

AIR[®]MATIC

WE'LL HANDLE IT.



**WACKER
NEUSON**

all it takes!

CONCRETE PRODUCTS

COMPLETE LINE OF CONCRETE TECHNOLOGY

AIR[®]MATIC

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THESE REASONS SPEAK FOR THE CONCRETE TECHNOLOGY OF WACKER NEUSON.

1. Best quality guaranteed – all components made in Germany!

Make no compromises in terms of quality with your projects related to concrete processing. You can rely on the concrete technology equipment by Wacker Neuson in any situation: All components are made in Germany – and, in addition to their performance, also impress with their durability and highest quality down to the last detail.

2. Performance without compromising – with powerful motors, that are convincing.

The concrete technology equipment by Wacker Neuson is fitted with powerful motors developed predominantly by Wacker Neuson that are specifically tailored to the demands of the products. You will master any challenge!

3. Concentrated expertise – our concrete specialists are always there for you.

To ensure optimum results in concrete processing you can rely on our expertise since we have in-depth understanding of concrete compaction – and concrete specialists of Wacker Neuson Concrete Solutions are ready to lend you active support to ensure that you get the best out of your projects.

Wacker Neuson – all it takes!

We offer products and services rendered that meet your high requirements and diverse applications. Wacker Neuson stands for reliability. This of course also applies to all of our solutions in concrete technology. We do our best every day to ensure your success. And we do this full of passion for our jobs.

OVERVIEW OF ALL CONCRETE TECHNOLOGY PRODUCTS.

Internal vibrators:



Rebar tier:

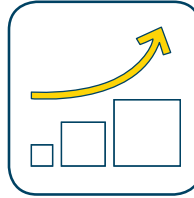
Frequency converter:





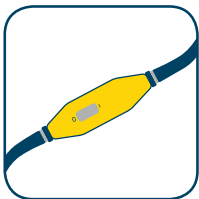
RPM-stable motors

Our motors yield maximum performance – regardless of concrete consistency or current and power fluctuations.



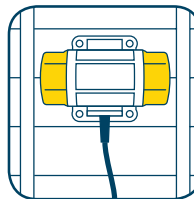
Finely tiered model selection

The right solution for every challenge: Select the right model from various, finely tailored model sizes and diverse RPMs.



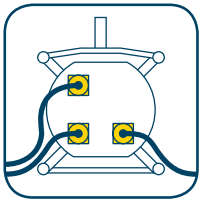
Integrated converter

for independent use Some of our models have built-in converters, which make the purchase of external converters unnecessary.



Ideally suited for quality exposed concrete surfaces

AR26 is convincing due to particularly high compaction performance. The result: perfect concrete surfaces. It is also available with an integrated converter.



External converters

Precisely configured: In order to connect multiple devices, you can use a variety of external converters.



Concrete Solutions

Our concrete specialists will support you, if necessary, in all matters relating to concrete compaction, as well as in planning of optimum technical and economic solutions.

External vibrators (selection):



AR26



AR34



AR43



AR54



AR64



AR75

> Page 10



KTU2



FU1.5



FU1.8



FU4



FU5

> Page 14

INTERNAL VIBRATORS IE AND IEC

A sophisticated machine concept in a robust design: The model lines IE and IEC by Wacker Neuson offer reliable concrete compaction performance.

- High-frequency technology for good results in concrete compaction
- Sturdy quality with a good cost/benefit ratio
- 2 model lines available: with and without integrated converter
- Ideal ergonomics for good handling
- Durable and low-wear vibrator head – tempered in the front third
- Power cable made from a high-grade, robust PUR

Sturdy high-frequency internal vibrator for optimum results, with an attractive cost/benefit ratio.

IE



IEC



REDUCE EQUIPMENT: Die IEC line makes additional frequency converters unnecessary.

45-ft long power cable can be shortened as needed.



Saves time and money: Rubber nose cap. can be replaced on the construction site without tools.





INTERNAL VIBRATORS WITH BATTERY

This cordless 12,000 RPM, Battery Backpack Internal Vibrator guarantees the user maximum flexibility in the precast plant or construction site when compacting concrete. This vibrator is particularly helpful when working on formwork and scaffolding because the operator gains the benefits of greater freedom of movement and an unlimited working radius – the operator no longer has to drag cables behind him. Further, the long-lasting, rechargeable battery provides power for an entire working day.






FEATURES & BENEFITS

- Time and effort savings: When processing large areas, the operator saves time and effort, as no re-plugging of the internal vibrator connection or relocation of the converter is necessary.
- High ergonomics: The backpack system was developed by a German brand manufacturer for back packs and offers very good weight distribution and high wearing comfort.
- Safety: As the protective hose and cables are directly connected to the backpack, there is no risk of tripping on the construction site due to cables/hoses on the ground.
- The electric motor is maintenance-free, which saves time and money.
- Always flexible: parts with different hose lengths and bottle diameters can be connected to the converter backpack depending on application and requirements.

3 VIBRATOR HEAD SIZES

3 different diameters are available for IE, IEC, and ACBe series: 1.5, 1.75 and 2.25 in

			
Length	13.58"	15.00"	15.75"
Ø	1.50"	1.75"	2.25"

INTERNAL VIBRATOR IREN AND IRSEN

Productivity and durability — these are the outstanding characteristics of the Wacker Neuson IREN range. Even under tough conditions, these high-frequency internal vibrators boast an all-round consistently high compaction performance.

- High-performance electric motor with stable speeds
- Electric motor designed, developed and produced in Germany
- Sturdy switch box made from aluminum
- Integrated thermal overload protection breaker
- Entire vibrator head body hardened
- Extremely durable vulcanized rubber cap for the protection of the formwork, optional



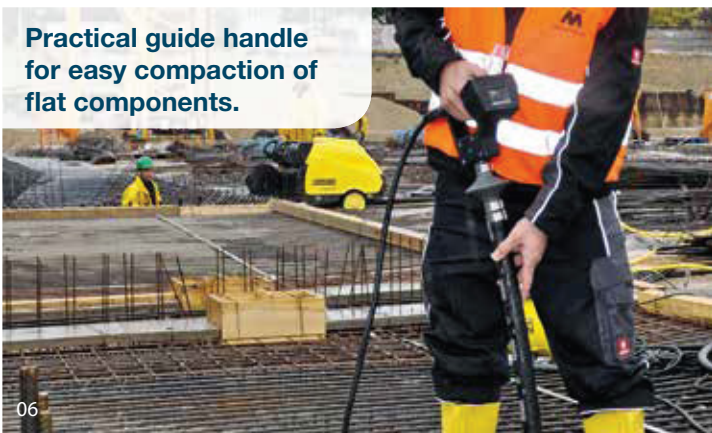
1

Ergonomic, low-vibration handle for comfortable work during compaction of large areas, such as floors and ceilings.



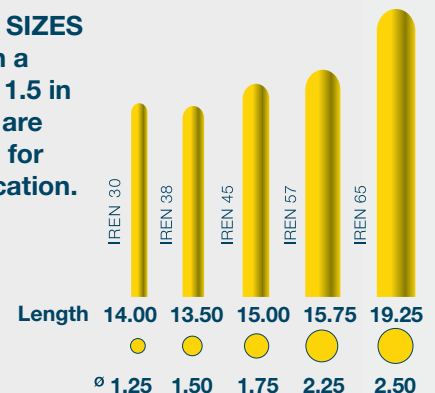
Reliable high-frequency internal vibrator, durable and extremely powerful.

Practical guide handle for easy compaction of flat components.



5 VIBRATOR HEAD SIZES

Vibrator heads with a diameter of 1.25 to 1.5 in are available. They are optimally equipped for every field of application.



06

INTERNAL VIBRATOR IRFU AND IRSE-FU

Due to an integrated frequency converter, these high-frequency internal vibrators of the IRFU range are best suited for independent use. Just connect to a single-phase power supply and you can start immediately.

- Built-in frequency converter
- Trouble-free service, even with generators and fluctuating input voltages
- Potted electronic components make the inverter wear-free
- Available in different hose lengths and voltages
- Developed and produced in Germany according to the highest quality standards



2



3



Secure and independent due to an ergonomic handle, integrated converter and Bodyguard™.



Integrated converter: efficient and practical, wear-free due to potted electronic components.

1. Vibrator head with cylindrical roller bearings

Completely induction-hardened, extremely durable vibrator head shows less wear, especially with abrasive concrete aggregates. Repairs or replacement of wear parts can be completed easily and quickly.

2. Bodyguard™

Safety First – Bodyguard™ protection system offers unrestricted safety. The Bodyguard™ is integrated at the plug end of a power cable and controls all subsequent components. In an emergency situation, power supply is interrupted within three milliseconds.

3. Integrated frequency converter

These internal vibrators make additional frequency converters unnecessary. Just connect to a plug receptacle and get started right away. Potted electronic components ensure maximum safety.

MODULAR INTERNAL VIBRATOR SYSTEM IRFUFLEX

Maximum flexibility in jobsite applications, as well as reduced costs: In the IRFUflex range, vibrator heads can be easily replaced in a few simple steps. The modular system with an easy to use, but extremely sturdy coupling makes this possible. Due to the promptly replaceable vibrator heads, you are optimally equipped for almost any task.

- Reduced acquisition and maintenance costs due to interchangeable parts
- Space-saving storage due to compact dimensions
- Fast replacement of the vibrator through a coupling that can be hand-tightened without having to use any additional tools
- Reliable sealing protects against dirt and splash water
- Sturdy and highly reliable design contribute to long service life
- Practical accessories, such as carrying handle or shoulder strap
- Vibrator head options with and without rubber nose cap available
- Hose lengths from 1 to 30 ft

	FUflex 4/230
Weight (kg)	20.75
Input voltage (V)	220
Rated current (A)	6
Output current (A)	3.5
Cable length (m)	50

THE FLEXIBLE MODULAR SYSTEM

1. Converter component

The internal vibrator is fitted with an integrated frequency converter. The converter component consists of a power cable, Bodyguard and converter housing. The easy-to-use coupling allows for a fast connection with the vibrator head.

2. Vibrator component

The vibrator component consists of a protection hose and vibrator head. To ensure optimum compaction performance, 4 different vibrator head diameters are available with the respective protection hose lengths up to 30 ft.

	IRflex30	IRflex38	IRflex45	IRflex57
Weight (lb)	14.77	23.58	26.45	37.47
Vibrator head diameter (in)	1.25	1.50	1.75	2.25
Length of protection hose max. [ft]	33	33	33	33
Frequency (Hz)	200	200	200	200
Oscillation (rpm)	12,000	12,000	12,000	12,000



Sturdy coupling – for quick replacement.



4 vibrator head diameters – for various applications.

MODULAR INTERNAL VIBRATOR SYSTEM HMS

Flexibility and economic efficiency are compelling: the modular HMS series can be tailored to match your needs. You therefore receive a solution that enables to master a further challenge.

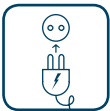
- Can be configured individually with various combinable flexible shafts, vibrator heads and motors or engines
- Quick disconnect coupling for ease of handling
- Combustion engines and electric motors in different performance classes provide for flexibility in the drive system.
- High wear resistance due to induction hardened vibrator head

THE FLEXIBLE HMS SYSTEM

- 1. Flexible shaft:** steel mesh and spiral steel protection provide for kink resistance.
- 2. Vibrator head:** perfect compaction performance with excellent wear resistance and long service life.
- 3. Drive:** high-performance combustion engine or electric motor (optionally) drives with a quick disconnect coupling and high-performance air filter.

Two maintenance-free electric motors to choose from:

M1500 & M2500



EXTERNAL VIBRATORS

Whether for in-situ formwork or for light to heavy concrete component formwork, whether for use in concrete and precast factories, material transport or further industrial applications: Wacker Neuson offers over 40 powerful external vibrators with various speed and voltage versions. This allows an optimum use for your specific area of application.

- Asynchronous motor with stable speed
- Finely adjustable centrifugal forces via adjustable eccentric weight discs
- Different voltage and rpm versions
- Developed and produced in Germany
- Diverse bore patterns and fastening options for optimum attachment to formwork



AR26

Perfect for in-situ concrete formwork and quality exposed concrete surface applications.



AR34

Ideally suited for light and medium formwork in concrete and precast factories.



AR43

Flexible for in-situ concrete applications
For AR26, there is a large selection of fastening clamps from Wacker Neuson, which can be mounted in all common formwork.



Ideal flowability of bulk materials in silos.



**THE CONCRETE SPECIALISTS OF AIRMATIC
WILL SUPPORT YOU IN OPTIMIZING YOUR
COMPACTION RESULTS!**



AR54

Well suited for concrete and precast factories.



AR64



AR75

The right choice for heavy precast formwork and material transportation.



Perfectly suited for job site application: ARFU26 is fitted with an integrated converter.

The practical helper: the exposed concrete kit. With the exposed concrete kit you are best equipped for the compaction of high-quality exposed concrete surfaces. The sturdy wooden box mounted on a steel plate comprises a frequency converter, an external vibrator and mounting brackets.





REBAR TIER DF16

Thanks to the mechanically operated rebar tier by Wacker Neuson, there is no more tying of reinforcing steel with pliers in a stooping position. Perfectly suited for traditional work on rebars and for securing plastic tubes.

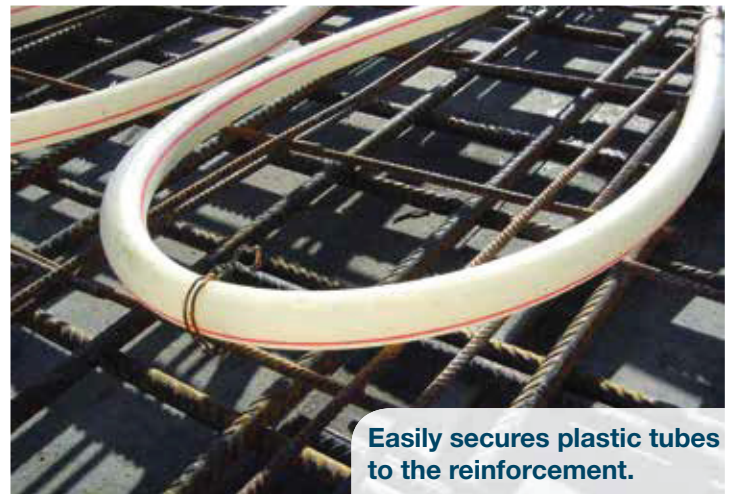
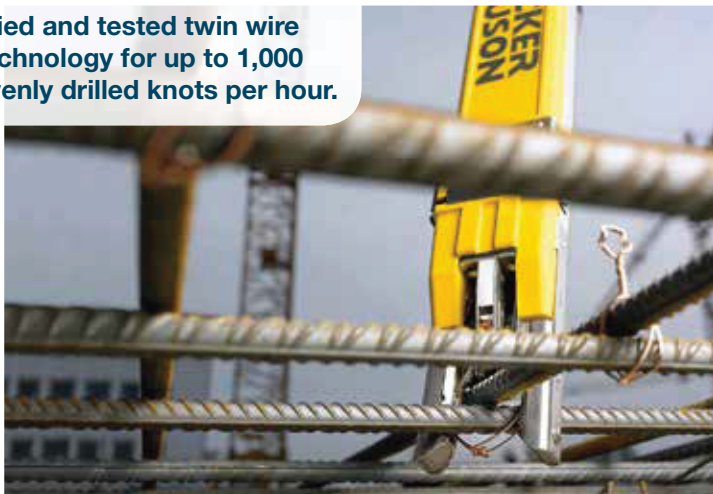
- The mechanical machine concept easily binds the reinforcement
- Evenly drilled and solid knots
- Easy to operate with just one hand and in an anatomically correct, upright posture
- Equally suitable for horizontal applications (ceilings and floor panels) and vertical utilization (walls, pillars)

The practical holster can easily be attached to your waistband.



The practical holster can easily be attached to your waistband.

Tried and tested twin wire technology for up to 1,000 evenly drilled knots per hour.



Easily secures plastic tubes to the reinforcement.

HIGH-FREQUENCY CONVERTER FUH20

The FUH20 weighs just 19.62 lbs. The frequency converter is easy to transport on the job site and therefore flexible in application. Wacker Neuson was the first company to implement the high-frequency technology that has been time-tested and proven in other industries. This achieves better performance with lower weight.

- Frequency converter with a 20-amps plug receptacle
- Innovative high-frequency technology — top performance with compact dimensions and low weight
- Easy transportation due to an ergonomically shaped lift handle
- Efficient cooling fins design; reliable, even in the event of dirt accumulation from concrete
- Long service life, thanks to the extremely durable aluminum housing
- Ideally suited for operation of Wacker Neuson internal vibrators with a vibrator head diameter of up to 2.25 in, as well as for AR26/6/042



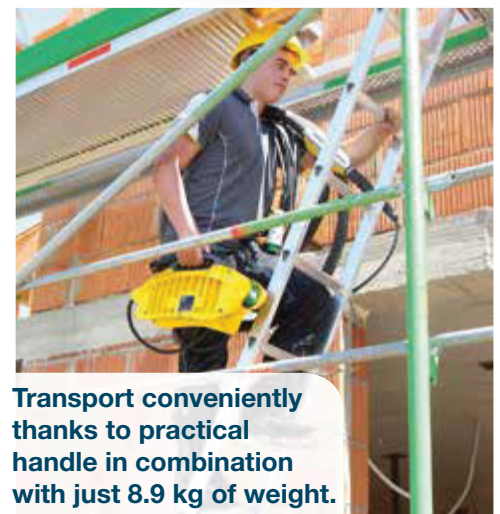
**Light and convenient –
perfect for small job sites.**



Well protected plug receptacle by housing projections, even if the FUH20 is lying on its side.



Large and bright operating lights ensure good visibility in strong light.



Transport conveniently thanks to practical handle in combination with just 8.9 kg of weight.

ELECTRONIC FREQUENCY CONVERTER

Impressive performance, even in long-term operation: due to the use of high-quality electronics and active cooling system, these converters meet the highest demands.

- Light and compact design
- Good handling due to a sophisticated aluminum design
- The intelligent voltage and power management compensates for fluctuations of mains input voltage, wrongly dimensioned extensions or appliances with greatly varying use of power
- Deployable virtually everywhere due to a pulse sensitive protective ground fault interrupter
- Maximum safety: galvanic isolation with isolating transformer
- Maintenance-free



KTU2

Compelling: high quality electronics and active cooling system.



FUE6

Flexible use due to the 75 ft power cable and low weight.



FUE-M/S75A

Intelligent voltage and power management, e.g. for compensation of fluctuations of mains input voltage.

Number of connectible internal and external vibrators

	Rated current A	KTU2	FUE1	FUE2	FUE6	FUE-M/S75A	FUE-M/S85A
Rated current A		35.0	25.0	35.0	52.0	75.0	85.0
Number of plug receptacles (32 A)		2	1	2	3/4	4/6	4
IREN 30, IE 38	3.5/5	2	1	2	3-4	4-6	4
IREN 38, IE 45	7.5/8	2	1	2	3-4	4-6	4
IREN 45, IE 58	10.0/12.2	2	1	2	3-4	4-6	4
IREN 57	17.3	2	1	2	3	4	4
IREN 65	25.0	1	1	1	2	2-3	0
AR 26/6/042	9.0	2	1	2	3-4	4-6	4

MECHANICAL FREQUENCY CONVERTERS

The mechanical frequency converters by Wacker Neuson are compact power packs that are well suited for long-time application.

- Mechanical machine concept
- Extremely low maintenance: these converters work without carbon brushes
- Immune to overheating: the windings are made of heat-resistant Class H material and can withstand temperatures of up to 356°F
- Extremely sturdy and durable



FU1.5/200W

Safely protected against splash water.



FU5/200W

Simple construction combined with user-friendly and safe operation.

FU1.5/200W	FU1.8/200W	FU4/200W	FU5/200W
20.6	27.0	52	69.0
-	-	-	-
2	2	3	4
2	2	3	4
2	2	3	4
1	1	3	4
-	1	2	24
2	2	3	2

AIRMATIC®

WE'LL HANDLE IT.

AIRMATIC INC founded in 1944, is a woman-owned Industrial Distributor, with installation and maintenance capabilities, offering equipment, machinery, and shop supplies to the Industrial, Construction, Utility, Government, and Commercial Markets. Our products and services are sold through three business units:

The **MATERIALS MANAGEMENT GROUP** provides products and services to industries that convey, store, transport, and process powders and bulk solids from aggregates, cement, and chemicals to foods, grains, metals, power generation, and waste water treatment applications;

The **SERVICE GROUP** provides fabrication, installation, and maintenance services to improve bulk materials handling efficiency; mechanical clean-out services for silos and hoppers to eliminate material flow problems; and shop repair/rebuilding and modifications services of products sold by the Company.

The **TOOL GROUP** provides power tools, personal protective equipment, materials-handling equipment, shop equipment and MRO supplies used for production, fabrication, assembly, metal removal, maintenance, and storage in manufacturing, construction, utility, and commercial applications. Our Customers tell us that by choosing **AIRMATIC** to solve their problems, they gain increased productivity, decreased costs, and a safer, cleaner work environment.



WACKER NEUSON an international leader in construction equipment manufacturing, has been established in North America since 1957. The Company maintains a design, development and production facility in Menomonee Falls WI where it manufactures internal concrete compacting vibrators and trowels for concrete surface finishing.

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