consumption by 25%



Reduced flow rate with joysticks in neutral

With the joysticks not being used the pump automatically reverts to almost zero displacement, saving fuel, without unnecessarily drawing oil from the tank. This regulation is impossible on fixed displacement or gear pumps.



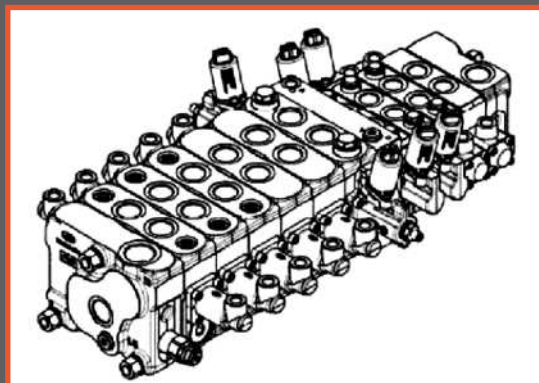
Reduced flow rate at maximum pressure

"True" Load sensing adjustments operate the pump at almost zero displacement when maximum pressure has been reached too: in this way no oil is leaked through the relief valves when attempts are made to carry out excavations that are too demanding. The power saved is equal to the total vehicle rating (46.3 kW), this heat is not therefore dissipated into the hydraulic oil, saving more fuel.



COMPENSATED, CLOSED CENTRE, FLOW SHARING CONTROL VALVE...

The side mounted engine is separated from the cab in all versions. The deflector and sound insulating baffles inside the cover send the heat of the radiator fan towards the rear of the machine. Appropriately, only the front side window slides open, furthest away from the ventilation grill.



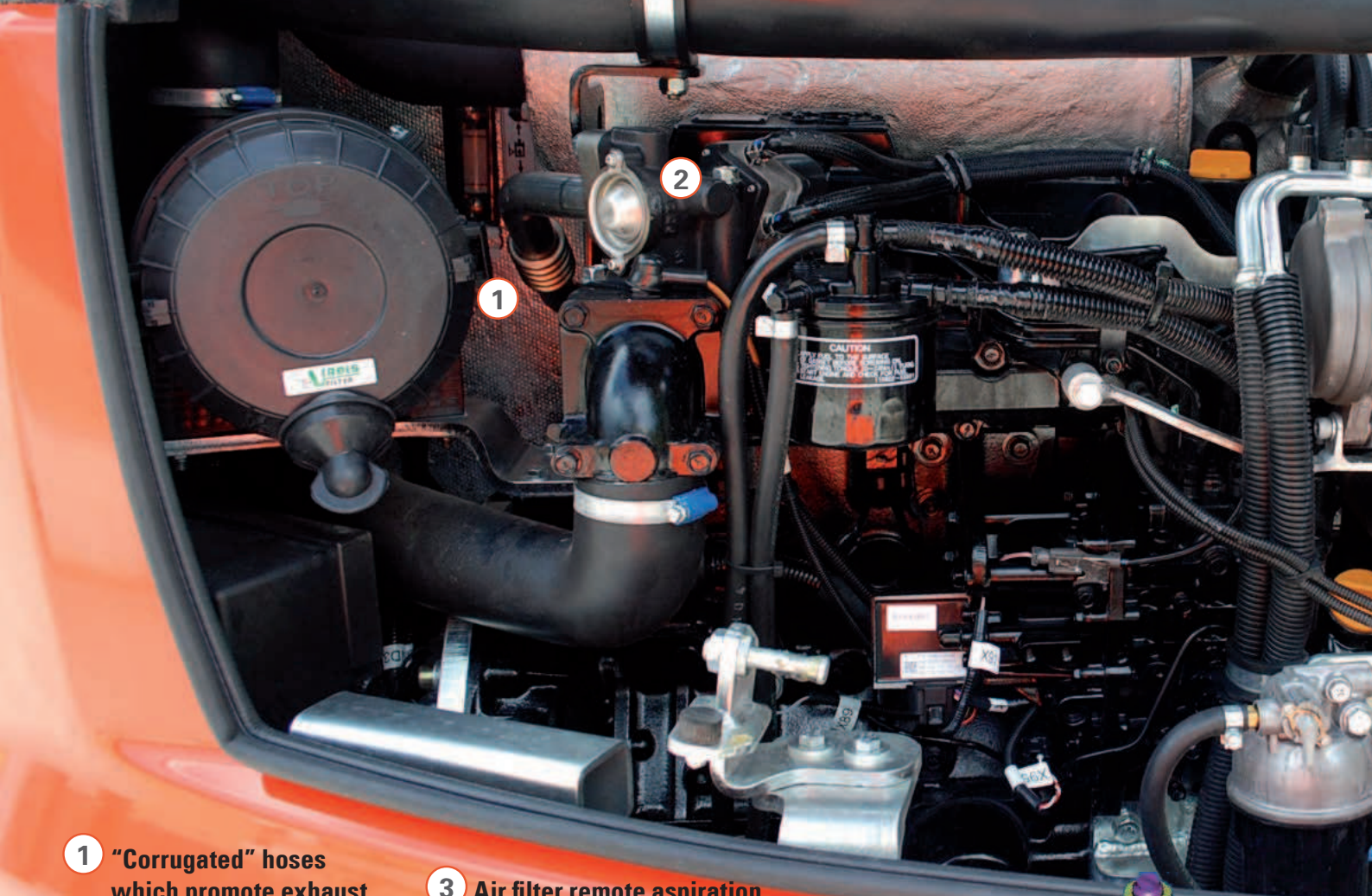
The bucket moves at a speed consistent with the distance the joystick travel.

The controls, even operated simultaneously, are directly proportional to the travel of the joysticks and are therefore independent of the load on the equipment and the engine speed. This results in very precise driving, in the simultaneous execution of several movements.



YANMAR 46.3 KW engine

**AUTOMATICALLY RETURNS TO IDLING SPEED AS STANDARD
(COMPLIES WITH EMISSION CONTROL REGULATIONS UNTIL 2016)**



- 1 "Corrugated" hoses which promote exhaust gas (EGR) cooling without fluids
- 2 Gas re-circulation control solenoid
- 3 Air filter remote aspiration in front of radiators
- 4 Double expansion tank (in sheet metal with visual level indicator and in clear plastic)



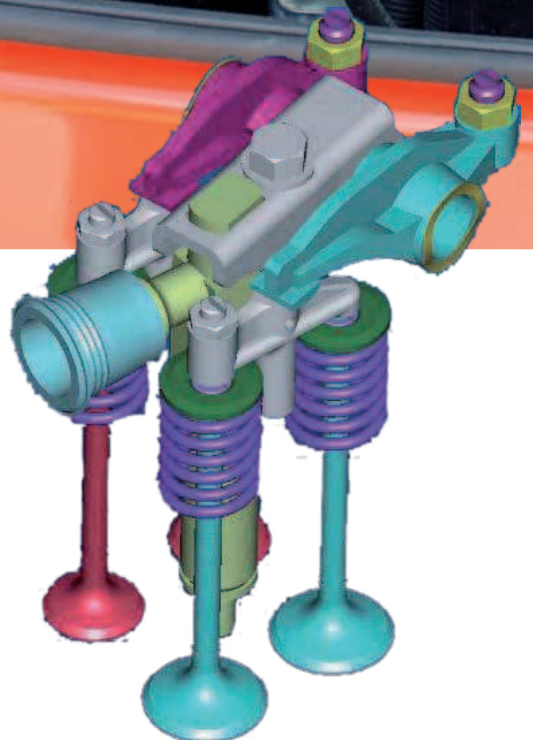
4 valves per cylinder

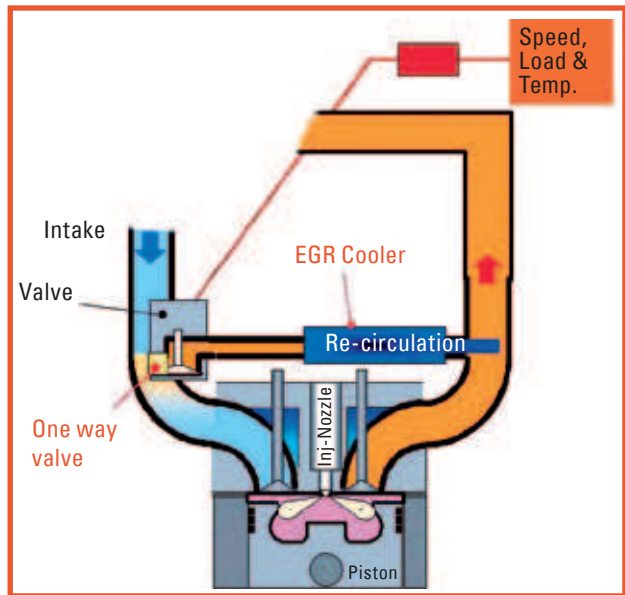
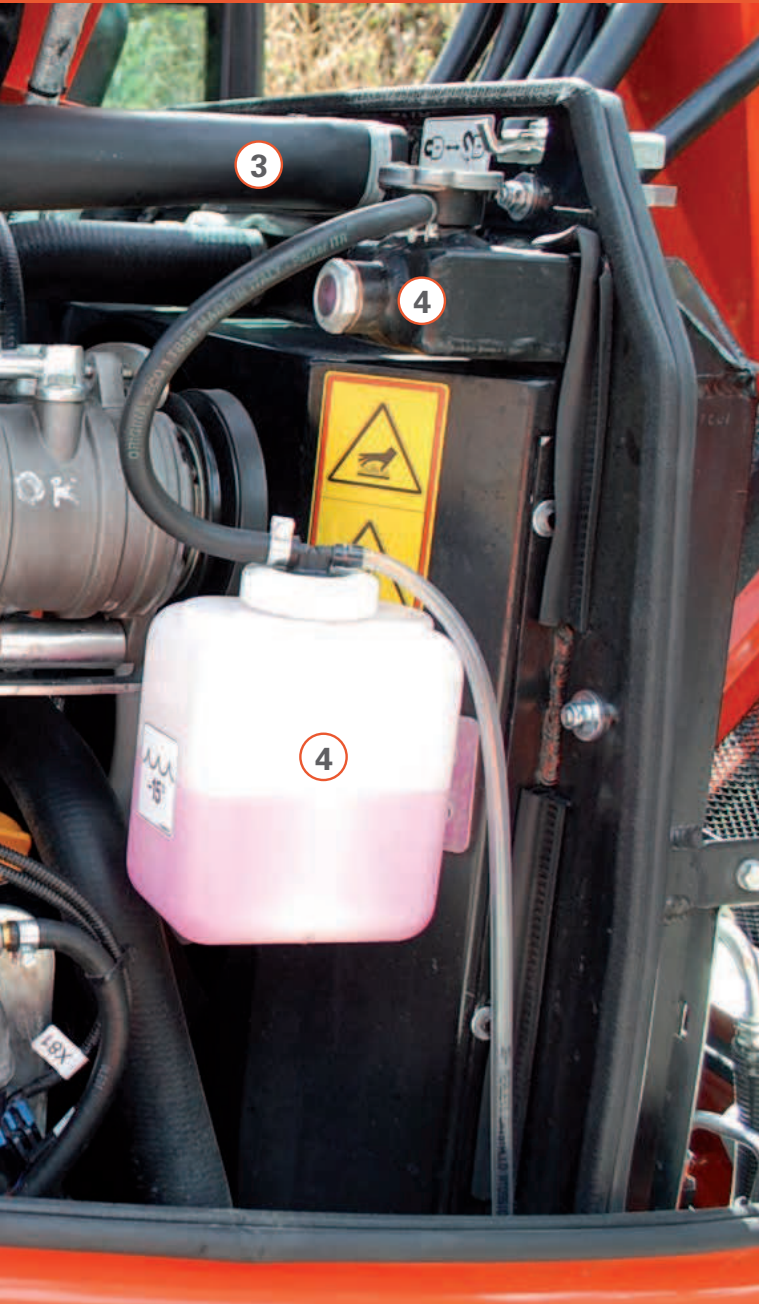
Allow greater torque at low speed and improve combustion under effort.



Self-protection from overloads

If the on board sensors detect low engine oil lubrication pressure or an excessive coolant temperature, the engine computer reduces the engine speed to 1,400 rpm until the irregularity ceases.





EGR control

(Exhaust Gas Recirculation)

The purpose of EGR: the recirculation of exhaust gas (by now inert), by reducing the combustion temperature, limits the emission of Nitrous Oxide (NOx – a toxic gas) which is proportional to it.

Advantages of electronically controlled EGR, with external cooled recirculation (compared to systems with continuous circulation, internal and not cooled):

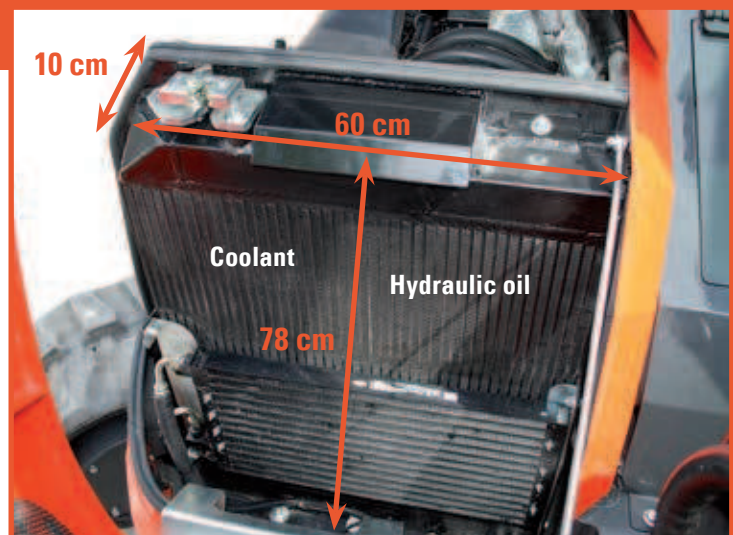
- wear on exhaust valves is halved (they do not open twice per cycle)
- stable idle speed (gas is not recirculated in the cycles poor in oxygen)
- less recirculation (because the gas is cooled)



Suction fan (MORE EFFICIENT)



Large radiators “in parallel”





Quality, Efficiency and Constructional



CAST EXTERNAL SWING UNIT

Casting avoids complex welds in stressed areas (reliability).



Pipes "screwed" to the cylinder connections (not welded) making it easier to replace them if damaged.



The hydraulically dampened end of travel on the swing prevents stress to the structures and promotes driving comfort. The safety valve on the swing facilitates high rotation torque.



FRICION WELDING OF THE HEADS TO THE CYLINDER RODS

Heads welded to the rods by "Friction" (welding of the solid section by casting, instead of simple welding of the outer circle) increases cylinder reliability and prevents coaxiality errors, which then damage the seals and create torsions.



The grease nipples on the connecting rods instead of the pins reduce the pumping stress (hardened grease) and do not weaken the solid section of the pin (reliability).



Alternating double and single flange rollers help to align the track on slopes. "Vertical" bolting of rollers to the chassis is typical of medium-large size excavators.



Strength



DETAILS FOR RELIABILITY, RESALE VALUE AND SAFETY



Waterproof membrane that prevents rust from forming in the exhaust pipe.



IP67 watertight electrical connections.



Accurate grinding of welded parts and cab bars.



Sensor that indicates by means of a light if there is water in the filter.



Practical internal handle for lowering the cover.

CARE TAKEN IN THE LAYOUT OF ELECTRICAL AND HYDRAULIC CIRCUITS AND THE FUEL SUPPLY



Protective panels over swivel joint.



Linings fixed with press studs (not just glued in place).



Anti-wear supports for corrugated cable sheaths.



Heat shrink sleeves for protection.



Protection where pipes are routed through the chassis.



Precision and comfortable driving



Sliding window



Excellent 360° visibility (over tracks, dozer blade and looking up)





←
**Radio as
standard**



Self winding sun shade.



Rear left sliding glass panel.



2 lights for the work area on the turret and 1 protected light under the boom.



Easily accessible main air filter.



Air conditioning as standard

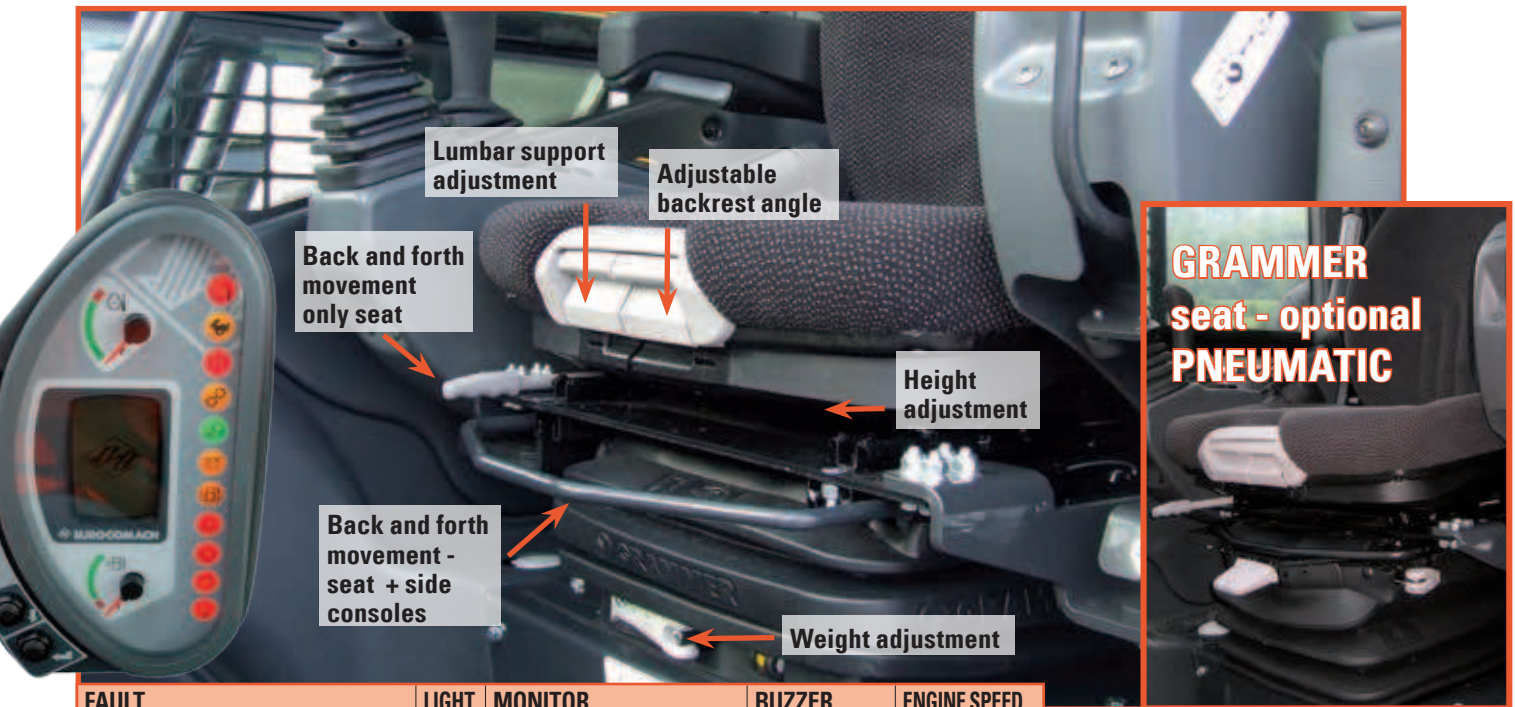


Compartment inside cab for storing items and air circulation filter.



FLOATING SEAT AND SIDE CONSOLES WITH INDEPENDENT ADJUSTMENT

Vehicle vibrations are not transmitted to the joysticks (precision driving)



FAULT	LIGHT	MONITOR	BUZZER	ENGINE SPEED (g/min)
Engine water high temperature	YES	Fault message with number code	Intermittent	1400
Engine oil low pressure	YES	Fault message with number code	Intermittent	1400
Engine air filter blockage	YES	Fault message with number code	Intermittent	1400
Water in fuel separator	NO	Explicit fault message	Intermittent	-
Broken throttle potentiometer	NO	Explicit fault message	Intermittent	1400
Low hydraulic oil level	NO	Explicit fault message	Intermittent	-
Anti-collision	NO	Explicit fault message	Continuous intermittent	-



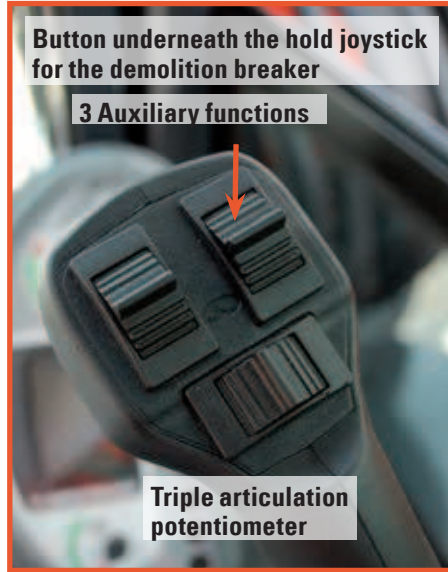
Electronic dashboard

Facilitates diagnostics and maintenance with indicator lights, buzzers and coded or explicit messages on faults and periodic maintenance. Fault history, indication of blocked filters and low hydraulic oil level.





ELECTRO-PROPORTIONAL CONTROLS FOR ACCESSORIES, SWING AND TRIPLE ARTICULATION



DECK FREE FROM OBSTRUCTIONS



Inertia-reel seat belt.



Rear view mirror.



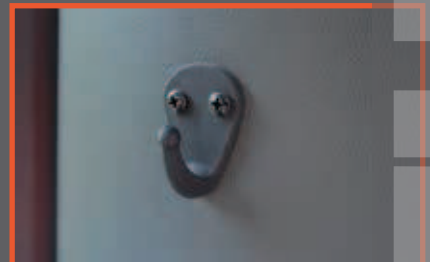
12 Volt socket.



Bulkhead light.



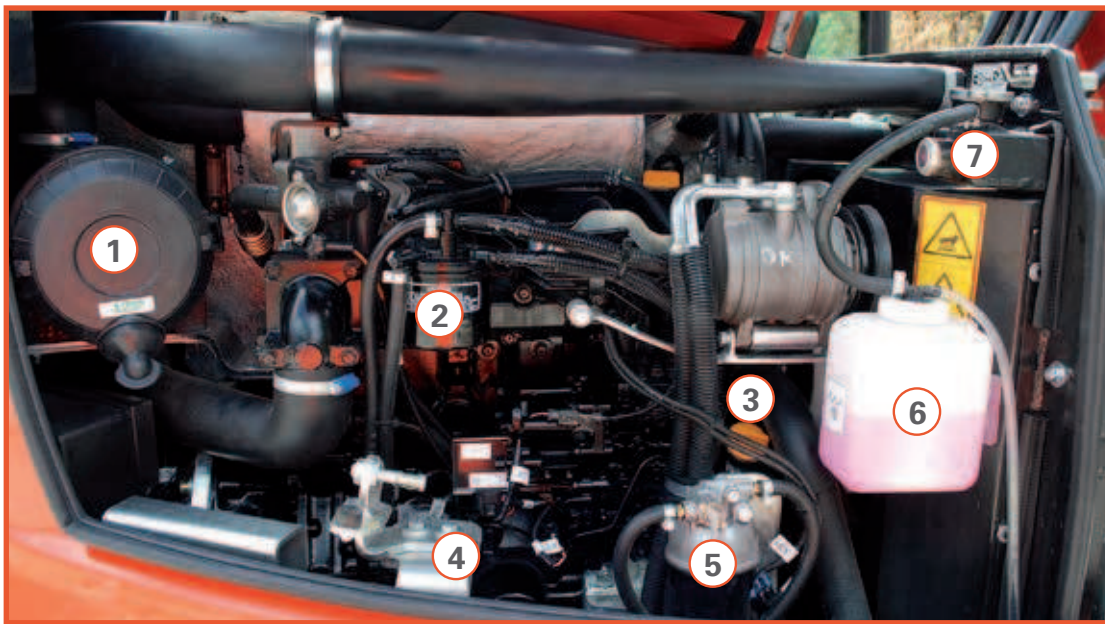
Bottle/glass holder and rear air vents.



Clothes hook.



EASY MAINTENANCE AND HIGH PERFORMANCE



- ① Air filter
- ② Fuel filter
- ③ Engine oil filler cap
- ④ Engine oil filter
- ⑤ Water/diesel separator filter with impurity sensor (dashboard light) and quick drain tap
- ⑥ Clear plastic expansion tank
- ⑦ Metal expansion tank with visual level indicator



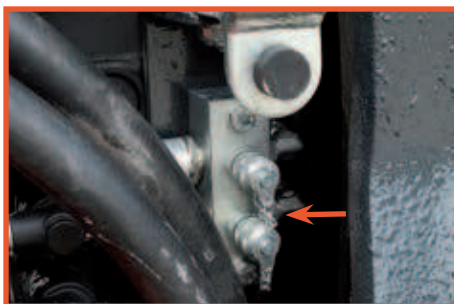
Battery isolator key to prevent battery running down during long downtimes.



Fuses in a waterproof compartment and connection for external computer diagnostics.



Compartment for frequently used tools.



Hydraulic pump pressure quick connectors.



Maintenance free battery with charge indicator. Self-bleeding electric pump to bleed air from the injection system.



Accumulator to allow pressure discharge from auxiliary pipelines with the engine off.



Fuel pump with automatic cut-off if over-full or no diesel in drum.



The screenshot shows the EuroCom.ACH g2B-service web application. The interface is in German. At the top, there is a navigation bar with the EuroCom.ACH logo and the text 'g2B-service'. Below the navigation bar, there are several tabs: 'Home', 'Suche', 'Neu', 'Bearbeiten', and 'Löschen'. The main content area is divided into two sections. On the left, there is a sidebar with a search bar and a list of transactions. On the right, there is a detailed view of a selected transaction, showing a table of data and a summary of the transaction details.

The sidebar on the left contains a search bar and a list of transactions. The main area on the right displays a detailed view of a transaction, including a table of data and a summary of the transaction details.

The table in the main area has the following columns: 'Kontennummer', 'Kontenname', 'Kontenart', 'Kontenstatus', 'Kontenbeschreibung', 'Kontenadresse', 'Kontenstadt', 'Kontenland', 'Kontenplz', 'Kontenfax', 'Kontenemail', 'Kontenweb', 'Kontenlogo', 'Kontenfavicon', 'Kontenbanner', 'Kontenbanner2', 'Kontenbanner3', 'Kontenbanner4', 'Kontenbanner5', 'Kontenbanner6', 'Kontenbanner7', 'Kontenbanner8', 'Kontenbanner9', 'Kontenbanner10', 'Kontenbanner11', 'Kontenbanner12', 'Kontenbanner13', 'Kontenbanner14', 'Kontenbanner15', 'Kontenbanner16', 'Kontenbanner17', 'Kontenbanner18', 'Kontenbanner19', 'Kontenbanner20', 'Kontenbanner21', 'Kontenbanner22', 'Kontenbanner23', 'Kontenbanner24', 'Kontenbanner25', 'Kontenbanner26', 'Kontenbanner27', 'Kontenbanner28', 'Kontenbanner29', 'Kontenbanner30', 'Kontenbanner31', 'Kontenbanner32', 'Kontenbanner33', 'Kontenbanner34', 'Kontenbanner35', 'Kontenbanner36', 'Kontenbanner37', 'Kontenbanner38', 'Kontenbanner39', 'Kontenbanner40', 'Kontenbanner41', 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Operating machine hours:
you have control of uptime
and downtime of the
machine.

TECHNICALS SPECIFICATIONS

<https://truckmanualshub.com/>

Operating weight (with rubber track)	kg	9.000
Operating weight (with steel track)	kg	9.320
Max travelling speed	km/h	2,6 - 5,2
Slew speed	rpm	12

ENGINE

Type		YANMAR 4TNV98
Power (2.200 rpm)	kW- HP	46,3 - 63,2
Displacement	cc	3.319
Number of cylinders	n°	4
Cooling		water
Consumption	lt/h	8,7
Alternator	V (A)	12 (40)
Battery	V (Ah)	12 (100)

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	84+ 9
Pump capacity	lt/min	185 + 20
Max. circuit calibration pressure	bar	290 - 200 - 35
Low flow (high flow) auxiliary circuit:		
Max capacity	lt/min	40 ÷ 60 (100)
Max pressure	bar	290 (200)

PERFORMANCES

Bucket breaking force (standard arm) ISO 6015	daN	5.500
Arm breaking force (standard arm) ISO 6015	daN	4.350
Traction force	daN	7.960
Ground pressure with canopy (with rubber tracks)	kg/cm²	0,43
Max slope		60% - 30°

DIMENSIONS

Total width	mm	2.320
Max dumping height with cab standard arm (optional arm)	mm	4.660 (4.870)
Total height	mm	2.560
Rear rotation radius	mm	1.155
Max digging depth standard arm (optional arm)	mm	4.270 (4.620)
Digging arm length std (optional)	mm	1.760 (2.110)
Tracks width	mm	450
Rollers number (for each side)	n°	5/1 (rubber track) 6/1 (steel track)

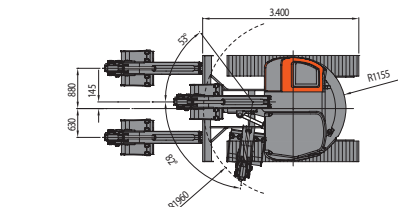
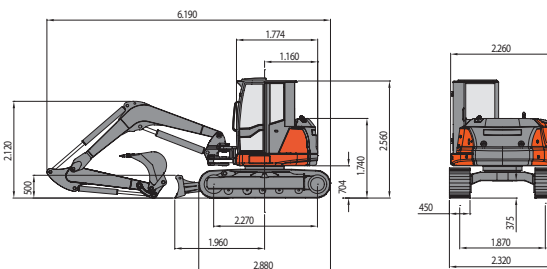
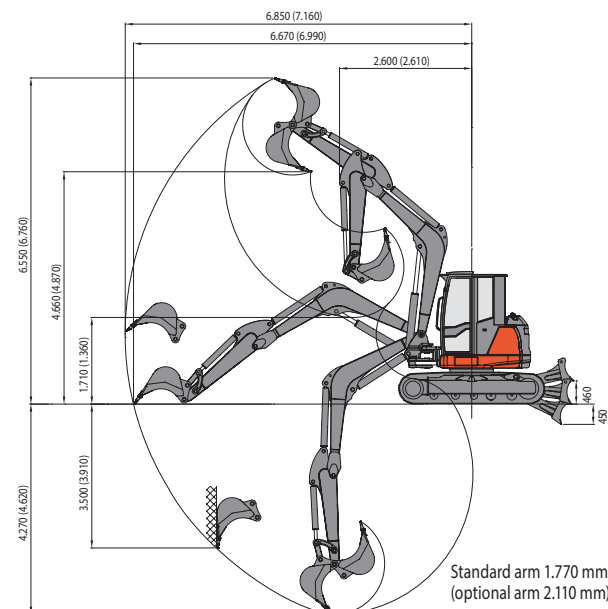
FILLINGS

Fuel tank	lt	105
Hydraulic oil tank	lt	90
Hydraulic circuit capacity	lt	120
Cooling system capacity	lt	25
Engine oil	lt	10

CONTROLS

Boom, dipper stick, bucket and turret swing	2 pilot joysticks
Tracks movement (included counter rotation)	2 pilot levers
Dozer blade	1 pilot lever
Auxiliary circuit (simple or double effect)	electroproportional switch on right joystick
Boom swing	electroproportional switch on left joystick

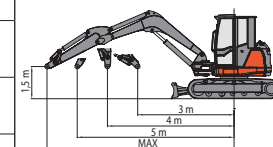
ES 85 ZT



LIFTING CAPACITY

Opening arm from the rotation's center (m)
Lifting capacity (kg) at 1.5 m height

	3	4	5	MAX
Frontal and lowered dozer blade	4495	3045	2350	2085
Frontal and lifted dozer blade	2810	1760	1310	1000
Lateral	2860	1880	1320	1000



The lifting capacity is based on the ISO 10567 and it does not exceed more than the 75% of static tipping load or more than the 87% of the hydraulic lifting capacity of the machine.

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TECHNICALS SPECIFICATIONS

<https://truckmanualshub.com/>

Operating weight (with rubber track)	kg	9.900
Operating weight (with steel track)	kg	10.220
Max travelling speed	km/h	2,6 - 5,2
Slew speed	rpm	12

ENGINE

Type		YANMAR 4TNV98
Power (2.200 rpm)	kW- HP	46,3 - 63,2
Displacement	cc	3.319
Number of cylinders	n°	4
Cooling		water
Consumption	lt/h	8,7
Alternator	V (A)	12 (40)
Battery	V (Ah)	12 (100)

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	84+ 9
Pump capacity	lt/min	185 + 20
Max. circuit calibration pressure	bar	290 - 200 - 35
Low flow (high flow) auxiliary circuit:		
Max capacity	lt/min	40 ÷ 60 (100)
Max pressure	bar	290 (200)

PERFORMANCES

Bucket breaking force (standard arm) ISO 6015	daN	5.500
Arm breaking force (standard arm) ISO 6015	daN	4.350
Traction force	daN	7.960
Ground pressure with canopy (with rubber tracks)	kg/cm²	0,46
Max slope		60% - 30°

DIMENSIONS

Total width	mm	2.320
Max dumping height with cab standard arm (optional arm)	mm	6.070 (6.370)
Total height	mm	2.560
Rear rotation radius	mm	1.155
Max digging depth standard arm (optional arm)	mm	4.570 (4.920)
Digging arm length std (optional)	mm	1.760 (2.110)
Tracks width	mm	450
Rollers number (for each side)	n°	5/1 (rubber track) 6/1 (steel track)

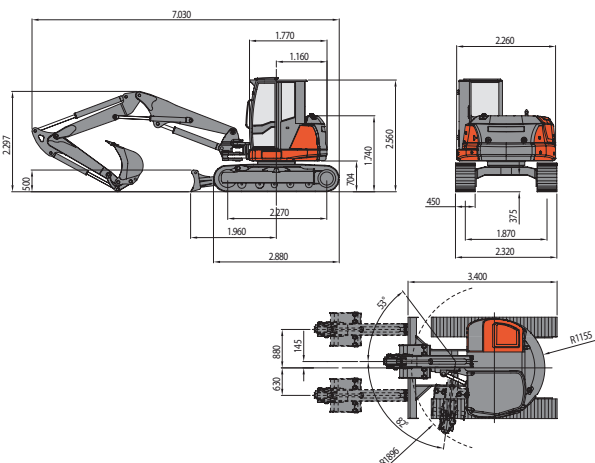
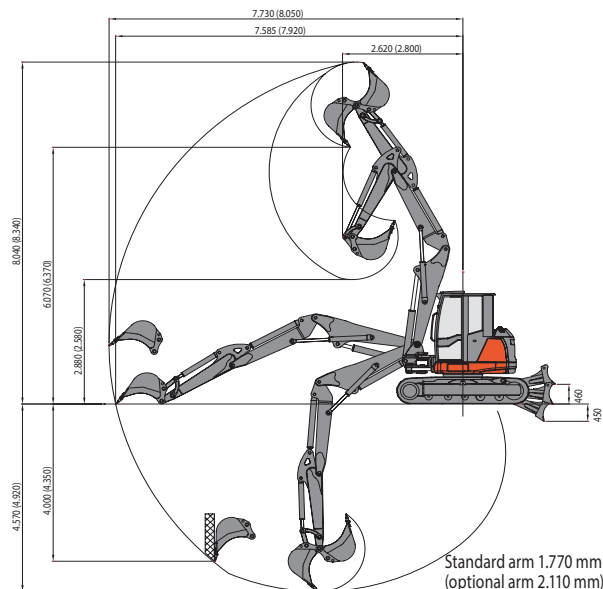
FILLINGS

Fuel tank	lt	105
Hydraulic oil tank	lt	90
Hydraulic circuit capacity	lt	120
Cooling system capacity	lt	25
Engine oil	lt	10

CONTROLS

Boom, dipper stick, bucket and turret swing	2 pilot joysticks
Tracks mouvement (included counter rotation)	2 pilot levers
Dozer blade	1 pilot lever
Auxiliary circuit (simple or double effect)	electroproportional switch on right joystick
Boom swing	electroproportional switch on left joystick

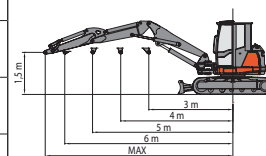
ES 95 TR



LIFTING CAPACITY

Opening arm from the rotation's center (m)
Lifting capacity (kg) at 1.5 m height

	3	4	5	6	MAX
Frontal and lowered dozer blade	4045	2830	2110	1750	1580
Frontal and lifted dozer blade	2760	1930	1235	1000	920
Lateral	2800	1850	1250	960	840



The lifting capacity is based on the ISO 10567 and it does not exceed more than the 75% of static tipping load or more than the 87% of the hydraulic lifting capacity of the machine.

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TECHNICALS SPECIFICATIONS

<https://truckmanualshub.com/>

Operating weight (with rubber track)	kg	8.300
Operating weight (with steel track)	kg	8.620
Max travelling speed	km/h	2,6 - 5,2
Slew speed	rpm	12

ENGINE

Type		YANMAR 4TNV98
Power (2.200 rpm)	kW- HP	46,3 - 63,2
Displacement	cc	3.319
Number of cylinders	n°	4
Cooling		water
Consumption	lt/h	8,7
Alternator	V (A)	12 (40)
Battery	V (Ah)	12 (100)

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	84+ 9
Pump capacity	lt/min	185 + 20
Max. circuit calibration pressure	bar	290 - 200 - 35
Low flow (high flow) auxiliary circuit:		
Max capacity	lt/min	40 ÷ 60 (100)
Max pressure	bar	290 (200)

PERFORMANCES

Bucket breaking force (standard arm) ISO 6015	daN	5.500
Arm breaking force (standard arm) ISO 6015	daN	4.350
Traction force	daN	7.960
Ground pressure with canopy (with rubber tracks)	kg/cm²	0,41
Max slope		60% - 30°

DIMENSIONS

Total width	mm	2.320
Max dumping height with cab standard arm (optional arm)	mm	5.220 (5.470)
Total height	mm	2.560
Rear rotation radius	mm	1.155
Max digging depth standard arm (optional arm)	mm	3.800 (4.150)
Digging arm length std (optional)	mm	1.760 (2.110)
Tracks width	mm	450
Rollers number (for each side)	n°	5/1 (rubber track) 6/1 (steel track)

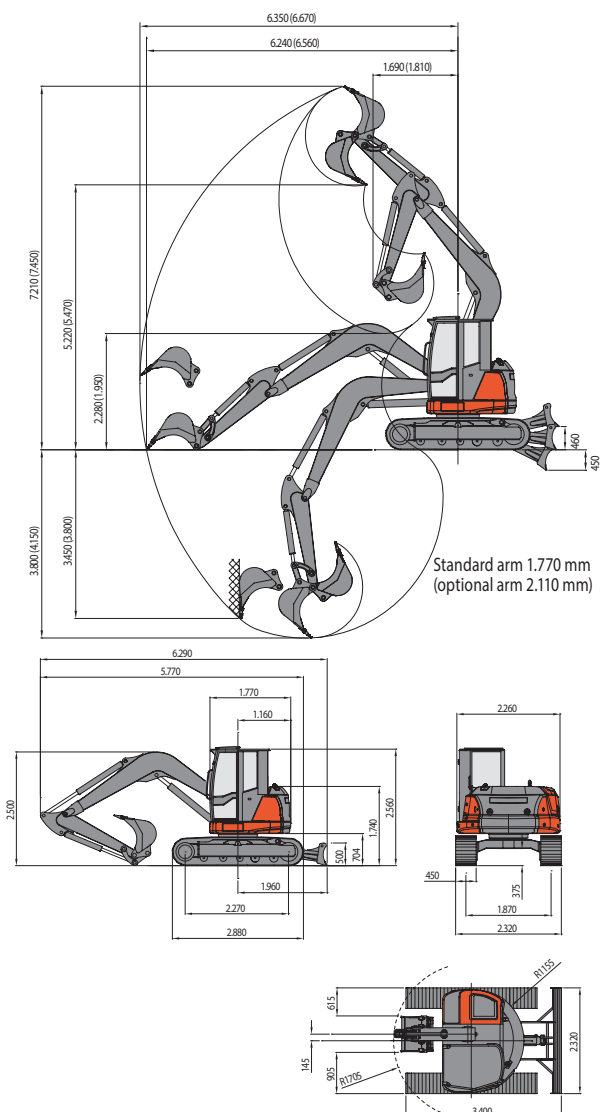
FILLINGS

Fuel tank	lt	105
Hydraulic oil tank	lt	90
Hydraulic circuit capacity	lt	120
Cooling system capacity	lt	25
Engine oil	lt	10

CONTROLS

Boom, dipper stick, bucket and turret swing	2 pilot joysticks
Tracks mouvement (included counter rotation)	2 pilot levers
Dozer blade	1 pilot lever
Auxiliary circuit (simple or double effect)	electroproportional switch on right joystick

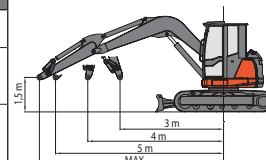
ES 85 SB



LIFTING CAPACITY

Opening arm from the rotation's center (m)
Lifting capacity (kg) at 1.5 m height

	3	4	5	MAX
Frontal and lowered dozer blade	4270	3130	2540	2390
Frontal and lifted dozer blade	3282	2070	1485	1340
Lateral	2859	1827	1292	1140



The lifting capacity is based on the ISO 10567 and it does not exceed more than the 75% of static tipping load or more than the 87% of the hydraulic lifting capacity of the machine.

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TECHNICALS SPECIFICATIONS

<https://truckmanualshub.com/>

Operating weight (with rubber track)	kg	9.100
Operating weight (with steel track)	kg	9.420
Max travelling speed	km/h	2,6 - 5,2
Slew speed	rpm	12

ENGINE

Type		YANMAR 4TNV98
Power (2.200 rpm)	kW- HP	46,3 - 63,2
Displacement	cc	3.319
Number of cylinders	n°	4
Cooling		water
Consumption	lt/h	8,7
Alternator	V (A)	12 (40)
Battery	V (Ah)	12 (100)

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	84+ 9
Pump capacity	lt/min	185 + 20
Max. circuit calibration pressure	bar	290 - 200 - 35
Low flow (high flow) auxiliary circuit:		
Max capacity	lt/min	40 ÷ 60 (100)
Max pressure	bar	290 (200)

PERFORMANCES

Bucket breaking force (standard arm) ISO 6015	daN	5.500
Arm breaking force (standard arm) ISO 6015	daN	4.350
Traction force	daN	7.960
Ground pressure with canopy (with rubber tracks)	kg/cm ²	0,45
Max slope		60% - 30°

DIMENSIONS

Total width	mm	2.320
Max dumping height with cab standard arm (optional arm)	mm	5.450 (5.670)
Total height	mm	2.560
Rear rotation radius	mm	1.155
Max digging depth standard arm (optional arm)	mm	4.220 (4.580)
Digging arm length std (optional)	mm	1.760 (2.110)
Tracks width	mm	450
Rollers number (for each side)	n°	5/1 (rubber track) 6/1 (steel track)

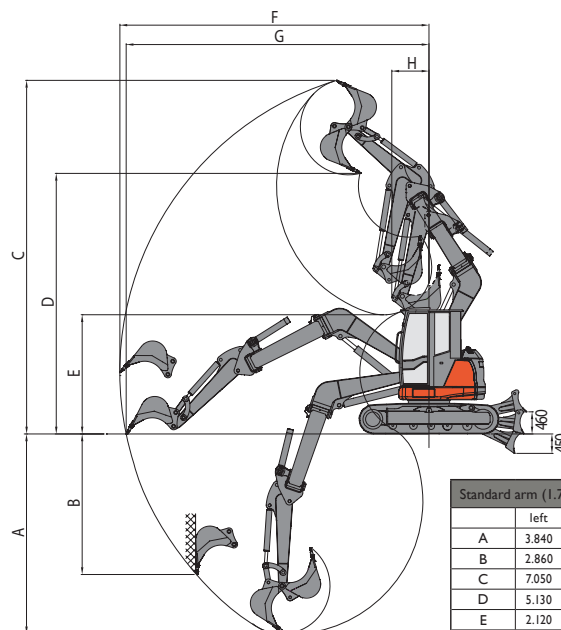
FILLINGS

Fuel tank	lt	105
Hydraulic oil tank	lt	90
Hydraulic circuit capacity	lt	120
Cooling system capacity	lt	25
Engine oil	lt	10

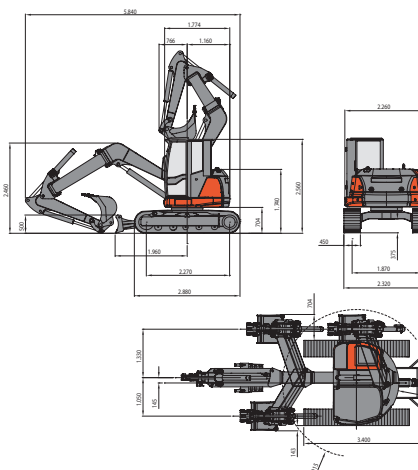
CONTROLS

Boom, dipper stick, bucket and turret swing	2 pilot joysticks
Tracks mouvement (included counter rotation)	2 pilot levers
Dozer blade	1 pilot lever
Auxiliary circuit (simple or double effect)	electroproportional switch on right joystick
Offset	electroproportional switch on left joystick

ES 90 UR



Standard arm (1.760 mm)			
	left	center	right
A	3.840	4.220	3.530
B	2.860	3.200	2.575
C	7.050	7.380	6.780
D	5.130	5.450	4.860
E	2.120	2.460	1.860
F	6.070	6.450	5.770
G	5.030	6.320	5.610
H (R min)	1.465	1.180	2.080



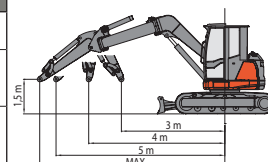
Long arm (2.110 mm)			
	left	center	right
A	4.195	4.580	3.880
B	3.230	3.590	2.950
C	7.280	7.600	7.010
D	5.340	5.670	5.070
E	1.795	2.120	1.540
F	6.380	6.760	6.075
G	6.240	6.630	5.920
H (R min)	1.540	1.260	2.090

LIFTING CAPACITY

Opening arm from the rotation's center (m)

Lifting capacity (kg) at 1.5 m height

	3	4	5	MAX
Frontal and lowered dozer blade	3740	2815	2270	2050
Frontal and lifted dozer blade	2435	1745	1295	1185
Lateral	2590	1690	1210	1010



The lifting capacity is based on the ISO 10567 and it does not exceed more than the 75% of static tipping load or more than the 87% of the hydraulic lifting capacity of the machine.

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