The Classic Ones

Wacker Neuson Compact Excavators 2503 • 3503





The strengths of the classic models:

Stable and well balanced. Powerful, compact and tough.





Wacker Neuson Facts:

- Powerful engines with high torque and smooth operation.
- High performance hydraulics.
- Ideal transport dimensions.
- High stability.
- Simple operation.

The ideal situation for a compact excavator: powerful, agile and easy to operate.

The balance between the power characteristics and the hydraulics allows for effortless movements. The compact excavators 2503/3503 are a credit to their class and for this reason have quickly become the reliable choice for contractors. They are and remain the Wacker Neuson classics with a fan club that is growing steadily.

Diesel engines and high performance hydraulics:

The drive system success duo.





Power control.

The power control ensures optimal 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 volume of the variable displacement pump.

Because of this the engine speed remains constant, ensuring greater efficiency. Several work operations can be carried out simultaneously without a drop in performance of the individual movement. The power control therefore ensures high work efficiency and extends the diesel engine's life.

- 1 Large volume engines.
 Thanks to the large cylinder capacities the 2503/3503 develop their full power even at low engine speeds.
 The benefit of this is a smooth running quiet engine with exceptional fuel economy.
- 2 Optimal service accessibility to engine and hydraulic components. The sides of the rear weights can be pulled out giving full access to the engine.
- 3 Easy,fast and safe servicing: Intelligent one lock system for easy opening of the engine cover and valve cover from the driving cab.

DESIGN WHICH QUICKLY SHOWS. AN ADVANTAGE WHICH PROVES ITSELF DAILY: THE PERFECT INTERACTION BETWEEN ENGINE PERFORMANCE AND HYDRAULICS IS A QUALITY FACTOR OF THE FIRST DEGREE AND TYPICAL OF THE UNIQUENESS OF WACKER NEUSON COMPACT



Wacker Neuson Facts:

- Low fuel consumption and quiet operation.
- Damped and hydraulically balanced driving pedals.
- Additional hydraulics to the bucket arm is standard.
- Conforms to TIER III.
- Easy and fast servicing.







The best places for sure performance: Cab and chassis.

Wacker Neuson Facts:

- Cabs and canopies tested to ROPS/FOPS/ TOPS.
- Multi adjustable comfortable seat.
- Hydraulically balanced driving pedals, leaving the hands free for operations when driving.
- The cab can be easily removed.
 When operating without the cab all controls and machine functions remain operable.





- Good access and spacious cab, which can be easily removed.
 When operating without the cab all controls and machine functions remain operable.
- 2 Self cleaning chassis and particularly smooth running due to the asymmetric design of chassis and track profile.
- + Auto2Speed (3503).

 Automatic speed adjustment depending on tractive force. Automatic changing down from higher gear into first gear if the load at the time (for example, when levelling). If the load reduces, the machine automatically changes up into the higher gear.
- 3 High stability thanks to optimal weight distribution and VDS option (Vertical Digging System).





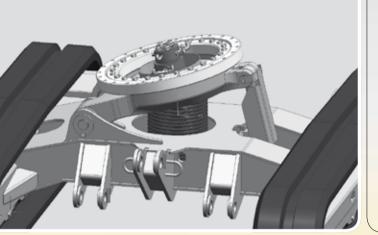


Wacker Neuson Facts:

- Self cleaning chassis.
- High strength steel construction.
- Replaceable bushings on generously dimensioned bearings.
- Vertical Digging Systems (VDS) optional.*
- Auto2Speed. (3503)

^{*} More information on pages 8/9 of this brochure and in the VDS special brochure. Please ask for it.

Site and contract are predetermined. Your field of play is the excavator. You are always in your best (working) position with Wacker Neuson vertical digging system (VDS).



Wacker Neuson Facts:

- Simple and robust construction.
- As easy to operate as adjusting a seat.
- 20 Years experience.
- 10 Year guarantee on stabilizing brackets and bearings.**

** On proof of proper and regular maintenance.

Preparation work is expensive. Full swivelling force is needed. Safety is essential. No time for difficult maneuvers.

You save up to 25% costs: With the infinitely variable tilting of the upper carriagework, up to 15° inclines and declines of up to 27% can be cleared. In this way a steep challenge can become a profit making performance advantage:

- Greater productivity, higher efficiency: Shorter excavation times due to exact vertical excavation.
- up to 25% savings in time and material when excavating.
- up to 25% savings in time and material when backfilling.
- up to 20% greater stability with 15° slopes and full loadings.
- Full swivelling force for the full 360°.
- Familiar seating position, working without fatigue.
- Simple and robust construction.



3503

* Options for the 3503.

More information on the applications, the advantages and the use of this well tried system can be found in the VDS special brochures. Just ask for them.

25% Savings advantage





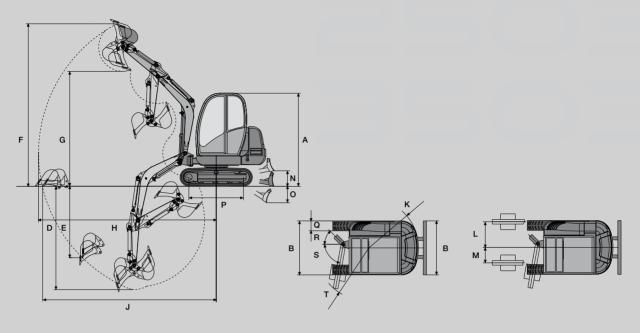






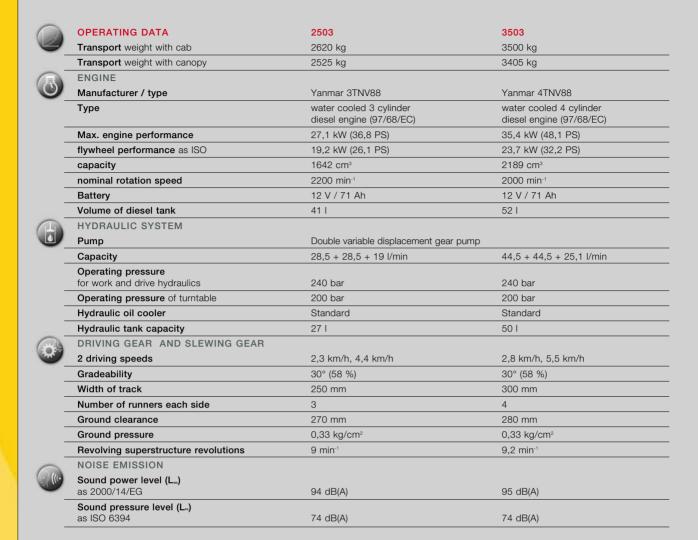
15 VOS





A height 2370 mm 2405 mm B width 1370 mm 1620 mm transport length (arm lowered) 4410 mm 5170 mm BUCKET ARM SHORT/ LONG STO MM 3230 / 3530 mm D Max. excavation depth 2620 / 2825 mm 3230 / 3530 mm E Max. vertical insertion depth 1810 / 2000 mm 2220 / 2500 mm F Max. insertion height 4125 / 4250 mm 4910 / 5100 mm G Max. cutting height 2925 / 3080 mm 3620 / 3810 mm H Max. excavating radius 4515 / 4693 mm 5270 / 5546 mm J Max. reach on the ground 4410 / 4602 mm 5175 / 5456 mm K Rear swivel radius 1240 mm 1400 mm L Max. arm displacement to middle of bucket right side 653 mm 685 mm M Max. arm displacement to middle of bucket left side 393 mm 415 mm N Max. lifting height levelling blade above ground level 390 mm 410 mm O Max. scraping depth of levelling blade below ground level 415 mm	DIN	IENSIONS	2503	3503				
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O Max. scraping depth of levelling blade below ground level 415 mm 490 mm P Length of travelling gear 1840 mm 2075 mm Q Width of track 250 mm 300 mm R Max. angle of swive arm system to the right 45 ° 45 ° S Max. angle of swive arm system to the left 80 ° 80 ° T Outrigger swivel radius 1360 mm 1470 mm Max. shearing force 13 kN / 11 kN 20,6 kN / 16,8 kN Max. breakaway torque 20 kN 30,3 kN	М	Max. arm displacement to middle of bucket left side	393 mm	415 mm				
P Length of travelling gear 1840 mm 2075 mm Q Width of track 250 mm 300 mm R Max. angle of swive arm system to the right 45 ° 45 ° S Max. angle of swive arm system to the left 80 ° 80 ° T Outrigger swivel radius 1360 mm 1470 mm Max. shearing force 13 kN / 11 kN 20,6 kN / 16,8 kN Max. breakaway torque 20 kN 30,3 kN	N	Max. lifting height levelling blade above ground level	390 mm	410 mm				
Q Width of track 250 mm 300 mm R Max. angle of swive arm system to the right 45 ° 45 ° S Max. angle of swive arm system to the left 80 ° 80 ° T Outrigger swivel radius 1360 mm 1470 mm Max. shearing force 13 kN / 11 kN 20,6 kN / 16,8 kN Max. breakaway torque 20 kN 30,3 kN	0	Max. scraping depth of levelling blade below ground level	415 mm	490 mm				
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Max. shearing force 13 kN / 11 kN 20,6 kN / 16,8 kN Max. breakaway torque 20 kN 30,3 kN	S	Max. angle of swive arm system to the left	80 °	80 °				
Max. breakaway torque 20 kN 30,3 kN	Т	Outrigger swivel radius	1360 mm	1470 mm				
	Max	c. shearing force	13 kN / 11 kN	20,6 kN / 16,8 kN				
	Max	k. breakaway torque	20 kN	30,3 kN				
Vertical Digging System (VDS) – VDS	Ver	tical Digging System (VDS)	-	VDS				
Length of bucket arm 1150 mm 1335 mm	Len	gth of bucket arm	1150 mm	1335 mm				

	LIFTING POWER 2503						LIFTING POWER 3503											
	0	2 r	n	2,5	5 m	3	m	ma	ax.	Ø	1,5	m	2,5	m	3,5	m	ma	x.
•	•	0°	90°	0°	90°	0°	90°	0°	90°	3	0°	90°	0°	90°	0°	90°	0°	90°
3	,0 m	-	-	-	-	400*	400*	415*	415*	3,0 m	-	-	-	-	745*	685*	800*	545
1	,0 m	1000*	815	670*	595	540*	460	425*	310	1,0 m	_	-	1795*	1000	1100*	620	890*	415
0	,0 m	1210*	770	835*	560	635*	440	450*	315	0,0 m	-	-	2130*	930	1300*	595	955*	420
-1	,0 m	1030*	775	790*	560	580*	435	475*	380	-1,0 m	4200*	2295	2100*	950	1310*	590	1045*	475



- A Projection from the middle of the turntable
- **B** Load sling height above ground level

power is exceeded.

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 10567. 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

0°	With levelling blade support in direction of travel	
90°	Without levelling blade support 90° to direction of travel	

GENERALLY

levelling blade

Work floodlight on lifting arm

Tool set incl. grease press and maintenance manual

ENGINE

Water cooled YANMAR diesel engine

CAB

Canopy

Adjustable and sprung seat with artificial leather covering and safety belt. Canopy meets the FOPS, TOPS and ROPS regulations

HYDRAULICS

Total power control

Hydraulic oil cooler

Hydraulic pre-control

with joystick operation

Valve control

Parking brake

2503 for swivel gear

3503 for drive and swivel gear

as ISO, DIN, SAE, PCSA and EURO

2 driving speeds

hydraulically balanced driving pedals and lever

CAB

Standard cab

Glazed safety cab

cab heating

upper windscreen can be lowered inwards

lower windscreen can be removed

windscreen wiper washer system,

1 door

fully lined internally

Canopy meets the FOPS, TOPS and ROPS regulations

Canopy

with rear window

Radio

Radio set with aerial and loudspeaker

Rain roof

HYDRAULICS

Bio oil Panolin

BP-Biohyd SE46

Flat sealing coupling

Proportional control

for additional hydraulics

Control circuit for grab

Pressure relief valve additional hydraulics

Overload warning device D

safety valve for lifting arm

Overload warning device F

safety valve for lifting arm and bucket arm

Additional piping grab tool

PAINTING

Special paint 1 RAL

(paint only for yellow parts)

Special paint 1 non RAL

(paint only for yellow parts)

Special paint cab RAL

(only RAL colours possible)

PACKET

Mirror packet

(mirror right and left)

OTHER

work floodlight at front

anti-theft device

swivel light

Long bucket arm

2503 + 200 mm

3503 + 300 mm

Security 24 (1500 h)

(extension of guarantee 24 months or 1500 operating hours)

Security 24 (2000 h)

(extension of guarantee to 24 months or 2000 operating hours)

Steel track

2503 250 mm

3503 300 mm

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 spezification 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.



