

STANDARD EQUIPMENT**6503****GENERAL**

- Balloon tyres (12-16,5/10ply)
- Levelling blade
- Work floodlight on lifting arm
- Tool set incl. grease press and maintenance manual

MOTOR

- Water cooled YANMAR diesel engine
- Engine speed automatic

CAB

- Glazed safety cab**
cab heating, sliding window at the side, windscreen can be lowered inwards, windscreen wiper washer system, fully lined internally, joystick, armrests; cab meets the FOPS and TOPS regulations.
- Prepared for radio** (cabling, loudspeakers, aerial)
- 2 external mirrors** (cab left, chassis right)
- Cabing** (floodlight and swivel light)

HYDRAULICS

- Buzz power control**
- Hydraulic oil cooler**
- Hydraulic pre-control with joystick operation**
- Valve control** as ISO, DIN, SAE, PCSA and EURO
- Parking brake for driving and swivelling gear**
- Main brake**
- Handbrake** (hydraulic spring-operated brake)
- Hydraulically controlled front axle** suspended oscillating with hydraulic locking device
- Rigid rear axle**
- Additional hydraulic connections** for 2 movement directions on bucket arm (1685 mm)
- 2 Speeds for off road and on road driving**
- Pre-operated load holding valve for lifting arm cylinder**
- Totalling function for lifting arm cylinder**
- Hammer return pipe large**

OPTIONS**CAB**

- Air conditioning**
- air-sprung driver's seat**
- radio**
- 9503₂** + external mirror (cab right)

HYDRAULICS

- 3rd control circuit**
incl. proportional steering and flat seal coupling
- Preparation hydraulic QH-system (EASY LOCK)**
- Prepar. hydraulic POWER TILT**
(only with 3rd control circuit)
- Panolin bio oil**
- BP-Biohyd SE46**
- Flat sealing coupling** for additional hydraulics
- Proportional control** for additional hydraulics
- Pressure relief valve** for additional hydraulics
- Over load warning device D** (safety valve for lifting arm and bucket arm)
- Additional pipework** for grab extension
- 9503₂** + pressure relief valve for 3rd control circuit

PAINTING

- Special paint 1 RAL** (paint only for yellow parts)
- Special paint 1 kein RAL** (paint only for yellow parts)
- Special paint cab RAL** (only RAL colours possible)

SUNDRIES

- Work floodlights** front & back
- Drive interlock KAT**

9503₂**GENERAL**

- Double tyres** (8.25/20)
- Mono arm**
- Two wheel steering**
- Max. driving speed** 20 km/h
- Power grab frame**
- 12V-lighting installation**
- Work floodlight on lifting arm**
- Tool set incl. grease press and maintenance manual**

MOTOR

- Water cooled DEUTZ-turbo diesel engine**
- Engine speed automatic**

CAB

- Glazed; tippable safety cab**
cab heating, sliding window at the side, windscreen can be lowered inwards, windscreen wiper washer system, fully lined internally, cab meets the ROPS/FOPS and TOPS regulations.
- Prepared for radio** (cabling, loudspeakers, aerial)
- Pre-cabled** (cab headlight and swivel light)
- 2 external mirrors** (cab left, chassis right)

HYDRAULICS

- Variable displacement pump** with LUDV control and total power control in connection with 2 x displacement gear pumps (working hydraulics). Pump performance: 167+2 x 38.5 l/min
- Displacement pumps in closed circuit** with load limit control (driving hydraulics) Pump performance: 145 l/min
- Hydrostatic four wheel drive** switchable under load; with infinitely variable speed control in 2 driving ranges; additional hydraulic drive pedal for work mode.
- Hydraulic oil cooler**
- Hydraulic pre-control with joystick operation**
- Valve control** as ISO
- Additional hydraulic connections** for 2 movement directions on bucket arm
- Front axle** (hydraulically controlled planetary transmission axle suspended oscillating, with hydraulic locking device when operating the handbrake, with integrated multi disk brakes running in oil bath).
- Rear axle** (rigid planetary transmission axle with inner no play lamella brakes)
- Enlarged pressureless hammer return pipe**

6503 • 9503₂**Diesel tank filling pump**

- Swivel light**
- longer bucket arm** (+ 300 mm)
- Security 24 (1500 h), Security 24 (2000 h)**
- TÜV road licence D**
- Pivot arm** incl. proportional control for additional hydraulics, over load warning device D (F) must be ordered at the same time
- centralised greasing point**
+ 25 km/h
- 6503** **Double tyres** (+ 312 kg)
- + 40 km/h** incl. stationary manual gearbox, speedometer
- 9503₂** **General perating permit D**
- Four wheel steering** incl. 3 types of steering: four wheel, two wheel steering, crab steering
- Balloon tyres** (500/45-20)
- Levelling blade**
- Bracket support**
- Accessories required by law** incl. first aid box, warning triangle, holder for number plate
- Switch for steering logic**
- Second tool box**
- Value Control ISO, SAE** as 8003₂, 75Z3₂, 50Z3₂, 6003₂.
- Fender**
- Driving direction selection on Joystick**

PACKET

- Comfort packet** (air conditioning, radio, mirror packet, work floodlights front & back) diesel tank filling pump)

Wacker Neuson compact equipment offers power and manoeuvrability on the spot. Any time, any place.

We consider it a constant duty to ensure that our promise regarding our products and services is fulfilled:

Reliability, Trust, Quality, Reactivity, Flexibility and Innovation.

Compact construction equipment of the Wacker Neuson brand also does the business where others can only stand and watch. Our products prove their worth through quality, power, intelligent hydraulics, compact dimensions, innovative technology, high productivity and reliability. This gives a form of set-up that only Wacker Neuson – the specialist in compact equipment – is capable of.

You too can take advantage of this bespoke capability. The Wacker Neuson compact class is in a class of its own. With success stamped right through it.



**WACKER
NEUSON**



**WACKER
NEUSON**



SPEED AND ENGINEERING WORKING STRONGLY TOGETHER: SWIFTLY TO THE RIGHT PLACE, TO SCORE WELL. EFFICIENT IN PERFORMANCE. WITH ENDURANCE. COMPACT BUNDLE OF POWER FULL OF MANOEUVRABILITY AND ENERGY: THE WACKER NEUSON 6503 AND THE 9503₂ ARE THE TOP MODELS IN THEIR CLASS OF MOBILE EXCAVATORS.

They arrive as
soon as they are needed:
The 9503₂ at up to 40 km/h.
The 6503 is nearly as fast.



Enlarge the field of play, make use of the manoeuvrability and gain new flexibility: the key to success in the future is mobility.

Speedier excavator transport under its own power: The high performance drive train and the particularly good cross-country mobility make the 9503₂ and the 6503 real high speed machines belonging to the fastest mobile excavators of their class: with 40 km/h top speed for the 9503₂ and with 25 km/h for the 6503.

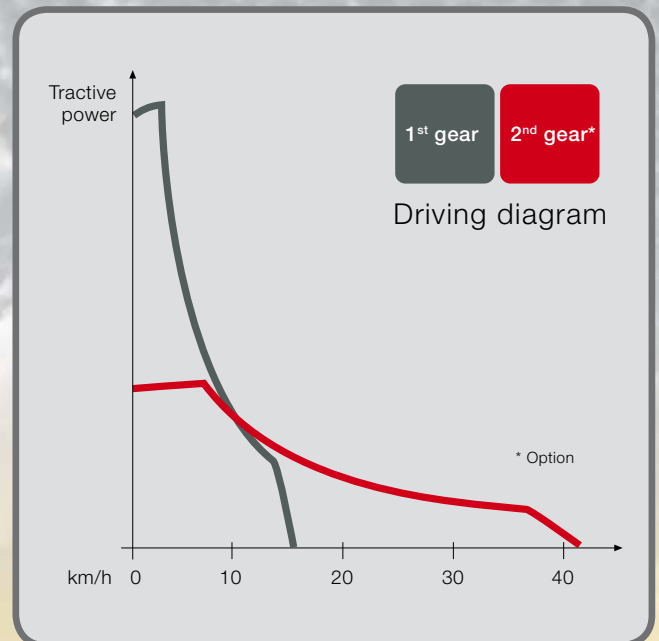
This excellent performance is achieved using powerful hydraulic systems working at maximum efficiency and low fuel consumption. The 170 litre tank capacity of the 9503₂ and 83 litres of the 6503 guarantee an enormous radius of operation.

The automotive power drive is based on car design for engineering and feeling.

6503 9503₂

The driving diagram of the 9503₂ shows how maximum performance is available in each phase. Ideal balance for economical use and greatest mobility.

**FUEL-
CONSUMPTION OF
THE 9503₂: 7,7 l/h**
for 80 % excavating
and 20 % driving



Wacker Neuson Factors:

- High speed power.
- Closed circuit hydraulics with the best energy balance with the model 9503₂.
- The diesel engines comply with all noise and exhaust standards.
- 170 l Tank capacity model 9503₂. 83 l Tank capacity model 6503.



Move quickly. Excavate sensitively. Work economically:
The Wacker Neuson hydraulic simply moves more.



Wacker Neuson Factors 9503₂:

- Round, harmonic and finely controllable arm movements.
- Full and economical development of power.
- Protection of the machine.
- Relief for the driver.



The Load Sensing hydraulics bring quality of performance into play: safe and sensitive excavation quickly becomes routine for the 9503₂.

Moreover, the LUDV pressure scale of the 9503₂ ensures an optimal „synchronism“ of the arm movements. This makes it possible to carry out several movements at the same time without loss of time or performance: Complete precision and balance already from the first control impulse, regardless of function and load.

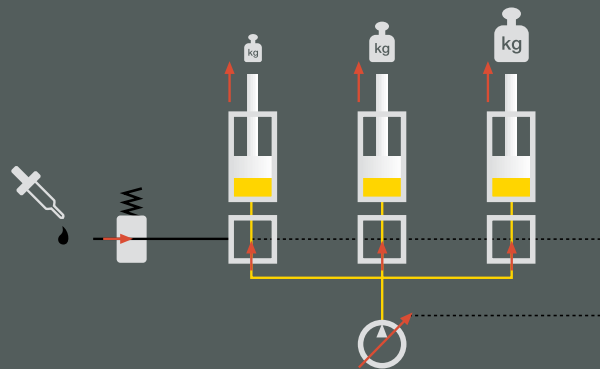
- Optimised work cycles for more performance per unit of time.
- Best development of power, just where it is especially needed.
- Simplest handling and quick familiarity for professionals.
- Additional hydraulics with hammer return pipe as standard.
- Highest reliability.

6503 9503_e



Wacker Neuson Factors 6503:

- Simple and robust construction.
- Large capacity diesel engine with optimally tuned hydraulic system.
- Highly economical and long life.
- High operating comfort for the driver.



The load pressure independent through flow distribution (LUDV System)

ensures that each hydraulic cylinder is supplied with the same quantity of oil, even under different loadings. The result: A constant working speed independent of the load, an optimal synchronisation of all movements and always the same movement of the joystick. In this way the driver gets a feeling for the machine particularly quickly.

Power control (6503).

The power control ensures an optimal exploitation of the performance of the diesel engine.

If the pressure in the hydraulic system increases due to greater loads, the power control ensures that the diesel engine does not become overloaded, by reducing the discharge quantity of the variable displacement pump.

Because of this the engine speed remains constant, ensuring greater efficiency. Several work movements can be carried out simultaneously without a drop in performance of the individual movements. The power control therefore ensures high work efficiency and makes the diesel engine particularly durable.



Stable. Fast. Agile:

The Wacker Neuson 6503/9503₂ is in all situations your work horse.

THE WACKER NEUSON MOBILE EXCAVATORS 6503/9503₂ ARE POWERFUL AND WELL-PROVEN MULTI FUNCTIONAL MACHINES, IN WHICH ALL WACKER NEUSON SKILLS ARE UNITED: A STABLE POWER SYSTEM WITH CONVINCING ENGINEERING; WITH TESTED COMPONENTS AND WITH INTELLIGENCE IN EVERY DETAIL.



easylock

The 6503 is unrivalled in compactness, power and superiority:

With special performance from the engine and hydraulics. With pivot arm and particularly large and tippable cab for perfect access for maintenance. Fitted with balloon tyres and levelling blade at the rear as standard, double tyres as an option.

The 9503₂ is the sum of the technical possibilities. Perfectly combined.

Its high degree of stability is ensured by an optimal distribution of weight. Bracket supports and levelling blade at front and back can be supplied as options. With double tyres as standard, balloon tyres as an option.



6503

- 1 The innovative HSWS quick change plate EASY LOCK is optimally tuned to the response behaviour of both of the models 6503 and 9503₂ and contributes quite decisively to improvement of the work processes: drive up, dock and automatically lock. Due to the low construction height the displacement angle of the shovel is fully maintained.
- 2 Mono arm / pivot arm* for the 6503/9503₂. Sensitive operated arm system (mono and pivot arm) for efficient excavation work to a depth of 4.2 m.
- 3 Depending on deployment for the 6503/ 9503₂ one can choose between balloon tyres and double tyres.
- 4 The individually controllable brackets* of the 9503₂ front and rear ensure a stable standing even on difficult ground*. Propping on kerb stones or on sloping surfaces is made secure and gives full freedom of movement.
- 5 The levelling blade of the 6503 is installed at the back as standard. As an option the 9503₂ can be equipped with a levelling blade at the front or rear.

* Optional additional equipment.



The best way can be found easily: Manoeuvrability is the thing.

The three types of steering of the 9503₂: Simple steering and four wheel steering* including crab steering:

- For safety reasons only the simple steering is activated at speeds over 20 km/h.
- If the revolving superstructure is turned through 180°, the steering logic is maintained: Switching suffices (option).

* Optional additional equipment.

Wacker Neuson is big in the compact class. And both models 6503/9503₂ keep their personality:

They are manoeuvrable and stabile, particularly powerful and simple to operate. Their minimal overhang at the back makes shunting and working safe at all times.

- 1 **Simple steering (6503/9503₂)** with a particularly agile design for participation in road traffic.
- 2 **Four wheel steering (only 9503₂)** with an extremely small turning circle of only 4 meters.
- 3 **Crab steering (only 9503₂)** for parallel repositioning, as is necessary for example when driving up to a wall.



- 4 **The swing angle lock: the extra efficiency is standard in the 6503 and 9503₂.** The swing axle lock is switched on automatically by operating the main brake. It can also be locked manually for speedier movement of loads.
- 5 **No swinging built up when working.** The external brakes of the 6503/9503₂ on the rear axle prevent the build up of oscillation during excavating. Play in the shaft, bearings and pin joints can no longer cause destabilisation.

6503 9503_e



Quality from the inside to the outside. Spaciousness and easy access for servicing. The greatest in the compact class.

SPACE FOR HIGHEST PRODUCTIVITY: EVERYTHING IS DESIGNED FOR THE GREATEST MOBILITY, FOR SPEED, INSTANT READINESS FOR USE AND FOR THE PRODUCTIVE INTERPLAY BETWEEN MAN AND MACHINE.



Intelligent performance management:
The engines of sustainable cost effectiveness.

Engine speed automatic after 5 seconds without movement the engine automatically goes into idling. This reduces fuel consumption and noise.

The particularly economical engines meet all the applicable environmental obligations of TIER III.

Spaciousness and ergonomics pay for themselves:
The cab design from Wacker Neuson.

- ROPS-, FOPS-, TOPS- certified safety concept.
- Layout and design of the interior space for a car-like driving experience.
- Wider entry, grip handles.
- Adjustable driver's seat, joystick, arm rests and steering wheel.
- 5 way adjustable driver's seat.
- Control of the inside temperature, air conditioning as an option.
- Low operating noise.

**NEW
CAB
INTERIOR**



Wacker Neuson Factors:

- High strength steel construction.
- Replaceable steel bushes on generously dimensioned bearings.
- High quality motive components.
- Tippable cab.



1 The comfortable access for servicing with the 6503 and the 9503₂ is the quickest way to save time and money.

- Tippable cab.
- Large covers.
- Unobstructed access to all components.

2 New cab interior with ample head- and legroom and newly integrated storage areas. Also new: the stable joystick mounting, instrumentation mounting and pedals. Easy driver access thanks to wide and high doorways. The armrest can be folded right back.

INNOVATIVE WINDSCREEN SYSTEM

FOR COMFORT, COMMUNICATION AND SECURITY:



1 Fully glazed front part: Excellent visibility and perfect protection from wind and weather. A thoroughly tried-and-tested concept (tilted position).



2 The top sliding part simply slides under the cab roof. There it is safely stowed.



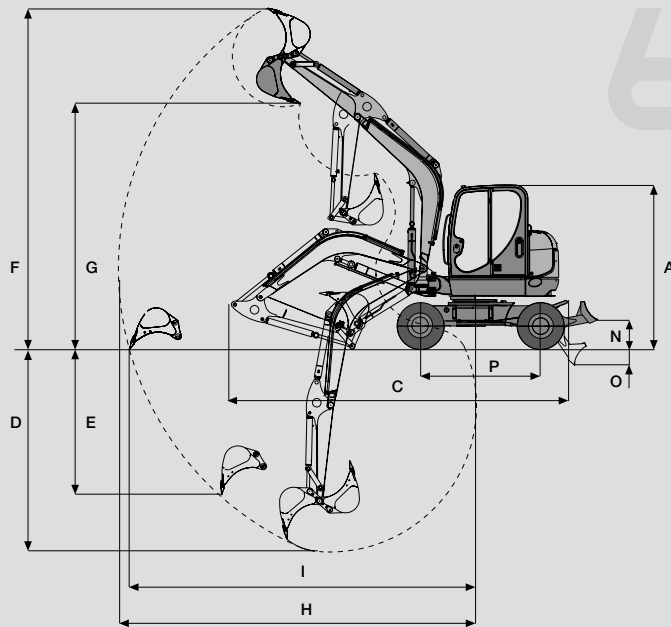
3 Dialogue position: The lower pane is slid under the upper pane. This allows the driver to chat with people outside the excavator.



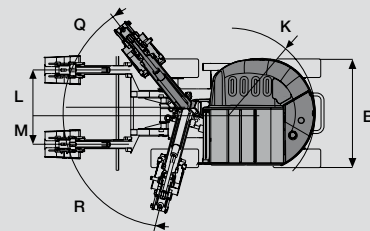
4 Both sliding panes are stowed under the cab roof. There is no need to remove them or store them elsewhere. This reduces the likelihood of their damage.



Mono arm



6503



DIMENSIONS

	6503 Mono arm	6503 Pivot arm
A Height of cab	2875 mm	2875 mm
B Width	1920 mm	2005* mm
C Transport length (arm lowered)	5880* mm	5420* mm
BUCKET ARM SHORT / LONG		
D Max. excavation depth	3540 / 3840 mm	3565 / 3865 mm
E Max. vertical insertion depth	2540 / 2820 mm	2905 / 3185 mm
F Max. insertion height	5975 / 6165 mm	6815 / 7055 mm
G Max. cutting height	4305 / 4495 mm	5055 / 5300 mm
H Max. excavating radius	6240 / 6525 mm	6605 / 6895 mm
I Max. reach on the ground	6045 / 6345 mm	6495 / 6790 mm
Max. overhang at rear (top part of vehicle turned 90°)	505 mm	460* mm
K Rear swivel radius	1465 mm	1465 mm
L Max. arm displacement to middle of bucket right side	745 mm	745 mm
M Max. arm displacement to middle of bucket left side	535 mm	535 mm
N Max. lifting height levelling blade above formation	490 mm	490 mm
O Max. lifting height levelling blade below formation	285 mm	285 mm
P Wheelbase	2100 mm	2100 mm
Q Turning angle of arm to right	51 °	51 °
R Turning angle of arm to left	75 °	75 °
Shearing force (bucket arm short/long)	25,8 / 23,1 kN	25,8 / 23,1 kN
Breakaway torque	38,9 kN	38,9 kN

* Double tyres



LIFTING POWER 6503 mono arm							LIFTING POWER 6503 pivot arm										
B	A	3 m		4 m		max.	A	B	3 m		4 m		max.				
		0°	90°	0°	90°				0°	90°	0°	90°					
3,0 m		–	–	1145*	1140	1145*	800	1150*	760	1735*	1700*	1375*	1100	1200*	780	1160*	670
1,0 m		2475*	1520	1645*	1030	1310*	755	1240*	690	2670*	1430	1755*	980	1330*	725	1120*	605
0,0 m		2715*	1465	1800*	995	1355*	740	1305*	720	2590*	1400	1775*	950	1305*	710	1095*	625
-1,0 m		2610*	1480	1760*	985	–	–	1375*	815	2250*	1405	1600*	945	1090*	715	1040*	700

20 km/h, standard tyres, short bucket arm

20 km/h, standard tyres, short bucket arm

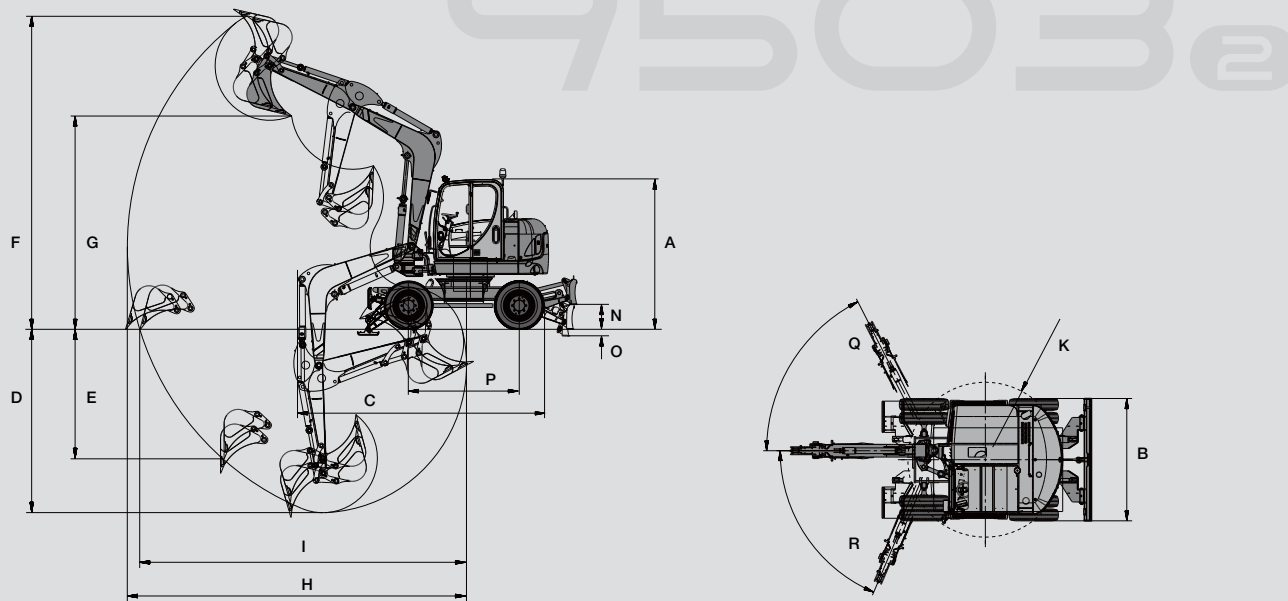
Nothing surpasses this. Up with the leaders.



Optimally prepared. Excellently constructed. Ideally positioned.



Mono arm



DIMENSIONS

	9503e Mono arm	9503e Pivot arm
A Height of cab	2980 mm	2980 mm
B Width	2465 mm	2465 mm
C Transport length (arm lowered)	6847 mm	6718 mm
BUCKET ARM SHORT / LONG		
D Max. excavation depth	3646 / 3950 mm	3949 mm
E Max. vertical insertion depth	2596 / 2895 mm	2955 mm
F Max. insertion height	6237 / 6372 mm	8079 mm
G Max. cutting height	4253 / 4388 mm	5925 mm
H Max. excavating radius	6827 / 7100 mm	7812 mm
I Max. reach on the ground	6576 / 6864 mm	7597 mm
Max. overhang at rear (top part of vehicle turned 90°)	318 mm	318 mm
K Rear swivel radius	1550 mm	1550 mm
L Max. arm displacement to middle of bucket right side	720 mm	720 mm
M Max. arm displacement to middle of bucket left side	550 mm	550 mm
N Max. lifting height levelling blade above formation	498 mm	498 mm
O Max. lifting height levelling blade below formation	132 mm	132 mm
P Wheelbase	2200 mm	2200 mm
R Turning angle of arm to left	67 °	67 °
Q Turning angle of arm to right	63 °	63 °
Min. front pivoting radius	2528 mm	2510 mm
Shearing force (bucket arm short/long)	40,34 / 36,34 kN	40,34 / 36,34 kN
Breakaway torque	50,6 kN	50,6 kN



B	LIFTING POWER 9503e mono arm					max.	B	LIFTING POWER 9503e pivot arm					max.				
	A	3 m	4 m	5 m	0°			90°	A	3 m	4 m	5 m		0°	90°		
3,0 m	-	-	2280*	2105	2105*	1465	2075*	1235	3,0 m	3245*	3245*	2795*	2055	2215*	1450	1780*	915
1,5 m	-	-	3205*	1920	2490*	1380	2210*	1120	1,5 m	4885*	2975	3400*	1805	2485*	1325	1700*	855
0,0 m	5725*	2770	3680*	1800	2700*	1315	2405*	1175	0,0 m	5020*	2680	3340*	1705	2485*	1250	1600*	890
-1,0 m	5245*	2765	3500*	1780	-	-	2560*	1355	-1,0 m	3860*	2690	2945*	1705	2220*	1245	1470*	985

20 km/h, only brackets, only one steering axle, double tyres, short bucket arm

20 km/h, levelling blade at rear, brackets at front, only one steering axle, double tyres, short bucket arm

OPERATING DATA

	6503 Mono-/pivot arm	9503e Mono-/pivot arm
Transport weight	5570 kg • 5820 kg	8850 kg • 10400 kg
ENGINE		
Manufacturer / type	Yanmar 4TNV 98-VNS	Deutz TCD 2012 L04 2Vm
Type	water cooled 4 cylinder diesel engine	water cooled 4 cylinder diesel engine
Max. engine performance	51,1 kW (69,5 PS)	74,9 kW (101,8 PS)
Flywheel performance	43,7 kW (58,5 PS) @ 2100 rpm	74,9 kW (101,8 PS) @ 2400 rpm
Capacity	3318 cm ³	4038 cm ³
Nominal rotation speed	2100 min ⁻¹	2100 min ⁻¹ working, 2400 min ⁻¹ driving
Battery	12 V, 88 Ah	12 V, 100 Ah
HYDRAULIC SYSTEM		
Pump	Double variable displacement gear pump	2x variable displacement gear pump
Capacity	2 x 64,1 + 48 + 10,3 l/min	145 + 167 + 2 x 38,5 l/min
Operating pressure working/driving hydraulics	225 bar / 225 bar	290 bar / 440 bar
Operating pressure of turntable	235 bar	-
System working/driving hydraulics	Power control	LUDV control / closed Hydraulic circuit with DA control
Hydraulic oil cooler	Standard	Standard
DRIVING GEAR AND SLEWING GEAR		
Steering	hydraulic servo assisted	Two wheel steering, four wheel steering crab steering (option)
Front axle / rear axle	Steering axle oscillating / rigid	Steering axle oscillating / rigid
Oscillation	16 °	11 °
Striking angle	36 °	32 °
Tyres	standard tyres 12-16,5/10ply double tyres (option)	double tyres 8,25/20 balloon tyres 500/45-20 (option)
Turning radius / turning radius for wheel drive	5300 mm / -	5570 mm / 3994 mm
Track width	1600 mm	1942 mm
Ground clearance	270 mm	361 mm
Revolving superstructure revolutions	9 min ⁻¹	9 min ⁻¹
DRIVING SPEEDS		
20 km/h Version	0-8, 0-20 km/h	0-6,5 km/h, 0-20 km/h
25 km/h Version	0-10, 0-25 km/h	-
40 km/h Version	-	0-5 km/h, 0-13 km/h (off-road) 0-13 km/h, 0-40 km/h (on-road)
Tractive power	2550 kg	4200 kg (20 km/h) 6100 kg (40 km/h)
LEVELLING BLADE		
Width / height	1965 mm / 400 mm	2465 mm / 500 mm
Max. lift above / below formation level	490 mm / 285 mm	498 mm / 132 mm
FILLING QUANTITIES		
Volume of diesel tank	83 l	170 l
Hydraulic tank capacity	80 l	120 l
Hydraulic oil system filling	83 l	190 l
NOISE EMISSION		
Sound power level (L_w) as 2000/14/EG	98 dB(A)	101 dB(A)

A Projection from the middle of the turntable

B Load sling height above ground level

* Lifting force is restricted hydraulically. All values in the table are given in kg, at horizontal standing on hard ground and without bucket. If a bucket or other work tool is attached, the lifting power or tipping load is reduced by their weight. Basis of calculations: as ISO 10557. The lifting power of the compact excavator is limited by the adjustment of the pressure control valve and by the tipping security. Neither 75 % of the static tipping load nor 87 % of the hydraulic lifting power is exceeded.

