

Vibratory rammers



**WACKER
NEUSON**



These reasons speak for vibratory rammers from Wacker Neuson.

1. Inventions are part of our daily business.

In terms of rammers, Wacker Neuson has always had the greatest say: in the year 1930 when Hermann Wacker invented the electric rammer just like today with the battery driven world novelty. In addition, Wacker Neuson is the only manufacturer to offer rammers with 2-cycle engines. This drive system is not only perfectly designed for compaction work, but also has extremely low emissions due to its catalytic converter.

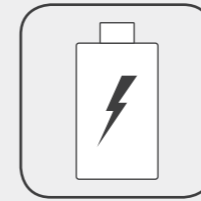
2. Broad drive system expertise for the specific case.

Stroke, percussion rate, speed – a perfect compaction result depends on many factors. The driving force here is the engine. Wacker Neuson always has the right solution here for you: from gasoline-driven two-cycle and four-cycle engines to diesel drive systems to our world novelty – the battery drive system.

3. Comprehensive product range for you to choose from.

From the sophisticated specialists for pipe gussets to sturdy rammers, which even compact rough terrain in an exemplary manner. The development engineers from Wacker Neuson know what vibratory rammers must be able to do in a variety of application areas. That is why you will always be able to find exactly the right equipment you need in our product range.

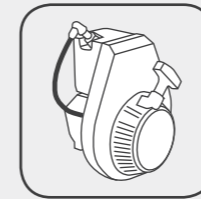
Vibration expertise to the last detail



Battery-powered compaction

Wacker Neuson has created a world's first with the battery-powered rammers. Self-sufficient and emission-free working is therefore in a new dimension.

More on page 6.



Unique 2-cycle engine

You will only find vibratory rammers with low-emission 2-cycle engines at Wacker Neuson. We designed and developed the WM 80 specifically for the requirements in compaction. Details on page 8.



Easy refueling

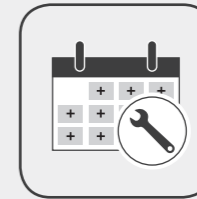
Refueling without pre-mixing – this is made possible by the separation of the gasoline and oil tank. You can rely on the efficient oil lubrication system for the correct mixture.

Learn more on page 9.



Always thinking ahead


For many decades, it has been the pioneering innovations from Wacker Neuson that have made working on job sites more productive and comfortable.



Service intervals that are three times longer

Our unique air cleaner system provides for considerably less frequent service applications. You benefit from long service lives and low-maintenance operation.

You will find more information on page 11.



Wacker Neuson distinguishes particularly economical and environmentally-friendly products with the ECO seal. Among the rammers, these are all of the two-cycle machines as well as the equipment with battery-powered drive systems.

All vibratory rammers in an overview.

Category	Model	Operating weight	Page
Battery-powered rammer:	AS30	45 kg	> Page 06
	AS50	70 kg	
Diesel rammer:	DS70	83 kg	> Page 12
Two-cycle engines:	BS30	30 kg	> Page 08
	BS50-2	59 kg	
	BS60-2	66 kg	
	BS70-2	74 kg	
Four-cycle engines:	BS50-4	63 kg	> Page 10
	BS60-4	71 kg	
	BS50-4A	64 kg	
	BS60-4A	72 kg	
Two-cycle engines:	BS65-V	68 kg	> Page 08
	BS50-2i	59 kg	
	BS60-2i	66 kg	
	BS70-2i	74 kg	

Compaction performance entirely in tune with your needs.

Sophisticated functions in the equipment and the right drive system up your sleeve: vibratory rammers from Wacker Neuson score in all application areas with the corresponding impact force and matching ramming frequency. For an ideal compaction result – whether in urban areas or on a large job site.

Perfect for road and highway construction: powerful, sturdy, easy to operate.



Low-emission two-cycle engines prove themselves in poorly ventilated trench applications.



Compaction by the side of pipes – precise down to the centimeter with the narrow ramming shoe of the BS 30.



Innovative air cleaner technology: Extends the replacement interval by three times.



Work 100% emission-free – with innovative battery technology from Wacker Neuson.



Service from Wacker Neuson, personally on the job site if necessary.



Efficient in application thanks to the strong stroke and fast working speed.



Battery-powered rammers

With the AS 30 and AS 50, Wacker Neuson is advancing as the world's first manufacturer into the pioneering category of battery-powered rammers. Both machines allow you to work completely free of emissions, e.g. in trench applications. In addition, you will meet even the most stringent criteria, as they are prescribed for major projects or urban job sites.

- Work comfortably without cables
- Reliable and easy equipment start at the push of a button at any temperature
- With the AS 50, all-around low hand-arm vibrations (HAV) due to innovative parallel spring mounting
- Durable and temperature stable lithium ion battery from Wacker Neuson
- Battery fits both models
- Maintenance-free electric motor



AS30



AS50



- 100% emission-free
- Cableless battery drive system
- 55% lower operating costs than with gasoline vibratory rammers

	AS30	AS50
Operating weight	45 kg	70 kg
Drive type	Electric motor with battery operation	Electric motor with battery operation

Learn more about the battery-powered rammers from Wacker Neuson at: www.wackerneuson.com/AS50



Full freedom of action for self-sufficient work on the entire job site.

Standard battery charger: charge time of four hours, battery management system protects against overloading.

Charged in one hour: with the optionally available fast battery charger.

High quality battery still has 80% of its capacity after 1,500 charge cycles.

Clear operation: starter button and charge indicator.

Two-cycle rammer

You can only get a vibratory rammer with a 2-cycle engine at Wacker Neuson. The powerful and in-house developed WM 80 engine is perfectly tailored to the specific requirements of compaction. For productive work and excellent results.

- Time-tested and proven ramming system
- High ramming frequency, strong stroke and high impact energy
- Special air cleaner technology for 3x-longer replacement interval
- Large oil tank for models with separate oil lubrication for up to 100 hours of running time with one filling
- Low hand-arm vibrations (HAV) thanks to the specially spring-mounted guide handle
- Slim design of the WM 80 engine for more compaction comfort, even in narrow trench applications



	BS30	BS50-2	BS60-2	BS70-2	BS65-V	BS50-2i	BS60-2i	BS70-2i
Operating weight	30 kg	59 kg	66 kg	74 kg	68 kg	59 kg	66 kg	74 kg
Drive type	2-cycle engine							

ONLY MANUFACTURER OF TWO-CYCLE RAMMERS

UNIQUE: WITH CATALYTIC CONVERTER

Small, convenient, mobile – ideal for compaction on pipe gussets.



BS30

The classic among two-cycle rammers.



BS50-2

Practical: Separate oil lubrication and automatic low oil shutdown.



BS60-2i

BS65-V

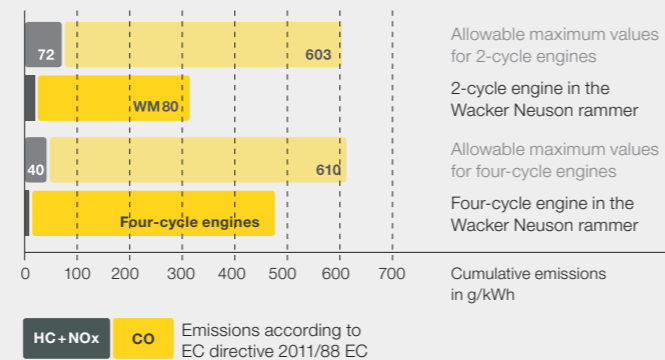
Manually adjustable: up to 4 stroke height settings.



Effective light weight for narrow trench applications, pipe gussets and edge support areas.

Impressively low emissions:

The 2-cycle engine WM 80.



Easy refueling without pre-mixing for models with separate oil lubrication.



Feed pump on the carburetor – for full and immediate power output of the WM 80.



The correct stroke height can be set with the BS 65-V depending on the type of soil.



4-cycle rammers

The performance of the 4-cycle rammers from Wacker Neuson will convince you every day. Sophisticated functions also make using the equipment even safer, extend its service life and reduce maintenance to a minimum.

- Quick starting behavior thanks to a small feed pump on the carburetor
- Strong stroke for heavy cohesive soil
- Integrated low oil protection with automatic shutdown
- First-class air cleaner for 3x longer replacement intervals

WM 100: 2 models with the time-tested and proven engine from Wacker Neuson.



BS50-4S



BS60-4AS

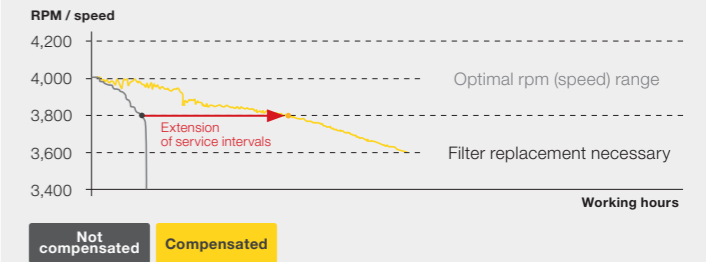
GX 100: 2 models with Honda engine.

	BS50-4	BS60-4	BS50-4A	BS60-4A
Operating weight	63 kg	71 kg	64 kg	72 kg
Drive type	Four-cycle engine			

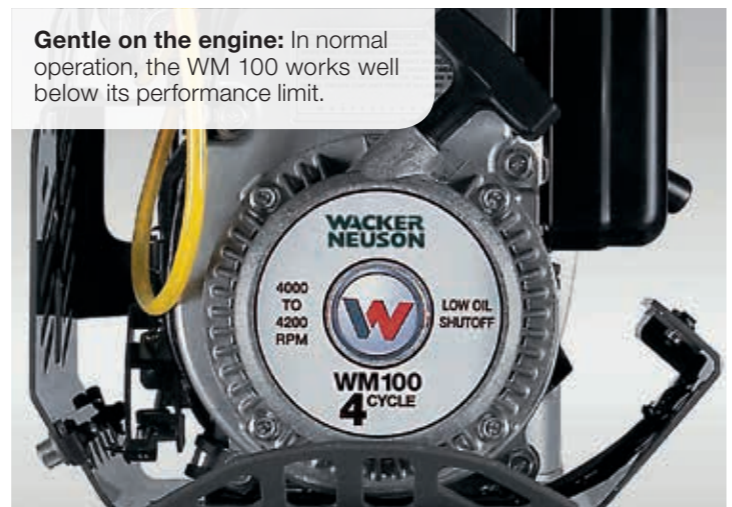
AIR CLEANER COMPENSATION ALSO WITH TWO-CYCLE RAMMERS AND DIESEL-OPERATED RAMMERS

Ideal air-fuel ratio

With the innovative air cleaner system from Wacker Neuson, you work three times longer in the optimal rpm (speed) range than you would without compensation. This also allows you to extend the service intervals threefold.



Strong stroke: ideal for cohesive soils.



Gentle on the engine: In normal operation, the WM 100 works well below its performance limit.



Powerful and reliable: the four-cycle engine from Honda.



Easy to guide – important in border areas and with round elements.

Diesel rammers

From the compact dimensions for good handling to a well-balanced weight distribution to the environment-friendly diesel engine – the DS 70 scores with its internal and external values. Due to the low emissions, this equipment is ideal for compaction work in trench applications.

- Low CO emissions
- First-class air cleaner for 3x longer replacement intervals
- Large corrosion-resistant fuel tank with self-cleaning filter for a long service life and minimal maintenance requirements
- Low hand-arm vibrations (HAV) thanks to the specially spring-mounted guide handle



Ideally suited for cohesive, mixed and granular (non-cohesive) soils.

	BS70
Operating weight	83 kg
Drive type	Diesel engine



Precise equipment guidance – important for compaction in border areas.



Use just one lever to start, regulate the revolutions per minute (RPM) and switch off.

Battery-powered drive

Wacker Neuson has succeeded in achieving a true engineering feat with the BP 600 battery: It is not only extremely light at just 9.5 kilograms, but it also impresses through its high power output. Even at external temperatures from -10 to +50 degrees Celsius, it runs perfectly. And after 1,500 charge cycles, it still has at least 80% of its charge capacity. The brush-free asynchronous electric motor is also completely maintenance-free.



Two-cycle rammer

Wacker Neuson is the only manufacturer to carry gasoline vibratory rammers with 2-cycle engines in its product range. Our development engineers designed the WM 80 engine specifically for application in soil compaction. In addition, it has an excellent emissions behavior, among other reasons due to its catalytic converter. The engine therefore falls below all currently valid threshold values and those known for the future.



Four-cycle rammer

With the Wacker Neuson engine WM 100 and the GX 100 from Honda, you have two powerful engines at your disposal. A unique feature of the WM 100: The integrated low oil protection checks the oil level upon start-up. If the oil level is too low, the equipment automatically shuts down.



Diesel drive system

You can fully rely on the impact force of the DS 70 diesel engine in compaction. At the same time, it has extremely low emissions and falls below the current exhaust emissions standards world-wide.



Technical data

		AS 30	AS 50	BS 30	BS 50-2	BS 60-2	BS 70-2	BS 65-V	BS 50-2i	BS 60-2i	BS 70-2i	BS 50-4	BS50-4A	BS 60-4S	BS 60-4AS	DS 70
GENERAL		UNIT														
Length x width x height	mm	580 x 358 x 946	640 x 358 x 1,074	540 x 340 x 1,000	673 x 343 x 940	673 x 343 x 965	673 x 343 x 965	673 x 343 x 965	673 x 343 x 940	673 x 343 x 965	673 x 343 x 965	673 x 343 x 940	673 x 343 x 940	673 x 343 x 965	673 x 343 x 965	725 x 370 x 1,000
Ramming shoe size (L x W)	mm	298 x 150	340 x 280	150 x 280	165 x 337 190 x 344 250 x 337 280 x 337	280 x 336	280 x 336 330 x 342	280 x 336	165 x 337 190 x 344 250 x 337 280 x 337	280 x 336	280 x 336 330 x 342	280 x 337	280 x 337	280 x 336	280 x 336	280 x 336 330 x 342
Operating weight	kg	45	70	30	56 56 58 59	66	74 74	68	56 56 58 59	66	74 74	63	64	71	72	83 83
Stroke at ramming shoe	mm	–	–	42	64.3	80	65	8–81	64.3	80	65	66	56	68	78	71
Max. percussion rate	1/min	820	680	830	700	700	650	700	700	700	650	684	680	680	690	670
Operating speed	m/min	–	–	–	9.5	9.8	8.9	9.5	9.5	9.8	8.9	7.6	7.5	8.5	7.0	8.8
Drive	–	Asynchronous motor	Asynchronous motor	Air-cooled single cylinder two-cycle gasoline engine				Air-cooled single cylinder two-cycle gasoline engine				Air-cooled single cylinder four-cycle gasoline engine				Air-cooled single-cylinder diesel engine
Drive manufacturer	–	Wacker Neuson	Wacker Neuson	Wacker Neuson	Wacker Neuson	Wacker Neuson	Wacker Neuson	Wacker Neuson	Wacker Neuson	Wacker Neuson	Wacker Neuson	Wacker Neuson	Honda	Wacker Neuson	Honda	Yanmar
Type of drive	–	Electric motor	Electric motor	WM 80	WM 80	WM 80	WM 80	WM 80	WM 80	WM 80	WM 80	WM 100	GX100	WM 100	GX100	L 48
Displacement	cm³	–	–	80	80	80	80	80	80	80	80	97	98	97	98	211
Power output (DIN ISO 3046)	kW	–	–	1.1	1.7	1.8	2.0	2.0	1.7	1.8	2.0	2.4	2.35	2.4	2.35	3.1
At revolutions per minute (RPM)	1/min	–	–	4,800	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,200	4,200	4,200	4,200	3,450
Gasoline-oil mixture	–	–	–	50 : 1	100 : 1	100 : 1	100 : 1	100 : 1	120 : 1	120 : 1	120 : 1	–	–	–	–	–
Fuel consumption	l/h	–	–	0.45	1.0	1.2	1.3	1.2	1.0	1.2	1.3	1.2	0.9	1.2	0.9	0.9
Tank capacity (fuel)	l	–	–	2.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.2
Tank capacity (oil)	l	–	–	–	–	–	–	–	1.3	1.3	1.3	–	–	–	–	–

		BP 600
GENERAL		UNIT
Weight	kg	9.5
Dimensions (L x W x H)	mm	220 x 290 x 194
Capacity	Ah	12
Energy content	Wh	614.4
Rated voltage	V	51
Max. discharge current	A	50
Max. charging current	A	18

Oil.max the premium oil from Wacker Neuson.

The high quality, fully synthetic two-cycle oil sustainably prevents wear. For a long service life of your equipment.

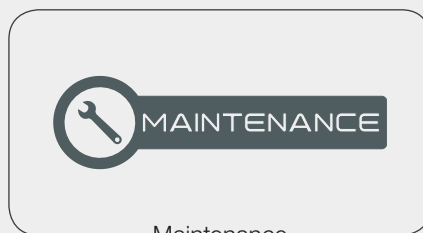
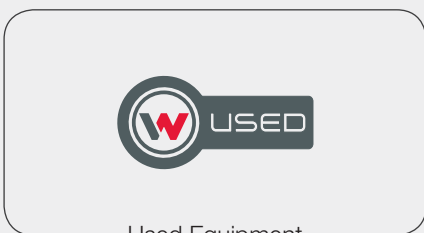
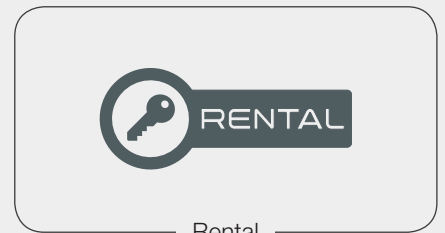
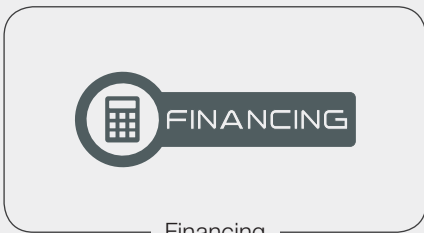
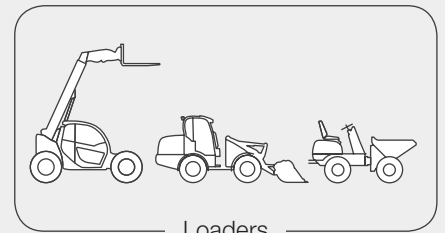
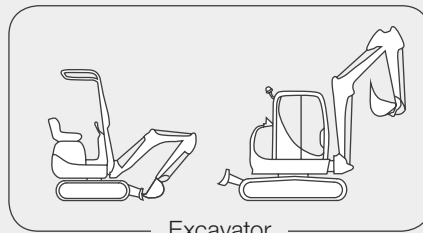
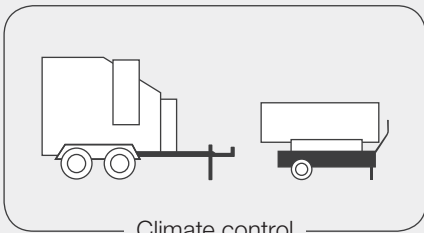
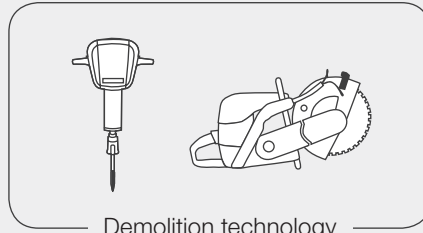
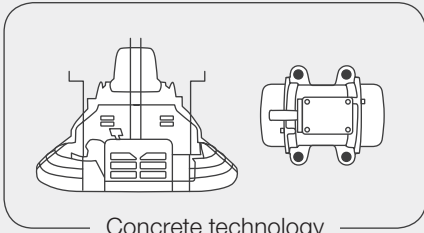


Everything for your project.



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Wacker Neuson offers you the complete range of solutions of powerful quality products combined with services that back you up in any situation.



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