

zero emission

Good fun. Good atmosphere.

MORE **THAN JUST** ELECTRIC.



Everyone is talking about "electric" - we are already one step ahead: the green "e" of the zero emission line not only stands for the drive, but also for a completely emissions-free way of working.

No exhaust emissions and decidedly less noise are good for your team and the environment. Our battery-powered construction equipment and electric compact machinery are united by one promise: no compromises. No compromises on performance. No compromises on runtimes. And definitely no compromises on lifetime. Instead, we focus on harnessing the full potential of new technologies. Outstanding ergonomics, ease of handling and cost efficiency - just some of the highlights of our zero emission line that are bound to impress you.

Good to know: With the Wacker Neuson zero emission solutions, you can reduce CO₂ emissions by up to 90%, including battery production and power generation.

*e stands for easy, electric, emissions-free: no exhaust fumes, less noise and noticeably more ease of handling.





Hybrid mini-exca 803 dual pow





Electric track du DT10e

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YOUR DECLARATION OF INDEPENDENCE.



Rapidly expanding cities. Rising volumes of traffic with an unmistakable impact on people and the environment.

Increasingly complex emissions standards for vehicles and equipment. Headlines in the news that sounded abstract and far-removed not too long ago are now changing the way we live and work.

There is a tangible sense of uncertainty. How can we help protect the climate and human health yet still work productively? Are changes related to the switch to alternative drive systems? Are there adjustments to be made when switching to alternative drive technologies? For several years now, Wacker Neuson has been working on a short, simple answer to these challenges. We call it: zero emission. Our concept builds on the idea



that there is no need to test for compliance with threshold values if a machine doesn't emit noise or exhaust fumes in the first place. We also believe that a technology that does not compromise on productivity or cost is bound to resonate with the market – especially if it delivers real value to users, businesses and the environment alike.

With a dozen zero emission construction equipment and machines, our vision of an emission-free construction site has become reality. And we will keep expanding our offering, leaving you free to focus on your core business.



CONVINCING ON ALL FRONTS.



Ecology

Up to a 90% reduction in CO₂ emissions, including battery production and power generation - ensuring that these zero emission machines make a valuable contribution to achieving climate objectives. In many countries, you will also save on CO₂ tax. There is also less direct stress in the construction site environment, as machine operation is very quiet and there is no risk of soil contamination, even when refueling.



Economy

Electric motors are considerably more efficient than combustion engines and extremely low-maintenance. This results in reduced energy and operating costs and rapid amortization of the higher purchase price. You will also expand your spectrum of application, as you will now be able to accept contracts in environments that are sensitive to noise and exhaust emissions.



Operator-friendliness

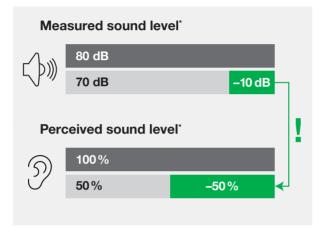
Construction site employees work in a healthier, quieter and emission-free environment. zero emission machine operation is easy and intuitive. The construction equipment starts at the push of a button and full performance is immediately available with all zero emission models - throughout the entire length of an average working day, without recharging.

PSSSST!

ON THE CLEAN SIDE FOR THE FUTURE AS WELL.

When you think of electric machines, your first thought might be lower CO_2 emissions. However, sound levels are also significantly reduced. This is particularly beneficial to the actual construction site environment. Think about the renovation of a hospital, a construction site in a zoo or in the middle of a city. Even the people working on the construction site suffer less stress.

Just 10 decibels less means half the perceived noise'. By way of comparison: A washing machine on a spin cycle emits around 75 decibels, a television at home is around 65 and someone whispering is around 40. The electrically-operated construction machines from Wacker Neuson are up to 20 decibels quieter than their gasoline-powered counterparts. Imagine an average construction site. And now replace the conventional machines with electric ones. Can you hear the peace and quiet? Incidentally, the "quiet construction site" also



has a tangible economic advantage, as there is often a requirement to work in noise-sensitive environments. With zero emission, your tender will be ahead of the game. A perfect example is the night construction site in Copenhagen, with machines supplied by Wacker Neuson - all electric. You can read more about that on page 28.



*All decibel values in this brochure state the emission sound pressure level (LpA). This states the sound level of the equipment at the place of work directly assigned to it, for example in the cabin.

Electric machines can achieve CO_2 savings of up to 90%. This advantage soon becomes apparent in the construction sector. This is because, compared with e-cars, the power of construction machines is far greater, and they are usually operating at full load. The higher CO_2 emission as regards battery production is amortized more quickly.

Not only does that benefit the environment, it also benefits your wallet. Because to achieve its climate objectives, the EU commission and EU Parliament are seeking to step up the measures for reducing greenhouse gases even more by 2030. In this context, a CO_2 tax is being discussed, which already exists in some countries.

You see: all roads lead to an electric drive - from a financial perspective too. Isn't it great that you can also lead the way with our zero emission products?



POWER THAT GOES THE DISTANCE.

Wacker Neuson's cutting-edge lithium-ion batteries are designed to excel under harsh construction site conditions. These tough, dirt-resistant workhorses unleash full power without losses from the first to the very last minute.

Every battery is delivered in a practical transport box as standard. In the robust Systainer system box, batteries receive the best protection from damage and dirt and can be stored and transported safely and conveniently. The fast battery charger is also integrated within a Systainer box.

One for all.

Rammers, vibratory plates and internal vibrators aren't usually in action at the same time, but rather sequentially, on construction sites. So why buy more batteries than you actually need? Our modular system enables the same battery to be used for all construction equipment. It can be changed in no time, without any tools.

Enough power for a full working day.

Efficient machines - powerful energy storage: Thanks to this combination, one battery charge is all you need for all the work to be done by a machine on an average day. And if the work takes longer than expected? All the battery needs is a lunch break on the fast charger, to continue work recharged and full of energy.





System boxes from Systainer:

Standard charger





AP1840e AP1850e



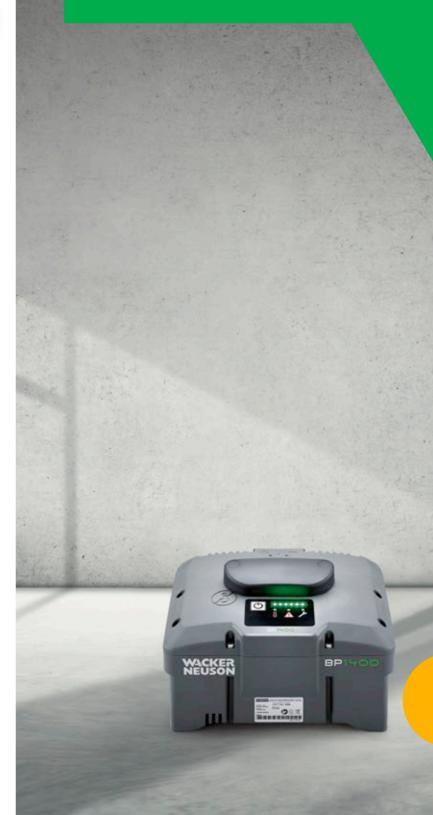


AP2560e

ASBOE

AS60e

SUPERPOWER FOR A WHOLE TEAM.









Ecology

- Up to 80% reduction in CO₂ emissions*
- Very low sound levels of less than 70 decibels, which is equivalent to a normal conversation**
- Economy $(\bigcirc$
 - A battery system for low investment costs
 - Significantly lower operating costs
 - Less time-consuming, as there is no need to reconnect the internal vibrator or move the converter

- **Operator-friendliness**
- No cable in wet concrete
- More freedom of movement and flexibility
- Protection against exhaust emissions and vibration

*CO, 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. ** See page 8 for details

YOUR PHONE DOESN'T HAVE A CORD ANYMORE, **EITHER, RIGHT?**

Carrying around and re-plugging electric cables is in the past - mobility trumps now. Our new cordless internal vibrators simply connect to the battery driven converter backpack and take concrete compaction to a whole new level.

And this for both user and business. More safety, unlimited mobility, faster results: the high-frequency internal vibrator system can be worn as a backpack and is ready for action.

Operating weight

Output performance Charging time standard battery charger/fast battery charger Battery running time

Concrete consolidation has never been so quick and comfortable.

- All-in-one: the complete system with converter and battery in one backpack.
- Anything is possible: maximum range of motion on formwork or scaffolding.
- Safety first: no loose cables or hoses lying on the ground.
- Modularity: low investment costs, little space required for the entire bandwidth of sizes for hoses and vibrator heads.
- One for all: existing Wacker Neuson batteries can be put to use.required for the entire bandwidth of sizes for hoses and vibrator heads.
- One for all: existing Wacker Neuson batteries can be put to use.

- There is no time loss due to re-plugging a cable or relocating the converter. The lithium-ion battery lasts for an entire working day, and can be swapped for another fully-charged battery in mere seconds. The high wearing comfort, which was developed together with a leading manufacturer of backpacks, distributes the total weight of 15 kilos evenly and ergonomically onto multiple points of contact.
- Mobilize your team!

Unit	ACBE
kg	15
kw	0.79
h	5.6/1.87
h	Up to 5.6





CREATED BY THE ORIGINAL PIONEER.

We launched the first-ever vibratory rammer nearly 90 years ago - causing a sensation on construction sites the world over.

With the current generation of batterypowered rammers, we are heralding another new era in compaction work. Switched on easily at the push of a button, the maintenance-free electric motor

equips our three models with the same performance as its gasoline-powered brothers. The big difference: there are no exhaust fumes - even when working in trenches - an invaluable advantage!

Tangled cables? Nowhere to be seen. Our high-performance battery stands for power and mobility. What's more, it can be replaced without using any tools.

	Unit	ASBOE	ASSOe	AS60e
Operating weight	kg	42	70	70
Max. impact rate	(1 / min)	820	680	680
Charging time standard battery charger/fast battery charger	h	5.6/1.87	5.6/1.87	5.6/1.87
Battery running time*	min	70	40	30
Reach per battery charge*	m	770	460	365

*Average reference value, the actual value may differ depending on application conditions

New technology - proven quality.

- Battery lasts for a full working day.
- 100% free of emissions: ideal for work in urban areas, areas subject to noise restrictions and in trenches.
- Convenient to start at the push of a button



Now compare the costs: www.wackerneuson.com/tco-AS











P. S.

Ecology • Up to 75% reduction in

- CO, emissions* • No exhaust emissions in
- application
- No possibility of soil contamination from fuel
- Sound levels reduced by up to 10 decibels**

*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. ** See page 8 for details.

Economy

costs

• Up to 65% lower energy

• Extremely low-maintenance

• Battery can be used in 7 machines



Operator-friendliness

AS50e

- Starts at the push of a button
- Protects the user from exhaust emissions, particularly when working in trenches
- Possible to operate at high altitude without any modification

ENOUGH TO SHAKE THE SKEPTICS UP.

No exhaust fumes, easy to start up: just some of the reasons why our battery-powered, single-direction vibratory plates in the zero emission range have been stirring up the market up for some time now.

Other highlights include outstanding cost efficiency. There's no need for

	Unit	AP1840e	AP1850e	AP2560e
Operating weight	kg	103	107	147
Operating width	mm	400	500	600
Charging time standard battery charger/fast battery charger	h	5.6/1.87	5.6/1.87	5.6/1.87
Battery running time	min	84	84	55
Compaction performance per hour	m²/h	910	1,135	695

*Average reference value, the actual value may differ depending on application conditions.



Take a deep breath - in the tightest of spaces

- Work more efficiently, even in lowemission zones such as urban areas.
- Proven, maintenance-free electric motor saves costs.
- All at the push of a button.
- Excellent compaction performance of up to 800 m² in just one charge.



Compare the costs here: www.wackerneuson.com/tco-AP

Ecology Up to 60% reduction in CO₂ emissions*

AP2560e

• Possible to use in sensitive environments such as water protection areas



- Up to 50% savings in energy costs
- No need to replace V-belts
- Battery can be used in seven machines

Operator-friendliness

- Easy to start at the push of a button in any temperature
- Battery can be changed in seconds - no tools required

*CO, 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.

conventional maintenance work on parts like the carburetor or fan belts. Our plates also consume up to 70 percent less energy. Do these benefits come at the expense of runtime? Think again. One battery charge is enough to complete all jobs over an average working day.



ENOUGH POWER TO LAST A FULL WORKING DAY.

That was the principle that inspired the WL20e.

It was an ambitious design goal. We wanted the WL20e to be as powerful as wheel loaders with conventional drive systems and ensure that one battery charge delivers enough power for a full working day. Mission accomplished! emissions with this machine. These are huge benefits when working in city centers and enclosed spaces. The wheel loader can be recharged overnight, for example, using its integrated on-board charger, which can be plugged into any conventional 230 V household socket.

This all-rounder is as quiet as it is powerful and – with zero emissions – is a compelling proposition for today's professional: No loud noises or exhaust

	Unit	WL20e
Bucket capacity	m ³	0.19
Operating weight	kg	2,350
Tipping load with bucket, horizontal loading frame - machine straight	kg	1,509
Power for drive system / working hydraulics	kW	6.5/9
Battery charging time	h	6 to 8
Battery running time	h	Up to 5*

'Running time varies according to the type of application.

Everybody's favorite in the long run

- Protects operators' health and enhances concentration: no exhaust fumes or engine noise.
- Two electric motors, one for the drive system and one for the work hydraulics, allow for power to be accessed when needed and minimize power consumption
- Safe handling thanks to the leak-proof AGM battery.



WL20e





Reduction of more

- Reduction of more than 90% of CO₂ emissions*
- No exhaust emissions and minimal motor noise on the construction site
- Significantly improved electric motor efficiency as a result of high efficiency rate

- Economy
- costs
- Higher tipping load thanks to battery weight
- Lower maintenance costs
- Same performance as a conventional machine in the same class

*CO₂ emissions over the entire lifetime, directly and indirectly, thus including battery production and power generation (EU mix) compared with a conventional product in the same class. ** See page 8 for details.

• Up to 85% lower energy



Operator-friendliness

- Noise level reduced by nine decibels, meaning that the operator finds the machine half as loud**
- Electric drive enables dynamic and powerful travel
- Charge anywhere: with the on-board battery charger at any 230-V outlet.





• Up to 60% reduction in CO, emissions*

Ecology

- Protect the operator and the construction site environment
- Can be used in applications in sensitive areas and interiors

- Economy
- Greater flexibility thanks to two operating modes: Diesel and electric
- Low additional costs for the dual power option
- Full utilization thanks to conventional and emission-free applications

- **Operator-friendliness**
- Diesel-powered travel to job site and transportation of power unit at the rear
- Same performance, same weight, same handling in both drive modes

E-DRIVE SYSTEMS MILE: THE BEST OF BOTH WORLDS.

The diesel machine - that can also run on electricity

The 803 dual power mini excavator leaves you spoiled for choice; thanks to its integrated diesel engine, it can be used independently of a power source.

When it comes to working indoors, all you then have to do is connect it to the electro-

Transport weight Power



803 dualoower

*CO₂ emissions over the entire service life, directly and indirectly, thus including power generation (EU mix) compared with a conventional product without dual power option.

THAT GO THE EXTRA

hydraulic HPU8 power unit. Simply attach the connecting line to the undercarriage, and you're good to go - same power levels, but completely free of emissions, even with the breaker attachment. Thanks to its intelligent design, this track excavator offers outstanding maneuverability of 360 degrees, even in electric mode. It doesn't get any better than this.

Unit	803 dualpower
kg	955 to 1,015
kW / HP	9.6/13

Completely flexible:

- Ready for any situation: diesel and emissions-free electro-hydraulic drive technology.
- Unstoppable: unlimited runtime in electric
- · Unrestricted radius of movement in both drive modes: 360 degrees of rotation.

HPU8

DOUBLE ZEROS MEANS DOUBLE JOY.

zero emission plus zero tail: Full performance needs no emissions! Our first fully-electric zero tail miniexcavator proves it.

"Mini" only refers to the dimensions, because when it comes to matters of endurance, the EZ17e is by no means inferior to its brothers with combustion engines. One battery charge is all

you need for a full working day on the construction site - and overnight recharging means that it is ready for use the next day.

However, the EZ17e can also be operated from the mains. And the battery is charged at the same time. If the battery charge is not used, it is stored automatically, even during operation.

	Unit	EZITE
Operating weight min.	kg	1,797
Engine output	kW	16.5
Battery capacity	kW	23.4
Break out force max.	kN	20.5
Digging depth max.	mm	2,490
Battery charging time 110 V/230 V/400 V	h	15/7.5/4
Battery running time	h	7.5*

*Running time varies according to the type of application.

Fully electric and full performance.

ΞZ

- Whether battery- or mains-powered: Any power source (110-415 Volt) can be used to charge
- Zero tail: The excavator has no rear overhang, thus enabling work directly alongside house walls and boundaries
- Low sound levels enable night working
- Innovative battery management with no maintenance requirement 12-volt battery

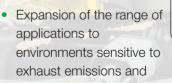






- Ecology More than 80% reduction in CO,*
- No power consumption due to idle phases
- Extremely low sound levels of 70 decibels, which is equivalent to a running tap*
- Economy
 - noise
- energy costs • No compromises in
- dimensions

*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. ** See page 8 for details.



- Up to 70% savings in
- performance, handling or



Operator-friendliness

- Intuitive operation via display and jog dial
- Removable canopy for getting through indoor passages quickly
- Intelligent charge management with remaining time calculation
- Integrated battery heating ensures year-round use



Ecology

- More than 85% reduction in CO₂*
- Energy recovery when braking and traveling downhill
- Huge noise reduction by more than 20 decibels to less than 60 decibels, which is equivalent to normal noise volumes at home**

- Economy
- Extremely flexible application indoors and outdoors
- Energy cost saving of up to 75%
- Long periods between maintenance, fast service access, no need to change the engine oil or coolant

Operator-friendliness

- No need to adjust same performance and function as the conventional model
- Thanks to the electric drive system, there is no need for frequent gear changing
- Multifunction display shows current charging status

*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

OFF-ROAD HAS NEVER BEEN SO SILENT.

In environments that are sensible to noise, construction machines are not always welcome due to their volume and the fumes they emit. But not anymore.

Our electric dumper makes emissions a thing of the past - a big relief for workers and a real powerhouse for every project.

Equipped with all-wheel drive and a payload of up to 1.5 tons, the electric DW15e wheel dumper is the perfect choice for transporting material – even over rough terrain and steep ramps.

Max. payload Output Battery charging time Battery runtime

*Running time varies according to the type of application.

Here to stay.

- A full charge lasts an entire working day.
- Easy to charge at any conventional household socket using the integrated charger.
- Cost efficient: lower energy and maintenance costs than conventional dumpers.

Featuring are two separate electric motors for the drive system and working hydraulics, which help minimize energy consumption. In addition to this, cuttingedge recovery technology feeds energy generated by braking and driving downhill back to the battery, enabling one charge to last a full working day. Smart, ergonomic details and the articulated design turn confined spaces into veritable playgrounds for the DW15e, clearly showcasing that only the best ideas from over 50 years' experience in the development of conventional dumpers are channeled into our zero emission range.

Unit	DW15e
kg	1,500
kWh	14.4
h	6.5
h	8



DW15e

WELCOME INDORS.

Exhaust fumes and noise emissions are a real problem for indoor spaces on construction sites and noisesensitive outdoor areas alike. Machines – if they are permitted at all – can only be used for limited periods and are subject to certain restrictions.

Unless, of course, our DT10e track dumper is put to use, which doesn't produce any emissions at all. Three electric motors – one for each track and another for the working hydraulics – can take on the work of several employees. But that's not all that this innovative technology has to offer: the two battery packs are integrated deep into the machine to provide extra stability when working on inclines. The batteries deliver up to nine hours of power before they need to be recharged using a conventional household socket and the integrated charger. All in all, this powerful package translates into a host of benefits. This includes huge productivity gains compared with manual labor and a sharp reduction in operating and maintenance costs.

	Unit	DTIOE
Max. payload	kg	1,000
Dimensions (width)	mm	790
Battery capacity	kWh	11.5
Battery charging time	h	8*
Battery runtime	h	7.5

*Running time varies according to the type of application.

Work in peace.

ΞZ

- Optimal access: the width of the dumper is designed to fit standard door dimensions.
- Extremely smooth handling as the rollers adapt to every surface.
- Easy maintenance and hassle-free charging: rapid access for servicing, integrated charger.



DTIOe





Ecology Reduc

- Reduction of CO₂ emissions by up to 85%^{*}
- No exhaust emissions on the construction site, protecting both operator and environment
- Extremely quiet: sound levels reduced by up to 14 decibels**

*CO₂ emissions over the entire service life, directly and indirectly, thus including battery produ
** See page 8 for details.

 Up to 70% savings on energy costs

Economy

interval



- Quick maintenance thanks to easy service access
- Extended maintenance

Operator-friendlinessStable, even in sloping

- position, due to the low-mounted batteries
- Easy charging: Integrated battery charger
- Simple startup: no pre-heating, simply switch on

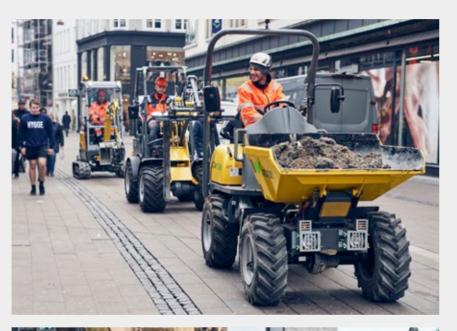
*CO2 emissions over the entire service life, directly and indirectly, thus including battery production and power generation (EU mix) compared with a conventional product in the same class.

ZERO EMISSIONS, ZERO COMPROMISES.

The zero emission machines from Wacker Neuson are now used on construction sites around the world. Find out more about a construction site in Copenhagen where the full portfolio has been impressive as regards the infrastructure measures.

The bucket of the 1.5-ton mini-excavator cuts its way through the streets. It will be used to dig a trench in which a new power cable will be laid in Copenhagen's pedestrian zone. Meanwhile, a dumper transports the excavated material to a container in virtual silence. Everything is done at night and in the early hours of the morning to ensure minimum disruption during shop-opening hours.

Wacker Neuson's zero emission family currently includes 12 different products. At the construction site in Copenhagen, five of them are being used for excavating and backfilling, transporting materials and compacting: the excavator EZ17e, the wheel loader WL20e, the wheel dumper DW15e, the vibratory plate AP1850e.and the battery-powered rammer AS50e.







An entire construction site - completely emission-free

First, the paving stones in Copenhagen's city center were broken up with the fully electric zero tail excavator EZ17e; then the soil was excavated. The excavated material was transported away using the electric wheel dumper DW15e with 1.5-ton payload. The wheel loader WL20e was also used for material transport on the construction site. After the cables were laid in the pedestrian zone, the ground was compacted with battery-powered units, a vibratory rammer and a vibratory plate. Both are operated with the same lithium-ion battery, which is deployable as a module and can be changed in no time.



Watch the video at www.youtube.com/wackerneuson under the heading "Completely emission-free construction site in Copenhagen." Easy, emission-free and most importantly: quiet

"Our experience shows that zero emission machines are easy to operate, require no special training and are just as reliable as conventional machines at work."

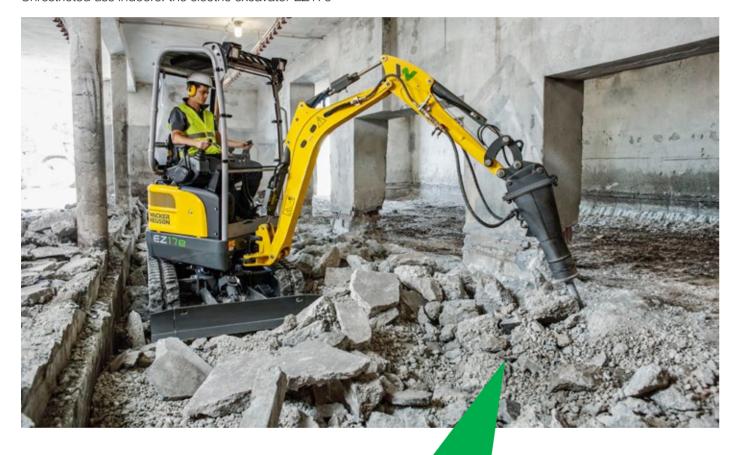
Peter Fritzbøger | Head of Sales and Marketing, Mietpark GSV

The city of Copenhagen's noise measurements also recorded no noise emissions of any kind produced by the zero emission products – only garbage trucks with conventional engines driving past produced measurable values.

Owing to the increasingly stringent specifications concerning the environment and user protection at national and international levels, in future, there will be more and more demands like those in Copenhagen. Wacker Neuson already now offers the solution.

ALWAYS WELCOME.

Typical application: indoor spaces Unrestricted use indoors: the electric excavator EZ17e



NO GAS. **NO EMISSIONS. PURE POWER.**

QUIET WORK. IT'S THAT EASY.



Typical application: noise-sensitive areas The efficient transporter: the track dumper DT10e

You already knew that?

sales partner!

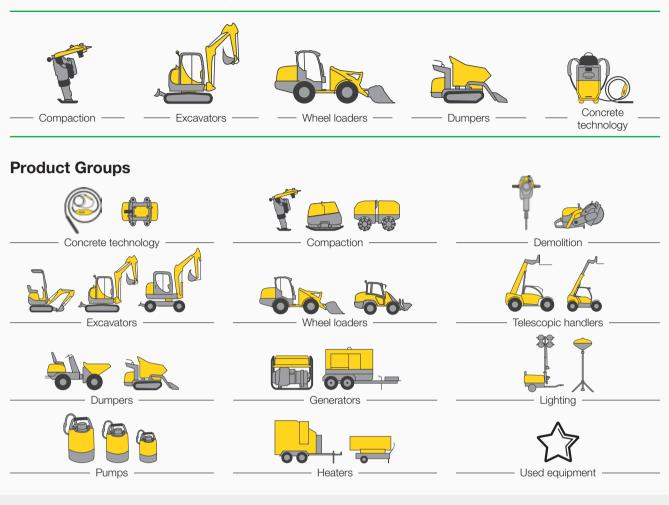
A REAL BREATH **OF FRESH AIR**



Typical application: work in trenches Where usually exhaust fumes are trapped, operators can breathe easy: the battery rammer AS50e

Purchasing electrically-driven equipment machines is often eligible for financial awards or grants. Find out more from your

zero emission Product Groups



Services



Financing Uncomplicated, transparent and individual financing options for you.



Repair &

parts.

Academy We expand maintenance Excellent and fast your expertise: practice-oriented maintenance. and within an Repairs with original spare ideal learning environment.



EquipCare Everything about the machines at a glance, via app or PC -EquipCare.



Rental Protect your liquidity and rent top-maintained construction equipment as needed.

Concrete

specialists

Our specialists

advise you in all

project stages.



eStore Buy original spare parts online conveniently - for all Wacker Neuson product groups.

Spare parts



Every minute counts: Within the shortest period of time, we deliver over 150,000 genuine Wacker Neuson spare parts to your construction site.

wackerneuson.com/zeroemission

