

1503 1903 2203

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Unique Kippmatic "tilting superstructure" option
High Performance
Telescopic undercarriage

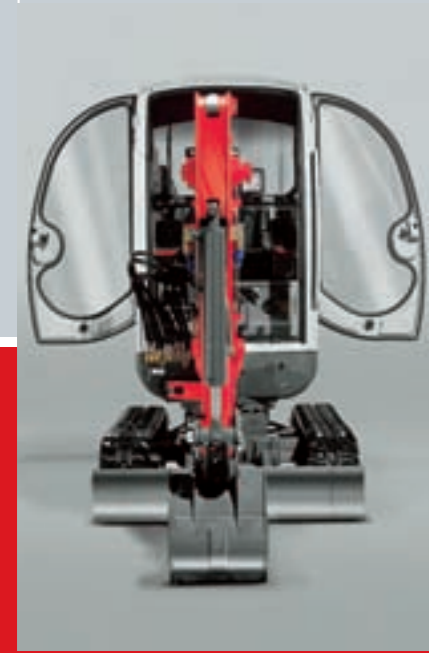
Modern design and superior functionality

The undercarriage design resists soil collection and minimizes cleaning required. Individual lashing points are conveniently located to aid safe and easy transportation. The cast rear counterweights protect the machine from impact

damage, while all the key components in the engine compartment are easily accessible.

Parts of the chassis susceptible to damage are rounded and reinforced to ensure longevity.

Under the bonnet, the Yanmar 3 cyl diesel engine is powerful, efficient and quiet.



Ease of Service and Maintenance.

Side panels are hinged to give unrivalled ease of access to hydraulic components.

The simple and clear layout of components save space and makes all key components easy to access for maintenance.



Robust high-tech quality.

Neuson has over 20 years experience as a European pioneer of compact excavators. From the start Neuson excavators have been renowned for structural strength with smooth, robust hydraulics capable of a long operating life. Top quality hydraulic components, together with state of the art assembly and workmanship, produce a definable benefit for the customer... high productivity at low operating cost.



Leading through innovation.

Neuson is renowned for innovative engineering solutions in compact excavators. This includes a number of industry firsts, such as telescoping undercarriage, Kippmatic tilting superstructure and Vario technology. The new zero-tail swing can now be added to Neuson's list of innovations.



Full Product Line.

The Neuson compact excavator line includes 17 models from 0,9 to 12 tons, with tracked and wheeled machines available. It is one of the widest ranges available on the market today. All models in the range have high performance, top quality and heavy duty construction included as standard.

Neuson Compact Excavators 1503 / 1903 / 2203



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The class of compact excavators – redefined: 1503 / 1903 / 2203

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High performance hydraulic system

Neuson has introduced a high performance hydraulic system to the 1.5 t class, which was previously only available on much larger models. The system includes an axial-piston double displacement pump and summation regulation for superior efficiency, long service-life and maximum productivity.

The superior hydraulic system allows the operator to track in a straight line while simultaneously slewing or lifting, all done smoothly with hands on the joystick. Moreover, the hydraulically cushioned drive pedals allow precise control of the machine.

Maximum stability from a small foot print

Telescoping undercarriage (standard on 1903 & 2203, optional on 1503) enables the machine to be narrow, for transportation or drive to sites with narrow access. Once on the site, the chassis and blade can be extended to improve stability and maximise digging & lifting performance.

Unique Neuson Kippmatic Tilting Superstructure

The Kippmatic system enables the superstructure to tilt 15 degrees. This in turn enables the machine to dig vertically while it is on a slope and ensures improved stability and operator comfort on sloping sites or on kerbs in urban areas.

Optimized digging performance

The boom design gives improved Kinematic deflection, allowing more efficient digging. Lifting performance can be up to 40% higher than conventional designs.

Modern cab design with excellent all round visibility

The cab interior includes all important controls and indicators, ergonomically located for ease of use.



Unique dipper stick design, features internal installation of all hydraulic hoses. Connections for double-action auxiliary hydraulics are installed as standard up to the dipper stick.

The external installation of the hydraulic hoses at the slewing bracket avoids wear and if a hose needs to be changed, it can be done quickly and easily.

The length of the undercarriage on 1503, 1903 and 2203 minimizes ground pressure. The extension parts of the dozer blade can be dismantled easily without tools and can be stored using dedicated holding devices.

Where headroom is restricted to 2 m, the cab can be simply and easily removed. To ease lifting of the machine on site, or for transportation, lifting lugs are conveniently located on the cab/canopy roof.



Engine

Make/Type	Yanmar 3TNV76
Model	water cooled
	3 cyl. diesel engine
max. engine output	17,9 kW (24,3 HP)
Performance to ISO	13,2 kW (17,9 HP)
Engine displacement	1116 cm ³
Travel speed	2200 min ⁻¹
Battery	12V/45 Ah
Fuel tank capacity	24 l



Hydraulic system

Pump	Double variable capacity pump + 2 gear pumps
Pump capacity	23,9 + 23,9 + 19,1 + 6,5 l/min
Operating pressure for working and driving hydraulics	200 bar
Operating pressure for slewing gear	125 bar
Hydraulic oil cooler	standard
Hydraulic tank capacity	21 l



Undercarriage and slewing system

Travel speed - dual	2,8 km/h and 5,6 km/h
Gradeability	30°/58%
Crawler width	230 mm
N° track rollers per side	3
Ground clearance	200 mm
Ground pressure	0,27 kg/cm ²
Superstructure slewing speed	10 min ⁻¹



Dozer Blade

Width	990 mm
Height	260 mm
max. lift above ground	260 mm
max. lift below ground	230 mm



Lifting power index

A \ B	max.		3,0 m		2,5 m		2,0 m		1,5 m	
	along	across	along	across	along	across	along	across	along	across
2,5 m	395*	395*	-	-	385*	385*	-	-	-	-
2,0 m	395*	340	-	-	385*	385*	-	-	-	-
1,0 m	400*	295	430*	340	505*	425	655*	605	1025*	945
0,0 m	440*	300	470*	325	605*	400	835*	580	1285*	890
-1,0 m	455*	395	-	-	500*	385	705*	580	1010*	915
-1,5 m	445*	445*	-	-	-	-	455*	455*	670*	670*

A = projection from turnstile centre, B = load fixing height from ground level
 *The lifting power is hydraulically limited.
 The data (kg) refer to the machine without digging equipment and are in compliance with ISO 10567.
 Overall length with dozer blade supported.
 Neither 75% of the static tilting load nor 87% of the hydraulic lifting power are exceeded.



Noise level

Noise level (L _{WA}) (to 2000/14/EG)	93 dB(A)
Noise level (L _{PA}) (to ISO 6394)	77 dB(A)



General specifications

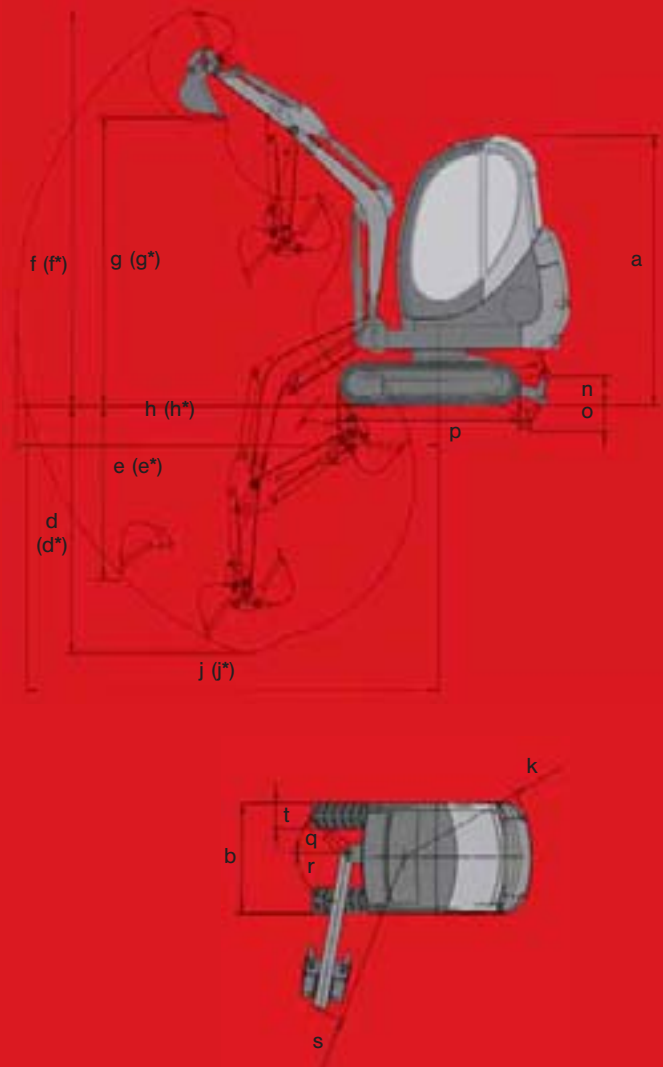
Transport weight with cab/canopy	1715/1625 kg
Transport weight with cab/canopy and telescopic undercarriage	1795/1705 kg

Dimensions

a	Height	2380 mm
b	Width	990 mm
	Transport length	3810 mm
d	max. digging depth	2185 mm
d*	max. digging depth (long dipperstick)	2380 mm
e	max. vertical digging depth	1490 mm
e*	max. vertical digging depth (long dipperstick)	1670 mm
f	max. digging height	3500 mm
f*	max. digging height (long dipperstick)	3620 mm
g	max. dumping height	2545 mm
g*	max. dumping height (long dipperstick)	2665 mm
h	max. digging radius	3867 mm
h*	max. digging radius (long dipperstick)	3957 mm
j	max. reach on the ground	3675 mm
j*	max. reach on the ground (long dipperstick)	3867 mm
k	Tail slewing radius	1160 mm
	max. boom offset to centre of bucket right side	508 mm
	max. boom offset to centre of bucket left side	331 mm
n	max. lift above ground	260 mm
o	max. lift below ground	230 mm
p	Track length standard undercarriage	1445 mm
p*	Track length telescopic undercarriage	1605 mm
q	max. swing angle to the right	45 °
r	max. swing angle to the left	80 °
s	min. boom radius	1555 mm
t	Crawler width	230 mm

Hydraulic telescopic undercarriage 990 to 1300 mm

max. arm crowd force	10,6 kN
max. bucket digging force	17,7 kN



Basic Machine

General

- Rubber track 230 mm
- Dozer blade
- Working light mounted to the boom
- Tool kit incl. grease gun and operator manual

Engine

- Water-cooled YANMAR diesel engine

Cabin

- Canopy: Adjustable and resilient comfort seat with imitation leather cover and safety belt, canopy complies with FOPS-, TOPS- and ROPS-regulations

Hydraulic

- Summation regulation
- Hydraulic oil cooler
- Hydraulic pilot control via joystick
- Valve control according to ISO, DIN, SAE, PCSA and EURO
- Auxiliary hydraulic connection for two directions of motion, mounted on dipperstick (980 mm)
- Dual travel speed
- Hydraulically dampened drive pedals and levers

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Options

1503

Cabin

Standard cab (Safety cabin, cabin heating, split front window, top swings back, bottom lifts out, windscreen wiper and washing system, 1 cabin door, covered cab interior, the cabin complies with FOPS-, TOPS- and ROPS-regulations)

Cab with 2 doors

Canopy with back window

Extension of the backrest

Radio (Radio set incl. aerial and speakers)

Rain roof

Hydraulic

Biological oil Panolin

BP-Biohyd SE46

Flat faced couplers

Proportional control (for auxiliary hydraulic)

Overload system Germany (Load holding valve boom)

Overload system France (Load holding valve boom and dipperstick)

Additional piping for grabble

Painting

Special paint 1 RAL (Colour for red parts only)

Special paint 1 no RAL (Colour for red parts only)

Special paint cabin RAL (RAL colours only)

Miscellaneous

Cab lighting front

Cab lighting front and rear

Anti theft device

Flashing beacon

Long dipperstick (+ 200 mm)

Dozer blade long

Security 24 (1500 h) (Warranty extension to 24 months or 1500 operation hours)

Security 24 (2000 h) (Warranty extension to 24 months or 2000 operation hours)

Steel track 230 mm

Telescopic undercarriage (Hydraulic telescopic undercarriage from 990 mm to 1300 mm, with dozer blade extensions)