WACKER NEUSON
all it takes!

zero emissions

Our emission-free solutions.

Your challenges - our answers.

As the pioneer within the field of the battery-electric construction machines, Wacker Neuson has been continuously expanding their portfolio since 2013, and is not stopping at machine development. With offers of zero emissions, Wacker Neuson is working to provide the customers with the full eco-system: From the charging infrastructure through the service provision, finance options, and different usage models through to the cyclic business models. With additional products, such as the Charging Box and Systainer Boxes for the transport, Wacker Neuson offers simple solutions for switching to emission-free working.
Ready to think differently? Then make the “switch” with Wacker Neuson.

Pricing

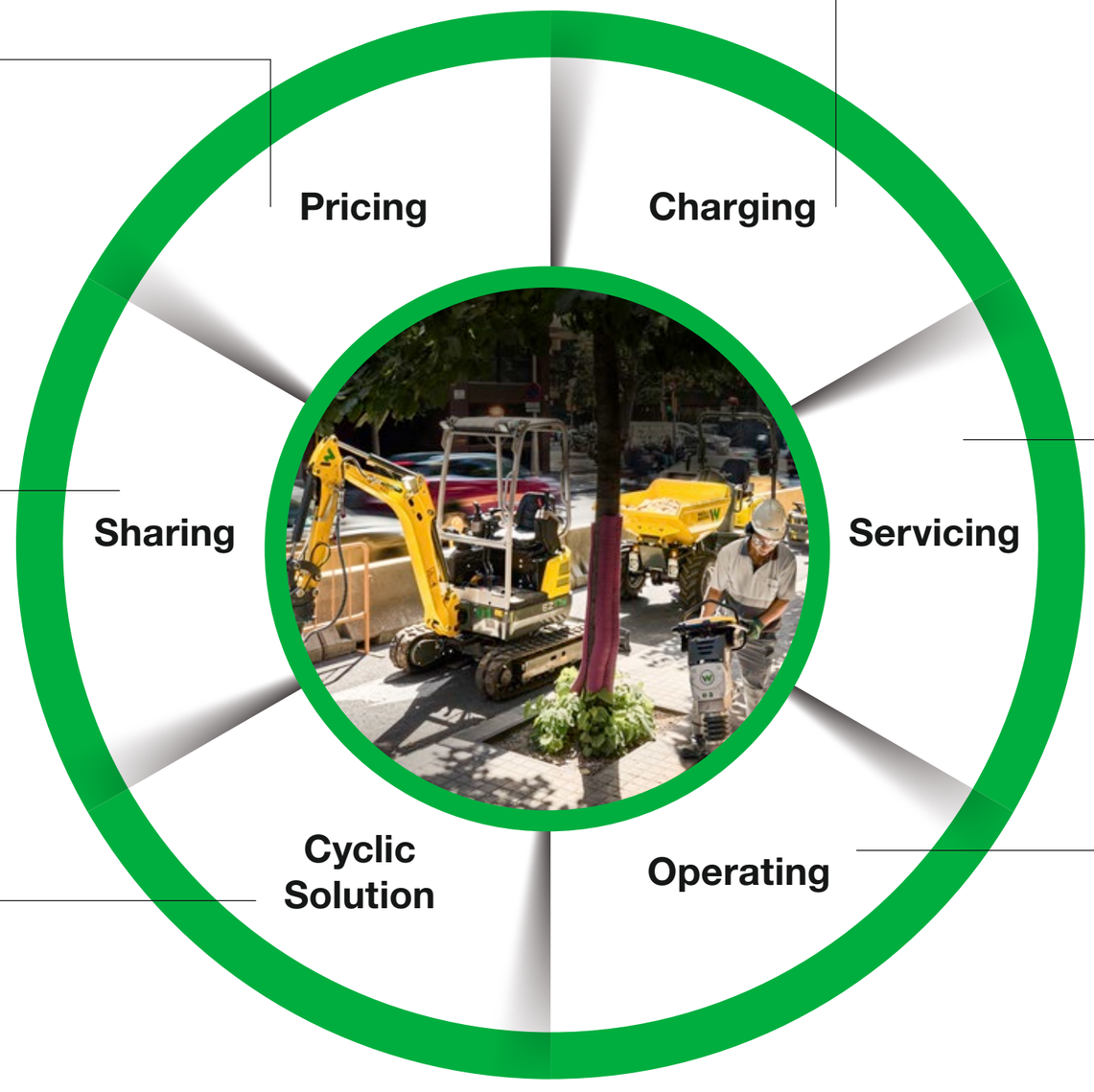
Finance and funding options: We offer special financial solutions for a smooth entry into the zero-emission world. Use the funding that’s available both across Europe and country-specific, which will make your switch easier.

Sharing

Test and hire: You can get a suitable rental offer from your distributor to first familiarize yourself extensively with the e-machines on your construction site and to put them to the test.

Cycling Solution

Sustainability: We are working with our partners to continue using the batteries after use in the best possible way, from traditional recycling through to the possibility of serving as an energy storage system.



Charging

Charging Box: Charging compact machines, as well as construction equipment batteries without direct access to a power source. Our emission-free construction machines are equipped with the most accessible power connections. As a result, charging is as easy as refueling.

Servicing

Support: Our solutions support you with your zero emission machines, like e.g. the **Telematics solution EquipCare** for efficient and preventive servicing.

Operating

Simple operation: The Battery One battery is very easy to start with just the press of a button and not only fits more than ten Wacker Neuson machines, but it also fits the equipment of other manufacturers. Full performance is generally available one whole working day, without the need to recharge.

The reasons why it’s worth switching.

100 % CO_2-free operation on the construction site: This means zero emission machines make a valuable contribution to climate protection. There is also less stress in the construction site environment, as machine operation is very quiet and there are no CO_2 emissions.

#switchtosilence

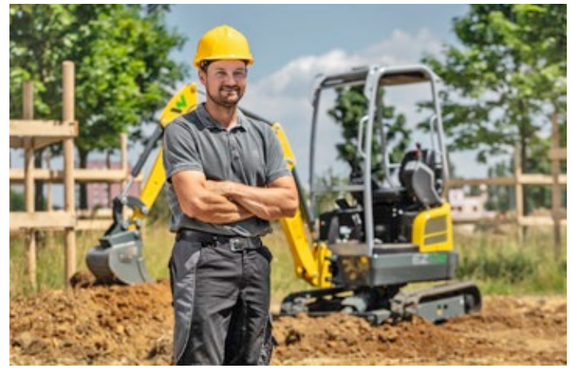
Our zero emission products work with very little noise. Already 10 decibels less mean the sound level perceived is cut in half. The electrically-operated construction machines by Wacker Neuson are even up to 20 decibels quieter than conventional machines. This also has a tangible economic advantage, because work is often in noise-sensitive environments or at night to complete construction sites promptly or to not impact the day shift.

#switchtozero

The construction industry benefits from electric drive systems, just like the automotive industry. With many construction machines, there is great savings potential in terms of fuel, even when working under a full load. And even the maintenance costs are clearly lower than with the fuel-powered machines. So that our construction machines are always charged, and so that their full performance can be provided, they are equipped with the most common power connections, like Schuko/CEE and CEE Type 2 plugs. Additionally, with Battery One and the Charging Box, we offer first infrastructural solutions for e-construction sites.

#switchtoeasy

Our zero emission products are easy and intuitive to operate, and can be charged at any socket and/or immediately put to use with a battery. The construction equipment starts in the truest sense at the push of a button. Full performance is immediately available with all zero emission models - as a rule throughout an entire working day, without recharging.



#switchtoeconomical

Electric motors are more efficient than combustion engines, and particularly low-maintenance. The extended range of applications also increases the utilization and therefore the economic efficiency of the machines. Even the CO_2-reduction has financial benefits, because to achieve the specified climate goals, many countries will significantly increase the already implemented CO_2-taxes in the coming years.

Fully electric construction site underground.

The renovation of Munich Central Station is a really major construction site. Foundations are being reinforced directly under the passenger tracks. Challenges for this work were the lack of fresh air supply in the tunnel, the confined spaces and passenger traffic only a few meters away from the construction site. The use of zero emission solutions saved time and costs, because there was no need to install a ventilation system.

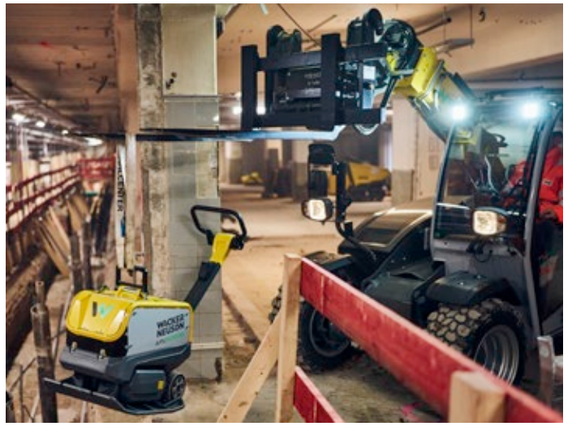
Reinforcement for the new station hall.

Efficient solutions for underground construction sites in Munich.

Foundations are reinforced directly under the tracks by installing a pile head beam. The confined spaces and the lack of fresh air supply make emission-free equipment indispensable. The EZ17e battery-powered mini excavator is used for the demolition work and material excavation. It moves over 600 cubic meters of material in the tightest of spaces without sacrificing any performance as compared to its fuel-operated counterparts. The working environment is much more pleasant for all persons present, as both direct exhaust emissions as well as noise are reduced to a minimum.

Material transport on fully electric.

The battery-powered telehandlers TH412e and the wheel loader(s) WL28e are used for material transport and, thanks to their compact method of design can master narrow underground subbase. The battery-powered rammer(s) AS62e and the vibratory plate APU3050e are used for soil compaction. Both equipment, as well as the battery-powered internal vibrator ACBe, are powered by the powerful Battery One battery, which can be quickly exchanged between the equipment. This ensures an entire workday at full output.



Sustainable pioneering work in Barcelona.

Are battery-powered machines only for special applications? Far from it! In the inner city of Barcelona, the battery-powered compaction equipment and compact electric machines by Wacker Neuson are proving that they too are perfectly suited for daily practical use and they interact ideally.
In the heart of Barcelona, work was done on water pipelines – where exclusively machines that worked emission-free were used. This way, contaminating the sensitive areas with fuel, for example when filling up, could be avoided. The city of Barcelona takes great interest in operating construction sites free of local CO_2-emissions and thus also in a climate-friendly and sustainable way. The e-machines and equipment by Wacker Neuson were used throughout the entire construction process: from breaking up and excavating to backfilling and compacting. In Barcelona, a holistic infrastructure solution for e-construction sites was also tested forthe first time.

Repairs of water pipelines.

Mobile power supply with the Charging Box.

The EZ17e Zero Tail excavator was used for excavation and demolition work. Thanks to its generous battery capacity, the hydraulic functions are available for an entire workday at full output. The DW15e dumper was on site for the transport of material. It is equipped with one electric motor for the drive system and another for the work hydraulics, in order to take on output as required and minimize energy consumption. For interim charges of the excavator EZ17e and other construction equipment such as the battery-powered rammer, the Charging Box – the “powerbank for the construction site”, was in use on the construction site in Barcelona. It allows flexible recharging or interim charging of construction equipment batteries but also compact machines on construction sites that have no access to the power grid.

The environment-friendly construction site.

Particularly practical: All battery-powered compaction equipment, including various models of vibratory rammers and vibratory plates, are operated with the same high-performance Battery One lithium ion battery. This saves investment costs as well as transport costs.

The construction site in Barcelona shows that it is possible, without a hitch, to operate an entire inner-city construction site with electric construction machines and equipment – with the usual performance and reliability.

One battery for all construction equipment – emission-free compaction made easy.

Wacker Neuson has the perfect equipment for every kind of soil compaction – also including many emission-free solutions. How does this work in practice? Like here, on a construction site in the heart of Stuttgart.

In the course of the renovations of the Stuttgart marketplace the e-machines by Wacker Neuson impressed in a field test. Next to electric compact machines such as excavators and dumpers, the entire portfolio of battery-powered compaction equipment was used. The different battery-powered rammer and vibratory plate models and the internal vibrator-system for concrete consolidation have one thing in common: They are powered by the same ultra-modern, lithium-ion battery: Battery One. It is designed for the tough everyday use on construction sites: shock-proof, dirt-resistant and with a running time sufficient for all typical activities on a workday.

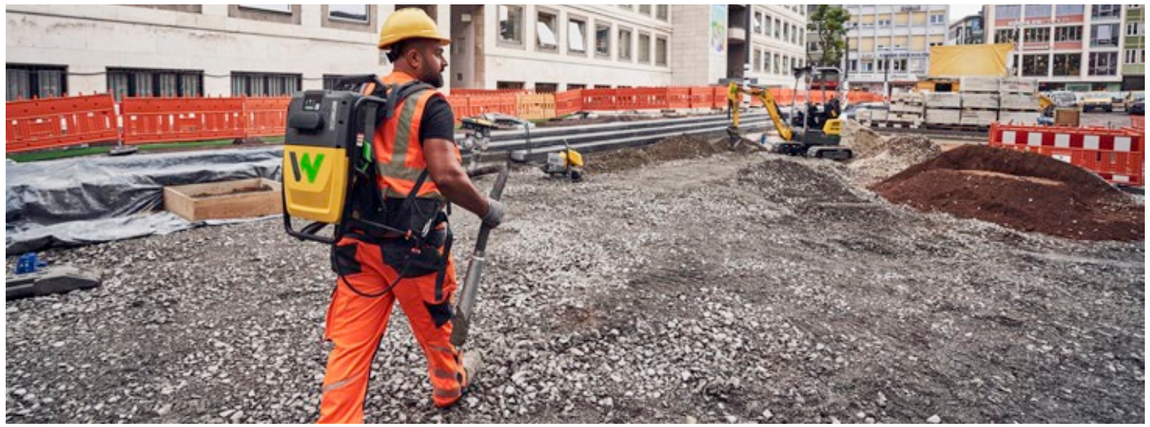
One battery for all construction equipment – Battery One in use.

Be it vibratory plates or vibratory rammers, for every subbase the proper battery-electric construction equipment.

Tried and tested battery-powered rammers as well as battery-powered plates from the APS series for soil compaction were used at the construction site in Stuttgart. In the meantime, the three vibratory rammers and seven vibratory plates in the Wacker Neuson zero emission portfolio can be operated with the same high-performance and sturdy lithium ion battery, Battery One. The idea: A battery standard simplifies construction site operations enormously, as only one battery and one charging system need to be considered in construction site logistics. The battery can be exchanged in no time at all or put into another model. The battery can be used not only in all battery-electric equipment from Wacker Neuson, but also in construction equipment from other manufacturers.

One battery for all makes working easier.

The Battery One battery can also be used in the internal vibrator backpack ACBe, which was used for smaller concrete consolidation applications in in-situ concrete at the Stuttgart marketplace. The DT10e track dumper, DW15e wheel dumper, and WL20e wheel loader enabled efficient transport of material without direct exhaust emissions and with extremely low noise emissions. Especially with brisk pedestrian traffic and businesses operating in the inner city, a relief for residents. The EZ17e Zero Tail excavator was available for excavation and demolition work. With its high-quality lithium-ion technology, the electric construction machine meets the high demands for performance, durability, and sturdiness.



#switchtoeconomical

Our zero emission machines impress in many areas – even costs.

Lower energy costs: electric motors are considerably more efficient than combustion engines. In practice, this means: energy cost savings of up to 65% on battery-powered rammers and up to 75% with our compact machines.

Lower maintenance costs: our time-tested and proven electric motors are particularly low-maintenance. Less moving parts in the drive train creates less friction and heat loss in the overall system. This means less time spent in maintenance and more time remaining for productive applications.

Wider spectrum of application: electric machines can also be used in noise- and exhaust-sensitive environments. This way, you ensure additional lucrative jobs.

The higher procurement price is quickly amortized. So it's worthwhile to be on the move electrically!

Did you know?
Purchasing electrically-driven equipment machines is often eligible for financial awards or grants. Find out more from your local sales partner!

Battery One.

Battery One is a standardized and user-friendly battery system that focuses on CO_2-free and sustainable use of construction equipment. The battery can be used not only in all battery-electric equipment from Wacker Neuson, but also in construction equipment from other manufacturers. The idea: A battery standard simplifies construction site operations enormously, as only one battery and one charging system need to be considered in construction site logistics.

BATTERYONE

	Unit	BOB5	BOB10	BOB14
Installed capacity	**Wh**	504	1,008	1,425
Weight	**kg**	6.4	9.3	9.6

	Unit	BOC7	BOC13
Charging current	**A**	7	13
Charging time (BOB5/BOB10/BOB14)	**min**	90/160/255	50/95/140

Charging Box: The powerbank for the construction site.

The Charging Box extends the capacity of zero emission products, prevents peak loads in the network and can provide the entire construction site with electricity.

CB250

	Unit	CB250
Weight	**kg**	650
Dimensions	**mm**	1,480 x 820 x 1,105
Class rating	**–**	IP54
Temperature range	**°C**	-20 – +40 ambient temperature
Cooling	**–**	Air cooled
Electr. frequency	**Hz**	50
Rated power	**kVA**	50
Charging time	**h**	< 4.5 (16 A)
Capacity	**kWh**	25

Battery-powered trowels AT24e and AT36e.

The powerful battery-powered AT24e and AT36e trowels facilitate efficient and environment-friendly concrete processing – completely without any emission and noise.

AT24e

	Unit	AT24e	AT36e
Operating weight	**kg**	64	90
Dimensions	**mm**	1,471 x 709 x 992	2,048 x 940 x 938
Screed diameter	**mm**	600	900
Battery runtime BOB14	**min**	60	40
Motor type	**–**	Electric motor	Electric motor
HAV	**m/s²**	4.4	5.7

Battery converter backpack: goodbye to power cables.

Our battery-powered internal vibrator can be easily connected to the battery-powered converter backpack ACBe, thus making concrete consolidation completely mobile.

	Unit[2]	ACBe
Local CO_2 emissions	**g/Bh**	0
Charging time, standard/fast battery charger	**min**	90/50
Battery running time[1]	**h**	up to 2
Noise emissions reduced by[5]	**dB**	20
Operating weight with/without BOB5	**kg**	10.25/4.2
Operating weight with/without BOB10	**kg**	13.5/4.2
Rated current	**A**	20
Input/output voltage	**V**	51 (3~)/34 (3~)
Output performance	**kW**	0.79
Output frequency	**Hz**	200

ACBe

Tandem roller with electric drive. Fully electric compaction power.

The electric rollers RD24e and RD28e are, with an operating weight of barely 2.5–2.8 metric tons and a drum width of 111–125 centimeters, the all-rounders for the emission-free construction site.

	Unit	RD24e	RD28e
Local CO_2 emissions	**g/Bh**	0	0
Operating weight (max.)	**kg**	3,000	3,410
Drum width	**cm**	111	125
Max. travel speed	**km/h**	11	12
Centrifugal force, front Level I / Level II	**kN**	25/16	46/28
Battery capacity	**kWh**	16.8	24
Operating time under full load	**h**	3.5	3.5
Battery charging time 110 V/230 V/400 V	**h**	15/7.5/4	15/7.5/4
Overhang right/left	**mm**	55/55	55/55
Inside turning radius	**mm**	2,470	2,370
Center distance	**mm**	1,700	1,700

RD28e

[1] Average reference value, the actual value may differ depending on application conditions.
[2] All information refers to the battery model BOB14.

Battery-powered rammers: from the inventor of the original.

Our vibratory rammers are writing history once more: compacting at full output, but without emissions – an invaluable advantage, especially in trenches.

	Unit[2]	AS30e	AS62e	AS68e
Local CO_2 emissions	g/Bh	0	0	0
Charging time, standard/ fast battery charger[1]	h	4.25/2.33	4.25/2.33	4.25/2.33
Battery running time[2]	min	70	40	30
Range per battery charge[2]	m	770	352	312
Ramming shoe size (width)	mm	150	250	250
Operating weight	kg	41.7	69	69
Stroke at ramming shoe	mm	40	43	56
Max. impact force	(rpm)	820	680	680
Type of drive	kW	Electric motor		

[1] The charging time is dependent on the different charging options. On-board charger 3 kW (standard), with additional on-board charger total 6 kW (option). The following charging 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.

AS62e

Single-direction vibratory plates: real economic miracles.

Maintenance-free electric motor, up to 50% less energy costs and starts with a push of a button: compaction doesn't get any more comfortable or affordable.

AP2560e

APS1340we

	Unit[2]	AP2560e	APS1030e	APS1135e	APS1340e	APS1550e	APS2050e	WP1550e
Local CO_2 emissions	g/Bh	0	0	0	0	0	0	0
Charging time, standard/ fast battery charger[1]	h	4.25/2.33	4.25/2.33	4.25/2.33	4.25/2.33	4.25/2.33	4.25/2.33	4.25/2.33
Battery running time[2]	min	55	92	92	92	80	80	80
Range per battery charge[2]	m²	695	610	765	920	960	1,065	1,047
Operating weight (without/with water tank)	kg	133	51/53*	61/63*	73/75*	77/82	87/92	90–98
Centrifugal force	kN	25	10	11	13	15	20	15
Operating width	mm	600	300	350	400	500	500	500
Frequency	Hz	98	98	98	98	98	98	98
Drive		Electric motor						

* Weight depends on the additional options selected

APU2840e

APU2850e

APU2860e

APU3340e

APU3350e

APU3360e

Reversible battery-powered plates APU: unbeatably efficient thanks to direct drive.

The emission-free drive and the low overall height make the APU series the ideal compaction equipment in trenches and shoring.

	Unit[2]	APU2840e	APU2850e	APU2860e	APU3340e	APU3050e/ APU3350e	APU3360e
Output	kN	28	28	28	33	33	33
Operating weight	kg	170	173	182	207	210	219
Range per battery charge (BOB14)[2]	m²	296	351	400	240	285	324
Run time per battery charge (BOB14)	min	37	37	37	30	30	30
Centrifugal force	kN	28	28	28	33	30/33	30/33
Operating width	mm	40	50	60	40	50	60

DIREX **DireX is the direct drive of the battery-electric vibratory plates** and ensures more efficiency and longer running times. Direct energy transmission without V-belt minimizes output loss, resulting in a longer running time for the machine.

[2] The running times of the battery are dependent on the respective application conditions, the work tasks and the driving style. This can result in achieving longer running. The specified running times may also be undercut in extreme cases. The specified running times refer to uninterrupted operation and working with the machine.

Battery-powered electric telehandler: Compact and going beyond.

The TH412e guarantees more flexibility in application, environmental protection and significant savings in operating costs.

TH412e

	Unit	TH412e
Local CO_2 emissions	**g/Bh**	0
Motor drive hydraulics/work hydraulics	**kW**	33.1 / 21.2 (ECE R085)
Battery capacity (gross)	**kWh**	18 / 28
Charging time[1]	**h**	3.2 – 11.5
Best possible charging time (from 20% to 80%)[1]	**h**	1.8 – 2.7
Running time (uninterrupted)[2]	**h**	up to 5.2
Height x Width	**mm**	1,995 / 1,564
Operating weight	**kg**	2,750 – 3,100*
Travel speed (optional)	**km/h**	0 – 15 (20, 25)
Payload (max.)	**kg**	1,250
Max. height of the bucket pivot point / max. dumping height with telescopic arm extended	**mm**	4,537 / 3,630
Radius on the outer edge	**mm**	2,695

* Values with optional equipment

[1] The charging time is dependent on the different charging options. On-board charger 3 kW (standard), with additional on-board charger total 6 kW (option). The following charging 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, 5-pole), 400 V / 16 A (Type 2 plug Wallbox, IEC 62196) and other adapter plugs.

Electric wheel loader: do everything, miss nothing.

Our wheel loaders have been versatile forever. Now they are also expanding your spectrum of application. And without sacrificing performance.

WL20e

WL28e

	Unit	WL20e	WL300e	WL28e
Local CO_2 emissions	**g/Bh**	0	0	0
Motor drive hydraulics/work hydraulics	**kW**	6.5 / 8.5 (EN60034-1)	6.5 / 8.5 (EN60034-1)	33.1 / 21.2 (ECE R085)
Battery capacity (gross)	**kWh**	14.1 / 18.7 / 23.4	14.1 / 18.7 / 23.4	14.1 / 18 / 28
Charging time[1]	**h**	3 – 10	3 – 10	3.2 – 11.5
Best possible charging time (from 20% to 80%)[1]	**h**	1.9 – 2.9	1.9 – 2.9	1.8 – 2.9
Running time (uninterrupted)[2]	**h**	Up to 7.3	Up to 7.3	Up to 5.3
Bucket capacity	**m^3**	0.19	0.19	0.42
Height x Width	**mm**	1,939 – 2,336 x 1,052	1,939 – 2,336 x 1,052	1,931 – 2,418 x 1,251
Operating weight	**kg**	2,170 – 2,350*	2,400 – 2,600*	2,800 – 3,300*
Travel speed (optional)	**km/h**	0 – 15	0 – 15	0 – 15 (20, 25)
Bucket tripping load (horizontal loading frame – machine straight)	**kg**	1,550 – 1,620*	1,360 – 1,910*	1,860 – 2,510*
Pallet fork tipping load (horizontal loading frame – machine straight)	**kg**	1,110 – 1,160	1,290 – 1,690	1,550 – 2,070
Max. height of the bucket pivot point / max. dumping height	**mm**	2,710 / 2,017	2,710 / 2,017	2,584 / 1,718
Radius on the outer edge	**mm**	2,379	2,379	2,774

* Values with optional equipment

[2] The running times of the battery are dependent on the respective application conditions, the work tasks and the driving style. This can result in achieving longer running. The specified running times may also be undercut in extreme cases. The specified running times refer to uninterrupted operation and working with the machine.

Electric excavators: prepared for anything.

Our mini-excavators can do more than operate electrically: for example, without rear projection, working directly along walls or operating stationary directly at the plug receptacle. A TÜV-approved battery check is available for the EZ17e - Certified Battery Check.

	Unit	EZ17e	EZ26e
Local CO_2 emissions	**g/Bh**	0	0
Engine output	**kW**	16.5	16
Battery capacity	**kWh**	23.4	30/40
Battery charging time 110 V/230 V/400 V	**h**	15/7.5/4	9.3/3/1.5
Battery running time[1]	**h**	7.5	7.5
Battery voltage	**V**	48	96
Noise emission reduced by[2]	**dB**	9	–
Shipping weight min.	**kg**	1,681	2,700
Operating weight min.	**kg**	1,797	2,415
Length x Width x Height	**mm**	3,584/3,554* x 900–1,300 x 2,489	4,199 x 1,550 x 2,412
Max. dumping height	**mm**	2,439/ 2,553*	2,893
Digging depth	**mm**	2,323/ 2,483*	2,803
Digging radius	**mm**	3,900/ 4,050*	4,813
Break out force	**kN**	20.5	22.6

* Long dipper stick (option)

[1] Running time varies depending on the type of application.
[2] 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 wheel dumpers: material transport with a soft tread.

Off-road capable thanks to articulated pendulum joint, quiet thanks to electric motors and enduring thanks to energy recovery – you're welcome!

	Unit	DW15e
Local CO_2 emissions	**g/Bh**	0
Engine output of drive system/ work hydraulics	**kW**	6.5/8.5
Battery capacity	**kWh/Ah**	14.4/300
Battery charging time	**h**	8
Battery running time[1]	**h**	6.5
Battery voltage	**V**	48
Battery weight	**kg**	470
Noise emission reduced by[2]	**dB**	20
Max. payload	**kg**	1,500
Shipping weight	**kg**	1,940
Length x Width x Height	**mm**	3,300/3,214* x 1,322 x 2,550
Gradeability (theoretical)	**%**	45
Bucket (struck/piled)	**l**	650/800

Basic machine with high tip skip * Swivel tip skip option

Electric track dumpers: leave the wheelbarrow at home.

Our electric track dumpers take on material transport in interiors and noise-sensitive areas.

	Unit	DT05e	DT10e
Local CO_2 emissions	**g/Bh**	0	0
Engine output	**kW**	5.5	2
Voltage / capacitance	**V/Ah**	3.6/72	12/55
Battery charging time	**h**	8	7.5
Battery running time[1]	**h**	4–5	4–9
Noise emission reduced by[2]	**dB**		14
Max. payload	**kg**	500	1,000
Shipping weight	**kg**	540***	815–995
Length x Width x Height	**mm**	1,670* x 589 x 759*	1,803*/1,685** x 830* x 1,270
Travel speed	**km/h**	3	4
Gradeability when loaded	**max. %**	36	36
Skip capacity (struck)	**l**	273	367*/ 240**
Skip capacity (heaped)	**l**	313	427*/ 280**
Skip capacity (volume of water)	**l**	142	166*/ 195**

* Front-tipping skip ** High-tipping skip *** With SLE (self-loading equipment)

[1] Running time varies depending on the type of application.
[2] 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.

Wacker Neuson – zero emission series.

Concrete technology

Vibratory rammers

Vibratory plates

Rollers

Generators

Excavators

Wheel loaders and telehandlers

Dumpers

Financial solutions

Repair & maintenance

Academy

EquipCare & EquipCare Pro

Rental

Concrete specialists

eStore

Spare parts

Used machines

ConcreTec

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