



**WACKER  
NEUSON**  
*all it takes!*

# 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.

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



**Master new challenges**

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**Modular battery system**

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**Battery-driven converter backpack**

ACB<sup>e</sup> | IE<sup>e</sup>

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**Battery-powered rammers**

AS30<sup>e</sup> | AS50<sup>e</sup> | AS60<sup>e</sup>

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**Battery-powered plates**

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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? Is there even any point in buying technologies previously considered standard or is there a risk that they will be banned in the near future? 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.

We have taken the first step in the right direction, having developed more than ten zero emission light and compact equipment products. And we will keep expanding our offering, leaving you free to focus on your core business.

# 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.

## 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 lets you use the same battery in all machines. Each battery can be changed in a flash without requiring any tools.

## Enough power for a full working day.

Efficient machines – high-performing energy storage. Owing to this combination, a single battery charge delivers enough power for a machine to get through a typical day's work. And when you do need extra reserves, all the battery needs is a lunch break on the fast charger, to continue work recharged and full of energy.



**SUPER-POWER FOR AN ENTIRE TEAM.**





# 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. 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
Operating weight	kg	15
Output performance	kW	0.79
Charging time with fast charger	min	80
Charging time with standard charger	h	4



## Concrete compaction today, fast 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.



# 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.**

Now, we're shaking up the world of surface compaction once again with our latest generation of battery-powered rammers. The maintenance-free electric motor in our three models delivers the same power

as its gasoline-powered brothers – all at the push of a button. The big difference, though, is that our electric models do not produce any emissions – which is a huge benefit, especially for trench work.

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	AS30e	AS50e	AS60e
Operating weight	kg	42	70	70
Max. impact rate	(1 / min)	820	680	680
Charging time with standard charger	h	4	4	4
Charging time with fast charger	min	80	80	80
Reach per battery charge	m	495	270	250



## New technology – same 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.
- All at the push of a button.
- Same compaction performance as comparable models with combustion engines.



AS30e

AS50e

AS60e



AS30e

AS50e



# 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.**

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.

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

	Unit	AP1840e	AP1850e	AP2560e
Operating weight	kg	107	103	147
Operating width	mm	400	500	600
Charging time with standard charger	h	4	4	4
Charging time with fast charger	min	80	80	80
Compaction performance per hour	m <sup>2</sup> /h	648	810	756



## Take a deep breath – no matter how tight the surroundings are.

- Work more efficiently, even in low-emission 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 m<sup>2</sup> in just one charge.



AP1840e

AP1850e

AP2560e

Maintenance-free electric motor – up to **70%** savings on operating costs.

AP2560e



# 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! This all-rounder is as quiet as it is powerful and – with zero emissions – is a compelling proposition for today’s professional. 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. Being a real economy model, this electric wheel loader will prove itself throughout its entire lifetime by reducing operating costs while also extending maintenance and service intervals; it is possible to reduce costs by up to 40 percent.

	Unit	WL20e
Bucket capacity	m³	0.19
Operating weight	kg	2350
Tipping load with bucket, mast horizontal – machine straight	kg	1509
Power for drive system / working hydraulics	kW	6.5/9
Battery runtime	h	Up to 5
Battery charging time	h	6 to 8



## An all-round favorite.

- Protects operators’ health and enhances concentration: no exhaust fumes or engine noise.
- Same performance as diesel-powered wheel loaders.
- Two electric motors – one for the drive system, one for working hydraulics – minimize consumption by delivering power only on demand.
- Safe handling thanks to the leak-proof AGM battery.
- Significant reduction in maintenance and service costs.



WL20e





# E-DRIVE SYSTEMS THAT GO THE EXTRA MILE: THE BEST OF BOTH WORLDS.

**The diesel machine that also does electric. Hybrid technology at its most powerful.**

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-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
Transport weight	kg	955 to 1,015
Power	kW/HP	9.6/13



## Feel free.

- Ready for any situation: diesel and emissions-free electro-hydraulic drive technology.
- Unstoppable: unlimited runtime in electric mode.
- Seamless transition between modes: same performance, same weight, same handling in both working modes.
- Unrestricted radius of movement in both drive modes: 360 degrees of rotation.



803 dualpower

HPU8



HPU8

803 dualpower

# SNEAK PEEK.

**zero emission technology is not just a trend for us. It is something we truly believe in.**

We are working hard to expand our zero emission portfolio in all product areas, spurred on by strong demand from customers. Here's a sneak peek at two of our zero emission excavators that will be ready for series production in the near future.

## **Intelligent charging management.**

Our latest generation of excavators can be used for even longer periods of time, all thanks to our flexible power supply concept. This innovative system enables operators to run both machines from their batteries or connect them to the mains – allowing them to charge while in use. Household socket or high-voltage current? Both connections are possible for the new excavators, the latter enabling fast charging.

# A FIRST EVER IN THE COMPACT CLASS.

**EZ17e**

Preparing for market entry



**EZ26e**

Technological study



## **No space is too small...**

The EZ17e is our first fully electric, zero tail mini excavator with no overhang. If we're being honest, though, the word "mini" really only applies to its dimensions. When it comes to power and runtime, the EZ17e packs the same punch as its brothers with combustion engines.

## **Powerful and easy to maintain.**

The EZ26e zero tail mini excavator can do everything its peers can do – except emit exhaust fumes and engine noise. It also requires minimum maintenance.

Maintenance-free electric motor – up to  
**65%**  
 savings on operating costs



# 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. Featuring are

two separate electric motors for the drive system and working hydraulics, which help minimize energy consumption. In addition to this, cutting-edge 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 20 years' experience in the development of conventional dumpers are channeled into our zero emission range.

	Unit	DW15e
Max. payload	kg	1,500
Rated capacitance / power	Ah/kWh	300/14.4
Battery runtime	h	6.5
Battery charging time	h	8



## Here to stay.

- A full charge lasts an entire working day.
- Easy to charge at any conventional household socket using the integrated charger.
- Easy maintenance: extended maintenance intervals, rapid access for servicing, no engine oil or coolant changes.
- Cost efficient: lower energy and maintenance costs than conventional dumpers.



DW15e

# WELCOME INDOORS.

**Exhaust fumes and noise emissions are a real problem for indoor spaces on construction sites and noise-sensitive 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. These are just some of the compelling reasons why more and more customers are choosing this dumper model.

	Unit	DT10e
Max. payload	kg	1,000
Dimensions (width)	mm	790
Battery capacity	kWh	11.5
Battery runtime	h	Up to 9
Battery charging time	h	7.5



## Easy way to get the job done.

- 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.
- Cost efficient: lower energy and maintenance costs than conventional dumpers.



DT10e



Maintenance-free electric motor – up to 65% savings on operating costs

# OLYMPIA AQUATICS CENTER MUNICH.

## Open for business during indoor refurbishment.

An architectural landmark in Munich, the Olympic swimming pool was constructed for the 1972 summer Olympics. Today, the building is protected under a preservation order. When it was commissioned to refurbish the site, the company KARL-Bau faced a number of challenges. All of the work was to be carried out indoors, which meant that the use of conventional equipment – due to emissions legislation – was out of the question. The construction project was due to last several years; the center had to remain open while the work was being carried out. Further, this meant that noise and dust had to be kept to a minimum right from the get-go.



**“Our employees are really pleased with the battery-powered and electric equipment, which made life much easier for us.”**

Tamara Zettl, Project Manager, KARL-Bau GmbH



## When muscle power is not enough...

In order to comply with emissions regulations, project manager Tamara Zettl started searching for alternatives to gasoline-powered equipment, such as loaders and sledgehammers. After all, she also had a tight schedule to meet. She found what she was looking for with Wacker Neuson's zero emission range.

## No emissions. No engine noise. No compromises on performance.

The 803 dual power track excavator proved the perfect choice for drilling and smaller demolition jobs, being powered electrically using the electro-hydraulic HPU8 unit. The removal of debris was achieved with the WL20e electric wheel loader. In fact, this particular machine was put to the test right from the start of the project: due to space restrictions, the

ramp leading up out of the pool had to be extremely steep. “It would have been almost impossible for someone with a wheelbarrow to navigate,” explains the project manager. This challenge proved to be child's play for the electric wheel loader. Tamara Zettl was even more surprised to discover that not only was the WL20e capable of delivering the same power as a conventional model, but also that it could operate continuously for five hours every day.

“Our employees are really pleased with the battery-powered and electric equipment, which made life much easier for us.” The easy, overnight charging process undoubtedly helped fuel this enthusiasm. Even more important factors, however, were the lack of exhaust fumes and the almost silent engines, which also provided a much calmer working atmosphere.

# ALWAYS WELCOME.

**Typical application: indoor spaces**

Safe deployment indoors: the electric excavator EZ17e



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

**QUIET WORK.  
IT'S THAT  
EASY.**

**A REAL BREATH  
OF FRESH AIR**



**Typical application: noise-sensitive areas**

The efficient transporter: the track dumper DT10e



**Typical application: work in trenches**

Where usually exhaust fumes are trapped, operators can breathe easy: the battery rammer AS50e

# OUR PORTFOLIO.

## zero emission Product Groups



Compaction



Excavators



Wheel loaders

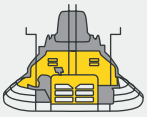


Dumpers



Concrete technology

## Product Groups



Concrete technology



Compaction



Demolition



Excavators



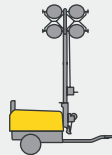
Wheel loaders



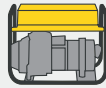
Telescopic handlers



Dumpers



Lighting



Generators



Heaters



Pumps

## Services



Financing



Repair & maintenance



Academy



Rental



EquipCare



Concrete specialists



e-Store



Spare parts