

Wheel loaders



**WACKER
NEUSON**



**Powerful, agile and
ready to work anywhere.**

The Wacker Neuson wheel loaders.

Indispensable at the construction site:
The Wacker Neuson wheel loaders.



The Wacker Neuson wheel loaders make every deployment at the construction site even more productive.

The right solution for any task – for this purpose the Wacker Neuson wheel loader series offer overall nine machine types available with finely graduated performance parameters: From the small compact WL 20 and 25 to the all-rounders WL 30, 36, and 37 up to the powerful WL 48, 50, 55 and 57 – no wishes will remain unfulfilled.

Your Wacker Neuson wheel loaders:
 With customized equipment.
 Built appropriate to need.
 Always in form.

Exactly how you want your machine to be.
 They integrate engine, driver's cabin and tyres in your dream machine. A lot of intelligent equipment additionally makes it the attachment carrier of your choice. A Wacker Neuson wheel loader can simply do more.

Your new workplace. Low climb, ergonomically designed driver's cabin and a comfort seat you can adjust to your weight and height. Simply owning quality.

Firm stand, safe driving. The low center of gravity assures stable contact with the ground for your Wacker Neuson wheel loader – especially on uneven terrain. Stability on the ground is a guarantor of safety.

Change attachments without climbing down.
 The hydraulic locking makes your work easier and your Wacker Neuson wheel loader particularly versatile and flexible. It is converted for new jobs within seconds.

Power kinematics for short work cycles. A hydraulics cylinder with large dimensions develops enormous tearing forces when tilting in. The transport material is therefore taken up quickly. This force also accelerates unloading. You will gain time this way



WNL

True maneuverability: Efficient use on smallest space.

Maneuverable to the smallest angle. Owing to the articulated pendulum joint, the Wacker Neuson wheel loaders effortlessly master winding, narrow access ways, small spaces or storages as well as construction sites with tight work radius. Your jobs will therefore be completed extremely efficiently and within the shortest time.



EXACT LOADING
AND UNLOADING
OWING TO
THE ARTICULATED
PENDULUM
JOINT.

The articulated pendulum joint provides extreme agility



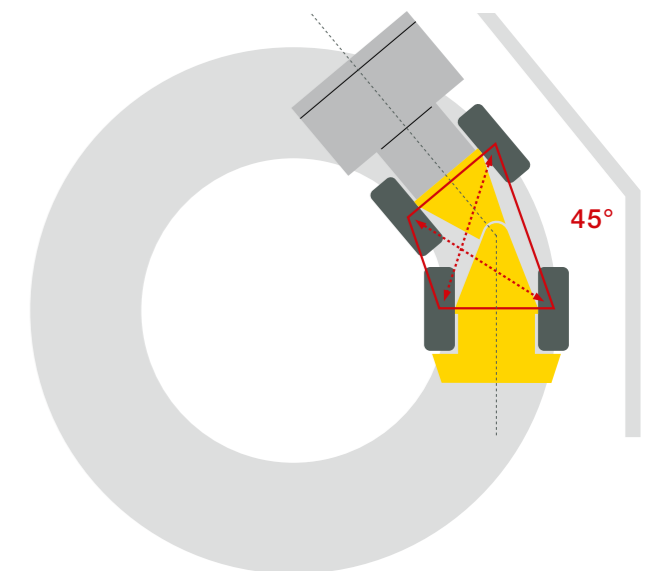
1 Articulate pendulum joint.

Ensures excellent handling on uneven terrain. The built-in articulate pendulum joint responds to unevenness on the ground and thereby guarantees that all four wheels will stay on the ground at all times. This means stability is extremely strong.

2 Saves time, is efficient and stable.

Wacker Neuson wheel loaders drive effortlessly in a 45° angle in one driving motion. At the same time, also the add-on equipment contributes to the turning radius. Ideal in tight spaces.

2

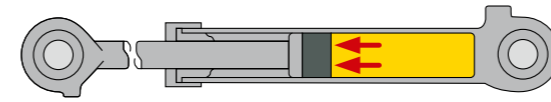


WL

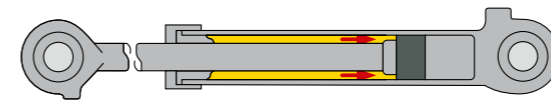
The right kinematics for any work task.



1 Loading: by a lot of power.

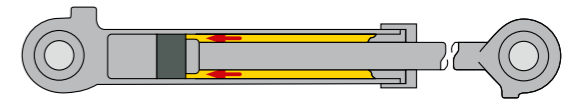


2 Unloading.

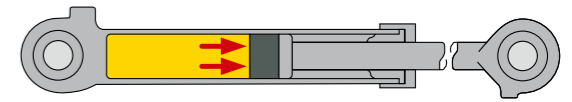


PZ- and Z-kinematics

1 Loading: by a high speed.



2 Unloading.



P-kinematics

1 P-kinematics (WL 20, WL 25).

The P-kinematics offers an exact parallel guide across the entire lifting section.

2 PZ-kinematics (WL 30, WL 36, WL 37).

The PZ-kinematics is a good combination of both kinematics. It provides both good shearing forces as well as a finely tuned parallel guide.

3 Z-kinematics (WL 48, WL 50, WL 55, WL 57).

The perfectly tuned Z-kinematics facilitate that the force will always be utilized optimally in loading and unloading. In doing so it generates tremendous lifting and shearing forces in quick cycles.

WNL

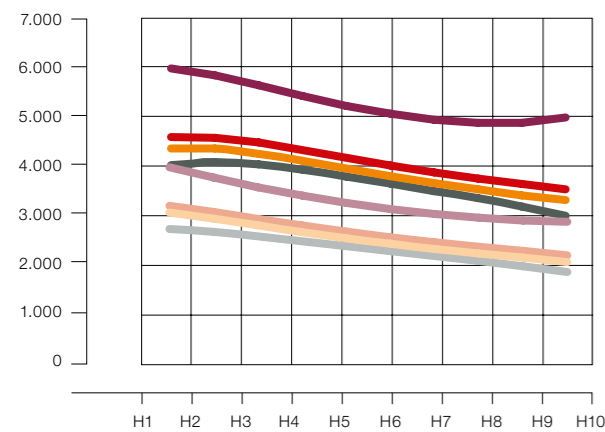
The ideal combination: Extremely high lifting and shearing forces.

Enormous power and strength. This is what the four Wacker Neuson wheel loader models show as soon as they get to work. If it is about loading massive loads, transporting heavy construction site material or master a heavy workload in shortest time, then the WL 48, WL 50, WL 55 and WL 57 are the right choices. They work at extreme persistence and efficiency with perfectly tuned kinematics for quick cycles.

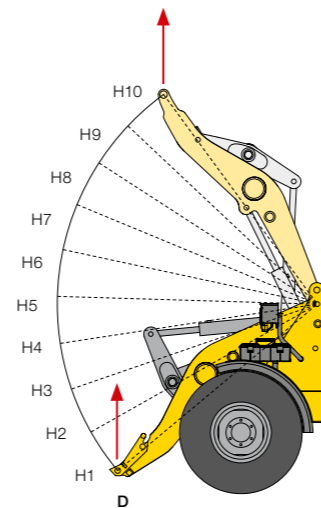
OUR SPECIALISTS FOR HIGH-VOLUME MATERIAL TURNOVER:
WL 48, WL 50,
WL 55, WL 57



LIFTING FORCE WL 48 / 50, WL 55 / 57 (operating pressure: 210bar)
daN

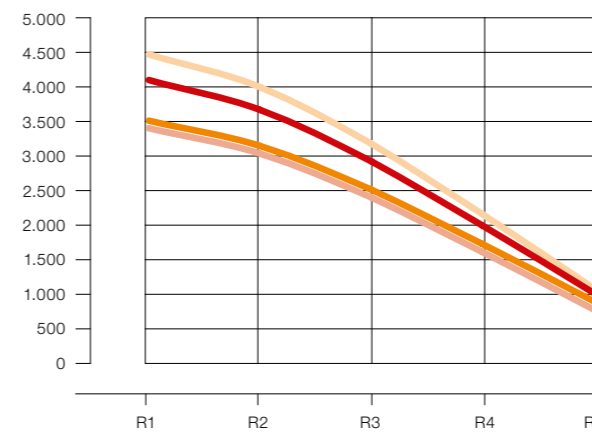


Lifting force.
The lifting force diagram states the maximum lifting forces in the different positions of the load arm pivot point D. The values are a measure of the strength of the design, the load arms, the entire hydraulics system and the front carriage. The definition of the lifting force is based on DIN 24094.

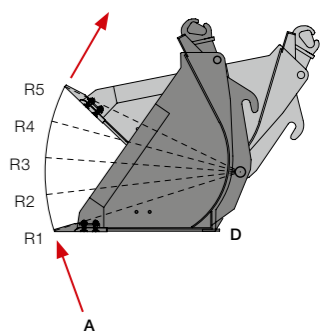


- WL48 WL55
- WL50 WL57
- Pivot point of the attachment holder
- Standard bucket: Point of gravity on the center of the bucket
- Universal bucket: Point of gravity on the center of the bucket
- Pallet fork: 500 mm from the back of the fork

BREAKAWAY FORCE WL 48 / 50, WL 55 / 57 (operating pressure: 210bar)
daN



Breakaway force.
The breakaway force diagram specifies the maximum braking forces (shearing forces) on the different positions of the tip of the bucket A. The values are a measure of the strength of the tilting cylinders and the design of the loading arm kinematics. Notice: the smaller the distance between the pivot point d and the tip of the bucket A, the greater the shearing force. The definition of the breakaway force is based on DIN 24086.



- WL48 WL55
- WL50 WL57
- Standard bucket: Point of gravity on the center of the bucket
- Universal bucket: Point of gravity on the center of the bucket

WNL

Efficiency that pays off.

Efficient deployments to the construction site require technical solutions.

Efficiency today is one of the most important attributes wheel loaders for construction sites should have. Because the faster and time efficient a wheel loader maneuvers, the higher its output. With wheel loaders of Wacker Neuson, efficiency means technically refined solutions, such as large lifting heights, strong shearing forces, great stability, a simple quick-change system and a differential lock that can be switched on to 100%.



The differential lock that can be switched on to 100% offers maximum thrusting forces to you as needed and – while turned off normal operations – keeps the wear and tear on wheels low.

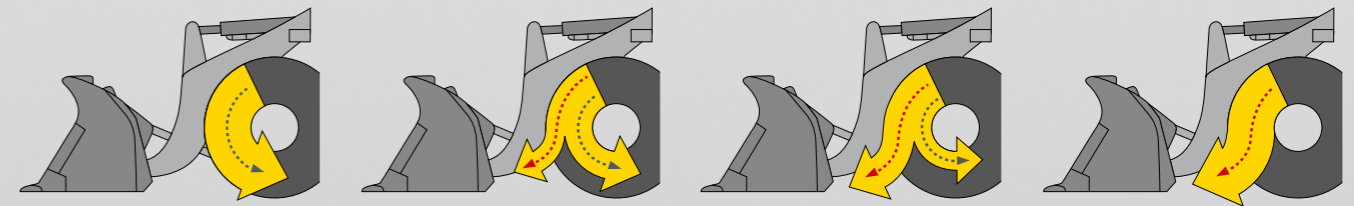
Owing to the hydraulic quick-change system,

the attachments can be exchanged easily. This way, the wheel loaders will be ready for the job again right away. This increases productivity and raises efficiency



The full force transfers when inching to the brake-inch pedal to the hydraulics of the loading arm.

Combined brake-inch pedal. The mechanical and hydraulic braking („inching“) with just one pedal yields many advantages: The wear and tear of the operating brake is reduced considerably and you can maneuver the machine safely and precisely at any time even with heavy loads.



WNL

3 different driver's cabins. For more flexibility.

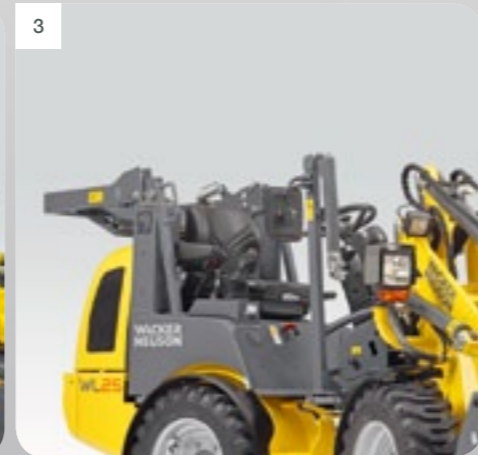
First-class secured with ROPS and FOPS.

The 3 different driver's cabins offer first-class Wacker Neuson quality, high safety standards and are customized specifically for your work processes.

All 3 driver's cabins provide both ROPS protection (Roll Over Protective Structure) as well as FOPS protection (Falling Object Protective Structure). Safety is the top priority for Wacker Neuson.



With just a few grips the folding driver protection roof (Easy Protection System) is prepared for a low height of passage.



1 Driver protection roof.

Standard for WL20, WL25 and WL30.

2 Cabin.

Standard for WL36, WL37, WL48, WL50, WL55 and WL57. Optionally available for WL25 and WL30.

3 eps (Easy Protection System).

Possible as an option for WL20, WL25 and WL30.



WVL

A workplace of first class:
Operating and driving comfort
with optimal sight.



1



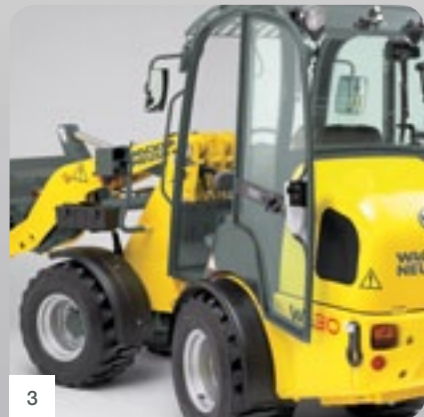
4



2



5



3



6

FAST
AND EXACT
STEERING.

1 All operating elements and displays

are arranged clearly and can be understood at one glance. Thanks to their intuitive operability, the driver is quickly well-versed in steering the wheel loader.

2 The steering column

or the steering wheel is adjustable and can be adapted optimally to the needs of the driver.

3 Large doors that can be opened wide

on both sides and the anti-slide climb guarantee safe and simple climbing in and out.

4 The compact work head lights

ensure optimal lighting and safe working. Four work head lights are included in the serial production delivery.

5 The adjustable driver's seat

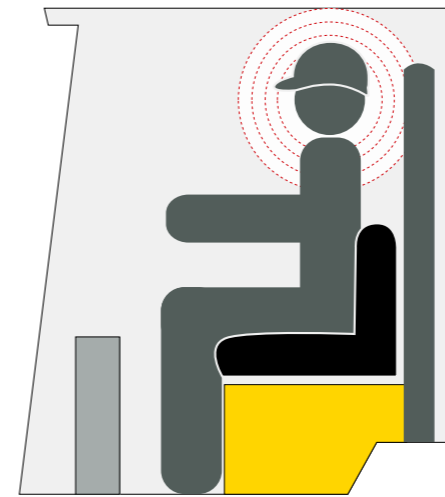
has an ergonomic shape, perfect cushioning and leaves no wishes for comfort unfulfilled.

6 The joystick

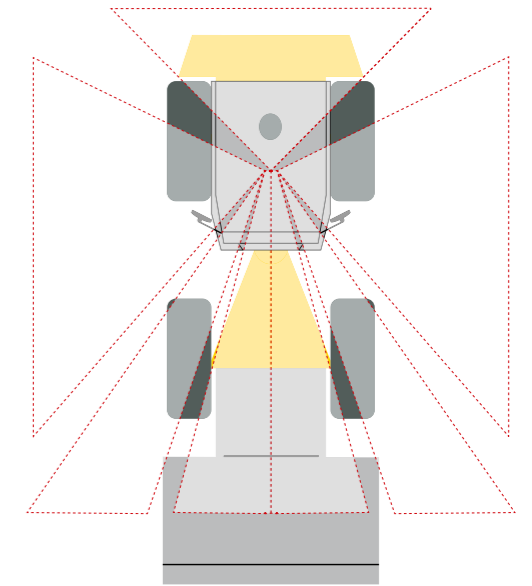
rests perfectly in your hand, can be operated intuitively and allows steering a change of direction, lifting movements or emptying and loading the attachments easily off the cuff.

7 The work atmosphere

is excellent in any weather owing to an effectively functioning heating and ventilation system with fan, fresh air filter and well-placed air nozzles.



The spacious cabin offers a lot of head space and free movement. This way the operator can fully concentrate on what is essential and at the same time work comfortably and safely even in tough jobs.



Unobstructed view all around. The all-around glazed driver's cabin provides an excellent oversight of the add-on equipments, the direct work area and the entire machine environment.



7

WNL

Reliable engine technology:
Strong. Powerful.
Always ready for use.

Engines with the added benefit of efficiency.

Especially in permanent operation, the high-performance diesel engines of Perkins and Deutz continuously produce maximum output. At the same time they are quiet and low in consumption. The 4-cylinder diesel engines with running quietly work reliably and are extremely robust. One tip on the gas pedal and the engines develop their full force. This adds a lot of driving dynamics and ensures effective work operations.

GOOD
PERFORMANCE -
GOOD WORK.



WNL

Maximum periods of use, minimum downtimes: Maintenance and service by Wacker Neuson.

Expert maintenance made easy. Wacker Neuson wheel loaders have a well-thought out design and a robust built. Each component fulfills the highest demands in terms of quality and load-bearing capacity. Longer periods of operation and continuous efficiency are guaranteed just as much as efficient use at all construction sites.

Daily maintenance and regular interval service can be performed quickly and comfortably by virtue of the easy accessibility of the engine, hydraulics system and electrical system. Also directly on site. The downtimes are reduced to a minimum and the wheel loaders are fully back to readiness for operation within a very short time.

The driver's cabin that is laterally tiltable and the easy-to-open hood allow for quick and simple accessibility to the hydraulics system, engine and air filters.



Full service for your entire machine pool is optionally available.



Practical service packs. Available in 24 hours. Wacker Neuson keeps a brand quality selection of practical service packs on stock for immediate shipment. Within just 24 hours you will receive all parts you require for the appropriate, professional and problem-free repair.

The Wacker Neuson Service. Always and in any case there for you. You can rely on Wacker Neuson products. In the same way as you can rely on our comprehensive service offer and our nationwide service network.

Be it professional immediate help or on-site management and consulting: A competent Wacker Neuson employee near you is always available and happy to be there for you. Regardless of where your company headquarters or your construction sites are located. The Wacker Neuson Service is a strong partner at your side.

WNL

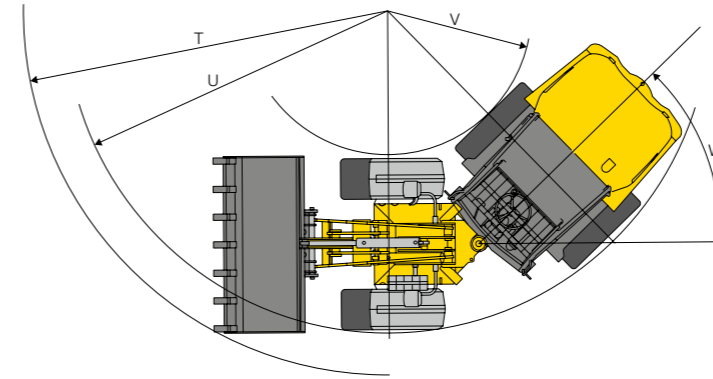
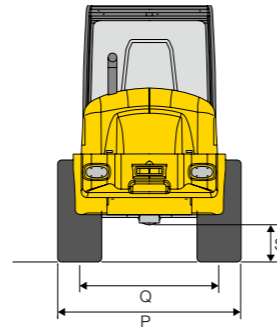
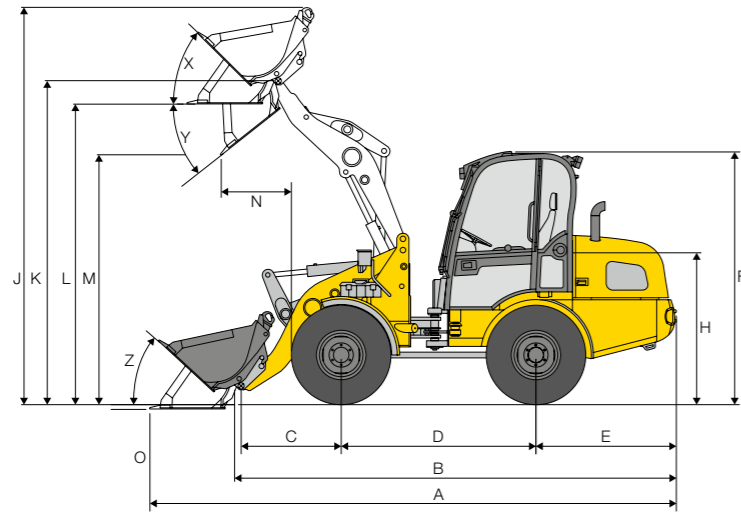
The Wacker Neuson wheel loaders in daily use. Performance cannot be more convincing.



Technical data.

	WL 20*	WL 25*	WL 30*	WL 36	WL 37	WL 48	WL 50	WL 55	WL 57
ENGINE									
Manufacturer / Type	Perkins / 403 D-11	Perkins / 404 D-15	Perkins / 404 D-22	Perkins / 404 D-22	Deutz / TD2011 L04w	Deutz / D2011 L04w	Deutz / TD2011 L04w	Deutz / TD2011 L04w	Perkins / 1104D-44T
Engine power kW/PS	18.5 / 25	24.6 / 33	35.7 / 49	35.7 / 49	55.1 / 75	45 / 61	55.1 / 75	55.1 / 75	74.5 / 101
Engine power with torque in maximum U/min	2,800	2,800	2,600	2,600	2,300	2,300	2,300	2,300	2,200
Cylinders	3	4	4	4	4	4	4	4	4
Displacement cm ³	1,131	1,508	2,216	2,216	3,619	3,619	3,619	3,619	4,400
Coolant type	Water	Water	Water	Water	Water	Water	Water	Water	Water
Speed km/h									
Level 1	0-7	0-7	0-7	0-7	0-7	0-7	0-7	0-7	0-7
Level 2	0-20	0-20	0-20	0-20	0-20	0-20	0-20	0-20	0-20
Optional	0-30	0-30	0-28	0-28	0-28	0-30	0-30	0-30	0-30
OPERATING DATA, WEIGHTS									
Operating weight kg	2,000	2,380	3,050	3,630	3,730	4,835	4,835	5,510	5,760
Bucket content with standard bucket m ³	0.2	0.35	0.45	0.60	0.60	0.75	0.75	0.95	0.95
Max. lifting force daN	2,170	2,473	3,229	3,706	3,706	4,342	4,342	5,954	5,954
Max. breakaway force daN	1,280	1,989	4,043	3,907	3,907	3,431	3,431	4,184	4,184
Tipping loads kg									
With bucket straight / pivoted	1,240 / 997	1,508 / 1,239	1,912 / 1,625	2,585 / 2,118	2,688 / 2,228	3,116 / 2,544	3,116 / 2,544	3,356 / 2,834	3,663 / 3,073
With pallet fork straight / pivoted	903 / 719	1,150 / 945	1,537 / 1,300	2,110 / 1,774	2,203 / 1,853	2,589 / 2,116	2,589 / 2,116	2,857 / 2,446	3,078 / 2,644
Tipping loads kg									
With bucket pivoted (40°) kg	1,036	1,284	1,625	2,192	2,308	2,616	2,616	2,908	3,153
With pallet fork pivoted (40°) kg	747	979	1,300	2,001	2,126	2,176	2,176	2,510	2,713
HYDRAULICS SYSTEM									
Operating hydraulics									
Operating pressure bar	225	185	210	210	210	230	230	210	210
Output l	30,8	45	49	49	52	64	64	103	99
Driving hydraulics									
Operating pressure bar	330	450	450	450	450	445	445	450	450
Output l	72	78	78	104	129	129	129	163	149
Lifting cylinder	2	2	2	2	2	2	2	2	2
Tipping cylinder	1	1	1	1	1	1	1	1	1
STEERING									
Pendulum angle °	± 12	± 12	± 12	± 12	± 12	± 12	± 12	± 12	± 12
Steering cylinder	1	1	1	1	1	1	1	1	1
FILLING VOLUMES									
Tank volume for fuel l	20	45	53	55	55	90	90	90	90
Engine oil l	4	4.5	8.3	8.3	10.5	10.5	10.5	10.5	8
Hydraulics tank l	20	27	32	65	65	80	80	80	80
Hydraulics system l	37	36	40	75	75	100	100	100	100
Coolant l	4.3	7.5	11.5	10.0	10.0	10	10	10	13
Front axle / Rear axle l	2.5 / 2.5	2.5 / 3.5	3.2 / 3.9	4.0 / 4.7	4.0 / 4.7	4.2 / 4.9	4.2 / 4.9	5.2 / 6.1	5.2 / 6.1
ELECTRIC SYSTEM									
Operating voltage V	12	12	12	12	12	12	12	12	12
Battery Ah	77	77	77	77	77	95	95	95	95
Light system A	40	65	65	65	90	95	95	95	85
NOISE LEVEL									
Cabin LpA	85	82	85	78	77	78	78	75	78
Outside LwA	101	101	101	101	101	101	101	101	103

* Driver's canopy



	WL 20	WL 25	WL 30	WL 36 WL 37	WL 48 WL 50	WL 55 WL 57
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DIMENSIONS

A	Total length mm	3,721	4,087	4,554	4,960	5,417	5,729
B	Total length without bucket mm	3,063	3,302	3,748	4,126	4,545	4,784
C	Center of axle up to the bucket pivot point mm	508	532	722	701	1,030	990
D	Wheelbase mm	1,468	1,612	1,732	2,020	2,005	2,150
E	Tail section mm	975	1,045	1,179	1,296	1,445	1,499
F	Height of fixed driver's canopy mm	2,189	2,187	2,230	-	-	-
	Height of folding driver's canopy mm	2,293	2,291	2,344	-	-	-
	Height of folding driver's canopy when folded mm	1,880	1,877	1,828	-	-	-
	Height with cabin mm	-	2,208	2,251	2,310	2,602	2,602
H	Seat height mm	1,225	1,259	1,254	1,330	1,563	1,567
J	Total working height mm	3,274	3,582	4,070	4,050	4,090	4,411
K	Max. height of bucket pivot point mm	2,693	2,862	3,209	3,240	3,336	3,640
L	Loading height mm	2,424	2,573	2,990	2,969	3,094	3,413
M	Dumping height mm	2,011	2,047	2,416	2,428	2,569	2,790
N	Coverage at M mm	350	337	334	296	723	785
O	Digging depth mm	94	50	26	54	50	45
P	Total width mm	1,076	1,210	1,345	1,560	1,840	1,862
Q	Track width mm	810	940	941	1,200	1,400	1,422
S	Ground clearance mm	207	250	261	297	377	315
T	Maximum radius mm	2,681	2,912	3,442	3,677	3,908	4,082
U	Radius on the outer wheel mm	2,356	2,590	3,080	3,303	3,449	3,637
V	Internal radius mm	1,219	1,330	1,714	1,674	1,546	1,716
W	Articulation angle °	45	45	40	45	44	44
X	Rollback angle at max, lifting height °	50	48	50	54	45	44
Y	Max. angle for bucket emptying °	38	42	43	40	38	38
Z	Rollback angle on the ground °	48	46	43	48	43	41
	Standard bucket = digging bucket width mm	1,150	1,250	1,400	1,650	1,900	2,000

All values with standard bucket

Changes reserved without notice. Errors and omissions excepted. Only the contractual agreement is decisive.

	WL 20	WL 25	WL 30	WL 36 WL 37	WL 48 WL 50	WL55 WL57
SERIES EQUIPMENT AND OPTIONS						
ENGINE AND SPEED						
Perkins diesel engine 403-D11 18.5 kW	●	-	-	-	-	-
Perkins diesel engine 403-D15 23.4 kW	○	-	-	-	-	-
Perkins diesel engine 404-D15 24.6 kW	-	●	-	-	-	-
Perkins diesel engine 404-D22 35.7 kW	-	-	●	●	-	-
Deutz diesel engine D2011 L04w 45 kW	-	-	-	-	●	-
Deutz diesel engine TD2011 L04w 55.1 kW	-	-	-	○	○	●
Perkins diesel engine 1104D-44T 74.5 kW	-	-	-	-	-	○
Driving speed 0-20 km/h	●	●	●	●	●	●
Acceleration to 28 km/h	-	-	○	○	-	-
Acceleration to 30 km/h	○	○	-	-	○	○
AXLES						
T80 axle	●	-	-	-	-	-
T94 axle	○	●	-	-	-	-
PA940 planetary axle	-	-	●	-	-	-
PA1200 planetary axle	-	-	-	●	-	-
PA1400 planetary axle	-	-	-	-	●	-
PA1422 planetary axle	-	-	-	-	○	●
Differential lock 100 % can be switched on electro-hydraulically on the front and rear axle	○	●	●	●	●	●
STANDARD TIRES						
Tires 27 x 10.5-15 EM ET-5	●	-	-	-	-	-
Tires 10 x 16.5 EM ET0	-	●	-	-	-	-
Tires 31 x 15.50-15 EM ET0	-	-	●	-	-	-
Tires 15.5/55-18 EM ET0	-	-	-	●	-	-
Tires 405/70-18 EM ET0	-	-	-	-	●	●
HYDRAULICS						
Hydraulics connection in the front DN10	●	●	-	-	-	-
Hydraulics connection in the front DN12	-	-	●	●	●	●
Unpressurized reflux	○	○	○	○	○	○
Load-lowering valve	○	○	○	○	○	○
Load vibration suppression	-	-	○	○	○	○
KINEMATICS						
P-kinematics	●	●	-	-	-	-
Z-kinematics	-	-	-	-	●	●
P-Z kinematics	-	-	●	●	-	-
DRIVER'S CABIN						
Driver's canopy ROPS and FOPS tested	●	●	●	-	-	-
Easy Protection System (eps) ROPS and FOPS tested	○	○	○	-	-	-
Cabin with heating, ventilation and wipers ROPS and FOPS tested	-	○	○	●	●	●
Laterally tiltable driver's cabin	●	●	●	-	-	-
Laterally tiltable cabin	-	○	○	●	●	●
Adjustable steering column	●	●	●	-	-	-
Adjustable steering wheel	-	-	-	●	●	●
Comfort seat with safety belt and full cushioning	●	●	●	●	●	●
Comfort seat with safety belt and air cushioning	○	○	○	○	○	○
MISCELLANEOUS						
Fuel display	●	●	●	●	●	●
Operating hours meter	●	●	●	●	●	●
Lighting display according to Road Traffic Regulations	●	●	●	●	●	●
TÜ [Technical Control Board] certificate for driving on public roads	●	●	●	●	●	●
Battery circuit breaker	●	●	●	●	●	●
Weight of cast iron rear including self-recovery feature	●	●	●	●	●	●
Hydraulic quick-change system for attachments	●	●	●	●	●	●
Air conditioning	-	-	-	○	○	○
Fully automatic central lubrication unit	○	○	○	○	○	○

● Series ○ Option - not available

Whole body vibrations:

- Every machine is equipped with a driver's seat that meets the requirements of EN ISO 7096:2000.
- In the designated use of the loader, the whole body vibrations range from below 0.5 m/s² up to a temporary maximum value.
- It is recommended for the calculation of the vibration values according to ISO/TR 25398:2006 to use the values specified in the table. At the same time the actual use conditions have to be taken into consideration.
- Telescopic loaders, like wheel loaders, can be classified by operating weight.

Hand-arm vibrations:

- The hand-arm vibrations do not exceed 2.5 m/s².

VIBRATIONS	
LOAD TYPE	
Compact wheel loader (operating weight < 4.500 kg)	
Wheel loader (operating weight < 4.500 kg)	

Typical operating conditions	Average value			Standard deviation (s)		
	1.4*a _{w,eqx} [m/s ²]	1.4*a _{w,eqy} [m/s ²]	a _{w,eqz} [m/s ²]	1.4*s _x [m/s ²]	1.4*s _y [m/s ²]	s _z [m/s ²]
Load & carry (loading and transport work)	0.94	0.86	0.65	0.27	0.29	0.13
Load & carry (loading and transport work)	0.84	0.81	0.52	0.23	0.20	0.14
Use in extraction (rough operating conditions)	1.27	0.79	0.81	0.47	0.31	0.47
Transfer drive	0.76	0.91	0.29	0.33	0.35	0.17
V-operation	0.99	0.84	0.54	0.29	0.32	0.14

All technical information in this brochure relates to serial models tested in Central European operating conditions and describes their standard functions. The equipment and its functional modalities as well as accessories depend on the relevant model and the options of the products as well as the country-specific requirements in the country of sale. Images may show products not mentioned or not available as serial models. The descriptions, images, weight specifications and technical data are non-binding and conform to the state of the art at the time of printing. We have to reserve changes in the areas design, equipment, optics and technology without announcement due to the continuous further development of the products. If you require special features that are only available when using additional components and/or in particular framework conditions, please ask us! We are happy to answer your questions and will provide information to you whether and in which product and environmental conditions the special features can be implemented. In the case of concerns regarding the capacity or mode of functioning of our products because of special circumstances, we recommend test work in controlled framework conditions. Despite greatest care and diligence applied, we cannot rule out deviations from the images or measures, errors in calculation, misprints or omissions in the brochure. We therefore do not give a warranty for the correctness and completeness of our statements in this prospectus. We guarantee the flawless functionality of our products in the scope of our general terms and conditions. Warranties in excess thereof are generally not extended by us. Any liability in excess of our general terms and conditions is precluded.

PIECE BY PIECE, GENUINE WACKER NEUSON ORIGINALS ARE COMING TO LIFE IN THE STATE-OF-THE-ART FACTORY IN KORBACH.

A clever production process and a stringent storage management assure that all parts will be at the right place at the right time. The finished wheel loaders and telescopic loaders may not leave the factory before passing a final inspection.



PRODUCTION LOCATIONS OF THE WACKER NEUSON GROUP

- 1 Milwaukee, USA
- 2 Norton Shores, USA
- 3 Korbach, Germany
- 4 Pfullendorf, Germany
- 5 Reichertshofen, Germany
- 6 Linz, Austria
- 7 Kragujevac, Serbia
- 8 Manila, the Philippines



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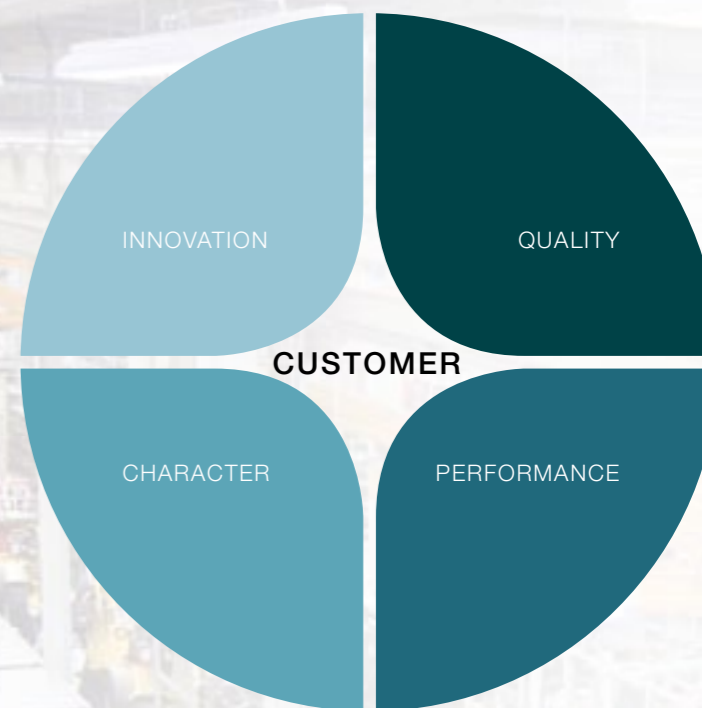
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The vision and values wheel of Wacker Neuson: Customer success is at our center.

We win customers over with the values of a medium-sized and market-listed family-owned company. With the strength and expertise of a global organization. With people who fulfill our creed every day with life and ideas.

We believe in quality, innovation, performance and character. And the sustainable success of our customers, whom everything is ultimately about.



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