



**WACKER
NEUSON**
all it takes!

Wheel loaders

0.19 to 1.80 m³ bucket capacity.



Your reliable solution provider

We offer customers worldwide a comprehensive product range of construction machines and equipment, spare parts and services. Since the beginnings of our company in 1848, the Wacker Neuson brand has stood for reliability and innovative strength. Companies from the main construction industry, gardening and landscaping, municipalities and industry, among other sectors, therefore, rely on the innovative solutions of Wacker Neuson. Wacker Neuson – **all it takes!**



Our services

When you need us, we are there. We not only advise you during the purchase of a machine, but also afterwards. You can trust our expert and quick support. Find out about our extensive services for construction machines and construction equipment. With our Comprehensive Sales and Service network, we are always close by.

Find out more at:
wackerneuson.com/services



Contents.

WL20e, WL28e	4
WL20, WL25, WL28	10
WL32, WL38, WL52	16
WL34, WL44, WL54	22
WL60, WL70	28
WL95, WL110	34
Attachments	40
Tipping load, bulk material and bucket selection	42
Tire profile	43
Equipment	44
Dimensions	46
Technical Data	48



Electric, practical, innovative: the electric WL20e and WL28e wheel loaders.

	WL20e	WL28e
Bucket capacity (m ³)	0.19	0.42
Operating weight (kg)	2,170–2,350	2,800–3,300
Electric motor (kW)	6.5* / 8.5**	33.1* / 21.2**
Tipping load of bucket, loading frame horizontal – angled machine (kg)	1,210–1,320	1,560–2,070

* Motor drive system ** Motor work hydraulics

Electric, practical, emission-free: the WL20e and WL28e wheel loaders.

Environmental friendliness

- The purely electrically operated wheel loaders work with low-noise and are 100% emission-free on site, protecting the operator and the working environment
- Highly efficient electric drive system enables the best possible use of resources

Performance

- Powerful lithium ion battery in three sizes, one or two on-board battery chargers, and different charging plugs for maximum flexibility
- Flexible interim charging possible at any time, no memory effect
- Energy recovery through recuperation
- Performance whenever and wherever you need it through two separate electric motors: one for the drive system, and one for the work hydraulics
- The oil volume of the 3rd control circuit can be infinitely adjusted. This enables the adaptation of the machine to the requirements of the hydraulic attachments with rotary users

Efficiency

- Depending on the size of the battery, the WL20e can achieve uninterrupted operation of up to 7.3 hr. Depending on the battery size, the WL28e can achieve a running time of up to 5.3 hr. The running time is dependent on the application conditions, the work task and the operating style.
- The Battery Management System (BMS) enables the optimal use of the battery under all operating conditions, therefore contributing to the increase in efficiency



Maintenance

- Easy access to the hydraulic control block, the pumps, the battery, and the electric motors for time-saving maintenance
- Easy to handle, low maintenance effort and therefore low service costs

Safety

- Operator's canopy EPS (Easy Protection System) optional. With just a few easy steps, the EPS can be manually prepared for a low clearance height
- The electric parking brake automatically applies when the machine is standing still, the travel direction is set to neutral or the operator leaves his seat
- Coordinated with different application purposes, we offer an appropriate selection of different operator cabs: Fixed operator's canopy, fold-down operator's canopy EPS (Easy Protection System), and cabin

Innovative technology, time-tested and proven in application.

Wacker Neuson is driving innovation in the field of electric drives for construction equipment. With the wheel loader WL20e, we are offering you an emission-free solution, which has been continuously in further development for several years and has been tried and tested in many operations. So that you always benefit from the latest technology. With the WL28e, there is now a larger and more powerful electrically driven machine available.



Powerful lithium ion battery.

- With the WL20e and WL28e, there are three maintenance-free lithium ion batteries to choose from to cover different running time requirements (see p. 50).
- Standard 3 kW on-board battery charger, optional additional 3 kW on-board battery charger, therefore a total 6 kW charging output for fast charging the optional batteries.
- Integrated Battery Management System (BMS) monitors and protects the battery, increases efficiency and safety, and excludes a possible deep discharge.



WL28e



WL20e



Reduced emissions

- Reduction of more than 90% of CO₂ emissions* ✓
- No exhaust emissions and minimal motor noise on the construction site ✓
- Clearly better effectiveness when compared with conventional drives ✓



Low operating costs

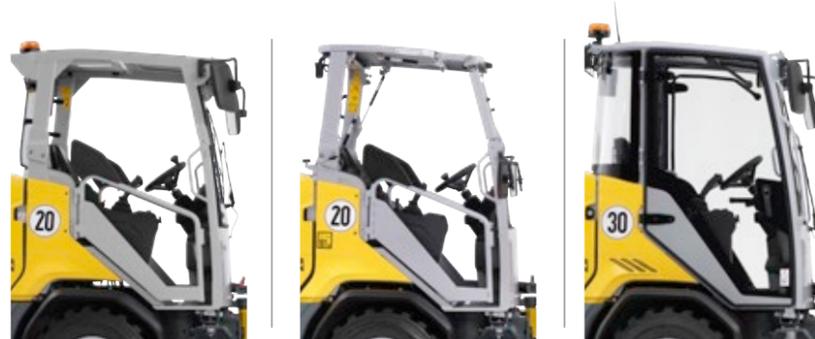
- Up to 85% lower energy costs when compared with a diesel machine ✓
- Lower maintenance costs ✓
- Same performance as a conventional machine in the same class ✓



Comfortable for the operator

- Noise level reduced by nine decibels; operator perceives the machine as half as loud** ✓
- Electric drive enables dynamic and powerful start-up ✓
- Charge anywhere: different charging cables/charging plugs available ✓

Flexible charging options.



Flexibly selectable operator cab: Fixed operator's canopy, fold-down operator's canopy (EPS), and cabin.



Different charging cables and charging plugs enable flexible charging.



1. Up to two on-board battery chargers integrated, no additional external charger required.



2. Open charging cover, insert Type 2 plug on the machine.



3. Depending on the size of the battery and the requirement, different charging cables/charging plugs available.

* CO₂ emissions over the entire service life, directly and indirectly, thus including battery production and power generation (EU mix) compared with a conventional product in the same class.
 ** The decibel value gives the emission sound pressure level (LpA). This states the sound emission of the equipment at the place of work directly assigned to it, for example in the cabin.



Compact powerhouses: the wheel loaders WL20, WL25 and WL28.

	WL20	WL25	WL28
Bucket capacity (m ³)	0.19	0.30	0.42
Operating weight (kg)	2,000–2,150	2,380–2,550	2,800–3,300
Engine output (kW)	18.4	18.4	18.4/33.3* /40.1*
Tipping load of bucket, loading frame horizontal – angled machine (kg)	977–1,206*	1,144–1,703*	1,600–2,220

* Values of optional outfitting

A lot of power with compact dimensions.

WL20, WL25, and WL28 represent maximum performance in confined working spaces.

Environmental friendliness

- Eco mode for resource-protecting driving on longer routes (WL28)

Performance

- Designed for heavy loads: WL28 moves a pallet of paving stones effortlessly
- Compact dimensions in width, height and length, ideal for confined spaces
- Connectible 100% differential lock for maximum traction and thrusting force
- High-level hydraulic performance enables the operation of different attachments
- Perfectly tuned kinematics for the machine size

Efficiency

- Optionally up to 30 km/h for quickly relocating the machine
- Easy transport with a car trailer
- Brake/inching pedal: engine output where it is needed

Maintenance

- Tilttable cabin for quick maintenance access
- Divided hydraulic hoses so that only the affected parts need to be replaced where there is damage and not the whole hose
- Easily accessible lubrication points



Versatility

- Large selection of attachments and tires
- Selectable operator's cab: operator's canopy, EPS (fold-down operator's canopy) or cabin

Quality

- High-quality powder coating ensures for long service life
- Two powerful lift cylinders on the load arms for optimal load distribution

Comfort

- Optimized design of the loading system for extra tipping load, stability, and an overview of the working area (WL25 and WL28)
- Maximum traction through articulated pendulum joint
- Quick and efficient attachment changeover through hydraulic quick hitch system

Safety

- Color operating concept for quick orientation in the operator's cab
- Electric parking brake with Hill-hold-function ensures maximum safety and comfort (WL28)



Heavy loads are easy for the WL28.

It easily handles pallets with paving stones or other transport goods weighing up to 1.6 tons and thus offers a high level of productivity.



Save time and transport costs: Thanks to the compact dimensions and low weight, the machines can be transported easily by car trailer.



The design of the loading system ensures perfect all-round visibility. Both the cab and the operator's canopy offer an excellent view of the immediate work area.



All three wheel loaders are outfitted with a tiltable operator's cab or a fold-down cabin. This allows easy access to the engine, hydraulic system, and electronics. The engine hood can be opened widely, thereby allowing for optimal access.



Drive smarter with the WL28. The electronically controlled travel drive ensures extremely high driving comfort and increases the machine's thrusting force. In addition, various travel modes are available.

- Standard: Auto-Mode: 100% familiar performance
- ECO mode: reduces consumption and noise
- Optional: Attachment mode: constant performance with varying loads
- M-Drive Mode: manually adjust the engine speed and control the speed with the drive pedal



Compact dimensions - ideal when it comes down to centimeters.



Optional comfort cab for safe and fatigue-free work.



Folded down quickly: the EPS (Easy Protection System) operator's canopy.



A multitalent with comfort:
the wheel loaders WL32, WL38 and WL52.

	WL32	WL38	WL52
Bucket capacity (m ³)	0.47	0.64	0.85
Operating weight (kg)	3,400	4,200–4,300	5,100
Engine output (kW)	45	45/ 55.4*	55.4
Tipping load of bucket, loading frame horizontal – angled machine (kg)	1,692/ 1,898*	2,494/ 3,113*	3,416

* Values of optional outfitting

All-rounder with work comfort.

An overview of the features of the models: WL32, WL38 and WL52.

Performance

- Large lift height and high ripping forces due to the long load arm design with PZ kinematics (WL32, WL38)
- WL52 with powerful Z-kinematics and low front carriage for extra tipping load and an overview of the working area
- A variety of hydraulic options allows for the application of different attachments
- Powerful hydraulic system and optimally matched engine output

Efficiency

- A low turning radius allows for good maneuvering
- Power where you need it with the brake-inch pedal
- Equipped with rear hydraulic connections extending the application options, as hydraulic rear attachments can be operated (optional)



Maintenance

- Tilttable driver's cabin enables easy access to the engine hydraulics, and electrics

Safety

- Good all-round visibility from driver's seat

Comfort

- Comfortable cabin outfitting for fatigue-free working and increased productivity
- Hydraulic joystick pilot control for concentrated working
- The joystick console is mounted to the operator's seat and moves with the oscillations

Quality

- High-quality powder coating significantly extends the machine's service life

Specialized area: all-rounder

Our wheel loaders will never let you down, no matter what you have in mind. Our all-rounders become true specialists in every field thanks to the powerful hydraulics and a huge selection of attachments.



Comfortable work: adjustable steering wheel and air-cushioned comfort seat (optional).



Operator-friendly and multifunctional: the innovative joystick with ergonomically-arranged, illuminated touch keys.



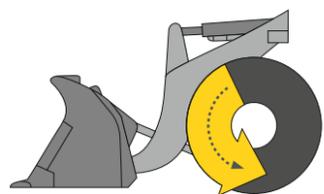
Adjustable joystick console on the operator's seat that swings along.

Comfortably equipped cabin.

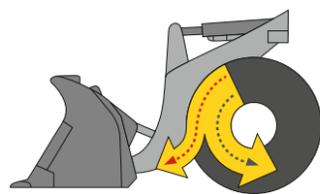
Comfort and a high degree of ergonomics in the cabin allow the operator to work for hours fatigue-free and productively. The spacious cabins are, for example, well-dampened to offset vibrations and the comfort-seat is also air-cushioned. The steering

wheel, seat, and operating elements can be individually adapted to the size of the operator. The control of the machine and additional functions is performed using a joystick of the newest generation. The operator therefore has everything to hand.

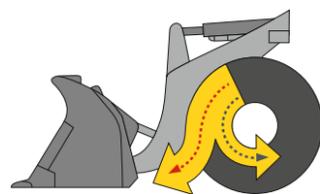
Inch brake pedal: engine output where it is needed.



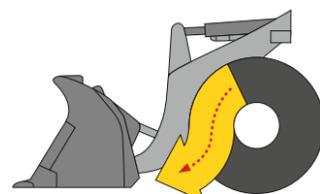
No pressure on the inch-brake pedal: full power for the travel drive system.



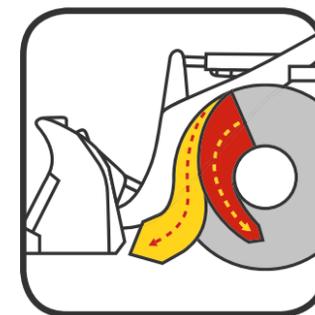
Slightly depressed inch-brake pedal: speed is reduced, more power to the work hydraulics.



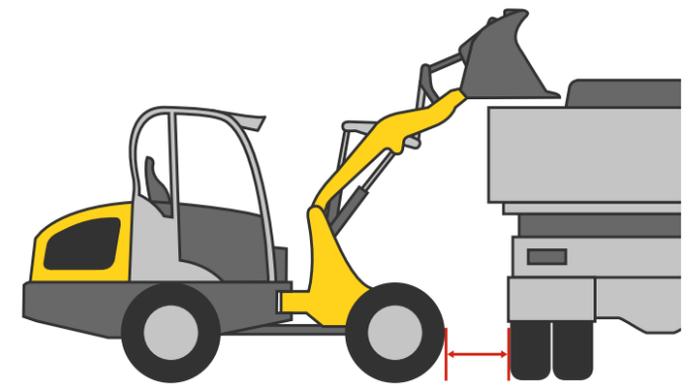
Further depressed brake-inch pedal: the speed is reduced further, even more power to the work hydraulics.



Fully depressed inch-brake pedal: the wheel loader stands still, full power to the work hydraulics.



Full power for the hydraulics and at the same time reducing the travel speed: The advantages are obvious: less wear of the service brake and optimal power distribution of the engine output. Stalling of the engine is not possible.



Effortless loading, even with high sides, thanks to the load arm with a large lift height and reach.



Tried and tested wheel loaders: the wheel loaders WL34, WL44 and WL54.

	WL34	WL44	WL54
Bucket capacity (m ³)	0.62	0.80	0.90
Operating weight (kg)	3,900	4,600	5,900
Engine output (kW)	45/ 55.4*	45/ 55.4*	55.4
Tipping load of bucket, loading frame horizontal – angled machine (kg)	2,443/ 2,539*	2,736/ 2,845*	2,761/ 3,045*

* Values of optional outfitting

Sturdy and efficient.

The wheel loader models WL34, WL44, and WL54.

Performance

- The low front carriage enables high tipping loads and break out forces; as a result it is possible to move maximum loads
- Perfectly coordinated kinematics for a high level of productivity
- Optional 30 km/h speed

Comfort

- Large steps and easy-to-reach handles for easy entry and exit
- Versatile options in terms of equipment
- Consistent operating concept for all Wacker Neuson wheel loaders saves familiarization time
- Ergonomic joystick, lots of legroom, and clearly organized operating elements
- Cabin with heating, as well as ventilation system
- Ergonomic driver's seat
- The machine's vibrations and impacts are absorbed by dampers

Quality

- The durable powder-coating guarantees value stability and ensures the machine's correspondingly high resale value



Efficiency

- Connectible 100% differential lock
- Hydraulic quick hitch system for attachments

Safety

- Thanks to the articulated pendulum joint with 12° oscillating angle, all four wheels retain good ground adherence, even on uneven terrain
- Through the complete glazing and the deep-drawn windshields of the cabin, the operator has an excellent overview of the attachment and the overall working area

Maintenance

- Tilttable cabin for quick maintenance access
- Divided hydraulic hoses so that only the affected parts need to be replaced where there is damage and not the whole hose
- Easily accessible lubrication points



Everything that productive work requires.

You don't have to do without anything, even with our entry-level models – especially not when it comes to performance. The sturdy and sophisticated technology of our wheel loaders has been time-tested and proven in many applications. This makes them into particularly reliable performance machines on any construction site – a cost-benefit calculation that works.



Two lift cylinders.

For even more stability of the loading system, all wheel loaders by Wacker Neuson are equipped with two lift cylinders. This way the power of the hydraulics is optimally distributed to the load arm.



Z-kinematics.

The WL44 and WL54 are outfitted with Z-kinematics. This allows higher break out forces in the tilting movement - for powerful work and sufficient power reserves in every situation.



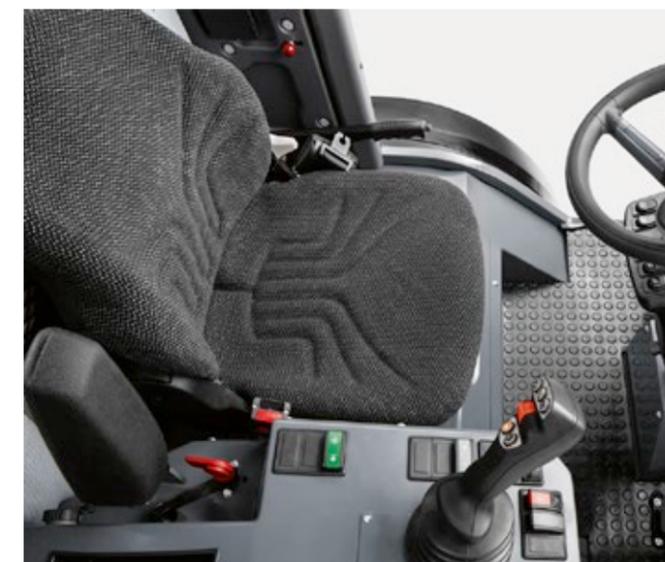
Uncomplicated maintenance.

The removable seat, the wide-opening engine hood as well as various maintenance covers make all service accesses easy to reach. This saves time and money in maintenance.



Comfort cabin.

The 1-door comfort cab is spring-mounted at four points. In this way, impacts are optimally absorbed. From the entry on the left to the fully glazed vent window on the right, the cabin offers an excellent view of the attachment and the entire working area.



Ergonomics.

The seat and the armrests can be individually adjusted. As a result, even bigger operators can work fatigue-free in the optimal operating position, even for longer periods of time.



A powerful partner: the WL60 and WL70 wheel loaders.

	WL60	WL70
Bucket capacity (m ³)	1.00	1.10
Operating weight (kg)	5,930	7,140
Engine output (kW)	74.4	100
Tipping load of bucket, loading frame horizontal – angled machine (kg)	3,031	3,926

Versatile and efficient.

The WL60 and WL70 wheel loaders.

Performance

- Load-sensing performance hydraulics with 150 l/min flow for more operating comfort and less fuel consumption
- Optional flow-sharing increases productivity and allows for the simultaneous operation of several functions
- Travel speeds of up to 30/40 km/h for high speed working cycles (optional)
- Maximum traction due to articulated pendulum joint
- Hydraulic quick hitch system for attachments
- High hydraulic performance for flexible application of attachments
- Connectible 100% differential lock

Efficiency

- Various rear hydraulic options for additional rear attachments, such as a salt spreader in winter application
- Jog Dial: comfortable control of the oil volume for sensitive working with attachments
- Trailer operation with up to 8-ton trailer load possible with different approvals (attention: observe country provisions)
- If desired up to two electric functions of attachments controllable via joystick
- Long load arm enables high lifting heights
- Diverse options for equipment and tires



Maintenance

- Quick, favorably priced maintenance due to the tiltable cabin
- Easily accessible machine components
- Divided hydraulic hoses, which do not need to be completely replaced when damage occurs

Safety

- Cabin with large windows for optimal view of work area and machine's surroundings

Comfort

- Automatic speed-dependent load arm damping for comfortable road travel
- Always have the main functions in view with a 3.5-inch display
- Heating and ventilation system with fans, fresh-air filter, and well-placed air nozzles
- Joystick console is mounted to the operator's seat and moves with the oscillations
- Ergonomic cockpit

Quality

- Sturdy load arm design with the largest lift height in its performance range
- Durable powder-coating

Full speed ahead.

Our wheel loaders WL60 and WL70 combine large efficiency output with a high level of operating comfort and optimal ergonomics for the operator. This makes them strong partners for any challenge and in any season.



High level of stability – thanks to the optimal weight distribution



Joystick and Jog Dial.

The innovative joystick with ergonomically-arranged, illuminated touch controls creates operator friendliness and multifunctionality.

Using the “Jog Dial” it is possible to manually set the flow rate of the hydraulic oil. This is advantageous if the machine drives a hydraulic attachment, which does not require the full hydraulic performance. The operator can therefore work sensitively while protecting resources.



Comfortable working environment.

The working environment is excellent, thanks to an efficiently working heating and ventilation system with a fan, fresh air filter and well-placed air nozzles. In warm temperatures, an air-conditioning system is recommended.



Ventilation as required.

The cabs feature large, wide-opening doors on both sides. The upper window can fold up completely and be locked. A gap ventilation is also possible.



Easy entry.

With a few steps, you can get into the machine's cabin comfortably. The large designed and slip-proof entry steps make this possible.



Productivity is emphasized:
the WL95 and WL110 wheel loaders.

	WL95	WL110
Bucket capacity (m ³)	1.55	1.80
Operating weight (kg)	10,390	11,250
Engine output (kW)	100/ 115*	115
Tipping load of bucket, loading frame horizontal – angled machine (kg)	5,748	6,674

* Values of optional outfitting

Strong in any application.

An overview of all the WL95 and WL110's features.

Performance

- Powerful drive system ecospeedPRO for powerful variable acceleration up to 40 km/h – without shaking and tractive force interruption
- Automatic bucket return saves the tool position at the touch of a push button and recalls it again during any new loading process – for maximum precision and speed, for example when stacking or filling
- The power output sets new standards for tipping load, thrusting force and lift capacity
- Perfectly coordinated kinematics for maximum productivity
- Connectible 100% differential lock

Efficiency

- Trailer operation up to 18 tons for all common coupling systems
- Powerful load-sensing hydraulics with 150 l/min (optional 180 l/min) for faster work cycles
- Digging bucket with 1.55 m³ (WL95)/ 1.80 m³ (WL110) for large materials handling
- Diverse options for equipment and tires
- Brake/inching pedal for less wear on the service brake, as well as optimal performance distribution of the engine output
- Different rear hydraulic options expand the application range of the machine



Maintenance

- Optimal service accesses thanks to the wide-opening engine hood and removable mudguards
- Lubricating points are easily accessible
- Divided hydraulic hoses
- Fully automatic central lubrication system (optional)
- Hydraulic reversing fan reverses the air flow at the push of a button, therefore cleaning the radiator

Comfort

- Automatic climate control for working comfort in any ambient temperature
- Excellent all-round visibility thanks to the fully glazed cabin and plenty of headroom and freedom of movement
- Clear 7-inch display
- Joystick console and operator's seat form a unit for more working comfort

Quality

- Extensive standard equipment, such as a large LCD display, rear-view camera, automatic climate control

Good all-round visibility and an ergonomic working area.

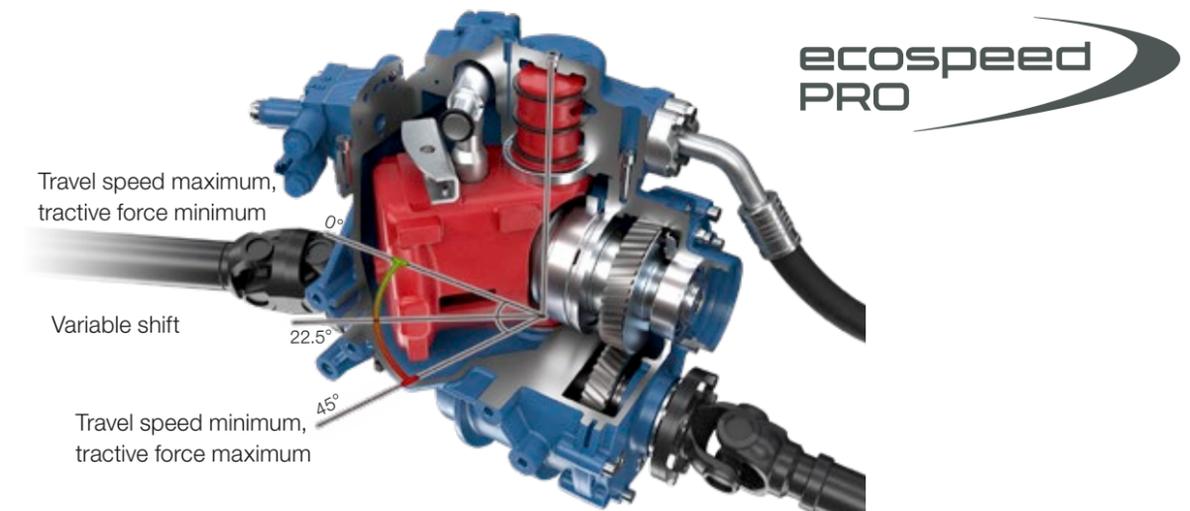
Plenty of legroom, clearly arranged switches, comfortable operator's seat and optimal view of the attachment. A working area that motivates and fully supports the operator. The console with the multifunctional joystick, "Jog Dial", electronic hand throttle and inching were of course realized to swing along with the seat to allow for comfortable driving and working.



With a digital 7"-display, keep everything in view: In addition to the standard displays, such as the temperature, tank fill-level and operating hours, active functions are displayed in the cockpit, such as active electrical functions, the continuous operation of the 3rd control circuit, or the activated differential lock.



Hydraulic oil volume adjustment easily via "Jog Dial": If an attachment does not require the full hydraulic performance, the flow volume can be reduced manually. In this way, the operator can work sensitively with the machine and attachment while saving resources.



Powerful transmission.

The ecospeedPRO is a variable hydrostatic transmission, which achieves higher tractive forces and travel speeds than previously developed solutions, all while retaining the advantages of previous drives with respect to compactness, energy efficiency,

and operator comfort. ecospeedPRO allows for speeds of up to 40 km/h without shifting. This results in a comfortable driving style, since no tractive force interruptions occur nor can shifting jerks be felt.



Optimal service accesses: The WL95 and WL110 offer easy-to-access maintenance flaps and the mudguards can be removed. This allows easy access to the engine, hydraulic system, and electronics. This greatly facilitates the inspection and maintenance of the machine. The engine hood can be opened widely, thereby allowing for optimal access.



Rear articulated joint and oscillating axle: Tight curves, small slopes – every construction site is different. In order to bring the transported material safely to the destination, the WL95 and the WL110 are equipped with an articulated joint and an oscillating axle in the rear. This ensures the optimum maneuverability and traction in any situation. At 40°, the steering angle is generous, the turning circle over tires is 4.90 m and the inner radius is 2.45 m.



Trailer operation up to 18 tons: WL95 and WL110 have a self-recovery coupling as standard. In addition, the following coupling possibilities are available: automatic ball hitch, K50 ball hitch (car trailer), Auto Hitch, Piton Fix, as well as CUNA D3. To safely move trailer loads, there is both a two-line pneumatic brake as well as a hydraulic trailer brake.



The right attachment for every machine.

The tasks for wheel loaders are varied and so are the attachments from Wacker Neuson. With our comprehensive and sophisticated product range, you will make a multifunctional machine out of any model. And through the hydraulic quick hitch system, the attachments can easily be replaced from your seat.

The exact specifications and availabilities of attachments differ depending on the model and country. Your Wacker Neuson partner is happy to help you.

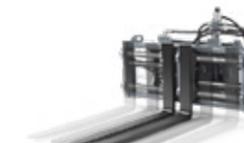


Reliable, even for heavy loads: the width-adjustable pallet fork.



Winter road maintenance made easy with the snowplow and spreader.

Product range for wheel loaders (selection).

				
4-in-1 bucket (with ripper teeth)	Light materials bucket	Side dump bucket	Grab bucket	Stone bucket
				
Pallet fork	Pallet fork (fold-over)	Pallet fork (hydraulically adjustable)	Surface planer	Pot grabber
				
Stump grinder	Mulcher	Branch cutter	V-shaped snowplow	Salt/gravel spreader (110 l, 170 l)
				
Sweeper	Flail mower with collection tray	Earth auger		

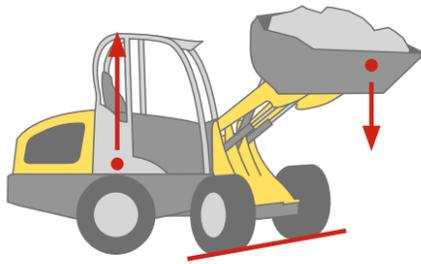
Learn more about our attachments here:
www.wackerneuson.com/attachments

Hydraulic equipment change directly from the operator's seat.



Alongside the specific attachment couplings, there are other couplings available for all Wacker Neuson wheel loaders. Thus, you can use different attachments. You can find more information at your Wacker Neuson distributor.

Tipping load briefly explained.



The tipping load shows the maximum load weight of a machine, including attachment. If the value is reached, the rear wheels will lose contact with the ground.



Wacker Neuson measures the tipping load as per the standard ISO 14397-EN474-3. The following values are specified here:

- Tipping load with bucket – horizontal loading frame, machine straight
- Tipping load with bucket – horizontal loading frame, machine angled
- Tipping load with pallet fork – horizontal loading frame, machine straight
- Tipping load with pallet fork – horizontal loading frame, machine angled

Attention: The tipping load changes due to the machine's standard equipment (e.g. rear weight, cabin or operator's canopy, etc.) and due to different attachments (e.g. buckets with different net weight).



The maximum possible bucket capacity is determined via the tipping load and the payload:

$$\text{Payload} = \frac{\text{Tipping load angled}}{2}$$

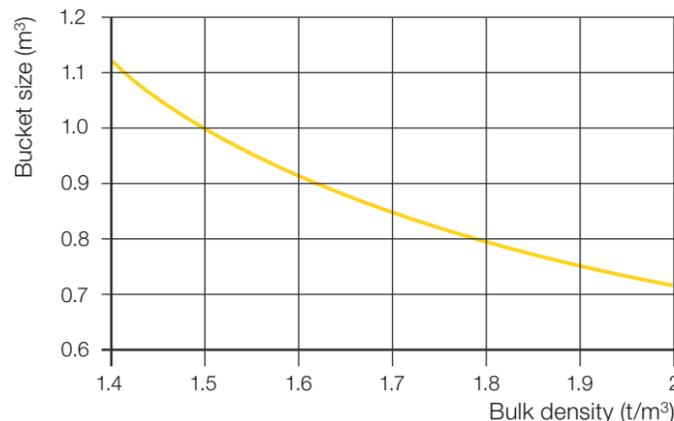
$$\text{Bucket capacity} = \frac{\text{Payload (t)}}{\text{spec. material weight (t/m}^3\text{)}}$$

Bulk material and bucket selection.

Each bulk material has a different density and thus a different weight for the same quantity. The following tables provide you with an overview of the different bulk material and the corresponding bucket selection.

Bulk material	Bulk density t/m ³
Moist soil	2.10
Dry soil	1.50
Lime	1.60
Mortar	2.20
Dry sand	1.65
Moist sand	2.00
Dry gravel	2.00
Moist gravel	2.00
Waste paper	1.10
Household trash	0.70
Loose snow	0.13
Moist snow	0.65
Logs	0.80
Wood chips	0.35
Wood pellets	0.65
Granite	1.80
Sandstone	2.40
Slate	2.20
Bauxite	1.40
Broken plaster	1.80
Coke	0.50
Broken glass waste	1.40
Whole glass waste	1.00
Compost	1.00
Bulky waste	1.00

Bucket selection table



Tire treads.

The correct tires on a wheel loader play a very important role in specific applications. If all tires are optimally attuned to the sub-base and the area of application, everything runs perfectly. There are seven tire profiles available to you. The detailed specifications and availabilities of the tires are different depending on the model and the country. Your Wacker Neuson partner will gladly advise you further.

RP tread (turf)

- Gentle travel on the ground due to the large contact surface
- For application on lawns and green areas



AS tread (tractor)

- Tapered lamellas
- For smeary and very dirty surfaces
- For earthworks, green areas (and loamy ground)



EM tread (earth moving)

- Parallel-running lamellas
- Large contact surface and therefore good thrusting force transmission and high running smoothness on the street
- For earthworks, sand, gravel, crushed stone, asphalt



MPT tread (industry)

- Very broad application spectrum
- Good traction in uneven ground conditions
- Allows for quick road crossings
- For asphalt, gravel, crushed stone, industry



Multi-use tread

- For varied year-round use and various climate conditions
- Good traction on loose surfaces in the summer
- Good stability on snow and slippery driving surfaces during the winter
- For ice/snow, asphalt, industry, municipalities



SureTrax Tread

- Large contact area
- High load-bearing capacity
- Ideal for paved and other hard surfaces
- For asphalt, paving stones, hard and firm ground



Bibload-Tread

- High level of running smoothness and long service life due to the large contact surface with the ground
- Good traction due to the offset tread blocks
- High wear resistance
- For asphalt, industry and firm ground conditions

Variety in the outfitting.

The Wacker Neuson wheel loaders have extensive and high-quality standard components. Furthermore, it is possible to individually configure depending on the application purpose and model (e.g. engine drive system, electrical system and hydraulics). It is always guaranteed that the machine will fulfill the individual demands and preferences.



30/40 km/h speed.

Depending on the type of machine and the corresponding engine version, the wheel loader can optionally achieve a speed of 30 or 40 km/h. This enables a faster movement of the machine from A to B, whilst saving time and increasing economic efficiency.

Electrical connections to the front and/or rear.

Electrically operated auxiliary functions of attachments (like (e.g. a sweeper with water-spraying equipment) can be operated with electrically-operated auxiliary functions. Additionally, it is possible to switch between the auxiliary functions of hydraulic attachments. Operation is thereby comfortably via the joystick. Electrical connections at the front and/or at the back, ensure that various attachments can be operated with the machine. This in turn increases the application range of the machine.



Rear hydraulic connections.

The machine can be equipped with rear hydraulic connections (single or dual-acting). As a result, the application options of the machine are increased, because hydraulic rear attachments or tipper-trailers can be operated. The different hydraulic options expand the application range of the machine and provide more flexibility in use. A machine can be multi-functionally used for different tasks, no additional vehicles or machines are required.



Central lubrication unit.

Through the fully-automatic central lubrication system, it is possible to set the time duration of the lubrication procedure and set the intervals. Through regular re-lubrication of all the lubricating points, the service life is increased, and therefore the value-retention of the machine. Additionally it also provides time and cost saving through the low maintenance effort.



High Flow.

The machine can optionally be equipped with high-flow high-performance hydraulics. This enables the operation of front attachments, which have a high oil requirement (like, e.g. a snowplow). As a result, the application range of the machine is increased, as even demanding attachments can be operated with compact machines.



Climate control system.

The optionally available climate control ensures a comfortable working environment inside the cabin when ambient temperatures are high. The operating element for control and the air nozzles are always in the best possible position dependent on the type of cabin. The climate control increases the comfort for the operator and therefore enables fatigue-free working, as it reduces the operator's load in warm ambient temperatures. With the WL95 and WL110 automatic climate control is already included as standard.



Depressurized return flow, including leakage oil pipe.

Certain attachments with specific hydraulic motors require a depressurized return flow or an overflow oil line. The hydraulic oil flows in a separate line via the hydraulic filter back into the hydraulic oil tank. This presents the benefit that the attachment is able to take the return flow oil back into the hydraulic oil tank. As a result, different components of the machine and the attachment are protected. The overflow oil line takes the oil of the oil motor, where required, with max. 2 bar back to the tank. As a result, the hydraulic oil motor of the attachment is protected.



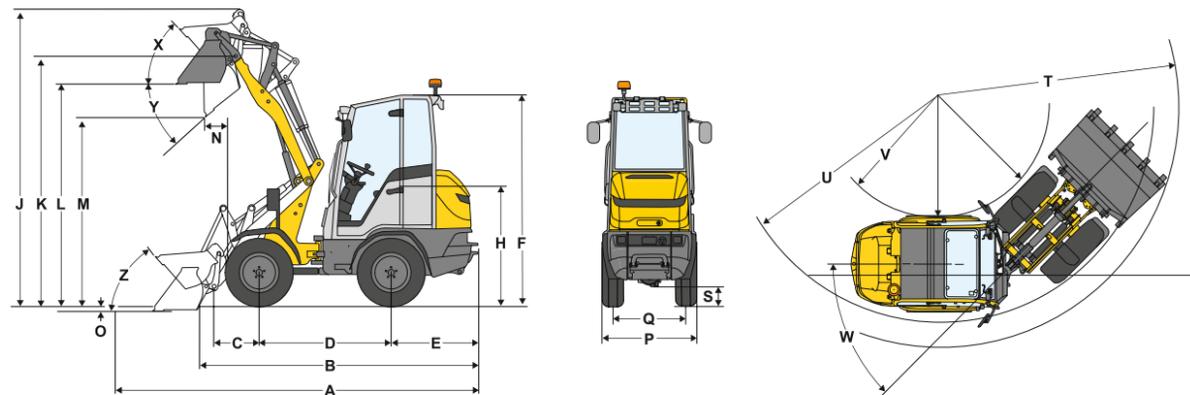
Lighting.

The lighting can be adapted to different requirements. Depending on the machine type, different options are available: Halogen/LED lighting, lighting in accordance with StVZO Halogen/LED, LED Performance, additional headlights on the loading system or the cabin, rotating beacon and with the electrical machines Blue Safety Light. The comprehensive lighting packages enable tailored working with the machine, even in the dark. Good lighting of the work area increases the work safety and allows the operator a longer time concentrated on working with the machine.

Dimensions.

	Unit	WL20e	WL28e	WL20	WL25	WL28	WL32		WL34	WL38	WL44	WL52	WL54	WL60	WL70	WL95	WL110
Standard tires	-	27x10.5-15 Deestone D304 ET0	12-16.5 EM ET0	27x10.5-15 EM ET-5	10-16.5 EM ET0	12-16.5 EM ET0	10-16.5 EM ET0		12.0/75-18 MPT ET-30	15/55-18 EM ET0	12.5-18 MPT ET-50	405/70-18 EM ET0	12.5-18 MPT ET0	405/70-18 EM ET0	405/70-18 EM ET0 Front water filling	500/70 R24 Michelin BIBLOAD ET 40	500/70 R24 Michelin BIBLOAD ET 40
Standard bucket		Digging bucket 1,150 mm, 0.19 m ³	Digging bucket 1,350 mm, 0.45 m ³	Digging bucket 1,150 mm, 0.19 m ³	Digging bucket 1,250 mm, 0.27 m ³	Digging bucket 1,350 mm, 0.45 m ³	Digging bucket 1,400 mm, 0.45 m ³		Digging bucket 1,600 mm, 0.6 m ³	Digging bucket 1,650 mm, 0.6 m ³	Digging bucket 1,900 mm, 0.80 m ³	Digging bucket 2,000 mm, 0.85 m ³	Digging bucket 2,000 mm, 1.0 m ³	Digging bucket 1,900 mm, 1.0 m ³	Digging bucket 2,100 mm, 1.1 m ³	Digging bucket 2,500 mm, 1.55 m ³	Digging bucket 2,500 mm, 1.80 m ³
A Overall length	mm	3,697	4,616	3,721	4,087	4,520	4,755		5,010	5,138	5,420	5,420	5,760	5,898	5,898	6,500	6,500
B Total length without bucket	mm	3,061	3,777	3,063	3,302	3,710	4,022		4,260	4,281	4,760	4,760	4,828	4,780	4,780	5,610	5,610
C Center of axle up to the bucket swivel point	mm	509	670	508	532	670	675		675	675	1,040	1,040	991	991	991	1,200	1,200
D Wheel base	mm	1,468	1,764	1,468	1,612	1,760	1,952		2,045	2,045	2,110	2,110	2,150	2,150	2,150	2,660	2,660
E Rear overhang	mm	971	1,233	975	1,045	1,230	1,290		1,430	1,516	1,530	1,530	1,531	1,676	1,676	1,520	1,520
F Height (min./max.)	mm	1,939-2,336*	1,931-2,418*	1,880-2,302*	1,877-2,291*	1,890-2,395*	2,351		2,220-2,420*	2,371-2,548*	2,332-2,528*	2,498-2,680*	2,495-2,553*	2,693	2,693	3,060	3,060
H Seat height	mm	1,292	1,361	1,225	1,259	1,350	1,354		1,270	1,204	1,470	1,590	1,495	1,609	1,609	1,940	1,940
J Total working height	mm	3,248	3,235	3,274	3,582	3,210	3,715		3,930	4,007	3,890	3,930	4,561	4,409	4,536	4,780	4,780
K Max. height of the bucket swivel point	mm	2,710	2,584	2,693	2,862	2,560	3,208		3,270	3,251	3,200	3,240	3,671	3,686	3,686	3,820	3,820
L Load-over height	mm	2,436	2,264	2,424	2,573	2,240	2,954		2,970	2,892	2,940	2,980	3,335	3,375	3,375	3,550	3,550
M Dumping height	mm	2,017	1,718	2,011	2,047	1,700	2,425		2,460	2,379	2,430	2,470	2,864	2,841	2,840	2,860	2,860
N Reach with M	mm	296	520	350	337	520	252		344	155	665	625	875	799	799	950	950
O Scraping depth	mm	83	108	94	50	130	50		43	120	136	96	114	74	73.5	136	136
P Overall width	mm	1,052	1,251	1,076	1,210	1,250	1,414		1,550	1,570	1,830	1,810	1,750	1,829	1,829	2,390	2,390
Q Track width	mm	804	940	810	940	940	1,148		1,260	1,200	1,500	1,400	1,432	1,422	1,422	1,820	1,820
S Ground clearance	mm	219	284	207	250	270	275		320	312	367	370	352	375	375	500	500
T Maximum outward radius	mm	2,645	3,167	2,681	2,912	3,200	3,534		3,610	3,652	4,270	4,240	4,242	4,072	4,341	5,370	5,370
U Radius on the outer edge	mm	2,379	2,774	2,356	2,590	2,800	3,171		3,350	3,317	3,870	3,850	3,785	3,686	3,686	4,900	4,900
V Inside radius	mm	1,205	1,504	1,219	1,330	1,510	1,731		1,680	1,640	1,990	1,910	1,931	1,666	1,666	2,450	2,450
W Articulation angle	°	45	45	45	45	45	45		45	45	40	40	42	45	45	40	40
X Rollback angle at max. lift height	°	50	47	50	48	47	49		49	43	71	71	44	33	33	56	56
Y Max. angle for bucket emptying	°	40	41	38	42	41	44		43	42	45	45	28	33	33	45	45
Z Rollback angle on the ground	°	49	50	48	46	50	39		43	41	43	43	38	39	39	45	45

* Depending on operator's cab (cabin, cabin low/high, operator's canopy fixed, operator's canopy low/high, operator's canopy fold-down)



Technical data.

	Unit	WL20	WL25	WL28	WL32	WL34		WL38	WL44	WL52	WL54	WL60	WL70	WL95	WL110					
Engine data																				
				Standard	Option		Standard	Option		Standard	Option	Standard	Option							
Engine manufacturer	–	Perkins	Perkins	Yanmar	Yanmar	Perkins	Deutz	Deutz		Deutz	Deutz	Deutz	Deutz	Perkins	Perkins	Deutz	Deutz	Deutz		
Type of drive	–	403 J-11	403 J-17T	3 TNV 80 FT	3 TNV 86 CHT	404 J-E22T	TD 2.9 L4 S5	TCD 2.9 L4 S5		TD 2.9 L4 S5	TCD 2.9 L4 S5	TD 2.9 L4 S5	TCD 2.9 L4 S5	TCD 2.9 L4 S5	TCD 2.9 L4 S5	904J-E36TA	904J-E36TA	TCD 3.6 S5	TCD 4.1 S5	TCD 4.1 S5
Engine output	kW / hp	18.4/25	18.4/25	18.4/25	33.3/45.3/40.1/54.5	45/61.2	45/61	55.4/75		45/61	55.4/75	45/61	55.4/75	55.4/75	55.4/75	75/102	100/136	100/136	115/156	115/156
Cylinders	–	3	3	3	3	4	4	4		4	4	4	4	4	4	4	4	4	4	4
At max. rpm	rpm	2,800	2,800	2,600	2,600	2,600	2,300	2,300		2,300	2,300	2,300	2,300	2,300	2,300	2,200	2,200	2,300	2,300	2,300
Displacement	cm³	1,131	1,663	1,226	1,568	2,216	2,900	2,900		2,900	2,900	2,900	2,900	2,900	2,900	3,621	3,621	3,621	4,038	4,038
Type of coolant	–	Water	Water	Water	Water	Water	Water	Water/charge air		Water	Water/charge air	Water	Water/charge air	Water/charge air	Water/charge air	Water/charge air	Water/charge air	Water/charge air	Water/charge air	Water/charge air
Exhaust standard level	–	V	V	V	V	V	V	V		V	V	V	V	V	V	V	V	V	V	V
Exhaust after-treatment	–	–	–	–	DOC/DPF	DOC/DPF	DOC/DPF	DOC/DPF		DOC/DPF	DOC/DPF	DOC/DPF	DOC/DPF	DOC/DPF	DOC/DPF	DOC/DPF/SCR	DOC/DPF/SCR	DOC/DPF/SCR	DOC/DPF/SCR	DOC/DPF/SCR
Weights																				
Operating weight	kg	2,000–2,150*	2,380–2,550*	2,800–3,300*	3,400	3,900		4,300	4,600	5,100	5,800	5,930	7,140	10,390	11,250					
Break out force	daN	1,280	1,989	2,758	4,269	4,427		4,128	5,620	5,620	3,513	4,034	4,032	6,237	6,036					
Bucket capacity	m³	0.19	0.3	0.42	0.47	0.62		0.64	0.8	0.85	0.9	1.0	1.1	1.55	1.8					
Tipping load with bucket, horizontal loading frame – machine straight	kg	1,215–1,437*	1,393–1,958*	1,910–2,640*	2,032–2,269*	2,925–3,055*		3,719	3,200–3,327*	3,949	3,270–3,583*	3,674	4,762	6,529	7,739					
Tipping load of bucket, loading frame horizontal – angled machine (kg)	kg	977–1,206*	1,144–1,703*	1,600–2,200*	1,692–1,898*	2,443–2,539*		3,113	2,736–2,845*	3,416	2,761–3,045*	3,031	3,926	5,748	6,674					
Pallet fork tipping load (horizontal loading frame – machine straight)	kg	904–970*	1,096–1,536*	1,550–2,140*	1,731–1,908*	2,615–2,716*		3,170	2,478–2,562*	3,055	3,035–3,270*	3,344	4,254	5,371	6,851					
Tipping load of bucket, loading frame horizontal – angled machine	kg	719–866*	975–1,339*	1,310–1,800*	1,459–1,605*	2,200–2,276*		2,662	2,126–2,204*	2,555	2,599–2,813*	2,791	3,559	4,728	5,946					
Operator's cab																				
Operator's cab (optional)	–	FSD (EPS, cabin)	FSD (EPS, cabin)	FSD (EPS, cabin)	FSD (cabin)	FSD (cabin)		Cab	FSD (cabin)	Cab	FSD (cabin)	Cab	Cab	Cab	Cab					
Filling levels																				
Tank capacity for fuel	l	20	45	50	65	65		65	82	82	82	105	105	140	140					
Tank capacity for hydraulic oil	l	20	27	30	35	50		50	66	66	66	95	95	125	125					
Drive system																				
Drive system	–	Hydrostatic via universal joint shaft	Hydrostatic via universal joint shaft	Electronically controlled hydrostatic via universal joint shaft	Hydrostatic via universal joint shaft	Hydrostatic via universal joint shaft		Hydrostatic via universal joint shaft												
Speed ranges	–	2	2	2	2	2		2	2	2	2	2	2	3	3					
Travel speed (optional)	km/h	0–20	0–20	0–20 (30)	0–20 (28)	0–20 (28)		0–20 (28)	0–20 (30)	0–20 (30)	0–20 (30)	0–20 (30)	0–20 (30/40)	0–20 (30/40)	0–20 (30/40)					
Hydraulic system																				
Drive hydraulics working pressure (optional)	bar	330 (450)	370	400 (470)	450	450		445	450	450	445	445	445	480	480					
Work hydraulics flow rate (optional)	l/min	30.8	44.8	41.6 (49.5–84)	56 (63–100)	57.5 (73.6)		56 (63–116)	58.5 (64–115)	73.6 (83–115)	64	100 (115/150)	100 (115/150)	150 (180)	180					
Work hydraulics working pressure (optional)	bar	225	185	210	210	210		210	220	220	210	210	210	250	250					
Noise characteristic values																				
Average sound power level LwA	dB (A)	98.4	100.1/99.7	99	99.8	99.5		99.3	100.2	100.3	100.5	101	101	100.7	100.7					
Guaranteed sound power level LwA	dB (A)	101	101	101	101	101		101	101	101	101	103	103	102	102					
Specified sound pressure level LpA	dB (A)	84	85/82	84	82	75		78	78	78	75	78	78	70	70					

* optional equipment

Tipping load according to ISO 14397-EN474-3

Break out force according to ISO 14397-2

FSD = operator's canopy

EPS = Easy Protection System (fold-down operator's canopy)

DOC = diesel oxidation catalyst

DPF = diesel particulate filter

SCR = selective catalytic reduction

The Wacker Neuson product range includes over 300 different product series with different versions. The product data may vary accordingly with the selection of different options. Not all Wacker Neuson products listed or shown here are however available or allowed in all countries. The Wacker Neuson products shown are examples and as such are subject to changes. We are happy to make you a specific offer upon request. Reproduction only with the written approval of Wacker Neuson.

© Wacker Neuson SE

Technical data.

	Unit	WL20e			WL28e		
Electric motor							
Motor hydraulics	kW	6.5 (EN60034-1)			33.1 (ECE R085)		
Motor work hydraulics	kW	8.5 (EN60034-1)			21.2 (ECE R085)		
Battery							
		Standard	Option	Option	Standard	Option	Option
Battery type	–	Lithium ion	Lithium ion	Lithium ion	Lithium ion	Lithium ion	Lithium ion
Battery voltage	V	48	48	48	96	96	96
Battery capacity (gross)	kWh	14.1	18.7	23.4	14.1	18.0	28.0
Battery weight	kg	132	148	165	153	186	244
Charging time	h	4–6*	3–8*	4–10*	4.7–6*	3.2–7.5h*	5.5–11.5*
Best possible load time (from 20% to 80%)	h	2.9*	1.9*	2.4*	2.9*	1.8*	2.7*
Running time (uninterrupted)	h	Up to 3.27**	Up to 5.07**	Up to 7.30**	Up to 2.5**	Up to 3.5**	Up to 5.3**
Weights							
Operating weight	kg	2,170 - 2,350***			2,800 - 3,300***		
Break out force	daN	2,170			2,758		
Bucket capacity	m³	0.19			0.42		
Tipping load with bucket, horizontal loading frame – machine straight	kg	1,550 - 1,620***			1,860 - 2,510***		
Tipping load of bucket, loading frame horizontal – angled machine	kg	1,210 - 1,320***			1,560 - 2,070***		
Tipping load of pallet fork, loading frame horizontal – machine straight	kg	1,110 - 1,160***			1,550 - 2,070***		
Tipping load of pallet fork, loading frame horizontal – angled machine	kg	860 - 940***			1,310 - 1,720***		
Operator's cab							
Operator's cab (optional)	–	FSD (EPS, cabin)			FSD (EPS, cabin)		
Filling levels							
Tank capacity for hydraulic oil	l	20			30		
Drive system							
Drive system	–	Electrically via universal joint shaft			Electrically via universal joint shaft		
Speed ranges	–	1			2		
Travel speed (optional)	km/h	0–15			0–15 (20, 25)		
Hydraulic system							
Work hydraulics flow rate (optional)	l/min	32			41.6		
Work hydraulics working pressure (optional)	bar	225			210		
Noise characteristic values							
Average sound power level LwA	dB (A)	91.8			–		
Guaranteed sound power level LwA	dB (A)	92			–		
Specified sound pressure level LpA	dB (A)	76			–		

Tipping load according to ISO 14397-EN474-3

Break out force according to ISO 14397-2

FSD = operator's canopy

EPS = Easy Protection System (fold-down operator's canopy)

* The charging time is dependent on the different charging options. On-board battery charger 3 kW (standard), with additional on-board charger, total 6 kW (option). The following plug options are available: 230 V/10 A Schuko, 230 V/16 A CEE (blue, 3-pole), 400 V/16 A CEE (red, three-phase current, 5-pole), 400 V/16 A (Type 2 plug Wallbox, IEC 62196) and other adapter plugs.

** The running times of the battery are dependent on the respective application conditions, the task and the driving style. This may also mean that a longer running time can be achieved. The specified running times may also be undercut in extreme cases. The specified running times refer to uninterrupted operation and working with the machine.

*** optional equipment



Wacker Neuson – all it takes.



Concrete technology



Vibratory rammers



Vibratory plates



Rollers



Demolition technology



Generators



Lighting



Pumps



Excavators



Wheel loaders



Telehandlers



Dumpers



Financial solutions



Repair & maintenance



Academy



EquipCare & EquipCare Pro



Rental



Concrete specialists



eStore



Spare parts



Used machines



ConcreteTec



wackerneuson.com



Facebook
wackerneuson



Instagram
@wackerneuson



YouTube
Wacker Neuson



LinkedIn
Wacker Neuson



TikTok
@wacker.neuson



WN.EMEA.10094.V11.EN-US

09/2023 EN