

# Concrete technology



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



# Concrete technology from Wacker Neuson – you can rely on this:

## 1. Concrete technology and consulting expertise – a unique combination.

Wacker Neuson not only offers you a broad product range for concrete processing, but also comprehensive consultation services for your concrete projects. From the planning to the implementation on site. All around the world. The combination of technical expertise, consultation expertise and global sales network is globally unique.

## 2. The power of innovation and project experience – you can build on that.

Our concrete expertise began over 80 years ago with the invention of the world's first internal vibrator. Since then, we have designed and developed countless product innovations for our customers and managed major concrete projects all around the world – from the Hoover Dam to the Olympic Tower in Munich. We are happy to incorporate all of this knowledge into your projects.

## 3. High quality and reliability – no matter what you have planned.

We design, develop and produce our products for concrete consolidation in Germany. That is why we can offer every customer individual solutions. High quality standards for all Wacker Neuson products are particularly important to us.

### Wacker Neuson – all it takes!

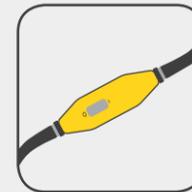
We offer products and services rendered that meet your high requirements and diverse applications. Wacker Neuson stands for reliability. This of course also applies to our solutions in the area of concrete technology. We do our best every day to ensure your success. And we do this full of passion for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

# Concrete expertise to the last detail.



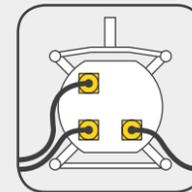
### RPM-stable motors

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



### Integrated converters

For a self-contained application: Some of our models have integrated converters, which make the acquisition of external converters unnecessary.



### External converters

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



### Finely tiered model selection

The right solution for every challenge: Choose the model that is right for you from among various, finely matched model sizes and different rpm.



### Over 80 years experience

In 1937, Wacker invented the first internal vibrator in the world, which was followed by countless additional innovations. Benefit from our extensive knowledge advantage.



### Concrete Solutions

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

More information can be found on page 4/5

# Our concrete technology products in an overview.

## Internal vibrators (selection):



## External vibrators (selection):



## External vibrators (selection):



## Vibratory table:



VT

## Frequency converters (selection):



FUE-M38

FUE M/S 75A



FUH20



FUH35



FUH70

## Wet screed:



P35

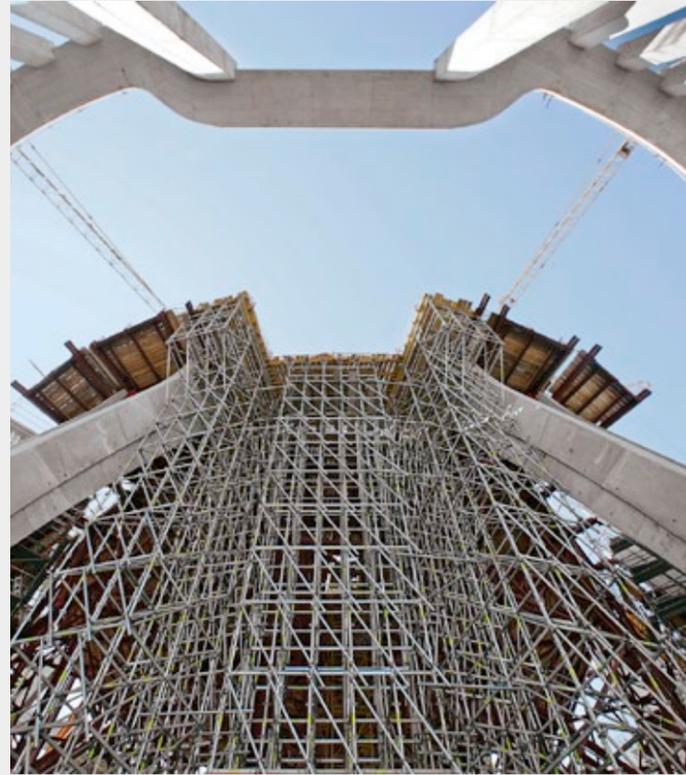
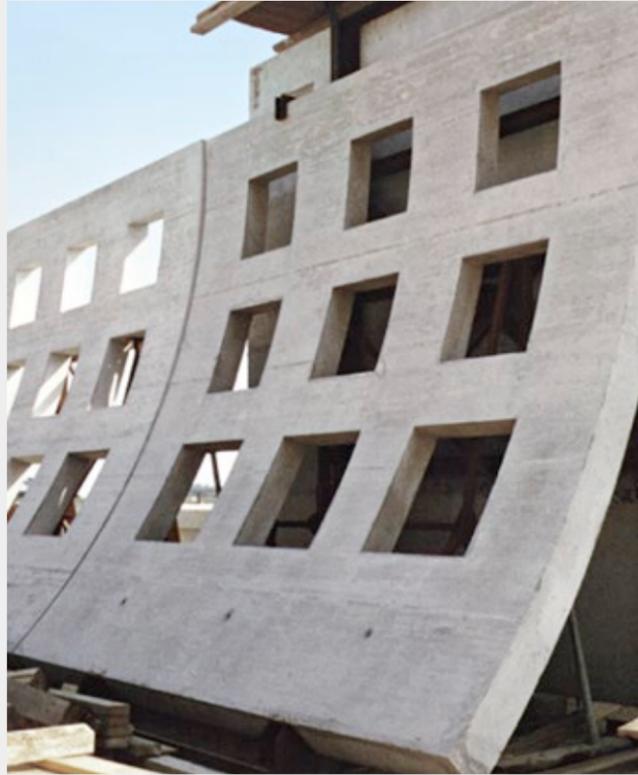
## Rebar tier:



DF16

## The concrete specialists: Cooperative. Advisory. Professional.

Engineers and application specialists from Wacker Neuson concrete solutions support you with far more than the sale of high-quality and reliable concrete technology: For customers from the areas of precast concrete parts, formwork and plant engineering as well as large construction sites, we offer unique planning and consultation services, technical support and much more. We are there for you and your customers – worldwide.



# CONCRETE SOLUTIONS

### Precast concrete parts.

In the precast concrete division, flexibility, individual and economic solutions are important. We provide you with comprehensive support in equipment planning and develop vibration and control solutions that are tailored to your processes.

#### Our services for precast concrete parts factories:

- Consultation and planning of vibration and control systems
- Creation of economical concepts and process optimizations
- Support during commissioning
- Country and application-specific product versions

### In-situ concrete casting construction sites.

Large projects place heavy demands on the planning, implementation and quality of concrete consolidation. With many years of experience from many international concrete projects, you have the concrete specialists of the world available to you.

#### Our services for large construction sites:

- Project-related consolidation solutions using construction site execution planning
- Accompanying concreting on site
- Special vibration solutions for in-situ concrete

### Plant and formwork construction.

Productive plants in the precast concrete section require precisely coordinated components. We offer you modern and construction-specific vibration solutions for all plants and formwork concepts – from vibration technology to control technology to industrial automation.

#### Our services for plant and formwork builders:

- Customer-oriented, economical complete solutions
- Global support in all project phases
- Commissioning at the end customer site by experienced application specialists
- Quick response times by the dense international sales and service network of Wacker Neuson

## The world of construction relies on the expertise of Wacker Neuson.

You would be amazed by how many concrete construction sites around the world have Wacker Neuson expertise in them – including many flagship projects that have made a splash worldwide, such as the 36 kilometer-long Hong Kong Zhuhai Bridge, the expansion of the Panama Canal or the Burj Khalifa in Dubai.

Are you planning a big project? We are happy to assist you in all phases of your projects – whether in bridge construction, building construction or special construction, in tunnel or lock construction – and no matter whether as a supplier or a builder.



You can find more information about Wacker Neuson concrete solutions at:  
[www.wackerneuson.com/concretesolutions](http://www.wackerneuson.com/concretesolutions)

# Portable internal vibrator system.

The ACBe (battery converter backpack) is the first portable high frequency internal vibrator system with battery drive worldwide. Due to this, concrete consolidation is made safer and more comfortable for the operator:

- All cables are plugged in directly to the ACBe, thus keeping them from lying in the wet concrete
- Operator can move freely without being dependent on a power source or having to pay attention to a cable lying on the ground
- Converter integrated in the backpack guarantees a safe protective low voltage of 34 volts
- Less time required, as reconnecting the internal vibrator or moving the converter is no longer necessary



## Concrete consolidation can be this quiet:

The volume of a running ACBe with internal vibrator, with less than 70 decibels, is approximately equivalent to a normal conversation.\*\*

The ACBe produces up to 70% less CO<sub>2</sub> emissions than gasoline-powered internal vibrators.\* This is, however, not just good for the environment, but also offers tangible economic advantages:

- Battery can be used for all zero emission construction equipment
- Significantly lower operating costs due to the maintenance-free electric motor and cost savings on gasoline
- Outstanding consolidation results thanks to high-frequency operation with stable rpm
- Ideal for rental yards: The battery backpack can be combined with different vibrator heads

## The carrying comfort of the ACBe speaks for itself:

The backpack system was developed with a leading brand manufacturer. Only 13.5 kg in total weight are ergonomically distributed among several load points.

## The right solution for any application,

Head components are available in different hose lengths and vibrator head sizes.

Protective hose lengths (m)	1.5	3	5
Vibrator head diameter (mm)	38	45	58

\* CO<sub>2</sub> emissions over the entire service life, direct and indirect, thus including battery production and energy generation (EU mix), compared with a conventional product of the same class.  
 \*\* The decibel value gives the emission sound pressure level (L<sub>pA</sub>). This specifies the sound level of the device at the working area directly assigned to it.

## Loading and transporting with a system.

The battery and battery charger are safely stowed in practical Systainer boxes. More on page 19.



## Removable battery:

simply change it or use it in another electric machine by Wacker Neuson.



**More safety on the construction site:** no more long power cables landing in wet concrete or becoming a tripping hazard.



**Maximum freedom of movement:** with the ACBe, you have everything you need for concrete consolidation.



## Internal vibrators for any requirement.

Powerful internal vibrators are indispensable in consolidation. The Wacker Neuson equipment provide the best work results here: With motors specially developed for application in fresh concrete, the durable and sturdy equipment compact extremely reliably and offer a high level of safety during any step of the work.

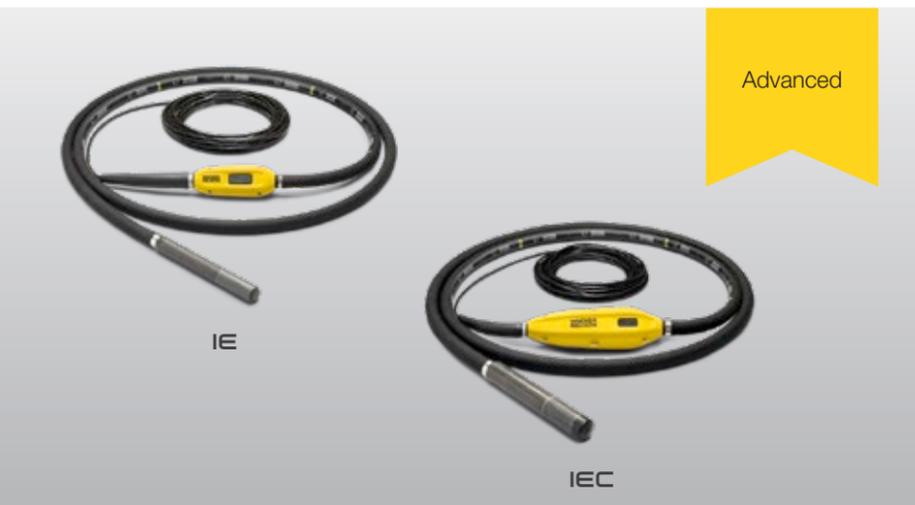
### The Basic line for simple working comfort.

- Individually configurable flexible shafts, vibratory heads and drives in various performance classes



### The Advanced line for all standard applications.

- 2 model series available: IEC with converter, IE without converter
- Sturdy quality with a good cost/benefit ratio
- High-frequency technology for good results in concrete consolidation



### The Premium lines for comprehensive comfort and maximum flexibility.

- High-frequency technology for outstanding results in concrete consolidation
- Long service life due to high-quality and sturdy components

Cable-connected internal vibrators:

- 3 model series with a wide variety of versions and sizes: IREN, IRFU, IRFUflex

Battery-powered internal vibrator ACBe:

- High frequency internal vibrator system with battery drive system
- Wearable as a backpack



## The Basic line.

Basic

Flexibility and economic efficiency that will convince you: The modular HMS series can be individually configured to meet your needs exactly.

- 1. Flexible shaft:** Steel mesh and spiral steel protection provide for a high kink resistance.
- 2. Vibrator head:** Good consolidation performance with high wear resistance and long service life thanks to the induction-hardened vibrator head.
- 3. Drive:** Optionally with a combustion engine or electric motor in different power classes, with easy-to-operate quick disconnect coupling and efficient air filter.



## The Advanced line.

Advanced

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

- High-frequency technology for good results in concrete consolidation
- Sturdy quality with a good cost/benefit ratio
- Durable and low-wear vibrators, additionally tempered in the bottom third
- Sturdy polyurethane power cable

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



**Reduce equipment:** The IEC-series has an integrated frequency converter, which makes additional devices superfluous.



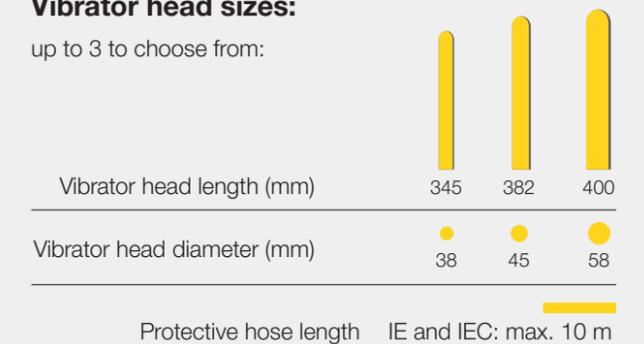
You can find additional details about all internal vibrator systems at: [www.wackerneuson.com/internal-vibrators](http://www.wackerneuson.com/internal-vibrators)

**Economical solution:** With simple comfort in working to ideally consolidated concrete.



### Vibrator head sizes:

up to 3 to choose from:



# The Premium line.

## Internal vibrators IREN and IRSEN.

Even under tough conditions, these high-frequency internal vibrators will convince you with an all-round consistently high consolidation performance.

- Integrated thermal overload protection breaker
- Entire vibrator head body hardened
- Versions available with extremely durable, cured-on rubber cap, ideal for protecting the formwork

Designed, developed and produced in Germany



**Very powerful high frequency internal vibrator** available in a variety of model sizes.

IREN



IRSEN

In addition to the IREN series, this model offers a practical handle.



ACBe

**Everything you need:**  
Complete system with converter and battery in a backpack.

## Internal vibrators IRFU and IRSE-FU.

Thanks to an integrated frequency converter, these high-frequency internal vibrators of the IRFU series are best suited for independent application.

- Integrated frequency converter
- Trouble-free service, even with generators and fluctuating input voltages
- Potted electronic components make the converter wear-free



IRFU



IRSE-FU

**For even more comfortable handling** the IRSE-FU series has a low-vibration handle.

Premium

**Everything integrated:**  
The high frequency internal vibrator with converter and operator protection system Bodyguard.

## Modular internal vibrator system IRFUflex.

Maximum flexibility as well as reduced costs: In the IRFUflex series, the vibrator head part can be easily replaced in a few simple steps. The modular system with its easy-to-use coupling makes this possible.

- Reduced acquisition and maintenance costs due to interchangeable parts
- Coupling point for quickly screwing the vibrator head part on and off
- Vibrator head options with and without rubber nose cap available

**Flexible modular series for optimal consolidation:**  
The converter part can be combined with 4 different vibrator head parts (diameter 30-58 mm) in any hose lengths up to 10 m.



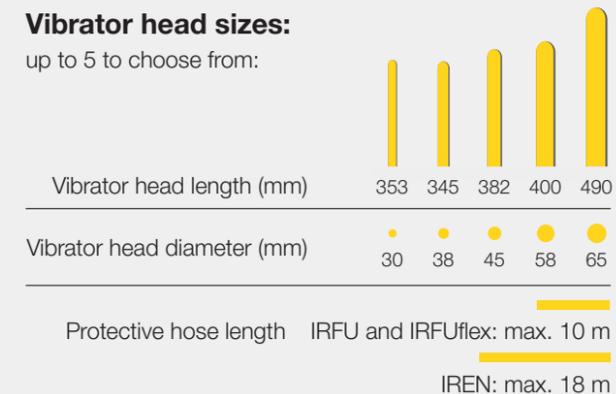
**Practical guide handle** for easier consolidation of flat elements.



**Dependable and sturdy:**  
Internal vibrators by Wacker Neuson are indispensable on many construction sites.

### Vibrator head sizes:

up to 5 to choose from:



### All IRFU, IRSE-FU and IRFUflex with Bodyguard®:

- For a simple connection to any power source
- Optimal operator protection: Interrupts the power supply if necessary within 3 msec.
- Particularly convenient: The Bodyguard® can continue to be used when replacing the cable



## External vibrators.

Whether for in-situ formwork or for light to heavy concrete component formwork, whether for use in precast factories, material transport or further industrial applications: Wacker Neuson offers over 40 powerful external vibrators with various speed and voltage versions. Our concrete specialists are happy to advise you so you can find the perfect solution for your project. They will help to make the right selection and with the sizing of the vibrators, for questions about the electric power supply and control technology as well as assembly and commissioning. In this way, you achieve the optimal result for your application area.

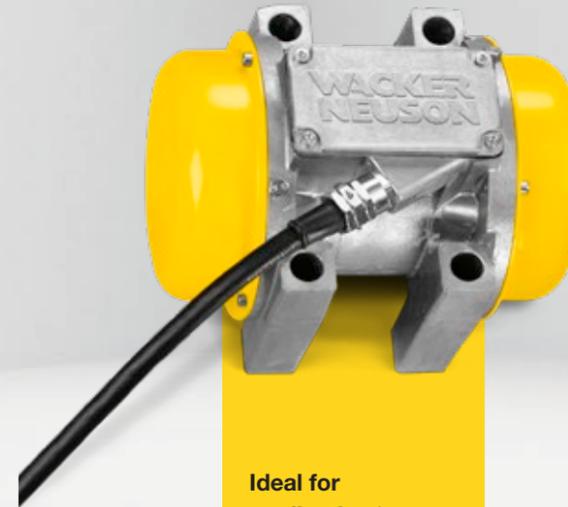
- RPM-stable asynchronous motor
- Finely tiered product range: All external vibrators are available in many voltages/frequencies
- Different voltage and RPM versions
- Made in Germany design, development and production
- Various fastening options for the optimal attachment to the formwork

**Ideal for quality exposed concrete surfaces** – particularly suitable for application on in-situ casting construction sites due to its low weight.



AR26

AR63



**Ideal for application** in concrete and precast factories.

**The right choice** for heavy precast formwork and material transportation.



AR75



AR43

**Ideally suited for** light and medium-weight formwork in precast factories.



AR34



AR54

### The practical helper: The exposed concrete kit

With the exposed concrete kit, you are perfectly equipped for the consolidation of high quality exposed concrete surfaces. The sturdy wooden box on a steel plate contains a frequency converter, external vibrators and fastening clamps.



### Flexible for in-situ concrete applications.

There is a large selection of fastening clamps available from Wacker Neuson for the AR26. These can be attached to all common formwork.



**Loosening and separating** bulk material in a silo.



**Perfect for selective construction site application:** The ARFU26 is fitted with an integrated converter.



## The PEV series.

The pneumatic external vibrators of the PEV series are the first choice for long-term applications or a lack of a power connection. They are particularly durable and low-maintenance thanks to their simple and sturdy design.

- 5 models with different vibration frequencies and centrifugal forces for lightweight to heavy formwork
- As a standard includes quick release clamps and operator's manual



**Ideal for lightweight formwork** such as rod portion formwork and formwork carriages.

## Tailor-made vibratory tables.

Vibratory tables offer flexible application options in industrial concrete processing, whether for small series, special parts or relief of series production. Wacker Neuson produces all vibratory tables according to precise customer requirements - in size, standard equipment and function.



VT

**Completely pre-assembled:**

Thanks to Plug&Play, you can start with production immediately.

### Laboratory vibrating table

- Fixed or variable vibration frequency
- Excellent consolidation performance
- Durable thanks to high-quality construction

### Vibratory trestle

- Versatile application options in production
- High economic efficiency thanks to simple design
- Sturdy and reliable

### VT low-noise vibratory table

- Negligible noise emission
- High quality of exposed concrete thanks to uniform consolidation
- Permanent dimensional stability due to full-surface bearing

## Electronic frequency converters.

The frequency converters of the FUE series are distinguished by their light and compact design. Thanks to the aluminum design, they have very good handling. They give their best performance even in continuous operation.



**Impressive:** High-quality electronics and active cooling system.

### Number of connectible internal and external vibrators to frequency converters:

	Rated current A	FUE M/S 75A	FUE M/S 85A
Rated current A		75.0	85.0
Number of plug receptacles (32 A)		4/6	4
IREN30, IE38	3.5/5	4/6	4
IREN38, IE45	7.5/8	4/6	4
IREN45, IE58	10.0/12.2	4/6	4
IREN58	17.3	4/4	4
IREN65	25.0	2/3	0
AR26/6/042	9.0	4/6	4



## Stationary frequency converters.

FUE-M38



The stationary converters are particularly suitable for precast concrete elements factories. They can be integrated into a complete switching system here and offer tailor-made adjustment options.

- Industry-suitable due to the processing of high-quality components
- Long service life
- Operationally reliable: "Inner workings" are ideally protected from environmental conditions, such as high humidity, due to industry-suitable steel plate housing.
- Radio control and PLC control can be integrated in all devices
- Project-tailored adjustment possible for all devices

(Standard) power levels	17A, 23A, 31A, 43A, 57A, 71A*
Housing dimensions 1 (17-43A)	mm (LxWxH) 800x1,200x400*
Housing dimensions 2 (57+71A)	mm (LxWxH) 800x1,600x500*

**Perfectly tailored** to the frequently varying requirements.

\* Other sizes and power classes are available by customer request.

## High-frequency converters.

The FUH series offers innovative frequency converters with high frequency technology. This allows for particularly compact dimensions and an extremely low weight compared to electronic converters. These units are characterized by a reliable and sturdy current and voltage supply, even during continuous operation. The FUH series is available in three power classes and with up to 6 outlets.

- Extremely lightweight, which makes it easy to transport
- The large operating light allows for a quick function check at any time
- The overload protection protects the connected unit from excessively high input current
- The FUH70 is also available with adjustable frequency
- The sturdy housing made of aluminum is insensitive to damage
- Very good heat dissipation: The efficient cooling concept guarantees a sturdy, reliable performance, even during continuous operation
- Completely maintenance-free



Efficient design of cooling fins, for absolutely reliable operation, even when contaminated by concrete.

	FUH20/1/042	FUH35/2/042	FUH70/4/042*	FUH70/6/042**
Weight (kg)	8.9	17	25.5	25.5
Output current (A)	20	35	58	58
Number of outlets (units)	1	2	4	6

\* also available with frequency adjustment \*\* only available with frequency adjustment

FUH35



FUH70



The sturdy handle with a practical cable coiling aid makes transporting easy.



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

### Number of connectible internal and external vibrators to frequency converters:

	Rated current A	FUH20	FUH35	FUH70
Rated current A		20	35	58
Number of plug receptacles (32 A)		1	2	4/6
IREN30, IE38	3.5/5	1	2	4/6
IREN38, IE45	7.5/8	1	2	4/6
IREN45, IE58	10.0/12.2	1	2	4/6
IREN58	17.3	1	2	4/4
IREN65	25.0	0	1	2/2
AR26/6/042	9.0	1	2	4/6



## Spread, strike off, compact: with the wet screed P35.

When processing concrete floors, our engine-driven vibratory wet screed takes care of three work steps in one. In the process, it is not only extremely practical, but also very easy to operate. Due to the lift handles, it can easily be moved on the concrete and, thanks to the adjustable centrifugal force, it delivers first-class results on all types of concrete.

- Extremely mobile machine concept
- Easy to operate
- Enclosed eccentric housing to protect against dirt, concrete and splash water



## Never bend over again: with the rebar tier DF16.

The rebar tier by Wacker Neuson puts an end to tying reinforcing steel with pliers in a bent position. Perfect for traditional work on reinforcement and for effortless securing of plastic pipes – all in a healthy upright position. The unit works completely mechanically, which means: no battery charging times or expensive replacement batteries. Very easily attach practical holster to your waistband. Experience our innovation live now: [www.wackerneuson.com/DF16](http://www.wackerneuson.com/DF16)



- **Variable:** for horizontal (ceilings, floor plates) as well as vertical application (walls, columns)
- **Precise:** uniformly drilled, fixed knots
- **Ergonomic:** minimized health risk due to the anatomically correct, upright posture
- **Comfortable:** lightweight and can be operated with just one hand
- **Efficient:** up to 1,000 gussets per hour



## Technical data

		ACBE		
INTERNAL VIBRATOR SYSTEM	SPECIFICATION	UNIT		
	Weight without battery	kg	4.2	
	Operating weight with BP1000	kg	13.5	
	Rated current	A	20	
	Rated voltage	V (3~)	51	
	Output frequency	Hz	200	
	Output performance	kW	0.79	
	Dimensions (L x W x H)	mm	296 x 236 x 561	
Protection rating		IP24D		

		IEe38 IEe45 IEe58			
INTERNAL VIBRATOR	SPECIFICATION	UNIT			
	Vibrator head diameter	mm	38	45	58
	Rated current	A	6.2	9.9	–
	Rated voltage	V (3~)	34	34	34
	Output frequency	Hz	200	200	200
	Output performance	kW	0.29	0.47	–
	Hose length	m	1.5/3/5	1.5/3/5	1.5/3/5
	Weight	kg	4/5.2/6.4	5.2/6.3/8.8	7.7/9.5/2.1
	Running time per battery charge	Hours	4	3	2
	Protection rating		IP67	IP67	IP67

		BP1000		
BATTERY	SPECIFICATION	UNIT		
	Weight	kg	9.4	
	Dimensions (L x W x H)	mm	220 x 290 x 194	
	Capacity	Ah	20	
	Energy content	Wh	1,008	
	Rated voltage	V	51	
	Max. discharge current	A	160	
	Max. charging current	A	32	

		Charging time	
BATTERY CHARGERS	SPECIFICATION	UNIT	
	Standard battery charger C48/4	Hours	4
	• Quick battery charger C48/13	Minutes	80

## Strong boxes.

For the battery of our internal vibrator system ACBe, practical transport and charging boxes from the Systainer brand are available. They give protection from soiling and damage.

### Transport box:

The standard transport box was UN-certified specially for Wacker Neuson\*. You can also obtain the transport box, however, as accessories.

### Charging box:

The charging box is a quick battery charger for our batteries integrated into the Systainer and is available as an accessory.



Quick charging box

Transport box

Transport and charging box combined

\* certified in accordance with UN3480 (ADR/RID)

# Technical data

HMS INTERNAL VIBRATOR	VIBRATORY HEADS	H25 H25S H25HA H35 H35S H35HA H45 H45S H45HA H50HA H55 H65												
		SPECIFICATION	UNIT	>> Basic <<										
		Diameter	mm	25	25	26	35	35	36	45	45	45	50	57
Length	mm	440	295	380	410	310	405	385	305	390	395	410	385	
Weight	kg	1.3	0.8	1.3	2.1	1.6	2.3	3.4	2.8	3.3	3.9	5.3	6.2	

HMS INTERNAL VIBRATOR	FLEXIBLE SHAFT	SM1-E SM2-E SM4-E SMO-S SM1-S SM2-S SM3-S SM4-S S5-S SM7-S SM9-S												
		SPECIFICATION	UNIT	>> Basic <<										
		Length	m	1	2	4	0.5	1	2	3	4	5	7	9
Weight	kg	1.5	2.5	4.3	1.3	2.7	4.3	5.9	7.1	9.3	12.9	15.1		

HMS INTERNAL VIBRATOR	DRIVE SYSTEM	M1500 M2500 A5000/160				
		SPECIFICATION	UNIT	>> Basic <<		
		Drive system		Double insulated universal motor	Double insulated universal motor	Air-cooled, single cylinder, four-cycle, Honda gasoline engine
Voltage	V	230	230	-		
Current	A	6.5	7.8	-		
Output	kW	1.5	1.8	4		
Weight	kg	5.3	5.9	23.7		

INTERNAL VIBRATOR	IE38 IE45 IE58 IEC38 IEC45 IEC58						
	with integrated converter						
	SPECIFICATION	UNIT	>> Advanced <<				
Vibrator head diameter	mm	38	45	58	38	45	58
Effective consolidation diameter*	cm	-	-	-	-	-	-
Voltage	V	42	42	42	220-240	220-240	220-240
Current	A	5	8	12	3	4	5
Frequency	Hz	200	200	200	50-60	50-60	50-60
Protective hose**/power cable	m	10/15	10/15	10/15	10/15	10/15	10/15

INTERNAL VIBRATOR	IREN30 IREN38 IREN45 IREN58 IREN65 IRSEN30 IRSEN38 IRSEN45									
	Premium									
	SPECIFICATION	UNIT	>> Premium <<							
Vibrator head diameter	mm	30	38	45	58	65	30	38	45	
Effective consolidation diameter*	cm	40	50	60	85	100	40	50	60	
Voltage	V	42	42/250	42/250	42/250	42	42	42	42	
Current	A	3.5	7/1.4	10/1.85	17.3/3	25	3.5	7	10	
Frequency	Hz	200	200	200	200	200	200	200	200	
Protective hose**/power cable	m	18/15	18/15	18/15	18/15	18/15	0.8/15	0.8/15	0.8/15	

INTERNAL VIBRATOR	IRSEN57 IRFU30 IRFU38 IRFU45 IRFU57 IRFU65 IRSE-FU45 IRSE-FU57									
	with integrated converter									
	SPECIFICATION	UNIT	>> Premium <<							
Vibrator head diameter	mm	57	30	38	45	57	65	45	57	
Effective consolidation diameter*	cm	85	40	50	60	85	100	60	85	
Voltage	V	42/250	220-240, 1~	220-240, 1~	220-240, 1~	220-240, 1~	220-240, 1~	220-240, 1~	220-240, 1~	
Current	A	17.3/3	2.2	3.5	4.8	6	10	4.8	6	
Frequency	Hz	200	50-60	50-60	50-60	50-60	50-60	50-60	50-60	
Protective hose**/power cable	m	0.8/15	10/15	10/15	10/15	10/15	10/15	0.8/15	0.8/15	

FUFLEX	FUflex4/230			IRFLEX	IRflex30 IRflex38 IRflex45 IRflex57			
	SPECIFICATION	UNIT	>> Basic <<					
	Weight	kg	9.4		Weight	kg	6.7	10.7
Output voltage	V	220	Vibrator head diameter	mm	30	38	45	57
Rated current	A	6	Length of protective hose max.	m	10	10	10	10
Output current	A	3.5	Frequency	Hz	200	200	200	200
Power cable	m	15	Oscillations	rpm	12,000	12,000	12,000	12,000

FREQUENCY CONVERTER			FUH20/1/042		FUH35/2/042		FUH70/4/042*		FUH70/6/042**		
	SPECIFICATION	UNIT	>> Basic <<								
	Weight	kg	8.9	17	25.5	25.5	Input / output voltage	V	230/42	230/42	230/42
Input / output frequency	Hz	50/200	50/200	50/200	50/200	Input / output current	A	7.8/20	9.5/35	16/58	16/58
Power cable	m	1.5	1.5	1.5	1.5	Number of outlets	units	1	2	4	6

\* also available with frequency adjustment \*\* only available with frequency adjustment

FREQUENCY CONVERTER			FUE10 42/200W		FUE10 250/200W		FUE M/S 75A		FUE M/S 85A		FUE M/S 225A		
	SPECIFICATION	UNIT	>> Basic <<										
	Weight	kg	87	87	29.5	42	150	Input / output voltage	V	400/42, 3~	400, 3~/250, 3~	400/42, 3~	400/42, 3~
Input / output frequency	Hz	50-60/0-200	50-60/0-200	50-60/0-200	50-60/0-200	50-60/0-200	Input / output current	A	24.5/145	24.5/25	13.7/75	13/85	29/225
Power cable	m	3	3	2.5	2.5	-	Number of outlets	units	-	-	4***	4	-

\* Version with 0-200 Hz available \*\* Version with 4 plug receptacles available \*\*\* Version with 2 or 6 plug receptacles available

REBAR TIER	DF16*				
	SPECIFICATION	UNIT	>> Basic <<		
	Operating weight	kg	2.2	Number of tie wires per tie wire strip (magazine)	Pieces
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	Tie wire order sizes (copper-coated steel wire)		Box: 7,700 tie wires Pallet: 138,600 tie wires

\* Award-winning for excellent performance in occupational health and safety protection by the Trade Association of the Construction Industry

WET SCREED	P35				
	SPECIFICATION	UNIT	>> Basic <<		
	Operating weight	kg	15.5	Drive system	
Output	kW/hp	1.2/1.6	At rpm	rpm	7,000



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

# Technical data

EXTERNAL VIBRATORS			AR26/3/230w	AR26/3/400	AR26/3.6/230	AR26/6/042	AR26/6/042	AR26/6/042cs	AR26/6/250	ARFU26/6/115UK	ARFU26/6/230	AR 34/3/230v**
	SPECIFICATION	UNIT	>> 2-series <<						>> 3-series <<			
Rpm	rpm		3,000	3,000	3,600	6,000	6,000	6,000	6,000	6,000	6,000	0-5,220
Max. centrifugal force	kN		3.00	3.00	3.47	3.47	3.47	3.47	3.47	3.47	3.47	0-6.93
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~
Current	A		1.75	0.57	1.1	8.0	8.0	8.0	1.35	12.0	6.0	1.3
Weight	kg		7.0	6.2	5.5	6.3	6.5	7.5	4.6	18.0	18.0	6.3
Fastening (length x width)	mm		90x125	90x125	90x125	90x125	90x125	90x125	90x125	90x125	90x125	120x120

EXTERNAL VIBRATORS			AR34/3/400	AR34/6/042	AR34/6/250	AR43/3/230v*	AR43/3/400	AR43/6/042	AR43/6/250	AR52/6/042	AR52/6/250	AR52/9/042
	SPECIFICATION	UNIT	>> 3-series <<			>> 4-series <<			>> 5-series <<			
Rpm	rpm		3,000	6,000	6,000	0-5,220	3,000	6,000	6,000	6,000	6,000	9,000
Max. centrifugal force	kN		3.47	6.98	6.98	10.42	10.02	10.02	10.02	14.14	14.14	13.77
Voltage*	V		400, 3~	42, 3~	250, 3~	0-400, 3~	400, 3~	42, 3~	250, 3~	42, 3~	250, 3~	42, 3~
Current	A		0.75	9.0	1.7	1.5	0.6	12.0	2.0	18.2	2.7	14.0
Weight	kg		7.0	5.9	5.9	8.8	12.2	8.4	8.4	18.6	18.6	17.9
Fastening (length x width)	mm		120x120	120x120	120x120	90x154	90x154	90x154	90x154	120x120	120x120	120x120

EXTERNAL VIBRATORS			AR53/3/400	AR53/6/042	AR53/6/250	AR53/9/042	AR53/9/250	AR54/6/250	AR63/6/250	AR64/1.5/400	AR64/3/230	AR64/3/400
	SPECIFICATION	UNIT	>> 5-series <<					>> 6-series <<				
Rpm	rpm		3,000	6,000	6,000	9,000	9,000	6,000	6,000	1,500	3,000	3,000
Max. centrifugal force	kN		14.14	14.14	14.14	13.77	13.77	14.23	19.03	5.05	16.05	16.05
Voltage*	V		400, 3~	42, 3~	250, 3~	42, 3~	250	250, 3~	250, 3~	400, 3~	230, 3~	400, 3~
Current	A		1.7	18.2	2.7	14	2.4	3.1	3.3	1.4	3.0	1.7
Weight	kg		16.8	12.3	11.6	11.6	11.6	13.4	13.9	21.0	18.7	18.7
Fastening (length x width)	mm		90x154	90x154	90x154	90x154	90x154	120x120	90x154	120x120	120x120	120x120

EXTERNAL VIBRATORS			AR64/6/042	AR64/6/250	AR64/9/042	AR75/1.5/400	AR75/3/230v*	AR75/3/400	AR75/6/042	AR75/6/250	AR75/9/042	AR75/9/250
	SPECIFICATION	UNIT	>> 6-series <<				>> 7-series <<					
Rpm	rpm		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 (length x width)	mm		120x120	120x120	120x120	95x180	95x180	95x180	95x180	95x180	95x180	95x180

\* Available in other frequencies / voltages

\*\* The external vibrator has a variable speed of 0-5,220 rpm.

PEV EXTERNAL VIBRATOR			PEV10	PEV14	PEV27	PEV45	PEV60
	SPECIFICATION	UNIT					
Rpm	rpm		16,500	16,000	16,000	8,000	14,500
Centrifugal force	kN		10	14	27	45	60
Air consumption	l/min		1,100	1,200	1,600	1,800	1,800
Operating pressure	bar		6.5	6.5	6.5	6.5	6.5
Weight (without fastening clamp)	kg		7.2	7.3	14	17.6	16.3
Weight of fastening clamp	kg		3.4	3.4	4	4	4

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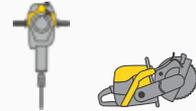
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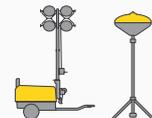
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