Schwingungstechnik GmbH
MOOSER

Product Catalogue

EXTERNAL VIBRATORS VIBRATION MOTORS

Product Catalogue

Service and Contact

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“Small things make perfection, but perfection is no small thing”

Henry Royce (27 March 1863 – 22 April 1933), designer and founder of Rolls-Royce

The history of Mooser Schwingungstechnik goes back to 1973 when the company was founded by our senior partner, Walter Mooser, as a manufacturer of internal and external vibrators as well as electric vibrators for special-purpose mechanical engineering and the construction industry. At a time before the European Economic Area and modern communication technologies, it was difficult for companies to procure machinery and equipment from abroad. They found a reliable partner in us.

In the meantime we have developed an international customer base throughout Europe, as well as in parts of South America and Asia. Just as then, we still aspire – often in close cooperation with our customers and suppliers – to deliver efficient and tailor-made solutions.

Our company combines stability and continuity with passion, flexibility and short decision paths. This provides the foundation for lived partnership based on comprehensive expertise and advisory competence, as well as first-class quality and durability of our products.

You will find our entire current program on the following pages. The representations in the brochure show assembled conditions and construction site pictures, and are therefore not always complete in terms of the safety aspects. For the use and application of our products, the appropriate safety regulations of the countries concerned have to be observed.

small components

INTELLIGENT SOLUTIONS FOR THE CONSTRUCTION

It all began with the idea of developing a powerful but lightweight and robust external vibrator for compaction of concrete that does not damage the formwork. The first productions, trials and measurements were carried out in collaboration with the Technical University of Munich. The vibrators were already being successfully used for concrete compaction at numerous Munich underground railway construction sites such as Poccistrasse, Implerstrasse, Rotkreuzplatz or Lehel.

The concrete recipes have changed radically since then towards more flowable and compactable concrete types. Fair-faced concrete has become a trend for architects in modern times. We are facing up to the new challenges to compaction technology with commitment: through personal monitoring and application on-site we have been able to adapt and extend our know-how.

high impact

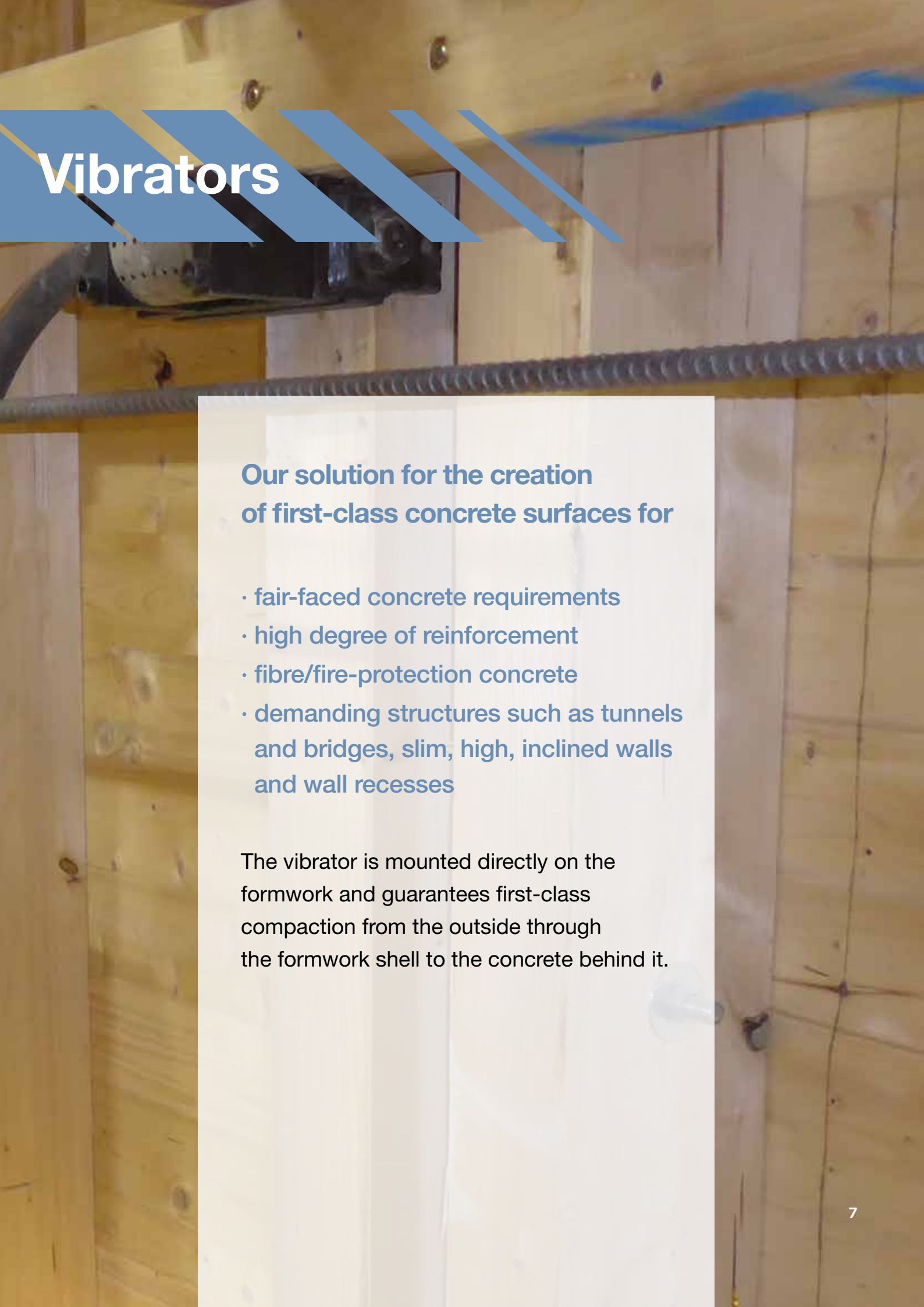
AND THE INDUSTRY SECTOR

Our vibrators and customer-specific vibration solutions are produced here in the region of Munich.

We are convinced that short routes and long years of trust-based supplier relationships make production control easier and promote new developments. In this way we have been ensuring optimum quality and practical, precise results for decades now.

Formwork Vibrators / External

Vibrators



Our solution for the creation of first-class concrete surfaces for

- fair-faced concrete requirements
- high degree of reinforcement
- fibre/fire-protection concrete
- demanding structures such as tunnels and bridges, slim, high, inclined walls and wall recesses

The vibrator is mounted directly on the formwork and guarantees first-class compaction from the outside through the formwork shell to the concrete behind it.

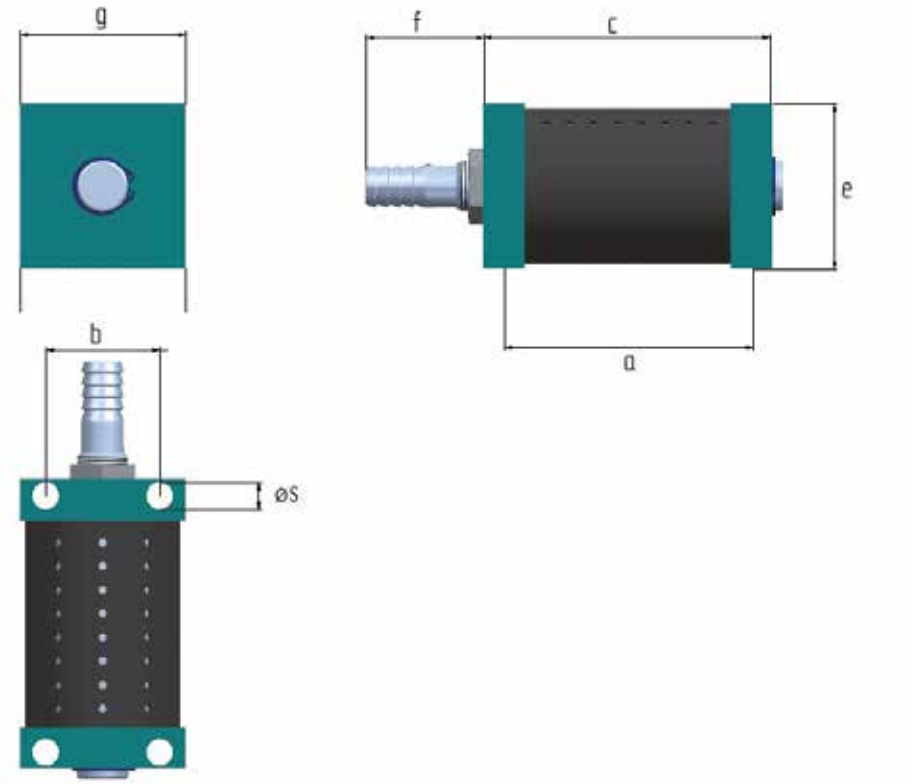
Pneumatic Formwork Vibrators

Our pneumatic formwork vibrators are lightweight, easy to handle and can be steplessly regulated by means of the air volume flow. They immediately reach their nominal speed when the air feed is switched on. Thanks to their compact size they can be easily mounted anywhere on the formwork.

Minimum maintenance requirements and wear and tear as well as the bearing-less structure of the external vibrators ensure trouble-free operation and an especially long service life, especially in cases of high demands and long-term operation.

These devices are also available for hire as a cost-efficient alternative.

type	rotational speed	centrifugal force	air consumption	weight	mounting dimensions			overall dimensions			
	min $^{-1}$	N	m^3/min.	kg	mm			mm			
					a	b	Ø s	c	e	f	g
VR- 56K	17,500	25,000	1.05	3.5	124	55	12.5	140	80	70	76
VR- 57K	14,000	31,500	1.37	7.5	125	73	14.5	150	110	70	110



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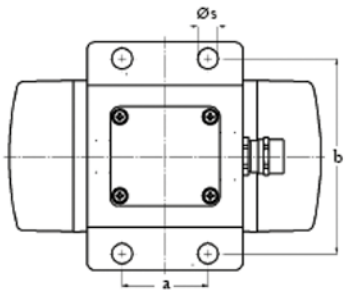
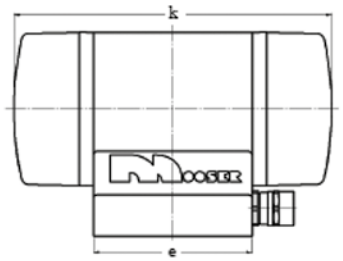
For small above-ground construction sites with low concrete thicknesses where no air compressor is available, the electric formwork vibrators offer a practical alternative.

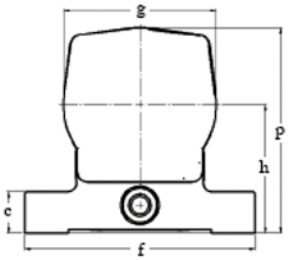
They are supplied as standard for 230 V with starting capacitor, 6 metres connection cable and plug. Electric formwork vibrators are operated either via a frequency converter[1] (frequency variable from 20 Hz to 70 Hz) or directly from alternating current at 230 V / 50 Hz.

These devices are also available for hire as a cost-efficient alternative.

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input	weight
	min $^{-1}$	N	cm kg	number of slice per side stepless	in steps	50 Hz / V	A	W	kg
VE 2/2-2 BS	3,000	1,100	2.3		5	1~ 230	1.2	170	6.0







type	bores for fastening (mm)			base dimensions (mm)			overall dimensions (mm)			
	a	b	Ø$_s$	c	e	f	h	g	p	k
VE 2/2-2 BS	55	124	13	26	100	145	80	200	96	128

Frequency Converter for Electric Formwork Vibrator 230 V[1]

type	power output	input voltage	output voltage	nominal current	sockets	weight
	kVA	50 Hz / V	20–70 Hz / V	A	pcs	kg
FR 1.1[2]	1.1	230	230	10	4	10

[2] optional: with radio control unit.

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Mounting Clamps for Formwork Vibrators

The installation of Mooser formwork vibrators in your formwork is no problem thanks to our wide range of mounting clamps. We have the right fastening solution for all the usual formwork types, frame and girder formwork and steel formwork carriages.

type	range of application	formwork company	picture
RP	Column formwork systems, steel girders till 23mm thickness		
BFD quick realease mounting clamp[1]	panel formwork	Peri: Maximo, Trio	
Domino quick realease mounting clamp	panel formwork	Peri: Domino	
mounting plate for VR56K[3], VR57K[3]	steel fromwork carriage		
cross-shaped plate[3]	wooden girder formwork IPE-girder		
STA H20	wooden girder formwork transverse profile	Peri: VT20 K Doka: H20, FF20, FF100tec Hünnbeck: H20 Meva: H20 Noe: H20 Paschal: H20	
STA GT24	wooden girder formwork transverse profile	Peri: GT 24 Hünnbeck: GF 24, ES24	
STA Mammut, Startec	formwork joint	Meva: Mammut, Startec, Alu Star	

[1] not suitable for electric formwork vibrators.
[2] only suitable for electric formwork vibrators.
[3] mounting clamp mounted permanently onto the frame or girder formwork.

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Our STA universal clamp with formwork-specific adapters offers especially flexible application options. The adapters can be exchanged simply and quickly depending on the formwork type and the application area. The clamp guarantees firm installation of the vibrators and protects the formwork girders.

These devices are also available for hire as a cost-efficient alternative.

type	range of application	formwork company	picture
STA Doka Framax STA Ulma	formwork joint	Doka: Framax XLife plus Alu Framax XLife Ulma Orma	
STA Doka Framax	transverse profile	Doka: Framax XLife plus	
STA Doka Frami	formwork joint	Doka: Frami XLife	
STA Peri Trio		Peri: Maximo, Trio	
STA Mayer Primax STA Manto	transverse profile	Meyer: Primax (AT cross section) Hünnbeck: Manto	
STA Mayer Primax		Meyer: Primax (TT cross section)	
STA Noe Top	transverse profile	Noe: Top	
AL[2]	wooden girder formwork		

[1] not suitable for electric formwork vibrators.
[2] only suitable for electric formwork vibrators.
[3] mounting clamp mounted permanently onto the frame or girder formwork.

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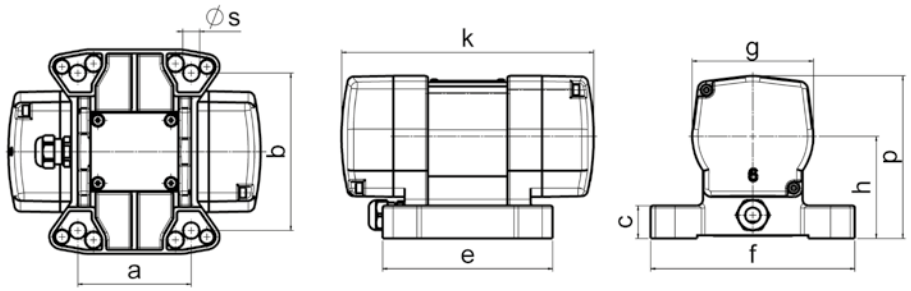
High Frequency Vibration Motor EHF 2

Vibration Motor for Concrete Precast Elements

The extremely sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings are lubricated for life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator can be run continuously under consideration of the admissible power input.

standard voltage: 42 V, 110 V, 250 V / 100 Hz, 200 Hz – other voltages are available.
protection class IP66 · insulation class F

type	synchr. speed	centrifugal force	centrifugal force settings		frequency	nominal current	power	weight
	min $^{-1}$	N	number of slices/side stepless	in steps	Hz	A	W	kg
EHF 2/2	6,000	3,520		4	100	4.98 / 0.84	350	5.2
EHF 2/4	6,000	3,520		4	200	11.00 / 1.85	550	5.2



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)			
	a	b	$Ø_s$	c	e	f	h	k	g	p
EHF 2/2	65	140	13	25	135	162	80	189	96	128
EHF 2/4	90	125	13							
	115	135	11							

[1] all mentioned fastening holes are provided in the unit.

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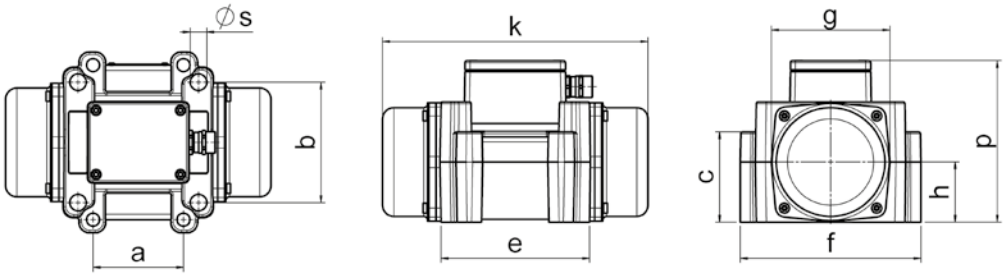
High Frequency Vibration Motor EHF 8/4

Vibration Motor for Concrete Precast Elements

The extremely sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings are lubricated for life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator can be run continuously under consideration of the admissible power input.

standard voltage: 42 V, 115 V, 250 V / 200 Hz – other voltages are available.
protection class IP66 · insulation class F

type	synchr. speed	centrifugal force	centrifugal force settings		standard voltage	nominal current	power	weight
	min –1	N	number of slices/side		200 Hz / V	A	W	kg
			stepless	in steps				
EHF 8/4	6,000	12,000		7	3~ 42 / 250	12.0 / 2.0	650	12.5



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)			
	a	b	Ø$_s$	c	e	f	h	k	g	p
EHF 8/4	90	154	13	90	150	180	61	256	118	162
	120	120	16.5							

[1] all mentioned fastening holes are provided in the unit.

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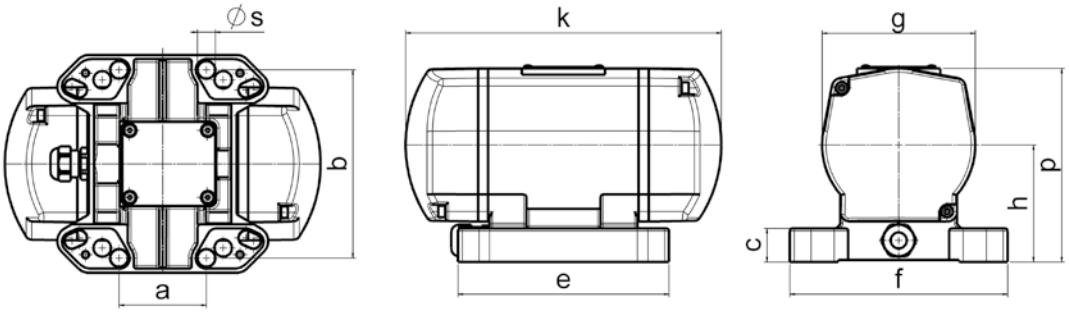
High Frequency Vibration Motor EHF 6/4

Vibration Motor for Concrete Precast Elements

The extremely sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings are lubricated for life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator can be run continuously under consideration of the admissible power input.

standard voltage: 42 V, 115 V, 250 V / 200 Hz – other voltages are available.
protection class IP65 · insulation class F

type	synchr. speed	centrifugal force	centrifugal force settings		standard voltage	nominal current	power	weight
	min –1	N	number of slices/side stepless	in steps	200 Hz / V	A	W	kg
EHF 6/4	6,000	3,050		2	3~ 42 / 250	6.5 / 1.1	475	7.4
EHF 6/4-6100	6,000	6,100		4	3~ 42 / 250	6.5 / 1.1	475	7.4



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)			
	a	b	Ø$_s$	c	e	f	h	k	g	p
EHF 6/4	65	140	13	25	157	162	86	235	114	144
	90	125	13							
	124	110	11							
	135	115	11							

[1] all mentioned fastening holes are provided in the unit.

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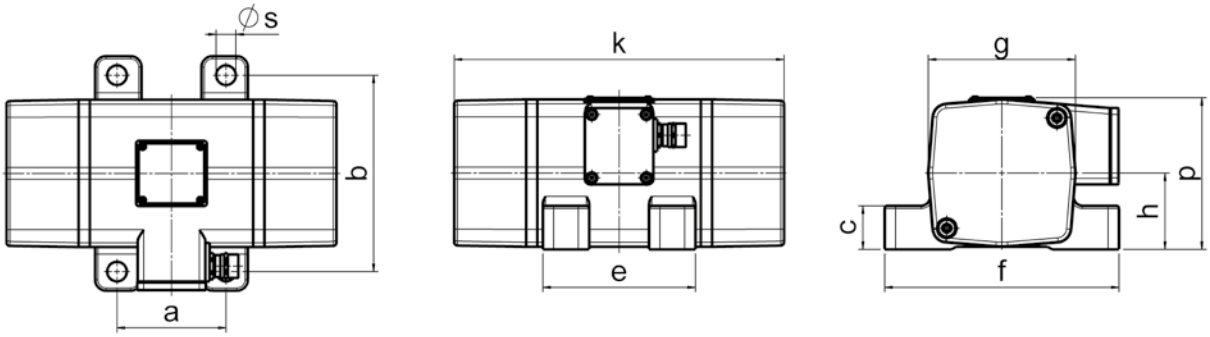
High Frequency Vibration Motor EHF 15/4

Vibration Motor for Concrete Precast Elements

The extremely sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings are lubricated for life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator can be run continuously under consideration of the admissible power input.

standard voltage: 42 V, 115 V, 250 V / 200 Hz – other voltages are available.
protection class IP65 · insulation class F

type	synchr. speed	centrifugal force	centrifugal force settings	standard voltage	nominal current	power	weight
	min –1	N	number of slices/side stepless | in steps	200 Hz / V	A	W	kg
EHF 15/4	6,000	20,000	8	3~ 42 / 250	18.25 / 3.2	1,200	17



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)			
	a	b	Ø$_s$	c	e	f	h	k	g	p
EHF 15/4	100	180	18	40	140	215	70	302	135	180

[1] all mentioned fastening holes are provided in the unit.

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Internal Vibrators

The classic in concrete compaction

- for all standard applications
- variable fields of application – also suitable for the compaction of other viscous media
- simple handling

The devices are immersed directly into the concrete. The high-frequency vibrations are transferred to the concrete to ensure optimum de-aeration and reduction of pores.

High Frequency Internal Vibrators

HJ-High Frequency Internal Vibrators are characterized by robust bearings lubricated for life, high centrifugal force, constant speed and high wear resistance. Integrated thermal protection avoids overheating of the internal vibrator.

All HJ Frequency Internal Vibrators consist of 10 meters of electric cable, 5 meters internally reinforced hose and CEE plug (42 V / 3-ph).
They are equipped with a switch housing in polyamide, protected by a reinforced gasket resistant to continuous use and wear.

insulation class: F
operating temperature: -20°C till +40°C

type		**HJ 38**	**HJ 50**	**HJ 59**	**HJ 65**
head diameter Ø	mm	38	50	60	65
head length	mm	404	468	498	484
centrifugal force	N	1,700	3,760	5,640	7,330
nominal current	A	8	15	17	23
vibrations	1/min	12,000	12,000	12,000	12,000
output voltage	V	42	42	42	42
hose length	m	5	5	5	5
electric cable length	m	10	10	10	10
total weight	kg	9	16	18	20

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High Frequency Internal Vibrators with Integrated Converter

High Frequency Internal Vibrators with integrated converter are directly connected to the single phase 230 V / 50 Hz power supply. Therefore they are easy to use and operable at once. The electronic converter is integrated within the transmission, eliminating the need for standalone converters commonly used, thereby offering greater versatility for many applications.

Its electronic components are well protected against power surges, overheating and vibration, offering greater safety and reliability.

special voltage: also available for 115 V / 50 Hz

type		**HJU 38**	**HJU 50**	**HJU 60**	**HJU 70**
head diameter Ø	mm	38	50	60	70
head length	mm	360	398	405	398
vibrations	1/min	13,500	12,000	12,000	12,000
centrifugal force	N	1,500	3,000	4,800	7,000
input voltage	V	230	230	230	230
nominal current	A	2.5	4	6	8
hose length	m	7	7	7	7
electric cable length	m	15	15	15	15
total weight	kg	20	21.5	23	24

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Pneumatic Internal Vibrators

Pneumatic Internal Vibrators of the VF series are maintenance free and nearly free from wear due to its construction with only one piece in movement. They are characterized by a high amplitude and a high centrifugal force. Pneumatic internal vibrators can be operated outside of a cooling medium.

They are supplied as standard with 2 m pneumatic hose and a shut-off valve.

type		**VF 25**	**VF 40**	**VF 50**	**VF 58**	**VF 80**
head diameter Ø	mm	25	40	50	58	80
needle length	mm	220	310	300	300	350
centrifugal force	N	750	2,250	4,000	7,000	10,000
vibrations	1/min	14,000	13,000	12,500	12,000	9,500
air consumption	m^3/min	0.06	0.13	0.18	0.38	0.63
output	m^3/h	3.8	8	11	23	38
weight	kg	2.7	5.8	7.5	10	14
air pressure	bar	6	6	6	6	6

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Concrete Pre-Compactor

The patent-registered Pre-Compactor consists of an internal vibrator integrated in the concrete hose. The system has the effect that the concrete is lightly liquefied at the end of the hose so that it is more workable. The surplus air in the concrete escapes directly when the concrete comes out of the pump hose. The concrete pre-compactor ensures a continuous flow of concrete with low mechanical load on the pump arm.

The pre-compactor is operated by means of a frequency converter[1].

frequency 1/min	**input voltage V / Hz**	**centrifugal force N**	**standard hose lengths m**	
12,000	42 / 200	1,350	3	4

[1] the frequency converter can be supplied optionally with radio control unit

BENEFITS:

· primary de-aeration of the concrete when it comes out of the concrete pump hose

· good concrete workability due to brief alteration of the concrete viscosity

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All MR Frequency and Voltage Converters consist of an electric motor coupled to a permanent magnet generator that reduces the single-phase (1-ph / 230 V) or three-phase (3-ph / 400 V) input voltage into 42 V while increasing the frequency to 200 Hz. MR frequency converters consist of a smooth, robust aluminium casing and depending on the model they have a handle or a grip frame with coupling or wheels.

Converters of the MR series are suitable for continuous duty.

protection class: IP44
operating temperature: -20°C till +40°C
insulation class F

type	input voltage V	output voltage V	output power kVA	output current A	outlets	supply electric cable m	weight kg
MR 1T[1]	230 V / 50 Hz	42 V / 200 Hz	1.0	14	2	3.5	25
MR 2T[2]	230 V / 50 Hz	42 V / 200 Hz	1.8	25	2	3.5	34
MRS 2T[2]	400 V / 50 Hz	42 V / 200 Hz	1.8	25	2	3.5	33
MRS 3T[3]	400 V / 50 Hz	42 V / 200 Hz	2.6	36	3	5.0	41
MRS 5T[3]	400 V / 50 Hz	42 V / 200 Hz	4.0	55	3	5	50
MRS 8T[3]	400 V / 50 Hz	42 V / 200 Hz	6.2	85	4	5	56

[1] with handle I [2] grip frame I [3] grip frame with wheels

BENEFITS:
· maintenance free
· optimum cooling
· no overheating
· easy cleaning

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Electronic Frequency Converters for Internal Vibrators

The Electronic Frequency Converters FR are very light frequency converters that ensure maximum operation safety and user convenience. They are designed for continuous operation and equipped with overload protection and phase monitoring. This means that the connected internal vibrators have the best possible protection.

They are equipped with a powder-coated sheet steel housing with portable protective frame and vibration dampers. The connecting cable (HO7RN-F) has a length of 250 cm.

protection class: IP44
operating temperature: 0°C till +40°C

type	input voltage V	output voltage V	output power kVA	output current A	sockets	weight kg
FR 1,8	230 V / 50 Hz	42 V / 200 Hz	1.8	25	2	16
FR 2,5	230 V / 50 Hz	42 V / 200 Hz	2.5	35	2	18
FRS 2,5	400 V / 50 Hz	42 V / 200 Hz	2.5	35	2	18
FRS 3,6	400 V / 50 Hz	42 V / 200 Hz	3.6	50	3	26
FRS 5,3	400 V / 50 Hz	42 V / 200 Hz	5.3	75	4	31

BENEFITS:

· low weight
· low noise level
· high operator protection by galvanic isolation
· shutdown on overload and immediate restart
· phase monitoring – protection of the HJ internal vibrators
· automatic power regulation

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Aerated Concrete Compaction Unit

Our patented system for the creation of high-grade precast parts of aerated concrete:

- ensures homogenous distribution of pores
- prevents larger pores in aerated concrete
- individually adapted to the dimensions of the moulds

The coordination of the internal vibrator frequency to the immersion depth or the filling level of the concrete moulds represents an important criterion for optimum aerated concrete compaction. Our system takes into consideration the time sequence of the production process, and regulates the vibrator frequencies accordingly.

Aerated Concrete Compaction Unit

The Aerated Concrete Compaction Unit supports the manufacture of high-quality pre-cast aerated concrete parts. The frequency of the aerated concrete internal vibrators is regulated steplessly during the compaction process between 20 and 200 Hz according to a special concept. This prevents the development of large pores in the aerated concrete.

The aerated concrete compaction (AAC) unit includes:

- AAC internal vibrators HJ50-P
- mounting plate with frequency converter (output voltage 42 V, 200 Hz)[1]

[1] The aerated concrete unit can be supplied optionally in a switch cabinet.

permissible working temperature: -10°C / +40°C

input voltage V	3~ 380/400 V; 50 Hz
output voltage V	3~ 42 V; 200 Hz
frequency range Hz	0–200 Hz
impact diameter of the internal vibrator Ø	~55 mm
needle length	380 mm
weight of the internal vibrator	8 kg

The scope of the units depends on the dimensions of the aerated concrete moulds:
The following data apply to the standard sizes[2]:

amount of internal vibrators	**dimensions of the mounting plate** mm	**weight** kg	**output current of the transformer** A
4	550 x 550 x 320 mm	85	60 A
8	950 x 550 x 320 mm	140	140 A
12	950 x 550 x 320 mm	185	180 A

[2] other sizes and designs can be made on request.

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Cleaning Device for Concrete Work Pipe Socket

Intelligent accessories for the formwork avoid damage to the surface of the concrete when removing the formwork:

- simple handling
- optimizes the removal of formwork

Length and diameter correspond to the usual concrete pipe sizes.
This saves time and costs for cumbersome reworking.

Cleaning Device for Concrete Work Pipe Sockets

Accessory for the concrete pouring via pipe socket

Using the SK cleaning device avoids reworking of the concrete pipe socket after the formwork stripping. When taking off the concrete delivery hose, concrete accumulates in front of the formwork skin, just behind the pipe socket and has to be removed after hardening.

To prevent this, the cleaning device for the pipe socket is coupled to the concrete shut-off valve of the formwork after removing the concrete delivery hose. Then the valve is opened and the concrete is pressed behind the formwork.

type	inner diameter of the cleaning device for concrete work pipe sockets	length	thread
	mm	mm	
SK 100	100	800	acme thread[1]
SK 125	125	800	acme thread[1]

[1] can be supplied with metric tread as an option.

BENEFITS:

· simple and fast application
· saving of expenses
· saving of time

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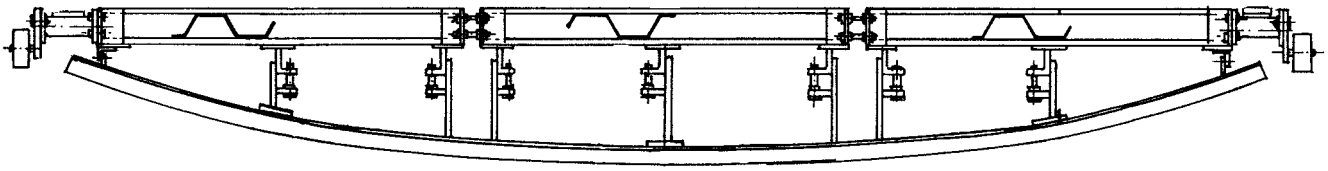
Vibrating Screeds

Protected, vibration-damped construction for optimum surface compaction:

- individually planned, designed and produced according to the customer geometry
- adjustable axis and height
- equipped with our robust and durable electric vibrators

The integrated special vibration-damping protects the adjacent structures, e.g. formwork carriages, from the vibrations, so that they are only transferred to the concrete. This avoids cracks in the concrete at the wall-base transition.

Profile vibrating screeds for tunnel construction and special geometries



Our vibration-cushioned profile vibrating screeds save expensive and time consuming repair work, e.g. for possible concrete cracks at the wall-base transition. In the constructions used up to now, the energy of the vibrators was transferred to the wheels or the rails of the formwork carriage.

Our solution consists in a vibrating screed whose vibrations are selectively dampened at the desired points. The wheels, for example, are largely protected from the energy of the vibrators and the vibrations are barely transferred to the adjacent building parts.

The vibrating screeds are designed and manufactured especially to suit the customer's requirements taking into account the specified geometries. They can be adjusted in the axis and in the height – the widest possible range of radii is possible.

They are moved as standard with hand winches – electric drive is available on request.

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Vibration Motors

“Made in Germany“ for demanding vibration tasks under extreme working conditions:

- as an evacuation aid for silos
- vibrating feeders
- under vibrating tables
- on sieve systems
- for the compaction of bulk materials or foundry sand

Our products are used in:

- conveyor technology
- process engineering
- the packaging industry
- the foundry industry

Powerful and robust unbalanced motors transform the sinusoidal vibration via a fixed connection directly to the desired building parts.

DC Vibration Motors: synchronous speed: 3,000 min^{-1}

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input	weight
	min $^{-1}$	N	cm kg	number of slices/side stepless	in steps	50 Hz / V	A	W	kg
VE 2 GL-12	3,000	1,100	2.33		5	12 DC	5,5	72	4.8
VE 2 GL-24	3,000	1,100	2.33		5	24 DC	4	96	4.8
VE 2 GL-24 reinforced	3,000	1,980	4.16		9	24 DC	4	96	5.4

AC Vibration Motors: synchronous speed: 3,000 min^{-1}

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input	weight
	min $^{-1}$	N	cm kg	number of slices/side stepless	in steps	50 Hz / V	A	W	kg
VE 0.1/2	3,000	40	0.08			3~ 230 / 400	0.11	25	0.97
VE 0.4/2	3,000	200	0.4		4	3~ 230 / 400	0.17 / 0.1	50	1.9
VE 0.8/2	3,000	400	0.8		4	3~ 230 / 400	0.1	50	2.2
VE 0.4/2-1	3,000	450	0.9		9	3~ 230 / 400	0.17 / 0.1	50	2.3
VE 1/2	3,000	500	1		5	3~ 230 / 400	0.30 / 0.17	95	3.6
VE 2/2	3,000	880	1.85		4	3~ 230 / 400	0.49 / 0.29	160	5.2
VE 2/2-2	3,000	1,320	2.8		6	3~ 230 / 400	0.49 / 0.29	160	5.5
VE 2/2-4	3,000	1,760	3.7		8	3~ 230 / 400	0.49 / 0.29	160	6.0
VE 2/2-6	3,000	2,860	6		13	3~ 230 / 400	0.49 / 0.29	160	6.7
VE 6/2	3,000	3,050	6.1		8	3~ 230 / 400	0.99 / 0.57	300	7.5
VE 6/2-8	3,000	4,200	8.4		11	3~ 230 / 400	1.2 / 0.7	350	8.7
VE 8/2	3,000	4,200	8.4		11	3~ 230 / 400	1.65 / 0.95	540	12
VE 8/2-11	3,000	5,350	10.7		14	3~ 230 / 400	1.65 / 0.95	540	11.5
VE 12/2	3,000	6,000	12		8	3~ 230 / 400	2.16 / 1.25	650	15
VE 15/2	3,000	7,500	15		10	3~ 230 / 400	2.16 / 1.25	650	16.3
VE 15/2-20	3,000	10,500	21		14	3~ 230 / 400	2.7 / 1.55	900	18
VE 15/2-25	3,000	12,600	25		10	3~ 230 / 400	2.7 / 1.55	900	19
VE 30/2	3,000	16,500	32		14	3~ 230 / 400	2.9 / 1.7	1,000	22.5
VE 55/2	3,000	25,000	50		12	3~ 230 / 400	6.6 / 3.8	2,100	43
VE 65/2	3,000	32,000	65	2		3~ 230 / 400	6.6 / 3.8	2,100	58
VE 85/2	3,000	43,000	86	2		3~ 230 / 400	12.0 / 6.9	4,200	75
VE 85/2-120	3,000	61,000	123	2		3~ 230 / 400	12.0 / 6.9	4,200	80
VE 130/2	3,000	63,000	130	2		3~ 230 / 400	13.5 / 7.7	4,900	170

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AC Vibration Motors: synchronous speed: 1,500 min-1

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input	weight
	min –1	N	cm kg	number of slices/side		50 Hz / V	A	W	kg
				stepless	in steps				
VE 1/4	1,500	125	1		5	3~ 230 / 400	0.26 / 0.15	60	3.6
VE 1/4-3	1,500	425	3.4		17	3~ 230 / 400	0.26 / 0.15	60	4.0
VE 2/4	1,500	220	1.85		4	3~ 230 / 400	0.57 / 0.33	140	5.2
VE 2/4-2	1,500	330	2.8		6	3~ 230 / 400	0.57 / 0.33	140	5.5
VE 2/4-4	1,500	440	3.7		8	3~ 230 / 400	0.57 / 0.33	140	6.0
VE 2/4-6	1,500	715	6		13	3~ 230 / 400	0.57 / 0.33	140	6.7
VE 2/4-9	1,500	1,100	9		20	3~ 230 / 400	0.57 / 0.33	140	7.7
VE 6/4-11	1,500	1,430	11.5		15	3~ 230 / 400	0.75 / 0.43	190	9.0
VE 6/4-18	1,500	2,200	17.8		23	3~ 230 / 400	0.75 / 0.43	190	11.0
VE 12/4-18	1,500	2,200	18		12	3~ 230 / 400	1.43 / 0.83	450	15.5
VE 12/4-30	1,500	3,750	30		20	3~ 230 / 400	1.43 / 0.83	450	18.8
VE 12/4-42	1,500	5,250	42		15	3~ 230 / 400	1.43 / 0.83	450	21
VE 12/4-60	1,500	7,750	60	2		3~ 230 / 400	1.43 / 0.83	450	29
VE 30/4-75	1,500	9,800	78	2		3~ 230 / 400	2.5 / 1.43	800	31
VE 55/4-120	1,500	14,500	115	2		3~ 230 / 400	4.7 / 2.7	1,400	54
VE 55/4-150	1,500	17,800	144	2		3~ 230 / 400	4.7 / 2.7	1,400	69
VE 65/4-200	1,500	25,000	200	2		3~ 230 / 400	4.7 / 2.7	1,400	67.5
VE 85/4-400	1,500	50,000	397	2		3~ 230 / 400	6.4 / 3.7	2,000	100
VE 130/4-500	1,500	65,000	525	2		3~ 230 / 400	12.35 / 7.0	4,000	207
VE 180/4-700	1,500	86,500	700	2		3~ 230 / 400	12.30 / 7.1	4,200	255

AC Vibration Motors: synchronous speed: 1,000 min-1

VE 6/6	1,000	340	6.1		8	3~ 230 / 400	0.78 / 0.45	150	8
VE 6/6-18	1,000	980	17.8		23	3~ 230 / 400	0.78 / 0.45	150	11.5
VE 12/6-42	1,000	2,230	42		15	3~ 230 / 400	1.12 / 0.65	300	21
VE 12/6-60	1,000	3,440	60	2		3~ 230 / 400	1.12 / 0.65	300	29
VE 30/6-75	1,000	4,300	78	2		3~ 230 / 400	2.1 / 1.2	550	31
VE 55/6-120	1,000	6,400	115	2		3~ 230 / 400	3.4 / 2.0	850	54
VE 55/6-150	1,000	7,920	144	2		3~ 230 / 400	3.4 / 2.0	850	69
VE 65/6-200	1,000	11,000	200	2		3~ 230 / 400	3.4 / 2.0	850	67.5
VE 65/6-300	1,000	16,500	300	2		3~ 230 / 400	3.4 / 2.0	850	80
VE 85/6-400	1,000	22,000	397	2		3~ 230 / 400	5.5 / 3.2	1,500	100
VE 85/6-600	1,000	32,280	587	2		3~ 230 / 400	5.5 / 3.2	1,500	130
VE 130/6-800	1,000	42,760	800	2		3~ 230 / 400	10.0 / 5.77	3,000	221
VE 130/6-1000	1,000	56,650	1,030	2		3~ 230 / 400	10.0 / 5.77	3,000	247
VE 130/6-1250	1,000	69,000	1,250	2		3~ 230 / 400	10.0 / 5.77	3,000	260
VE 180/6-1400	1,000	79,000	1,400	2		3~ 230 / 400	12.35 / 7.13	4,000	308
VE 180/6-1600	1,000	88,000	1,600	2		3~ 230 / 400	12.35 / 7.13	4,000	325

AC Vibration Motors: synchronous speed: 750 min-1

VE 6/8	750	190	6.1		8	3~ 230 / 400	0.54 / 0.31	120	8.0
VE 6/8-18	750	550	17.8		23	3~ 230 / 400	0.54 / 0.31	120	11.5
VE 12/8-42	750	1,310	42		15	3~ 230 / 400	1.0 / 0.6	250	21
VE 12/8-60	750	1,940	60	2		3~ 230 / 400	1.0 / 0.6	250	29
VE 30/8-75	750	2,450	78	2		3~ 230 / 400	1.65 / 0.95	370	31
VE 55/8-120	750	3,620	115	2		3~ 230 / 400	2.1 / 1.2	500	54
VE 55/8-150	750	4,400	144	2		3~ 230 / 400	2.1 / 1.2	500	69
VE 65/8-200	750	6,250	200	2		3~ 230 / 400	2.1 / 1.2	500	67.5
VE 65/8-300	750	9,300	300	2		3~ 230 / 400	2.1 / 1.2	500	80
VE 85/8-400	750	12,500	397	2		3~ 230 / 400	3.8 / 2.2	950	100
VE 130/8-800	750	24,060	800	2		3~ 230 / 400	9.86 / 5.67	2,000	221
VE 130/8-1000	750	31,870	1,030	2		3~ 230 / 400	9.86 / 5.67	2,000	247
VE 180/8-1400	750	44,000	1,400	2		3~ 230 / 400	14.60 / 8.43	4,000	308
VE 180/8-1600	750	49,000	1,600	2		3~ 230 / 400	14.60 / 8.43	4,000	325

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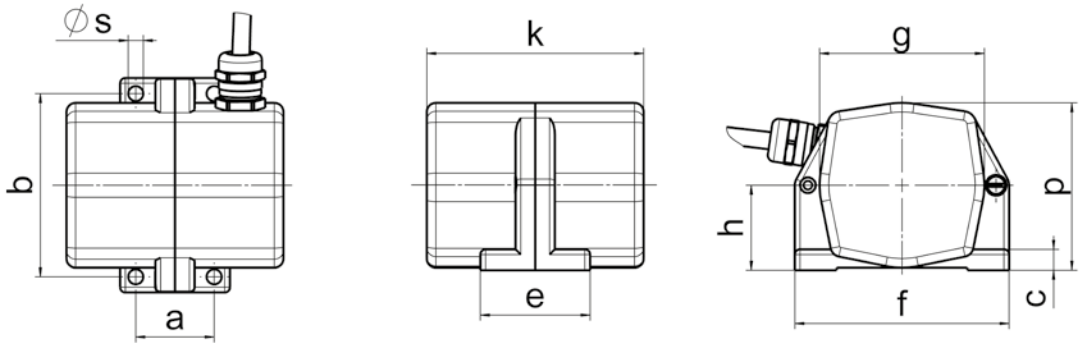
Vibration Motor in Standard Version

A very small compact unit, requiring minimum space. The centrifugal force cannot be adjusted. The vibrator is designed to run continuously under consideration of the permissible power consumption. The sturdy case is manufactured from aluminium chill casting. It is not lacquered.

including 1 m connection cable 3x0,75mm², Ø 7mm, Ölflex®– 540P

standard voltage: 230/240 V / 50 Hz or 200/254 V / 60 Hz
protection class IP65 – insulation class E

type	synchr. speed	centrifugal force	working moment	centrifugal force settings	standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side	50–60 Hz / V	A	W
VE 0.1/2	3,000	40	0.08	cannot be changed	1~ 230	0.11	25



type	bores for fastening (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	Ø$_s$	c	e	f	h	g	p	k	
VE 0.1/2	30	70	6	8	42	82	32.5	63	64	83	0.97

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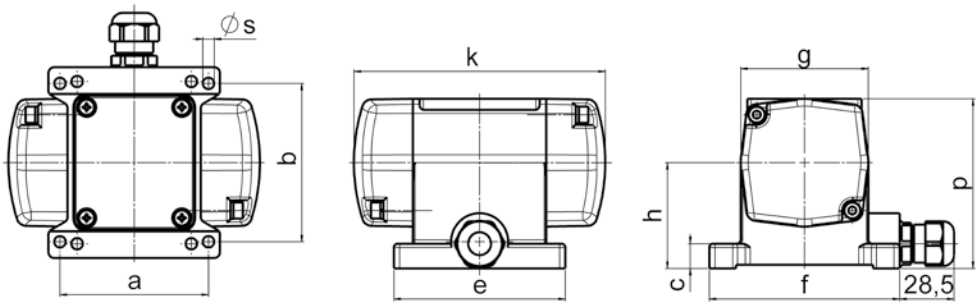
Vibration Motor in Standard Version

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings are lubricated for life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator is designed to run continuously under consideration of the permissible power consumption.

standard voltage: 400 V / 50 Hz or 230 V / 50 Hz – other voltages are available
protection class IP65 – insulation class E

The motor has no commutable poles. For operation with 230 V / A.C. – power supply source an operating capacitor of 2µF can be delivered.

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side		50 Hz / V	A	W
				stepless	in steps			
VE 0.4/2	3,000	200	0.4		4	3~ 400	0.10	50
VE 0.4/2	3,000	200	0.4		4	3~ 230	0.17	50
VE 0.4/2-1	3,000	450	0.9		9	3~ 400	0.10	50
VE 0.4/2-1	3,000	450	0.9		9	3~ 230	0.17	50



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	Ø$_s$	c	e	f	h	g	p	k	
VE 0.4/2	60	85	6	12	90	100	54.5	67	88	132	1.9
	78	83	6								
VE 0.4/2-1	60	85	6	12	90	100	54.5	67	88	156	2.3
	78	83	6								

[1] All mentioned fastening holes are provided in the unit.

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AC Vibration Motor VE 0,8/2

AC Vibration Motor for Restricted Space

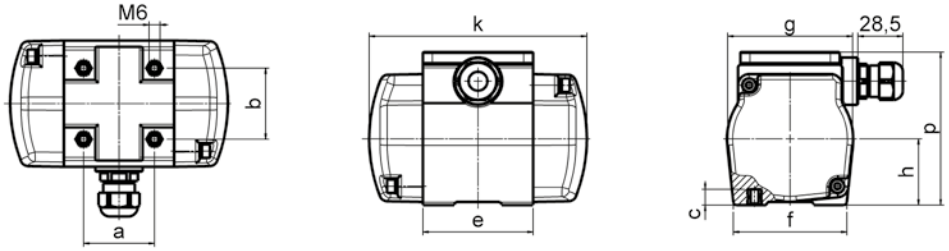
These units had been designed for applications where only little space is available, e.g. for the installation of a total of two units in conveyer channels. The mounting is carried out from the machine foot using the threaded bore holes.

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings are lubricated for life. The centrifugal force can be adjusted stepwise. The vibrator is designed to run continuously under consideration of the admissible power consumption.

standard voltage: 400 V / 50 Hz – other voltages are available.
protection class IP65 – insulation class F

The motor has no commutable poles. For operation with 230 V / A.C. – power supply source an operating capacitor of 2µF can be delivered.

type	synchr. speed	centrifugal force	working moment	centrifugal force settings	standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side stepless | in steps	50 Hz / V	A	W
VE 0.8/2 o.F.[2]	3,000	400	0.8	4	3~ 400	0.1	50



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	$Ø_s$	c	e	f	h	g	p	k	
VE 0.8/2 o.F.[2]	45	45	M6	10	70	72	42	80	97	138	2.2

[1]All mentioned fastening holes are provided in the unit.

[2]o.F.: without base.

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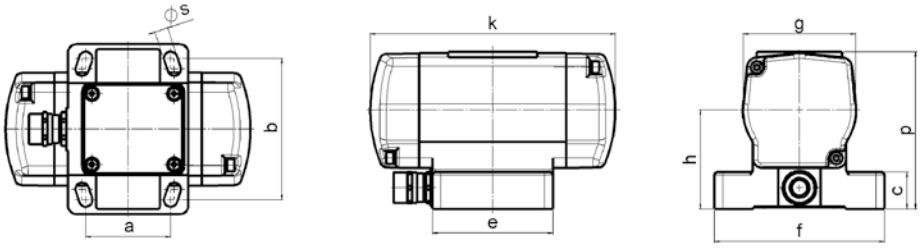
Vibration Motor in Standard Version

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings are lubricated for life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator is designed to run continuously, under consideration of the admissible power consumption.

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class E

For operation with 230 V / A.C. – power supply source an operating capacitor of 4µF can be delivered.

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side stepless	in steps	50 Hz / V	A	W
VE 1/2	3,000	500	1		5	3~ 230 / 400	0.30 / 0.17	95
VE 1/4	1,500	125	1		5	3~ 230 / 400	0.26 / 0.15	60
VE 1/4-3	1,500	425	3.4		17	3~ 230 / 400	0.26 / 0.15	60



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	Ø$_s$	c	e	f	h	g	p	k	
VE 1/2	60	100	9.5	25	85	120	70	80	110	170	3.6
VE 1/4	65	85	9.5	25	85	125	70	80	110	170	3.6
VE 1/4-3	65	85	9.5	25	85	125	70	80	110	237	4.0

[1]All mentioned fastening holes are provided in the unit.

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Vibration Motor in Standard Version

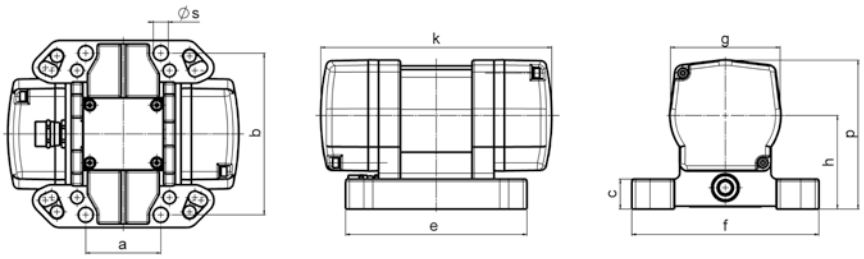
hole pattern: 65x140

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings are lubricated for life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator can be run continuously under consideration of the admissible power consumption.

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings	standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side: stepless | in steps	50 Hz / V	A	W
VE 2/2*	3,000	880	1.85	4	3~ 230 / 400	0.49 / 0,29	160
VE 2/2-2*	3,000	1,320	2.8	6	3~ 230 / 400	0.49 / 0,29	160
VE 2/2-4*	3,000	1,760	3.7	8	3~ 230 / 400	0.49 / 0,29	160
VE 2/2-6*	3,000	2,860	6	13	3~ 230 / 400	0.49 / 0,29	160
VE 2/4	1,500	220	1.85	4	3~ 230 / 400	0.57 / 0,33	140
VE 2/4-2	1,500	330	2.8	6	3~ 230 / 400	0.57 / 0,33	140
VE 2/4-4	1,500	440	3.7	8	3~ 230 / 400	0.57 / 0,33	140
VE 2/4-6	1,500	715	6	13	3~ 230 / 400	0.57 / 0,33	140
VE 2/4-9	1,500	1,100	9	20	3~ 230 / 400	0.57 / 0,33	140

* These bipolar units are also available as extra executions of 230 V vs., 50 Hz A.C. – for this application an operation capacitor of 7µF can be delivered.



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	$Ø_s$	c	e	f	h	g	p	k	
VE 2/2	65	140	13	25	157	162	80	96	128	189	5.2
VE 2/-4	115	135	11	25	157	162	80	96	128	215	6.0
VE 2/-6	135	115	11	25	157	162	80	96	128	250	6.7
VE 2/4-9	124	110	11	25	157	162	80	96	128	283	7.7

[1] All mentioned fastening holes are provided in the unit.

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Vibration Motor in Standard Version

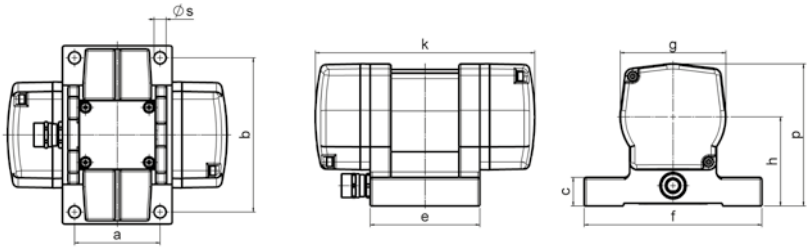
vario hole pattern B2: 78x140

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6302 ZZ C4 are lubricated for life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator is designed to run continuously under consideration of the admissible power consumption.

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side stepless	in steps	50 Hz / V	A	W
VE 2/2-4 B2*	3,000	1,760	3.7		8	3~ 230 / 400	0.49 / 0.29	160
VE 2/2-6 B2*	3,000	2,860	6		13	3~ 230 / 400	0.49 / 0.29	160
VE 2/4-9 B2*	1,500	1,100	9		20	3~ 230 / 400	0.57 / 0.33	140

* These bipolar units are also available as extra executions of 230 V vs., 50 Hz A.C. - for this application an operation capacitor of 7µF can be delivered.



type	bores for fastening (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	Ø$_s$	c	e	f	h	g	p	k	
VE 2/2-4 B2	78	140	11	25	100	162	80	96	128	215	5.9
VE 2/2-6 B2	78	140	11	25	100	162	80	96	128	250	6.6
VE 2/4-9 B2	78	140	11	25	100	162	80	96	128	283	7.6

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Vibration Motor in Standard Version

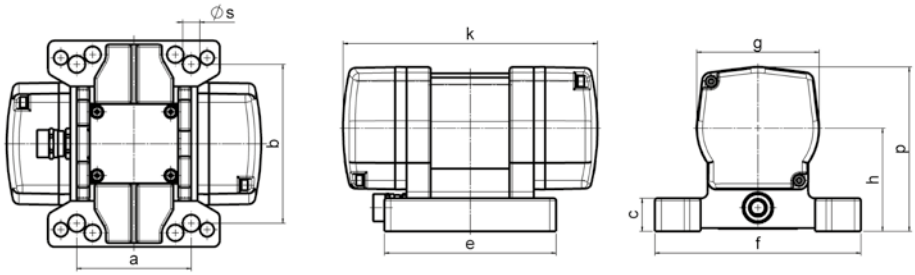
hole pattern BC: 90x125

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings are lubricated for life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator can be run continuously under consideration of the admissible power consumption.

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side stepless	in steps	50 Hz / V	A	W
VE 2/2-2 BC*	3,000	1,320	2.8		6	3~ 230 / 400	0.49 / 0.29	160
VE 2/2-4 BC*	3,000	1,760	3.7		8	3~ 230 / 400	0.49 / 0.29	160
VE 2/2-6 BC*	3,000	2,860	6		13	3~ 230 / 400	0.49 / 0.29	160

* These bipolar units are also available as extra executions of 230 V vs., 50 Hz A.C. – for this application an operation capacitor of 7µF can be delivered.



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	$Ø_s$	c	e	f	h	g	p	k	
VE 2/2-2 BC	65	140	13	25	135	162	80	96	128	215	6.0
VE 2/2-4 BC	90	125	13	25	135	162	80	96	128	215	6.0
VE 2/2-6 BC	115	135	11	25	135	162	80	96	128	250	6.7

[1] all mentioned fastening holes are provided in the unit.

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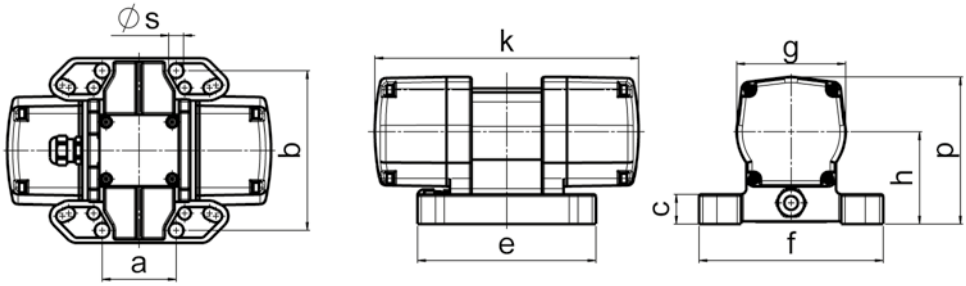
DC Vibration Motor

The sturdy housing is manufactured from aluminium chill casting. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator can be run continuously under consideration of the admissible power consumption.

standard voltage: 12/24 V DC
protection class IP66 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side stepless	in steps	50 Hz / V	A	W
VE 2 GL-12	3,000	1,100	2.33		5	12 DC	5,5	72
VE 2 GL-24	3,000	1,100	2.33		5	24 DC	4	96
VE 2 GL-24 reinforced	3,000	1,980	4.16		9	24 DC	4	96



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	$Ø_s$	c	e	f	h	g	p	k	
	65	140	13								
VE 2 GL	80	110	11							225	4.8
	115	135	11	25	157	162	80	96	128		
VE 2 GL	135	115	11							251	5.4
reinforced	124	110	11								

[1] all mentioned fastening holes are provided in the unit.

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AC Vibration Motor VE 6 D

Vibration Motor in Standard Version

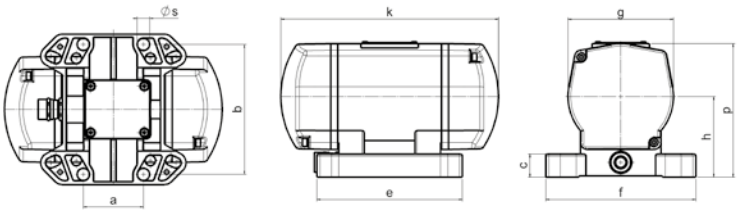
hole pattern D: 65x140

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings are lubricated for life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator can be run continuously under consideration of the admissible power input.

[1]exception: type VE 6/2–8 with 40% connection time

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings	standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side stepless | in steps	50 Hz / V	A	W
VE 6/2	3,000	3,050	6.1	8	3~ 230 / 400	0.99 / 0.6	300
VE 6/2-8[1]	3,000	4,200	8.4	11	3~ 230 / 400	1.2 / 0.7	350
VE 6/4-11	1,500	1,430	11.5	15	3~ 230 / 400	0.75 / 0.43	190
VE 6/4-18	1,500	2,200	17.8	23	3~ 230 / 400	0.75 / 0.43	190
VE 6/6	1,000	340	6.1	8	3~ 230 / 400	0.78 / 0.45	150
VE 6/6-18	1,000	980	17.8	23	3~ 230 / 400	0.78 / 0.45	150
VE 6/8	750	190	6.1	8	3~ 230 / 400	0.54 / 0.31	120
VE 6/8-18	750	550	17.8	23	3~ 230 / 400	0.54/ 0.31	120



type	bores for fastening[2] (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	$Ø_s$	c	e	f	h	g	p	k	
VE 6/2	65	140	13	25	157	162	86	114	144	230	7.5
VE 6/2-8	80	110	11	25	157	162	86	114	144	270	8.7
VE 6/4-11	115	135	11	25	157	162	86	114	144	270	9.0
VE 6/4-18	135	115	11	25	157	162	86	114	144	320	11.0
VE 6/	124	110	11	25	157	162	86	114	144	230	8.0
VE 6/-18	124	110	11	25	157	162	86	114	144	320	11.5

[2] all mentioned fastening holes are provided in the unit.

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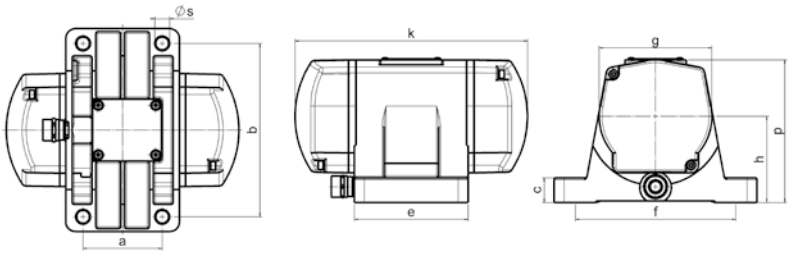
Vibration Motor in Standard Version

hole pattern H: 80x175

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6303 2Z C4 are lubricated for life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator can be run continuously under consideration of the admissible power input.

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings	standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side stepless | in steps	50 Hz / V	A	W
VE 6/2 H	3,000	3,050	6.1	8	3~ 230 / 400	0.99 / 0.57	300
VE 6/4-18 H	1,500	2,200	17.8	23	3~ 230 / 400	0.75 / 0.43	190



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	$Ø_s$	c	e	f	h	g	p	k	
VE 6/2 H	80	175	13	25	115	205	86	114	144	230	7.5
VE 6/4-18 H	80	175	13	25	115	205	86	114	144	320	11.0

[1] all mentioned fastening holes are provided in the unit.

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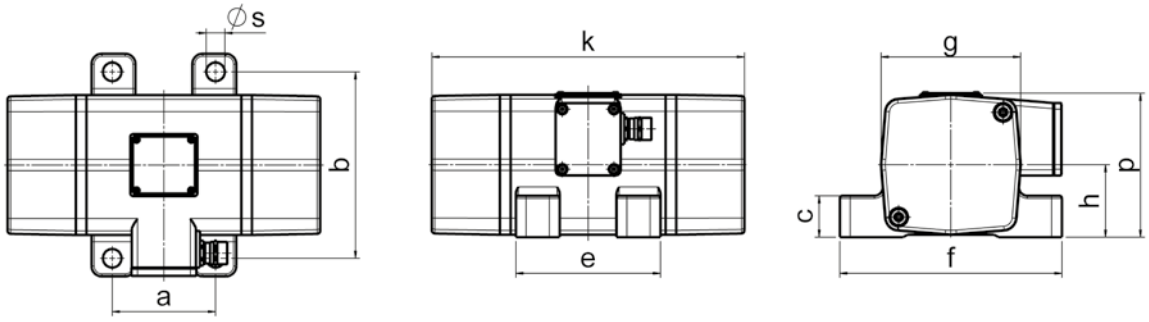
Vibration Motor in Standard Version

The extremely sturdy housing is manufactured from high-strength tempered aluminium chill casting. The bearings lubricated with special grease UNIREX N3 ensure a reliable long operative life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator can be run continuously under consideration of the admissible power input.

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings	standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side stepless | in steps	50 Hz / V	A	W
VE 8/2	3,000	4,200	8.4	11	3~ 230 / 400	1.65 / 0.95	540
VE 8/2-11*	3,000	5,350	10.7	14	3~ 230 / 400	1.65 / 0.95	540

* This vibrator has a special design and should be used only with storage bins for facilitating the material flow. The mounted bearing is lubricated for life.



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	Ø$_s$	c	e	f	h	g	p	k	
VE 8/2	100	180	18	35	130	210	65	165	124	288	12.0
VE 8/2-11	100	180	18	35	130	210	65	165	124	275	11.5

[1] all mentioned fastening holes are provided in the unit.

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Vibration Motor in Standard Version

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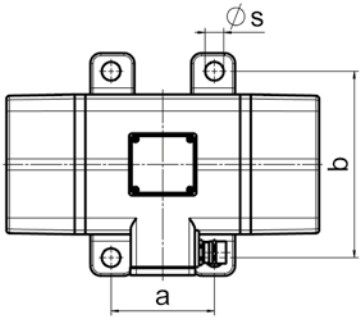
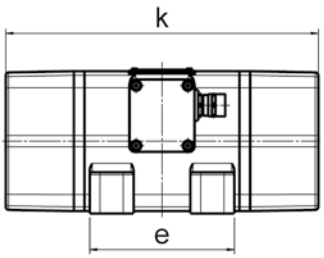
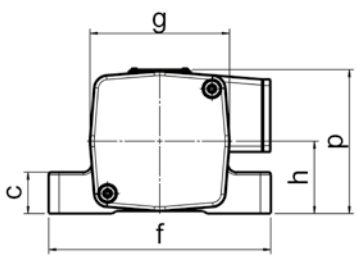
standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input
	min $^{-1}$	N	cm kg	number of slices per side stepless	in steps	50 Hz / V	A	W
VE 12/2	3,000	6,000	12		8	3~ 230 / 400	2.16 / 1.25	650
VE 12/4-18	1,500	2,200	18		12	3~ 230 / 400	1.43 / 0.83	450
VE 12/4-30	1,500	3,750	30		20	3~ 230 / 400	1.43 / 0.83	450
VE 12/4-42	1,500	5,250	42		15	3~ 230 / 400	1.43 / 0.83	450
VE 12/4-60	1,500	7,750	60	2		3~ 230 / 400	1.43 / 0.83	450
VE 12/6-42	1,000	2,230	42		15	3~ 230 / 400	1.12 / 0.65	300
VE 12/6-60	1,000	3,440	60	2		3~ 230 / 400	1.12 / 0.65	300
VE 12/8-42	750	1,310	42		15	3~ 230 / 400	1.0 / 0.6	250
VE 12/8-60	750	1,940	60	2		3~ 230 / 400	1.0 / 0.6	250







type	bores for fastening (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	$Ø_s$	c	e	f	h	g	p	k	
VE 12/2	100	180	18	40	140	215	70	175	138	303	15
VE 12/4-18	100	180	18	40	140	215	70	175	138	303	15.5
VE 12/4-30	100	180	18	40	140	215	70	175	138	350	18.8
VE 12/-42	100	180	18	50	140	215	80	186	159	330	21
VE 12/-60	100	180	18	50	140	215	80	186	159	387	29

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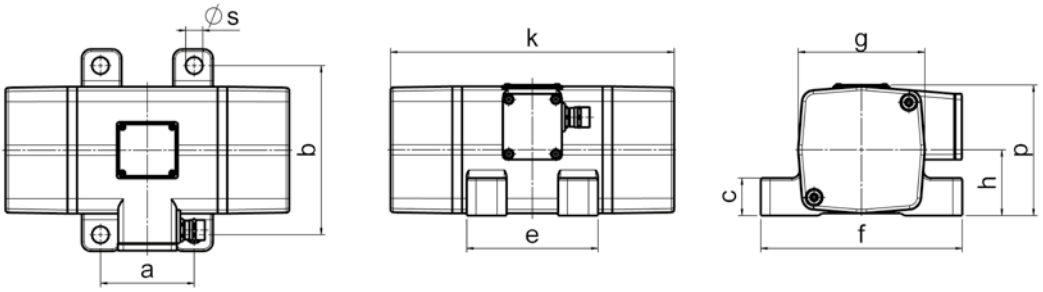
Vibration Motor in Standard Version

The extremely sturdy housing is manufactured from high-strength aluminium chill casting. The bearings lubricated with special grease ensure a long operative life. The centrifugal force can be adjusted stepwise by reducing the centrifugal weights. The vibrator can be run continuously under consideration of the admissible power input.

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input
	min $^{-1}$	N	cm kg	number of slices per side stepless	in steps	50 Hz / V	A	W
VE 15/2	3,000	7,500	15		10	3~ 230 / 400	2.16 / 1.25	650
VE 15/2-20	3,000	10,500	21		14	3~ 230 / 400	2.7 / 1.55	900
VE 15/2-25	3,000	12,600	25		10	3~ 230 / 400	2.7 / 1.55	900



type	bores for fastening (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	Ø$_s$	c	e	f	h	g	p	k	
VE 15/2	100	180	18	40	140	215	70	175	138	303	16.3
VE 15/2-20	100	180	18	40	140	215	70	175	138	350	18
VE 15/2-25	100	180	18	50	140	215	80	186	159	330	19

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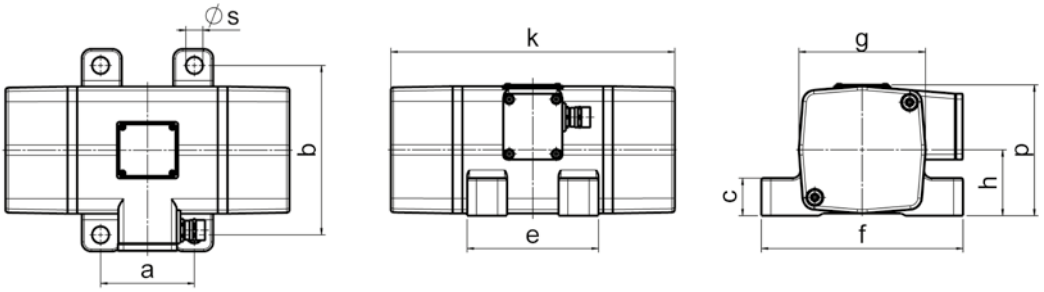
Vibration Motor in Standard Version

The extremely sturdy housing is manufactured from high-strength tempered aluminium chill casting. The bearings lubricated with special grease ensure a reliable long operative life. The centrifugal force of the 2-pole vibrator can be adjusted stepwise by reducing the centrifugal weights. The other vibrator types are infinitely variable. Under consideration of the admissible power input the vibrator can be run continuously.

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings	standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side: stepless | in steps	50 Hz / V	A	W
VE 30/2	3,000	16,500	32	14	3~ 230 / 400	2.9 / 1.7	1,000
VE 30/4-75	1,500	9,800	78	2	3~ 230 / 400	2.5 / 1.43	800
VE 30/6-75[1]	1,000	4,300	78	2	3~ 230 / 400	2.1 / 1.2	550
VE 30/8-75[1]	750	2,450	78	2	3~ 230 / 400	1.65 / 0.95	370



type	bores for fastening[1] (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	$Ø_s$	c	e	f	h	g	p	k	
VE 30/2	100	200	18	50	140	235	82	195	161	330	22.5
VE 30/-75	100	200	18	50	140	235	82	195	161	430	31

[1] integrated bearings are lubricated for life

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Vibration Motor in Standard Version

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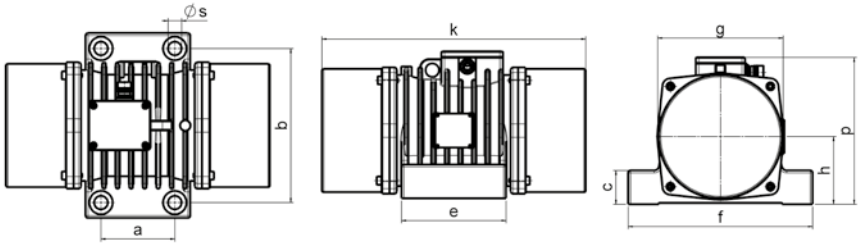
standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input
	min –1	N	cm kg	number of slices per side stepless	in steps	50 Hz / V	A	W
VE 55/2	3,000	25,000	50		12	3~ 230 / 400	6.6 / 3.8	2,100
VE 55/4-120	1,500	14,500	115	2		3~ 230 / 400	4.7 / 2.7	1,400
VE 55/4-150	1,500	17,800	144	2		3~ 230 / 400	4.7 / 2.7	1,400
VE 55/6-120	1,000	6,400	115	2		3~ 230 / 400	3.4 / 2.0	850
VE 55/6-150	1,000	7,920	144	2		3~ 230 / 400	3.4 / 2.0	850
VE 55/8-120	750	3,620	115	2		3~ 230 / 400	2.1 / 1.2	500
VE 55/8-150	750	4,400	144	2		3~ 230 / 400	2.1 / 1.2	500



type	bores for fastening (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	Ø$_s$	c	e	f	h	g	p	k	
VE 55/2	120	250	22	55	170	300	110	205	240	370	43
VE 55/-120	120	250	22	55	170	300	110	205	240	430	54
VE 55/-150	120	250	22	55	170	300	110	205	240	475	69

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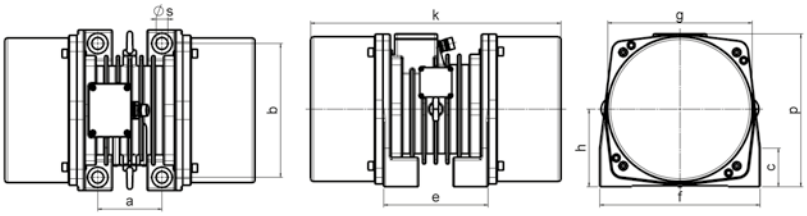
Vibration Motor in Standard Version

The extremely sturdy housing is manufactured from high-strength tempered aluminium chill casting. The bearings lubricated with special grease ensure a reliable long operative life. The centrifugal force is infinitely variable. Under consideration of the admissible power input the vibrator can be run continuously.

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings	standard voltage	nominal current	power input
	min $^{-1}$	N	cm kg	number of slices per side stepless | in steps	50 Hz / V	A	W
VE 65/2	3,000	32,000	65	2	3~ 230 / 400	6.6 / 3.8	2,100
VE 65/4-200	1,500	25,000	200	2	3~ 230 / 400	4.7 / 2.7	1,400
VE 65/6-200	1,000	11,000	200	2	3~ 230 / 400	3.4 / 2.0	850
VE 65/6-300	1,000	16,500	300	2	3~ 230 / 400	3.4 / 2.0	850
VE 65/8-200	750	6,250	200	2	3~ 230 / 400	2.1 / 1.2	500
VE 65/8-300	750	9,300	300	2	3~ 230 / 400	2.1 / 1.2	500



type	bores for fastening (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	$Ø_s$	c	e	f	h	g	p	k	
VE 65/2	120	250	22	55	200	300	145	280	285	368	58
VE 65/-200	120	250	22	55	200	300	145	280	285	368	67.5
VE 65/-300	120	250	22	55	200	300	145	280	285	468	80

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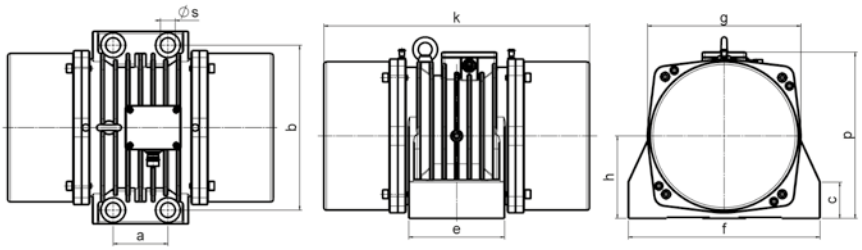
Vibration Motor in Standard Version

The extremely sturdy housing is manufactured from high-strength tempered aluminium chill casting. The bearings lubricated with special grease ensure a long operative life. The centrifugal force is infinitely variable. Under consideration of the admissible power input the vibrator can be run continuously.

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP65 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings	standard voltage	nominal current	power input
	min $^{-1}$	N	cm kg	number of slices per side stepless | in steps	50 Hz / V	A	W
VE 85/2	3,000	43,000	86	2	3~ 230 / 400	12.0 / 6.9	4,200
VE 85/2-120[1]	3,000	61,000	123	2	3~ 230 / 400	12.0 / 6.9	4,200
VE 85/4-400	1,500	50,000	397	2	3~ 230 / 400	6.4 / 3.7	2,000
VE 85/6-400	1,000	22,000	397	2	3~ 230 / 400	5.5 / 3.2	1,500
VE 85/6-600	1,000	32,280	587	2	3~ 230 / 400	5.5 / 3.2	1,500
VE 85/8-400	750	12,500	397	2	3~ 230 / 400	3.8 / 2.2	950

[1]exception: type VE 85/2-120 with 40% connection time.



type	bores for fastening (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	$Ø_s$	c	e	f	h	g	p	k	
VE 85/2	100	300	27	70	175	350	150	280	300	385	75
VE 85/2-120	100	300	27	70	175	350	150	280	300	385	80
VE 85/-400	100	300	27	70	175	350	150	280	300	485	100
VE 85/6-600	100	300	27	70	175	350	150	280	300	612	130

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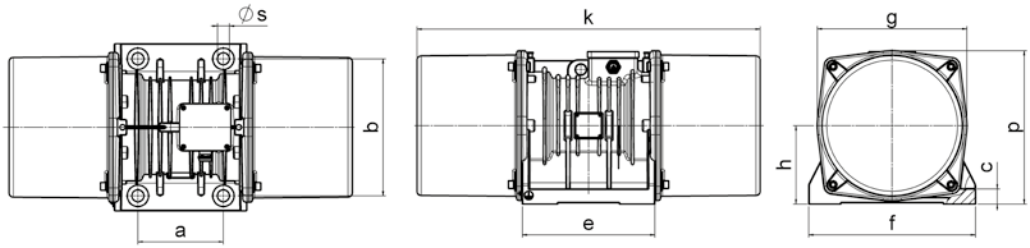
Vibration Motor in Standard Version

The extremely sturdy housing is manufactured from high-strength ductile cast iron. The bearings lubricated with special grease ensure a reliable long operative life. They can be re-lublicated via external grease nipples. The centrifugal force is infinitely variable.
Under consideration of the admissible power input the vibrator can be run continuously.

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP66 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings	standard voltage	nominal current	power input
	min $^{-1}$	N	cm kg	number of slices per side stepless | in steps	50 Hz / V	A	W
VE 130/2	3,000	63,000	130	2	3~ 230 / 400	13.5 / 7.7	4,900
VE 130/4-500	1,500	65,000	252	2	3~ 230 / 400	12.35 / 7.0	4,000
VE 130/6-800	1,000	42,760	800	2	3~ 230 / 400	10.0 / 5.77	3,000
VE 130/6-1000	1,000	56,650	1,030	2	3~ 230 / 400	10.0 / 5.77	3,000
VE 130/6-1250	1,000	69,000	1,250	2	3~ 230 / 400	10.0 / 5.77	3,000
VE 130/8-800	750	24,060	800	2	3~ 230 / 400	9.86 / 5.67	2,000
VE 130/8-1000	750	31,870	1,030	2	3~ 230 / 400	9.86 / 5.67	2,000



type	bores for fastening (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	$Ø_s$	c	e	f	h	g	p	k	
VE 130/2	200	320	28	35	310	390	183	350	358	673	170
VE 130/4-500	200	320	28	35	310	390	183	350	358	673	207
VE 130/-800	200	320	28	35	310	390	183	350	358	673	221
VE 130/-1000	200	320	28	35	310	390	183	350	358	803	247
VE 130/6-1250	200	320	28	35	310	390	183	350	358	803	260

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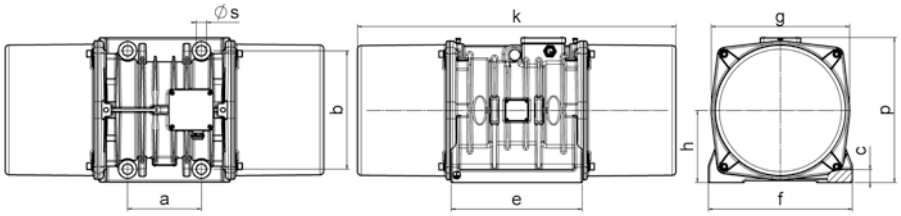
Vibration Motor in Standard Version

The extremely sturdy housing is manufactured from high-strength ductile cast iron. The bearings lubricated with special grease ensure a reliable long-term operation. They can be re-lubricated via external grease nipples. The centrifugal force is infinitely variable.
Under consideration of the admissible power input the vibrator can be run continuously.

standard voltage: 230/400 V / 50 Hz – other voltages are available
protection class IP66 – insulation class F

type	synchr. speed	centrifugal force	working moment	centrifugal force settings		standard voltage	nominal current	power input
	min $^{-1}$	N	cm kg	number of slices per side stepless	in steps	50 Hz / V	A	W
VE 180/4-700	1,500	86,500	700		2	3~ 230 / 400	12.3 / 7.10	4,200
VE 180/6-1400	1,000	79,000	1,400		2	3~ 230 / 400	12.35 / 7.13	4,000
VE 180/6-1600	1,000	88,000	1,600		2	3~ 230 / 400	12.35 / 7.13	4,000
VE 180/8-1400	750	44,000	1,400		2	3~ 230 / 400	14.60 / 8.43	4,000
VE 180/8-1600	750	49,000	1,600		2	3~ 230 / 400	14.60 / 8.43	4,000



type	bores for fastening (mm)			base dimensions (mm)			overall dimensions (mm)				weight (kg)
	a	b	$Ø_s$	c	e	f	h	g	p	k	
VE 180/4-700	200	320	28	35	355	390	195	375	392	710	255
VE 180/-1400	200	320	28	35	355	390	195	375	392	863	308
VE 180/-1600	200	320	28	35	355	390	195	375	392	863	325

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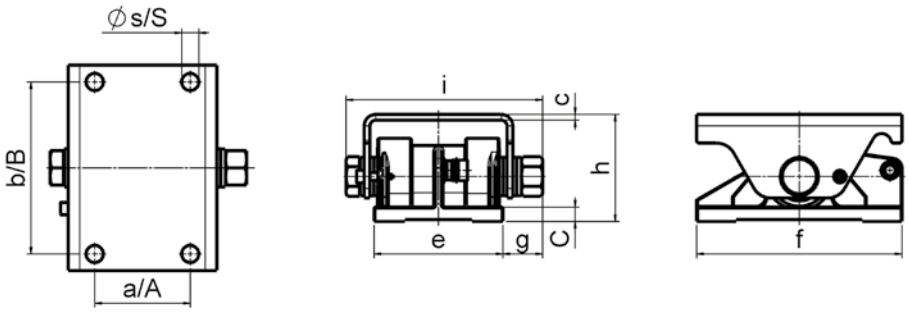
Directional vibrations are required for many vibrating processes. These are usually generated by two parallel-mounted, contra-rotating **oscillation motors**. Under certain circumstances, the synchronization of the two motors does not always work properly. In the start-up phase, the vibration system has to be able to vibrate freely in at least two axes. This is not the case, for example, with forced guidance.

The oscillating converters in conjunction with standard vibration motors offer a **cost-efficient** alternative here. Both devices are simply screwed together. The mode of operation corresponds to that of an oscillating vibrator, but with the advantage of a broad, finely stepped performance spectrum.

type	suitable for the following vibration motor types	weight kg
SR 2	VE 2, VE 2 GL, VE 6, EHF 6/4	3.15
SR 15	VE 8, VE 12, VE 15, EHF 15/4	6.9
SR 30	VE 30	7.25
SR 55	VE 55, VE 65	28



type	mounting dimensions vibrator (mm)			mounting dimensions converter (mm)					overall dimensions converter (mm)				
	a	b	$Ø_s$	c	A	B	ØS	C	e	f	g	i	h
SR 2	65	140	13	6	65	140	13	10	120	163	8	135	73
SR 15	100	180	18	6	100	180	18	15	135	215	38	195	112
SR 30	100	200	18	6	100	180	18	15	135	215	38	195	112
SR 55	120	250	M20	20	160	160	18	15	280	195	40	360	165

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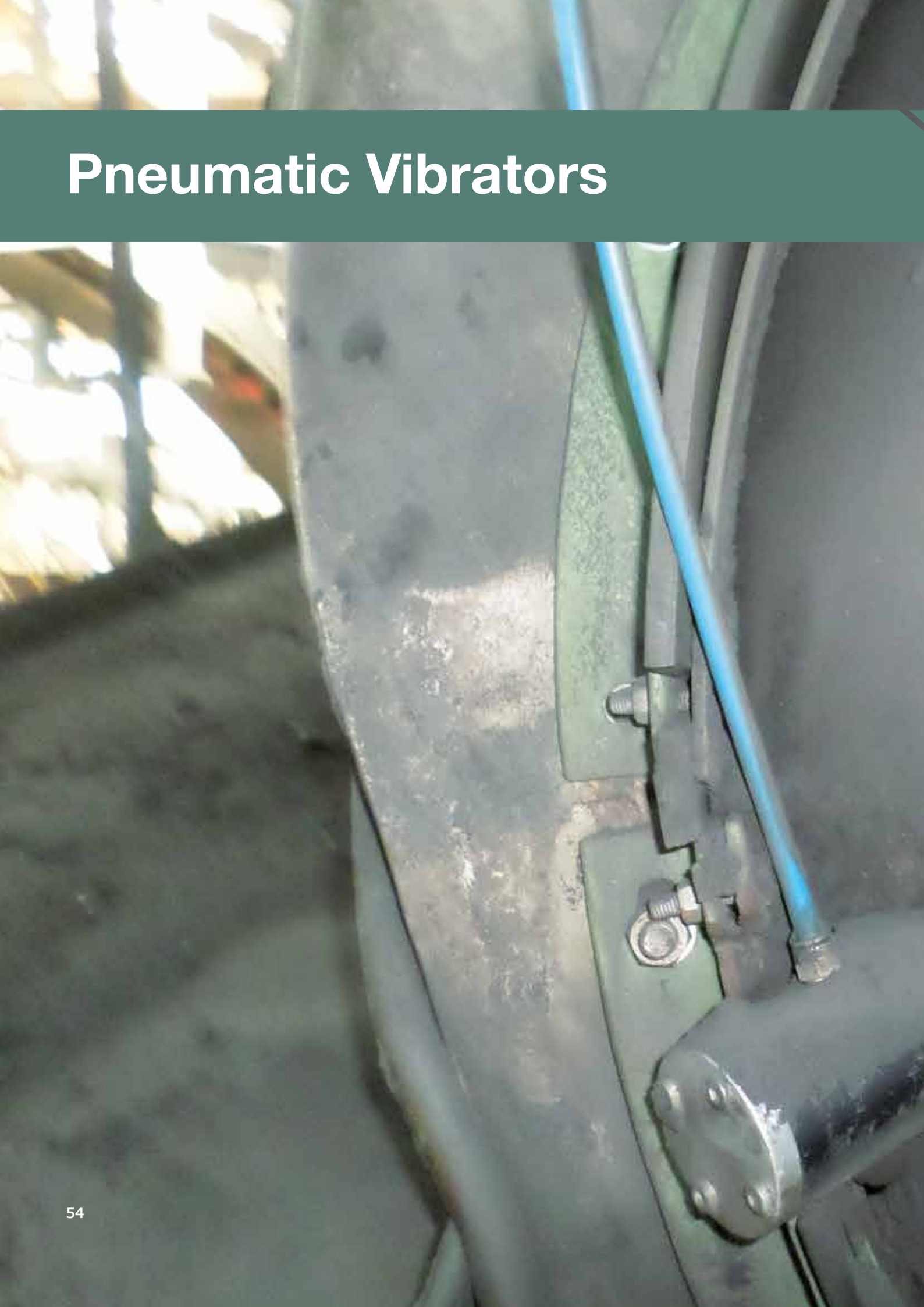
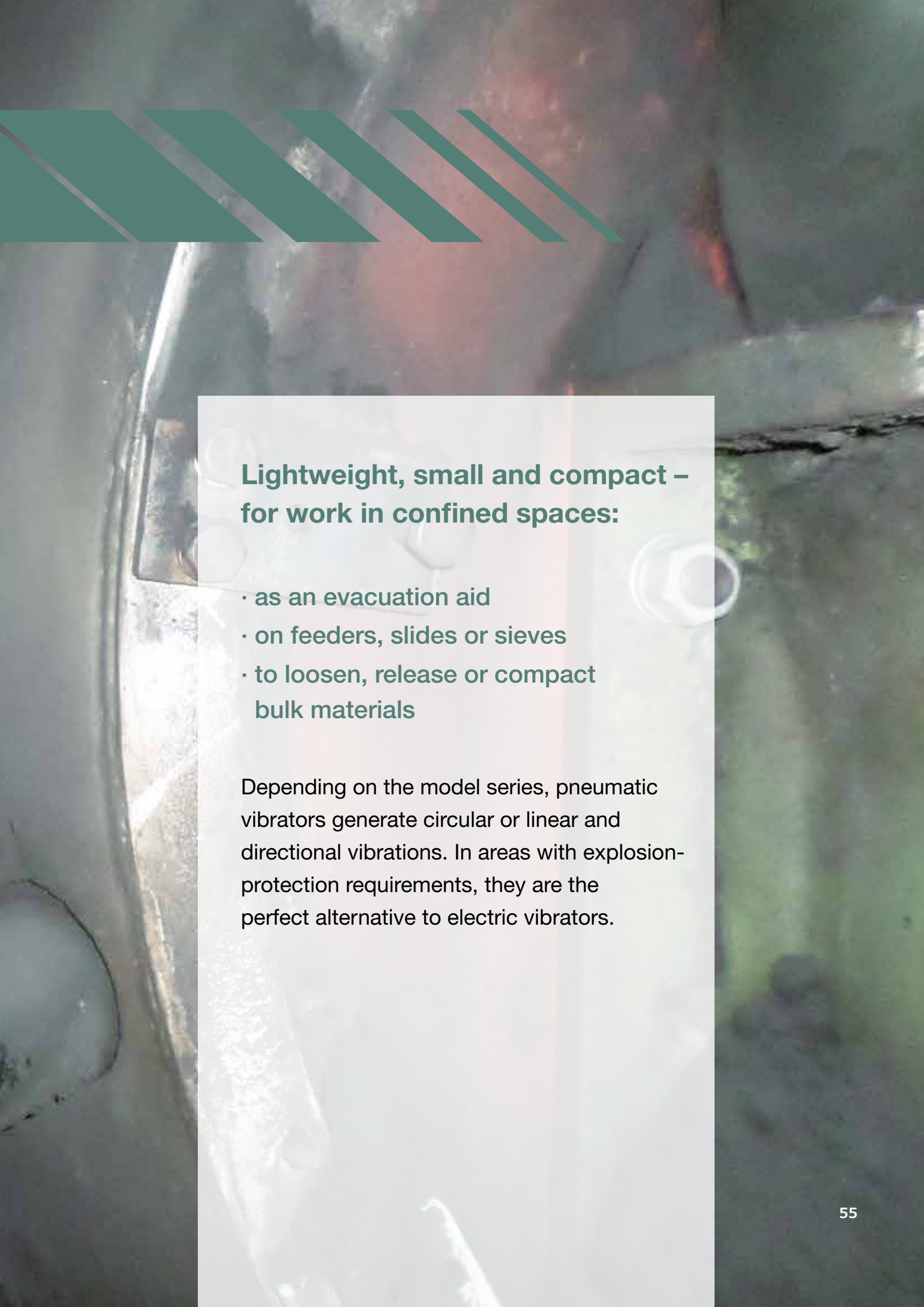
Pneumatic Vibrators





Lightweight, small and compact – for work in confined spaces:

- as an evacuation aid
- on feeders, slides or sieves
- to loosen, release or compact bulk materials

Depending on the model series, pneumatic vibrators generate circular or linear and directional vibrations. In areas with explosion-protection requirements, they are the perfect alternative to electric vibrators.

Pneumatic External Vibrators VR 30/VR 25

Pneumatic External Vibrators series VR generate rotary vibrations with small amplitudes and high frequencies. The frequency and rotational speed are dependend on the air pressure and can be adjusted continuously.

Minimal maintenance requirements and minimum wear of the external vibrators, as well as its design without bearings, guarantee a reliable operation, especially under extreme duty applications and continuous operation.

The types VR 25 A and VR 30 A are equipped with an additional air supply hose and extract hose (i.e. the escaping air will be conducted via a hose and will not escape directly at the vibrators housing into the environment). The A-types are especially suitable for dosing mortar or for wet-mix shotcrete applications.

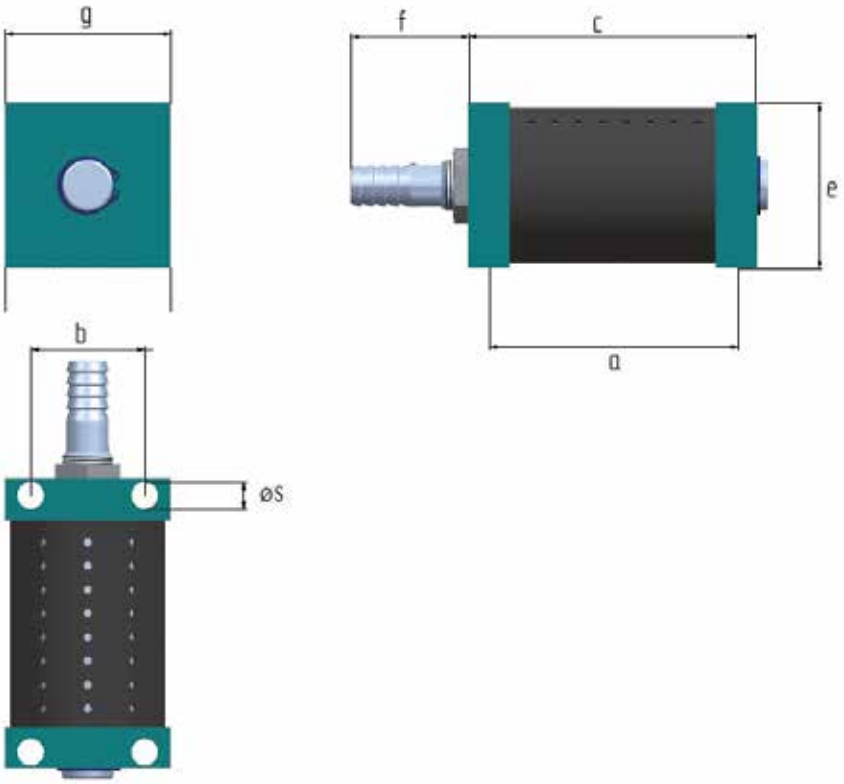
working temperature: -10°C till + 80°C

suitable for continuous operation.

type	vibrations[1]	centrifugal force[1]	air consumption[1]	weight	mounting dimensions			overall dimensions			
	min $^{-1}$	N	m³/min.	kg	mm			mm			
					a	b	øs	c	e	f	g
VR 25 / VR 25 A[2]	18,000	4,500	0.9	1	60.7	31.5	6.5	74	42	43	42
VR 30 / VR 30 A[2]	12,000	9,000	1.0	3.5	74	55	12.5	90	80	70	80

[1] measured at 6 bar air pressure.

[2] VR 25 A und VR 30 A with additional extract air hose.



BENEFITS:

· low weight
· maintenance free
· long lifetime

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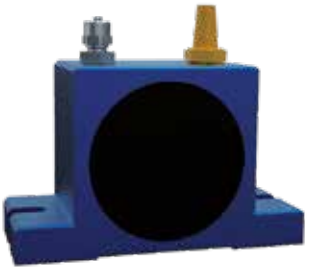
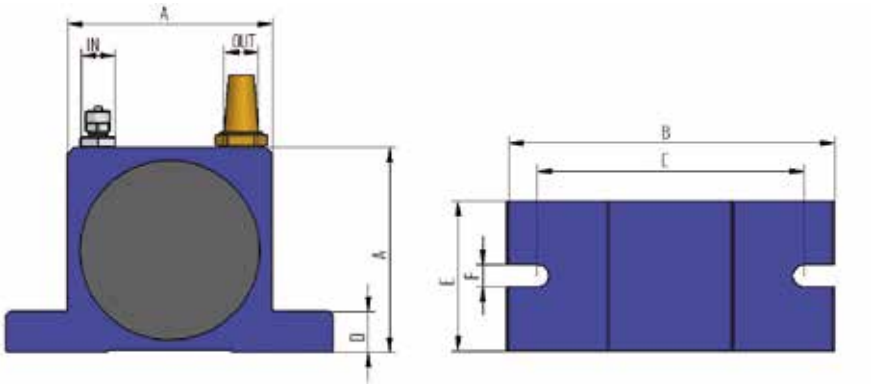


Ball Vibrators generate rotary vibrations with low amplitudes and high frequencies. They are particularly efficient at fine powders or granular materials such as sand or seeds. Manufactured from an aluminium body with a galvanized steel cover, they are operated with lubricated compressed air. Among the pneumatic vibrators with rotary vibrations, the MKS-series is the most economical solution.

working temperature: -20°C till + 200°C
noise emission: < 90 db(A)[1]

They are designed and tested for use in potentially explosive areas classified as zone 21 (dust) and zone 1 (gas) CAT II 2 GD.

type	vibrations			centrifugal force			air consumption			weight
	min $^{-1}$			N			l/min			kg
	2bar	4bar	6bar	2bar	4bar	6bar	2bar	4bar	6bar	
MKS 8	25,500	31,000	35,000	130	260	360	83	145	195	0.13
MKS 10	22,500	28,000	34,000	250	470	710	92	150	200	0.13
MKS 13	15,000	18,500	22,500	320	550	870	94	158	225	0.26
MKS 16	13,000	17,000	19,500	450	800	1,100	122	200	280	0.30
MKS 20	10,500	14,500	16,500	720	1,220	1,720	130	230	340	0.53
MKS 25	9,200	12,200	14,000	930	1,570	2,050	160	290	425	0.63
MKS 30	7,800	9,700	12,500	1,510	2,470	3,210	215	375	570	1.13
MKS 36	7,300	9,000	10,000	2,060	3,150	4,050	260	475	675	1.34



type	A	B	C	D	E	F	G	H
	mm	mm	mm	mm	mm	mm	IN	OUT
MKS 8	50	86	68	12	20	7	1/8"	1/8"
MKS 10	50	86	68	12	20	7	1/8"	1/8"
MKS 13	65	113	90	16	25	9	1/4"	1/4"
MKS 16	65	113	90	16	28	9	1/4"	1/4"
MKS 20	80	128	104	16	33	9	1/4"	1/4"
MKS 25	80	128	104	16	38	9	1/4"	1/4"
MKS 30	100	160	130	20	45	11	3/8"	3/8"
MKS 36	100	160	130	20	50	11	3/8"	3/8"

[1] measured in normal operating conditions in accordance with standard UNI EN ISO 11201. In order to avoid unnecessary noise for the environment, we recommend to operate the vibrators with a silencer.

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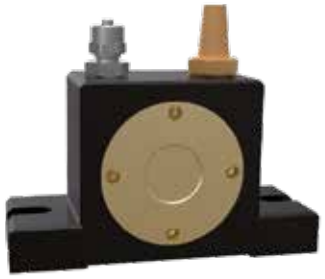
Pneumatic Roll Vibrators MRR

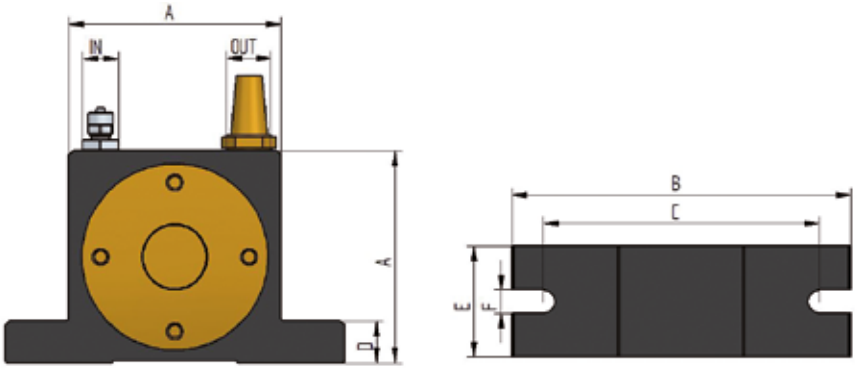
Roll Vibrators generate rotary vibrations with low amplitudes and high frequencies. Among others, they are suitable for hopper emptying and for compaction processes in moulds due to higher forces generated than by pneumatic ball-vibrators. Roll vibrators consist of an aluminium casing and are operated with compressed lubricated air.



working temperature: -20°C till + 200°C
noise emission: < 90 db(A)[1]

They are designed and tested for use in potentially explosive areas classified as zone 21 (dust) and zone 1 (gas) CAT II 2 GD.

type	vibrations			centrifugal force			air consumption			weight
		min $^{-1}$			N			l/min		kg
	2bar	4bar	6bar	2bar	4bar	6bar	2bar	4bar	6bar	
MRR 50	21,000	25,000	29,500	1,880	2,810	3,550	78	144	204	0.37
MRR 65	19,000	22,000	26,000	2,350	4,390	5,520	100	198	296	0.76
MRR 80	14,000	16,000	21,500	3,420	5,870	6,240	122	255	378	1.27
MRR 100	6,750	9,750	11,000	2,890	6,040	7,830	132	284	412	2.60



type	A	B	C	D	E	F	H	I
	mm	mm	mm	mm	mm	mm	IN	OUT
MRR 50	50	86	68	12	30	7	1/8“	1/8“
MRR 65	65	113	90	16	36	9	1/4“	1/4“
MRR 80	80	128	102	16	40	9	1/4“	1/4“
MRR 100	100	160	130	20	52	11	3/8“	3/8“

[1] measured in normal operating conditions in accordance with standard UNI EN ISO 11201. In order to avoid unnecessary noise for the environment, we recommend to operate the vibrators with a silencer.

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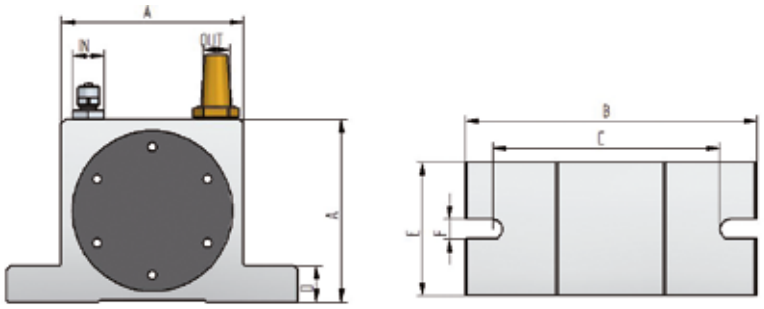
Pneumatic Turbine Vibrators MTT

Turbine Vibrators generate rotary vibrations with very low amplitudes and high frequencies. They are characterized by higher centrifugal forces than ball vibrators and they generate a lower noise level.
Operated with oil-free compressed air, they are especially suitable for food processing machines as well as for emptying bins or aiding material flow in chutes. MTT vibrators are manufactured from an aluminium casing.

working temperature: -20°C till + 120°C
noise emission: < 90 db(A)[1]

They are designed and tested for use in potentially explosive areas classified as zone 21 (dust) and zone 1 (gas) CAT II 2 GD.

type	vibrations min $^{-1}$			centrifugal force N			air consumption l/min			weight kg
	2bar	4bar	6bar	2bar	4bar	6bar	2bar	4bar	6bar	
MTT 8	34,000	38,000	42,000	1,100	2,050	2,920	45	81	110	0.25
MTT 10	26,000	33,000	38,000	1,050	1,710	2,520	45	81	110	0.26
MTT 13	24,500	28,500	31,000	2,020	2,630	3,000	122	204	285	0.57
MTT 16	18,000	20,000	21,000	1,940	2,390	2,640	122	204	285	0.58
MTT 20	14,500	19,000	23,000	2,510	4,040	5,260	184	318	452	1.09
MTT 25	13,200	15,500	17,000	2,440	3,360	5,080	184	318	452	1.12
MTT 30	11,000	12,500	13,500	3,510	7,210	7,810	322	542	749	2.20
MTT 36	8,500	11,500	12,000	3,410	6,980	7,490	322	542	749	2.30



type	A mm	B mm	C mm	D mm	E mm	F mm	H IN	I OUT
MTT 8	50	86	68	12	33	7	1/8“	1/8“
MTT 10	50	86	68	12	33	7	1/8“	1/8“
MTT 13	65	113	90	16	42	9	1/4“	1/4“
MTT 16	65	113	90	16	42	9	1/4“	1/4“
MTT 20	80	128	104	20	56	9	1/4“	1/4“
MTT 25	80	128	104	20	56	9	1/4“	1/4“
MTT 30	100	160	130	20	73	11	3/8“	3/8“
MTT 36	100	160	130	20	73	11	3/8“	3/8“

[1] measured in normal operating conditions in accordance with standard UNI EN ISO 11201. In order to avoid unnecessary noise for the environment, we recommend to operate the vibrators with a silencer.

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Pneumatic Impact Vibrators MKP

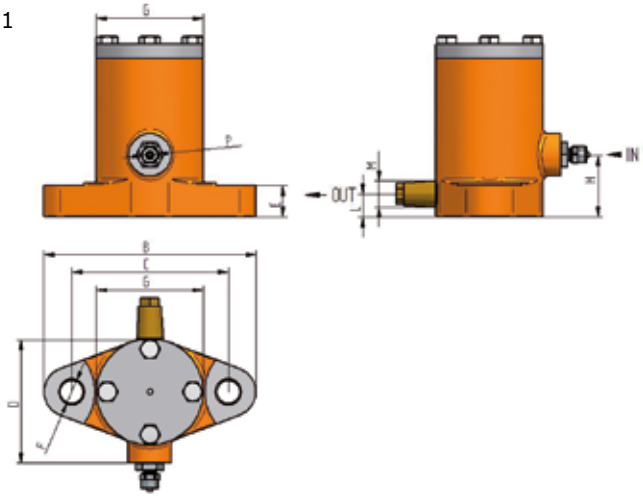
MKP Impact Vibrators produce a shockwave generated by the continuous impact of their internal piston. The frequency and centrifugal force can be adjusted continuously by the air pressure. They are particularly efficient at bulk materials that tend to stick to the wall. MKP vibrators are used for wet or electrostatic powders, clay, sludge or even manure. They avoid the formation of crusts, bridges or ratholes.

working temperature: -20°C till +200°C; P (atex) from -20°C till +130°C
noise emission: < 100 db(A)[1]

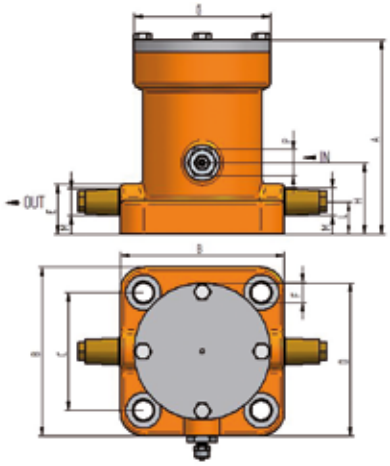
They are designed and tested for use in potentially explosive areas classified as zone 21 (dust) and zone 1 (gas) CAT II 2 GD

type	vibrations			centrifugal force			air consumption			working moment	weight
	min –1			N			l/min			cm kg	kg
	2bar	4bar	6bar	2bar	4bar	6bar	2bar	4bar	6bar	2bar – 6bar	
MKP 25	2,500	3,800	4,500	294	680	954	55	80	200	0.43	2.2
MKP 40	1,650	2,200	2,800	484	860	1,396	31	120	250	1.63	4.5
MKP 60	1,200	1,600	1,900	1,296	2,304	3,250	100	250	400	4.11	11

Figur 1



Figur 2



type	Fig.	A	A1	B	C	D	E	E1	F	G	H	L	M	P
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	OUT	IN
MKP 25	1	92	98	115	85	70	21	27	13	58	30	10,5	1/4“	1/4“
MKP 40	1	121	127	148	110	91	25	31	16,5	75	45	16	3/8“	3/8“
MKP 60	2	163	173	138x142	99x99	125	28	38	17	115	60	27	2 x 1/2“	1/2“

[1] measured in normal operating conditions in accordance with standard UNI EN ISO 11201. In order to avoid unnecessary noise for the environment, we recommend to operate the vibrators with a silencer.

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Pneumatic Piston Vibrators MKK

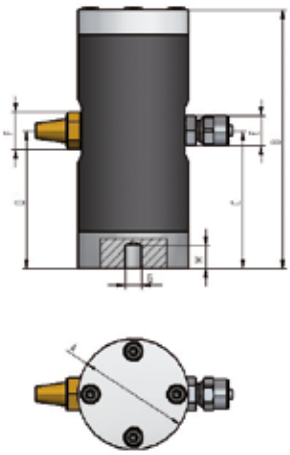
Pneumatic MKK Piston Vibrators produce directional vibrations. The frequency and centrifugal force can be continuously adjusted by the air pressure. They are particularly efficient at bulk materials that tend to stick to the wall, e.g. hygroscopic materials having coarse particle size, electrostatic powders or powders which tend to granulate. MKK vibrators are an effective solution against bridging or ratholing phenomena especially in indoor applications, where low noise of maximum 80 dB(A) are normally requested.

working temperature: -20°C till +130°C
noise emission: < 80 db(A)[1]

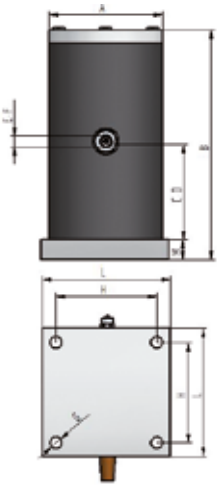
They are designed and tested for use in potentially explosive areas classified as zone 21 (dust) and zone 1 (gas) CAT II 2 GD

type	vibrations min –1			centrifugal force N			air consumption l/min			working moment cm kg	weight kg
	2bar	4bar	6bar	2bar	4bar	6bar	2bar	4bar	6bar	2bar – 6bar	
MKK 15	5,040	5,880	6,720	33	45	59	9	15	21	0.02	0.17
MKK 22	2,880	3,480	4,080	95	139	191	32	50	73	0.21	0.50
MKK 30	2,640	3,120	3,720	172	240	341	45	90	140	0.45	1.03
MKK 45	1,920	2,400	2,580	391	661	706	56	125	194	1.94	2.86
MKK 60	1,260	1,560	2,160	723	1,108	2,124	70	125	202	8.31	4.60

Figur 1



Figur 2



type	Fig.	A mm	B mm	C mm	D mm	E IN	F OUT	G	H mm	I mm	M mm
MKK 15	1	32	69	37	37	M5	1/8“	M 8	-	-	-
MKK 22	1	45	105	56	56	1/8“	1/8“	M 10	-	-	-
MKK 30	1	60	116	62	62	1/4“	1/4“	M 12	-	-	-
MKK 45	2	80	151	78	78	1/4“	3/8“	Ø8	72	90	15
MKK 60	2	115	224	115	115	1/2“	1/2“	Ø13	102	130	20

[1] measured in normal operating conditions in accordance with standard UNI EN ISO 11201. In order to avoid unnecessary noise for the environment, we recommend to operate the vibrators with a silencer.

The above given technical performance data are non-binding average values and are subject to modifications and amendments.

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Vibrating Tables

Tailor-made solutions for the widest possible range of application areas such as:

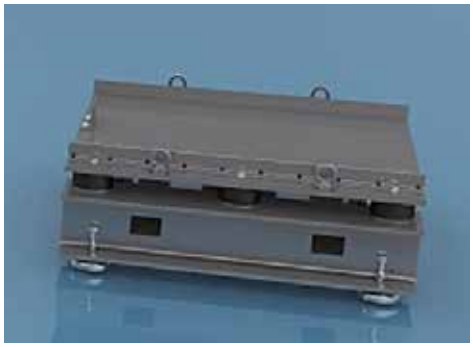
- compaction of concrete, powders or foundry sand
- levelling conical heaps
- testing of electronic or mechanical components
- removal of dirt particles

Equipped with our powerful electric vibrators, they transmit rotary or vertical vibrations. Frequency and amplitude can be adjusted independently.

Vibrating tables with maximum dimensions of 120cm x 120cm

The tables are especially made for individual requirements. Whether for compaction, equalization, releasing, loosening, distributing or testing – all of the tables are coordinated by us for your application in terms of amplitude, speed, and in their entire vibration behaviour.





Dimensions:
· customized table plate sizes
· customized table heights (up to max. 75cm)
· customized bore pattern or milled slots for mounting the loads

Materials:
· steel (lacquered or powder coated)
· stainless steel (table plate or overall construction)

Vibrations: (frequency / amplitude)
· frequency adjustment via frequency converter (from 20 Hz till max. 80 Hz)
· adjustment of amplitude and centrifugal force manually by setting of the unbalanced weights of the vibration motor
· vertical or rotary vibrations
· clock timer to adjust the operating intervals

Application Areas:
· compaction of concrete, powders or foundry sand in moulds
· de-aeration of viscous media
· compaction of loose bulk materials (e.g. in packaging such as boxes, sacks, big packs)
· levelling/flattening of conical heaps
· testing of electrical or mechanical components for vibration-resistance
· cleaning/removal of adhering material (e.g. dirt particles)

type	dimensions
R0404	40 x 40 cm
R0606	60 x 60 cm
R0808	80 x 80 cm
R1010	100 x 100 cm
R1208	120 x 80 cm

If you require another table size, please feel free to contact us.

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INTERNAL VIBRATORS VIBRATING TABLES PNEUMATIC VIBRATORS

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