

Concrete technology



**WACKER
NEUSON**
all it takes!



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!

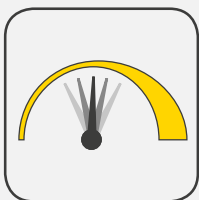
3. Concentrated expertise – our concrete specialists are always there for you.

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!

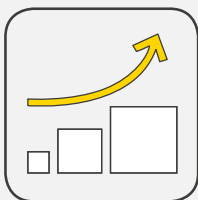
We offer products and services rendered that meet your high requirements and diverse applications. Wacker Neuson stands for reliability. This of course also applies to all of our solutions in concretetechnology. We do our best every day to ensure your success. And we do this full of passion for our jobs.

Concrete expertise down to the last detail.



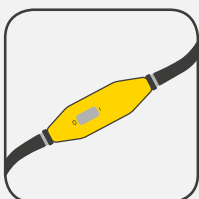
RPM-stable motors

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



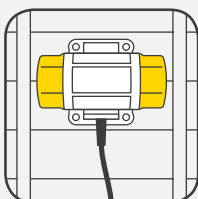
Finely tiered model selection

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



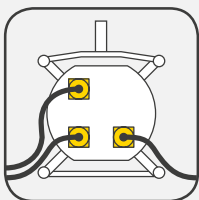
Integrated converter

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.

Overview of all concrete technology products.

Internal vibrators:



> Page 04

> Page 06

> Page 08

Rebar tier:



DF16

> Page 12

Frequency converter:



FUH20



FUE2



FUE6



FUE-M/S75



FUE-M/S85

> Page 14

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.

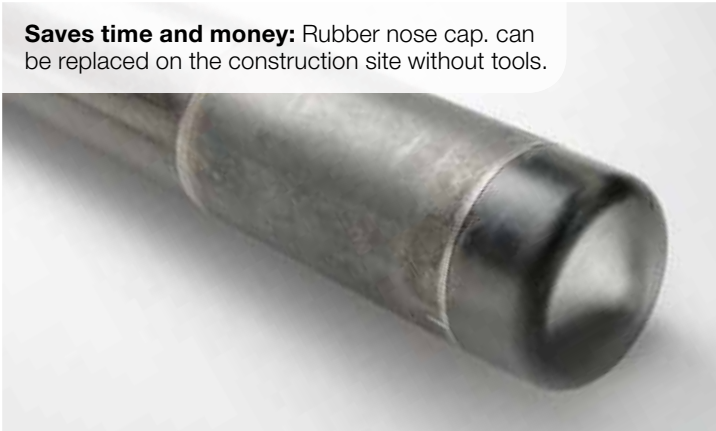


Reduce equipment:
Die IEC line makes additional frequency converters unnecessary.

15-m long power cable,
can be shortened as needed.



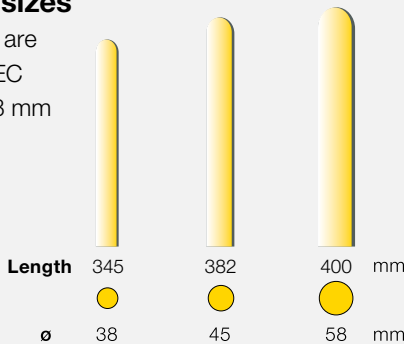
Saves time and money: Rubber nose cap. can be replaced on the construction site without tools.



The IEC series models are fitted with a ground fault interrupter.



3 vibrator head sizes
3 different diameters are available for IE and IEC series: 38, 45 and 58 mm



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. 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.



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.

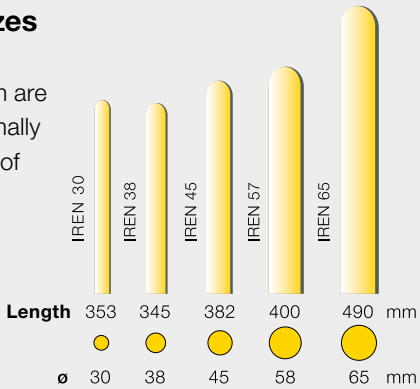


Practical guide handle for easy compaction of flat components.



5 vibrator head sizes

Vibrator heads with a diameter of 30 to 65 mm are available. They are optimally equipped for every field of application.



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



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

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.



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

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 0.3 to 10 m

FUflex4/230	
Weight (kg)	9.4
Input voltage (V)	220
Rated current (A)	6
Output current (A)	3.5
Cable length (m)	15

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 10 m.



	IRflex30	IRflex38	IRflex45	IRflex57
Weight (kg)	6.7	10.7	12	17
Vibrator head diameter (mm)	30	38	45	58
Length of protection hose max. [m]	10	10	10	10
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 excellent 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.



= HMS

ALL POSSIBLE COMBINATIONS can be found online at wackeneuson.com

M2500



Two maintenance-free electric motors to choose from: M1500, M2500.



A5000



HMS with a gasoline engine A5000, also available as a diesel engine L5000/225.



External vibrator

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

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

AR26



AR54



Well suited for concrete and precast factories.

AR63



AR75



The right choice for heavy precast formwork and material transportation.

AR43



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

AR34



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.



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)



Rebar tier independent of battery level and charging times.

* Awarded for its outstanding performances in occupational safety and health protection by BG Bau (Professional Association of the Construction Industry)



The practical holster can easily be attached to your waistband.

DF16

High-frequency converter FUH20

The FUH20 weighs just 8.9 kilograms. 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.

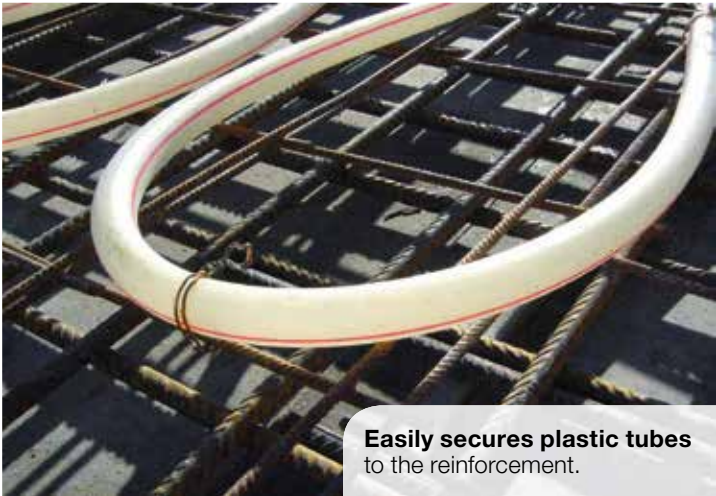
- Frequency converter with a 20-amper plug receptacle
- Innovative high-frequency technology — top performance with compact dimensions and low weight
- Easy transportation due to an ergonomically shaped lift handle
- Efficient cooling fins design; absolutely reliable, even in the event of dirt accumulation 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 58 mm, as well as for AR26/6/042



FUH20

Light and convenient – perfect for small job sites.

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



Easily secures plastic tubes to the reinforcement.

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 pule sensitive protective ground fault interrupter
- Maximum safety: galvanic isolation with isolating transformer
- Maintenance-free

KTU2



Flexible use
due to the
25-m power
cable and low
weight.

Compelling: high-quality
electronics and active
cooling system.

FUE6



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

FUE-M/S75A



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 180°C
- Extremely sturdy and durable

Safely protected
against splash
water.



FU1.5/200W

FU4/200W



Simple construction
combined with user-friendly
and safe operation.

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
IREN30, IE38	3.5/5	2	1	2	3-4	4-6	4
IREN38, IE45	7.5/8	2	1	2	3-4	4-6	4
IREN45, IE58	10.0/12.2	2	1	2	3-4	4-6	4
IREN57	17.3	2	1	2	3	4	4
IREN65	25.0	1	1	1	2	2-3	0
AR26/6/042	9.0	2	1	2	3-4	4-6	4

FU1.5/200 W	FU1.8/200W	FU4/200W	FU5z/200 W
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

Technical data

INTERNAL VIBRATORS	IE38				IE45			IE58			IEC38			IEC45			IEC58			IREN30			IREN38			IREN45			IREN57			IREN65		

INTERNAL VIBRATORS	IRSEN30				IRSEN38			IRSEN45			IRSEN57			IRFU30			IRFU38			IRFU45			IRFU57			IRFU65			IRSE-FU45			IRSE-FU57		

* This is a non-binding specification based on practical experiences of our customers under certain operating conditions. Please note that under specific boundary conditions, these findings may vary. We recommend always beginning by carrying out a test pour under operating conditions.
** Different protective hose lengths available.

VIBRATOR HEADS	H25				H25S			H25HA			H35			H35S			H35HA			H45			H45S			H45HA			H50HA			H55			H65		

FUFLEX	FUFlex4/230		
--------	-------------	--	--

Technical data

EXTERNAL VIBRATOR	AR26/3/230w AR26/3/400 AR26/3.6/230 AR26/6/042 AR26/6/042 3.5 Hn AR26/6/042cs AR26/6/250 ARFU26/6/115UK ARFU26/6/230 AR 34/3/230V* AR34/3/400												
	SPECIFICATION		UNIT										
	Revolutions per minute (RPM)	1/min	3,000	3,000	3,600	6,000	6,000	6,000	6,000	6,000	0–5,220	3,000	
	Max. centrifugal force	kN	3.00	3.00	3.47	3.47	3.47	6.47	3.47	3.47	0-6.93	3.47	
	Voltage	V	230, 3~	400, 3~	230, 3~	42, 3~	42, 3~	42, 3~	250, 3~	110–130, 3~	220–240, 3~	0–400, 3~	400, 3~
	Current	A	1.75	0.57	1.1	8.0	8.0	8.0	1.3	12.0	6.0	1.3	0.75
	Weight	kg	7.0	6.2	5.5	6.2	6.4	7.5	4.6	11.2	11.2	6.3	7.0
	Attachment (length x width)	mm	90 x 125	90x125	90x125	90x125	90x125	90x125	90x125	90x125	90x125	120x120	120x120

EXTERNAL VIBRATORS	AR34/6/042AR34/6/250AR43/3/230v*AR43/3/400AR43/6/042AR43/6/250AR52/6/042AR52/6/250AR52/9/042AR53/3/400											
	SPECIFICATION	UNIT										
	Revolutions per minute (RPM)	1/min	6,000	6,000	0–5,220	3,000	6,000	6,000	6,000	6,000	9,000	3,000
	Max. centrifugal force	kN	6.98	6.98	10.52	10.10	10.10	10.10	14.14	14.14	13.77	14.14
	Voltage	V	42, 3~	250, 3~	0–400, 3~	400, 3~	42, 3~	250, 3~	42, 3~	250, 3~	42, 3~	400, 3~
	Current	A	9.0	1.7	1.5	1.5	15.0	15.0	18.2	2.7	14.0	1.7
	Weight	kg	5.9	5.9	8.8	12.1	8.4	8.4	18.6	18.6	17.9	16.8
	Attachment (length x width)	mm	120x120	120x120	90x154	90x154	90x154	90x154	120x120	120x120	120x120	90x154

EXTERNAL VIBRATORS	AR53/6/042 AR53/6/250 AR53/9/042 AR53/9/250 AR54/6/250 AR62/6/042 AR62/6/250 AR63/6/250 AR64/1.5/400 AR64/3/230 AR64/3/400												
	SPECIFICATION	UNIT											
	Revolutions per minute (RPM)	1/min	6,000	6,000	9,000	9,000	6,000	6,000	6,000	6,000	1,500	3,000	3,000
	Max. centrifugal force	kN	14.14	14.14	13.77	13.77	14.14	19.03	19.03	19.03	5.05	16.05	16.05
	Voltage	V	42, 3~	250,3~	42,3~	250	250, 3~	42, 3~	250, 3~	250, 3~	400, 3~	230, 3~	400, 3~
	Current	A	18.2	2.7	14	2.4	3.1	21.5	3.1	3.1	1.4	3.0	1.7
	Weight	kg	12.3	11.6	11.6	13.6	13.4	20.2	20.2	13.9	21.0	18.7	18.7
	Attachment (length x width)	mm	90x154	90x154	90x154	90x154	120x120	120x120	120x120	90x154	120x120	120x120	120x120

EXTERNAL VIBRATORS	AR64/6/042AR64/6/250AR64/9/042AR75/1.5/400AR75/3/230v*AR75/3/400AR75/6/042AR75/6/250AR75/9/042AR75/9/250											
	SPECIFICATION	UNIT										
	Revolutions per minute (RPM)	1/min	6,000	6,000	9,000	1,500	0-5.220	3,000	6,000	6,000	9,000	9,000
	Max. centrifugal force	kN	19.03	19.03	18.14	10.29	24.12	25.23	26.56	26.56	26.38	26.38
	Voltage	V	42, 3~	250, 3~	42, 3~	400, 3~	0-400, 3~	400, 3~	42, 3~	250, 3~	42, 3~	250, 3~
	Current	A	21.5	3.1	16.0	3.4	3.8	2.4	32.0	7.5	28.0	4.3
	Weight	kg	13.8	13.8	12.9	36.5	30.5	33.0	26.8	26.8	27.5	27.5
	Fastening device (l x w)	mm	120x120	120x120	120x120	95x180	95x180	95x180	95x180	95x180	95x180	95x180

* The external vibrator has a variable drill speed of 0–5,220 rpm.

REBAR TIER	DF16		
	SPECIFICATION		UNIT
	Operating weight	kg	2.2
	Number of tie wires per tie wire strip (magazine)	Pieces	77
	Tie speed	knots/h	approx. 1,000
	Tie speed	sec/knot	approx. 0.8
	Exterior diameter of the round materials to be tied	mm	Minimum 6 + 6/Maximum 16 +16
	Rebar tier order sizes (copper-coated steel wire)		Box: 7,700 rebar tiers/pallet: 138,600 rebar tiers

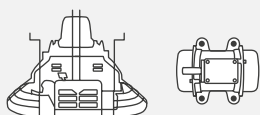
Your everyday work day is full of challenges. We have the right solutions and help you to be ahead of the competition. We offer you everything you need for this purpose:

Wacker Neuson – all it takes!

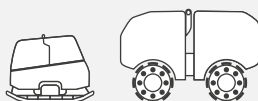


**WACKER
NEUSON**
all it takes!

Products



Concrete technology



Compaction



Demolition technology



Excavators



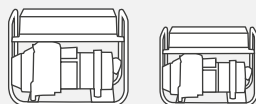
Wheel loaders



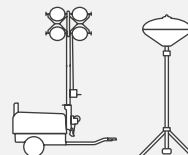
Telehandlers



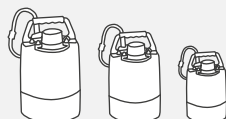
Dumper



Generators



Lighting



Pumps

Services



Repair &
maintenance



Academy

Spare parts



Wacker Neuson (Singapore) Pte Ltd

No. 2A Mandai Estate

#01-02 BHL Factories

Singapore 729928

Tel: +65 6861 0446

Fax: +65 6861 0864

info.singapore@wackerneuson.com

www.wackerneuson.sg