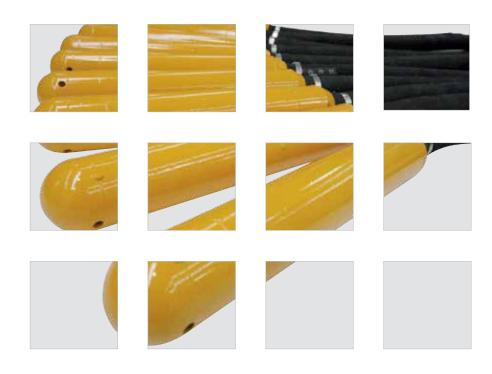
CONCRETE CONSOLIDATION





THE WORLDWIDE LEADER IN VIBRATION TECHNOLOGY







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OLI is the world's top selling manufacturer of Electric and Pneumatic Vibrators.

A high level of customer service is guaranteed through 19 OLI Trading Subsidiaries, 36 local warehouses and 5 manufacturing plants worldwide.

OUR 3 DIVISIONS PROVIDE CUSTOMERS WITH OPTIMAL SOLUTIONS FOR ALL REQUIREMENTS

Electric motovibrators for vibrating equipments. Comprehensive range of electric and pneumatic vibrators to solve any problem of flowability. Concrete consolidation Internal concrete vibrators and converters for reliable and efficient concrete compaction.

Originally specialising in immersion vibrators for concrete consolidation, OLI is now the worldwide leader in vibration technology, with a **complete range of electric and pneumatic internal and external vibrators**.

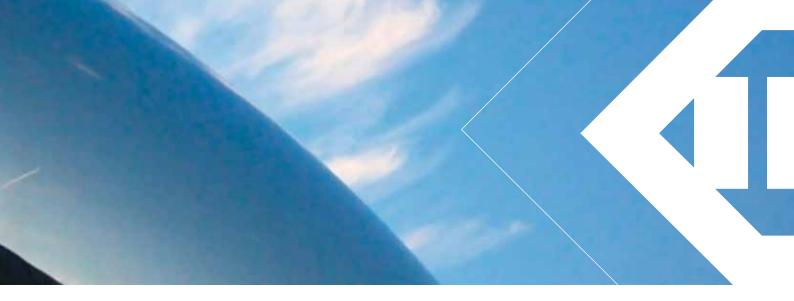
By supplying competitive, high quality products for wide-ranging applications, OLI combines performance and reliability by adapting to the ever-changing market. A strong believer in innovation, OLI is constantly striving to be ahead of the opposition.

As a global player in industrial vibration technology, the key focus of OLI's business strategy is **rapid stock delivery**, any time, anywhere in the world.

Excellent customer service is of pivotal importance: the company guarantees **quick order processing** and customers worldwide can enjoy access to the same high quality product and services.

OLI has access to credible expertise when it comes to finding suitable solutions to customers' requests. A team of engineers specialised in designing efficient, reliable, and safe solutions backed by **globally certified management**.

OLI provides their customers with state-of-theart equipment and the blueprint for the next generation of products is already in progress.



The vibration of concrete

The freshly mixed concrete does not compact on its own because the poor fluidity is not able to overcome the internal friction; only vibration can overcome such forces.

VIBRATION FAVOURS:

- The surfacing of the air trapped in the concrete;
- The displacement of aggregates, aligning them to one another, with consequent reduction of cavities, conferring them high density and perfect homogeneity;
- The **adhesion** of the concrete to the bars of the reinforcement armatures or to any internal structural inserts, as well as to the basic anchorages.

BENEFITS:

- High mechanical resistance.
- Low porosity and thus low permeability to water and to aggressive substances contained therein.
- Absence of cracks within the concrete, in the proximity of the reinforcement armatures' bars.
- Complete filling of the formwork.
- Increase in the life cycle of the concrete.
- High aesthetic result.

TYPES OF VIBRATION Direct The vibration is transmitted directly from within the concrete Indirect The vibration is transmitted from the outside of the concrete Equipment To USE Electric immersion vibrators External electric and pneumatic vibrators

NO VOIDS REDUCED WORKING TIME MAXIMUM DENSITY

MAA VINALINA CONCORTE CEDENICELI

MAXIMUM CONCRETE STRENGTH WITH OLI VIBRATORS



Electric high frequency internal vibrators

When constructing industrial floors, walls, columns, slabs, etc., flexible and easy-to-use vibrating systems are required.

In such cases high-frequency immersion vibrators are generally used, known as "poker" or "spud" or simply 'vibrating needles", which come into direct contact with the concrete; for this reason, we speak of internal direct vibration.

HOW THE VH VIBRATORS WORK:

An eccentric mass is housed inside the vibrating head (or needle) which is fixed to a shaft rotated by a threephase asynchronous AC motor.

During rotation, the eccentricity of the mass generates rotational movements to the vibrating head (vibrations).

The robustness and the constant rotation speed are essential factors in the compaction of the concrete: drops in the centrifugal force heavily reduce the quality of the manufactured article.

The VH is a robust and reliable product, which is suitable for compacting concrete and is appropriate for continuous operation.

Important:

The VH have to be operated by electric and electronic converters that convert the 50/60 Hz mains frequency to 200 Hz, which is necessary in order for the vibrating head to reach a vibration speed of 12,000 vpm, as it is ideal for the proper compaction.



№ Benefits

- No overheating
- Easy maintenance
- Long life of the vibration head
- 100% Water Proof



VH - Electric high frequency internal vibrators



MODEL	HEAD DIAMETER	HEAD LENGTH	HEAD WEIGHT	TOTAL WEIGHT*	CF	RATED CURRENT **	RATED POWER (42V)	ACTION DIAMETER ***	AMPLITUDE	NOISE LEVEL	COMPACTION POWER***
	mm	mm	kg	kg	N	А	kW	cm	mm	dB A	m³/h
VHN 38	38	404	2.4	10.6	1,700	8	0.5	45	1.8	70	20
VHN 50	50	403	4.4	14.8	3,080	11	0.6	60	2	76	25
VHN 59	59	420	6.8	17.4	4,560	12	0.9	80	2.3	76	35
VHP 50	50	468	5.4	16.4	3,760	15	0.9	70	2.1	76	40
VHP 59	59	498	8.2	19.6	5,640	17	1.1	90	2.4	79	45
VHP 65	65	484	9.4	22.4	7,330	24	1.3	110	2.6	79	50

^{**} Refer to centrifugal force for amperage assessment *** Measurements vary according to concrete quality and thickness

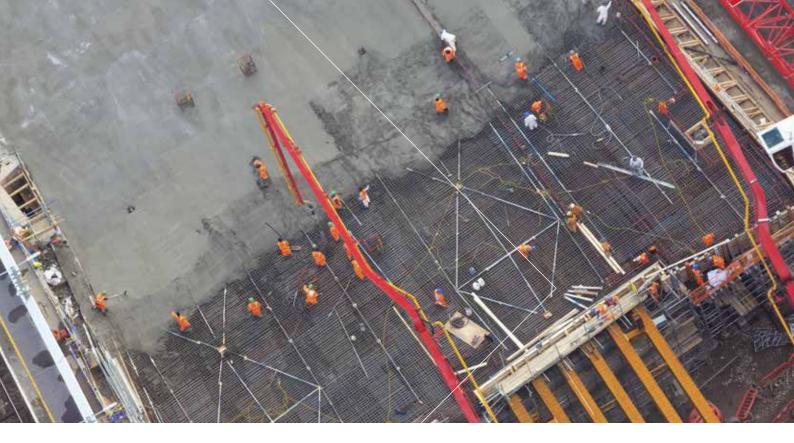
VH - ELECTRIC HIGH FREQUENCY INTERNAL VIBRATORS

APPLICATION	Concrete	compaction

DESCRIPTION High frequency internal electric vibrators for concrete consolidation characterised by high performance consistent speeds, and

remarkable resistance to abrasion

FEATURES						
DUTY CYCLE	Continuous S1					
INPUT	42V-3ph - 200Hz					
NOMINAL FREQUENCY	12,000 vpm					
INSULATION CLASS	F (T° max = 155°C)					
THERMAL SWITCHES	Inside the stator. Max T°C = 150°C					
WORKING TEMPERATURE	From -20°C to +40°C					
HEAD	Equipped with ball bearings greased for life. 2 bearings (VHN 50 - VHN 59), 4 bearings (VHN 38 and complete VHP range)					
	Protection class IP68					
	Hardening treatment for VHN and chrome plating for VHP					
SWITCH BOX	Polyamide (nylon +30% fiber glass) with gasket, cable protection, yellow colour					
	IP66 protection					
	Designed for continuous use and resistant to wear and tear					
OPERATING HOSE	5m SBR rubber hose with inner textile reinforcement					
SUPPLY CABLE	10m neoprene electric cable H07RN-F with 3 pin plug [42V – 3 phase, IP44]					
FINISHING	Painted yellow Ral 1007 (VHN), chromed (VHP)					
CERTIFICATIONS	Community Directives and subsequent modifications: 2006/42/EC - 2006/95/EC					
	Conformity verified according to the standard documents: IEC 60745-1, IEC 60745-2-12, IEC 60034-1					
OPTIONS	Cast aluminium switch box					
	Rubber cap					



Frequency and voltage converters

The internal vibrating needles need to be powered via a three-phase electric line at low voltage, therefore it is necessary to use a voltage and frequency converter.

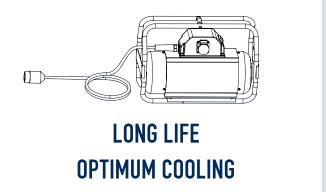
The electromechanical rotary converters consist of a motor and a generator, which are coupled together. The motor converts the electrical energy into mechanical energy; the generator converts the mechanical energy into electrical energy, thus generating the required voltage and frequency (42 Volt - 200 Hz).

The converters of the CM range are designed to supply simultaneously and in a continuous cycle, one or more high-frequency internal vibrators; they are reliable, durable and do not require maintenance.

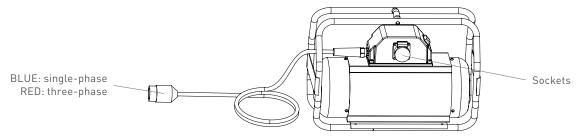
The minimal design and the materials used facilitate the external cleaning, while the special internal air ducting system avoids overheating. The range offers several models, which are capable of supplying from 1 to 4 immersion vibrators.



- No overheating
- No maintenance
- Optimal cooling
- Easy cleaning



CM - Frequency and voltage converters











MODEL FRAME	EDAME	OUTLETS	SUPPLY ELECTRIC	WEIGHT		INPUT		OUTPUT		
	OUTLETS	CABLE	WEIGHT	VOLTAGE	CURRENT	POWER	VOLTAGE	CURRENT	POWER	
	Туре	n°	m	kg V	А	kW	Frequency	А	kVA	
CMM 15	Handle	1	3.5	25	230V, 1ph, 50Hz	6	1.1	42V ± 10% 3ph 200Hz	14	1
CMM 25	Frame	2	3.5	34		10	1.8		25	1.8
CMT 25	Frame	2	3.5	33		5	2.8		25	1.8
CMT 35	Wheeled	3	5.0	41	400V 3ph 50Hz	6	3.3		36	2.6
CMT 55	Wheeled	3	5.0	50		9	5		55	4
CMT 85	Wheeled	4	5.0	56		12	6.6		85	6.2

	COMPATIBILITY TABLE (maximum number of vibrators that can be connected)										
CMM 15	1x VHN 38	1x VHN 50	1x VHN 59	-	-	-					
CMM 25	2x VHN 38	2x VHN 50	2x VHN 59	1x VHP 50	1x VHP 59	1x VHP 65					
CMT 25	2x VHN 38	2x VHN 50	2x VHN 59	1x VHP 50	1x VHP 59	1x VHP 65					
CMT 35	3x VHN 38	3x VHN 50	3x VHN 59	2x VHP 50	2x VHP 59	1x VHP 65					
CMT 55	3x VHN 38	3x VHN 50	3x VHN 59	3x VHP 50	3x VHP 59	2x VHP 65					
CMT 85	4x VHN 38	4x VHN 50	4x VHN 59	4x VHP 50	4x VHP 59	3x VHP 65					

CM - FREQUENCY AND VOLTAGE CONVERTERS

APPLICATION

DESCRIPTION Frequency and voltage converters equipped with permanent magnets, specifically designed to power high frequency concrete vibrators continuously

FEATURES

DUTY CYCLE	Continuous S1
INSULATION CLASS	F [T° Max = 155°C]
PROTECTION	Overload protection
WORKING TEMPERATURE	From -20°C to +40°C
CONNECTION BOX	Polyamide (nylon + 30% fibre glass), complete with switch and sockets (42V three phase, IP44 protection)
SUPPLY CABLE	Neoprene electric cable H07RN-F with plug
FINISHING	Powder coating (body yellow Ral 1007; fan covers, wheels and frame black Ral 9007)
CERTIFICATIONS	Community Directives and subsequent modifications: 2006/42/EC - 2006/95/EC
	Conformity verified according to the standard documents IEC 60034-1, IEC 60745-1, UNI EN ISO 12100
MORE	Smooth and robust cast aluminium body
	Forced ventilation



High frequency internal vibrators with built-in converter

On construction sites, during the consolidation of the concrete, a light, flexible and easy-to-use tool is often required, which can be connected directly to the common, single-phase power lines (230 or 110 Volt, 50/60 Hz).

In order to solve this necessity, the **EWO** range has been developed: high-frequency immersion vibrators equipped with an integrated electronic frequency converter capable of transforming the single-phase input voltage (230V or 110V, 50/60 Hz) into the three-phase voltage (230 V, 200 Hz) necessary to obtain 12,000 vpm.

Compared to the common vibrating needles powered by electromechanical converters, the EWO has several advantages:

- they are light and flexible;
- the constant output frequency maintains the maximum centrifugal force and thus a high and consistent performance;
- there is protection against short circuits, excessive temperature, voltage and current above or below the nominal values.



№ Benefits

- Reliable
- Safe & easy to handle
- No overheating
- Easy maintenance



EWO – High frequency internal vibrators with built–in converter



MODEL	HEAD DIAMETER	HEAD LENGTH	HEAD WEIGHT	TOTAL WEIGHT*	CF	RATED CURRENT **	RATED POWER (42V)	ACTION DIAMETER ***	AMPLITUDE	NOISE LEVEL	COMPACTION POWER ***
	mm	mm	kg	kg	N	А	kW	cm	mm	DB A	m3/h
EW0 38C	38	404	2.4	14.5	1,700	1.5	0.5	45	1.8	70	20
EW0 50C	50	468	5.2	20	3,760	2.7	0.9	70	2.1	76	40
EW0 59C	59	499	8.2	22.8	5,640	3.0	1.1	90	2.4	79	45
EW0 65C	65	484	9.4	24.8	7,330	4.5	1.3	110	2.6	79	50

^{*} Packaging included ** Refer to centrifugal force for amperage assessment *** Measurements vary according to concrete quality and thickness

	Input Voltage		Input Amperage		
Converter	230V +10% -15% 1ph	50/60Hz ± 5%	5.5 A		
Converter	115V +10% -15% 1ph	50/60Hz ± 5%	11 A		

EWO - HIGH FREQUENCY INTERNAL VIBRATORS WITH BUILT-IN CONVERTER

APPLICATION	Concrete compaction
DESCRIPTION	Equipped with compact electronic frequency converters integrated into the supply cable, characterised by high centrifugal
	forces, constant speeds and high wear resistance

FEATURES	
DUTY CYCLE	Continuous S1
INPUT	230V + 10% - 15% 50/60 Hz -1 ph
NOMINAL FREQUENCY	12.000 vpm
INSULATION CLASS	F (T° max = 155°C)
PROTECTION CLASS	Head protection IP68
	Converter protection IP66
	The inverter is protected against overload, overvoltage, excess temperature and short circuit. A LED light shows the presence of a fault
WORKING TEMPERATURE	From -20°C to +40°C
HEAD	Equipped with 4 ball bearings greased for life
	Hardening treatment (EWO 38C), chrome plating (EWO 50C, EWO 59C, EWO 65C)
SWITCH BUILT-IN	Complete with reinforced gasket
PROTECTION HOSE	5m SBR rubber hose with textile reinforcement
SUPPLY CABLE	10m neoprene electric cable H07RN-F with SCHUKO 220V 2P+1T 16A plug
CONVERTER	Sturdy cast aluminium box
	Ergonomic and lightweight (3 Kg)
INVERTER	Tropicalised and protected against vibration, moisture and shocks with a special resin
FINISHING	Painted yellow RAL 1007 (EWO 38C) and chrome plating (EWO 50C - EWO 59C - EWO 65C)
CERTIFICATIONS	Community Directives and subsequent modifications: 2006/42/EC, 2014/30/EU, 2006/95/EC
	Conformity verified according to the standard documents IEC 60745-1, IEC 60745-2-12, UNI EN ISO 12100
OPTIONS	Rubber cap

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External electric vibrators

High frequency electric vibrators are used on construction sites and in precast companies to obtain high-quality products (exposed concrete), with excellent aesthetic results and weather resistance. The vibration is transmitted to the concrete indirectly through formworks or mould.

Just like the internal vibrators, the external ones are also based on the principle of the vibration produced by the rotation of an eccentric mass started by a three phase

The OLI range of external electric vibrators includes fixed frequency models, 3,000 and 6,000 vpm, and variable frequency models, from 0 to 6,000 vpm.

Low speed vibration is used on high-density and unreactive concretes mostly, as they allow a fast displacement of the aggregates.

High speed vibration (6,000 vmp) is recommended with low-density concretes and in applications where high surface quality is required.

Variable frequency allows to find the correct vibration speed in relation to the density of the concrete to be treated. They are obviously more flexible than earlier.

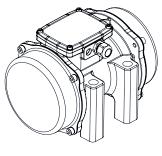
The OLI external electric vibrators are characterised by high operating efficiency and ease of installation. Specially designed attachment devices (quick-coupling clamps) reduce the time required for installing and repositioning.

This vibration system is recommended when:

- High construction elements and narrow walls (partitions, columns, beams) are to be compacted, which are difficult to vibrate with other systems.
- The reinforcement density inside the housing is high.

Benefits

- Sturdy design, made to last
- High operating efficiency
- Easy to install

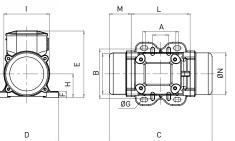


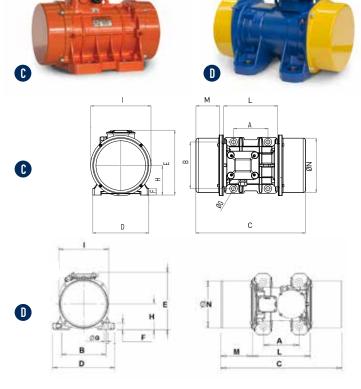
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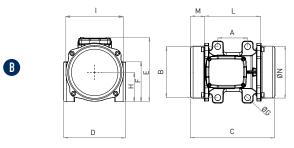
Electric vibrators - FOOT











Wm	MODEL	WEIGHT	CENTRIFUGAL FORCE	RPM	F
kgcm		kg	kg		
1.47	MVE 290/6	4.6	294	6,000	
7.00	MVE 1530/6N-HF-38E	12	1,385	6,000	
7.32	MVE 1300/6	24	1,474	0÷6,000	
13.00	VFV 100 25/6	42	2,600	0÷6,000	
7.32	MVE 1300/6	24	1,474	0÷6,000	

	CERTIFICATE						
INPUT POWER	FREQUENCY	NOMINAL CURRENT A max.		COS Φ la/ln		CABLE GLAND	Œx II3D
kW	Hz	42V	230/400V			Metric	Temp. Class
0.27	200Hz	5.00	0.91/0.53A	0.75	2.00	M20	100°C
1.00	200Hz	18.00	2.80/1.60	0.90	4.00	M20	100°C
1.30	0÷100Hz	on request	4.24/2.44	0.77	3.10	M20	100°C
2.25	0÷100Hz	on request	7.96/4.60	0.71	5.50	M20	on request

				DIMENSIONAL SPECIFICATIONS (mm)											
MODEL	DRAWING	SIZE	С	М	А	В	ØG	HOLES	D	Е	F	Н	I	L	N
MVE 290/6	A	10	211	45	62-75 / 33	106 / 83-102	9/7	4	130	136	12	48	94	121	85
MVE 1530/6N-HF-38E	В	38	255	43	90	154	18	4	187	195	121	89	174	169	156
MVE 1300/6	C	50	321	58	120	170	17	4	208	210	22	94	180	205	170
VFV 100 25/6	D	08.0	410	74	150	190	17	4	280	258	30	117	227	260	212

ELECTRIC VIBRATORS FOR CONCRETE CONSOLIDATION - FOOT VERSION

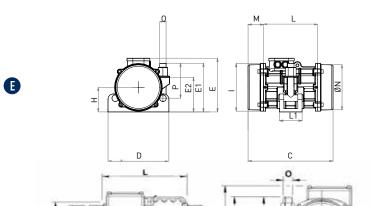
APPLICATION Concrete compaction

FEATURES

DUTY CYCLE	Continuous S1
MULTIVOLTAGE	3ph 42V - 3ph 230/400V (* voltage tolerance ± 10%)
FIXED FREQUENCY	50Hz and 200Hz
VARIABLE FREQUENCY	0÷100Hz
WORKING TEMPERATURE	-10°C +40°C
MAX NOISE LEVEL	85 dB(A) at 1 meter distance
MATERIAL	Cast aluminium or iron
FINISHING	Painted: A, B, C: orange RAL 2009; D: blue RAL 5010, yellow RAL 1003
CERTIFICATIONS	Community Directives and subsequent modifications: 2006/42/EC - 2006/95/EC
	Conformity verified according to the standard documents IEC 60034
OPTIONS	Power cable
ACCESSORIES	Fixing brackets: CLW (Clamp for Wooden formworks); CLS (Clamp for Steel formworks)



Electric vibrators - CRADLE







STANDARD FREQUENCY ELECTRIC MOTORS									
MODEL	WEIGHT	CENTRIFUGAL FORCE	RPM						
	kg	kg							
SPC 50 7.0 A-00	23.5	800	3,000						
SPC 50 9.0 A-00	24.5	1,000	3,000						
	MODEL SPC 50 7.0 A-00	MODEL WEIGHT kg SPC 50 7.0 A-00 23.5	MODEL WEIGHT CENTRIFUGAL FORCE kg kg SPC 50 7.0 A-00 23.5 800						

	ELECTRICAL SPECIFICATIONS							
INPUT POWER	FREQUENCY	NOMINAL A m		COS Φ	la / In	CABLE GLAND		
kW	Hz	42V	230/400V			Metric		
0.75	50	on request	2.25/1.30	0.84	5.0	M20		
0.85	50	on request	2.42/1.40	0.88	5.0	M20		

CERTIFICATE			
€x II3D			
Temp. Class			
on request			
on request			

HIGH FREQUENCY ELECTRIC MOTORS

Wm	MODEL	WEIGHT	CENTRIFUGAL FORCE	RPM	ı
kgcm		kg	kg		
7.40	HFC-200 6000/15	21.5	1,500	6,000	
14.66	MVE 1300/6C	29.0	1,474	0÷6,000	
10.00	VFC 100 20/6	24.0	2,000	0÷6,000	

	CERTIFICATE						
INPUT POWER	FREQUENCY		NOMINAL CURRENT A max.		la / In	CABLE GLAND	Œx II3D
kW	Hz	42V	230/400V			Metric	Temp. Class
1.00	200	19.70	3.60/2.10	0.70	5.50	M20	on request
1.30	0÷100	on request	4.24/2.44	0.77	3.10	M20	100° C
1.25	0÷100	on request	4.00/2.30	0.79	5.50	M20	on request

				DIMENSIONAL SPECIFICATIONS (mm)											
MODEL	DRAWING	SIZE	С	М	L	L1	0	Р	D	Е	E1	E2	1	Н	N
SPC 50 7.0 A-00	F	05	390	83	224	85	M24	132	230	212	184	136	163	95	148
SPC 50 9.0 A-00	F	05	390	83	224	85	M24	132	230	212	184	136	163	95	148
HFC-200 6000/15	F	05	312	44	224	85	M24	132	230	212	184	136	163	95	148
MVE 1300/6C	E	50	321	58	205	85	M24	132	230	203	184	131	180	93	170
VFC 100 20/6	F	05	390	83	224	85	M24	132	230	212	184	136	163	95	148

ELECTRIC VIBRATORS - CRADLE VERSION

APPLICATION Concrete compaction

FEATURES	
DUTY CYCLE	Continuous S1
MULTIVOLTAGE	3ph 42V - 3ph 230/400V [* voltage tolerance ± 10%]
FIXED FREQUENCY	50Hz and 200Hz
VARIABLE FREQUENCY	0÷100Hz
WORKING TEMPERATURE	-10°C +40°C
MAX NOISE LEVEL	85 dB(A) at 1 meter distance
MATERIAL	Cast aluminium or iron
FINISHING	Painted: model E: orange RAL 2007, model D: blue RAL 5010, yellow RAL 1003
CERTIFICATIONS	Community Directives and subsequent modifications: 2006/42/EC, 2006/95/EC
	Conformity verified according to the standard document IEC 60034-1
OPTIONS	Power cable
ACCESSORIES	Fixing bracket: CRS (Cradle for Steel concrete moulds)

Fastening systems for external vibrators

▶ CLW - Clamp for Wooden formworks

CLW									
APPLICATION	Quick mounting of vibrators on wooden formworks								
SAFETY BELT	Included								
FINISHING	Galvanized								

SUITABLE FOR

DOKA	H20, Top50, FF20
PERI	VT20K, GT24, VARIO GT24
MEVA	H20
PASCAL	H20
NOE	H20
HÜNNEBECK	H20, R24, GF24, ES24



CLW DIMENSIONAL SPECIFICATION

	LENGTH	WIDTH	HEIGHT	WEIGHT	MULTIPLE FOOTPRINT (mm)						
MODEL	mm	mm	mm	kg	E	PNEUMATIC					
CLW 001	389	291	122	6	65x106 135x115		90x125	180			

► CLS - Clamp for Steel formworks

CLS

APPLICATION	Quick mounting of vibrators on steel formworks
SAFETY CABLE	Included
FINISHING	Galvanized

SUITABLE FOR

DOKA	Framax XLife, Alu Framax XLife
PERI	Trio
MEVA	StarTec, Mammut
NOE	NOEtop



CLS DIMENSIONAL SPECIFICATION

MODEL	LENGTH	WIDTH	HEIGHT	WEIGHT	MU	NT (mm)		
MODEL	mm	mm	mm	kg	E	ELECTRIC		PNEUMATIC
CLS 001	389	291	122	6.5	68x106	135x115	90x125	180

▶ CRS - Cradle for Steel concrete moulds

CRS

APPI	LICATION	Quick mounting of vibrators on steel concrete moulds
		on steet concrete moutus

SUITABLE FOR

VIBRATING MOTOR Electric and pneumatic



CRS DIMENSIONAL SPECIFICATIONS

MODEL	LENGTH	WIDTH	RADIUS	WEIGHT	
	mm	mm	mm	mm	kg
CRS 055	180	105	140	55	3.5
CRS 080	230	85	184	80	5



External pneumatic vibrators

The external pneumatic vibrators have no electrical components.

They are powered via **air compressor** that spins the rotors inside the vibrator at a very high speed (generally between 10,000 and 17,000 vpm), this generates a circular vibration that spreads in all directions.

The optimum frequency varies depending on the dimensions of the aggregates: a low frequency (approximately 10,000 vpm) favours the vibration of large granules (pebbles and gravel), while a high frequency (approximately 20,000 vpm) favours the vibration of fine granules (sand, cement and others).

They are used especially in the construction of concrete segments for tunnels, viaducts and bridges.

The pneumatic vibrators offered by OLI have a solid and durable body in ductile cast iron.

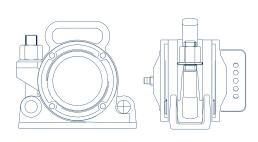
They are characterised by high reliability and efficiency as well as it's compact size.

Just like the electric vibrators, they may also be bolted or attached via quick-coupling clamps to formworks or moulds for the purpose of easy movement.



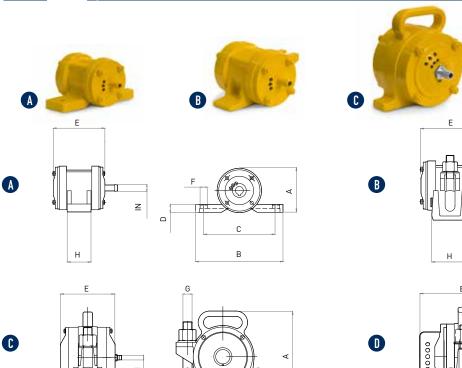
▶ Benefits

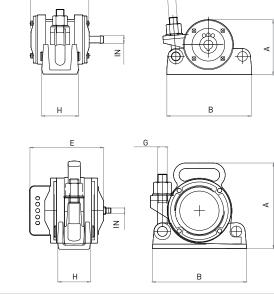
- Efficient and reliable
- No electric component
- No maintenance



EASY HANDLE

Pneumatic vibrators





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							OVERALL						ALL DIMENSIONS					
MODEL	WORKING PRESSURE	VIBRATION	CENTR. FORCE	AIR CONSUMP.	NOISE LEVEL	DRAWING	Α	В	С	D	Е	F	G	Н	IN	WEIGHT		
	bar	vpm	kg	l/min	dB(A)		mm	mm	mm	mm	mm	mm	mm	mm	mm	kg		
HFP 600P		17,000	720	1,000						20	164	20	-	60	15	6.3		
HFP 1000P	6	16,500	1,122	1,100	100	A	111	220	180							7.2		
HFP 1400P		16,000	1,453	1,200												7.3		
HFP 600C		17,000	720	1,000	100								18	94	15	6.3		
HFP 1000C		16,500	1,122	1,100		В	B 120	180	-	-	164	-				7.2		
HFP 1400C	6	16,000	1,453	1,200												7.3		
HFP 2700C	0	16,000	2,753	1,600							160	-	24	84	15	14		
HFP 4000C		15,200	4,079	1,800	103	C	224	235	-	-						14.5		
HFP 6000C		14,500	6,118	1,800												16.3		
HFP 4001C*	6	10,200	4,079	1,800	90	D	215	235	-	-	180	-	24	84	15	18		

PNEUMATIC VIBRATORS FOR CONCRETE CONSOLIDATION

APPLICATION Concrete formworks on site Concrete moulds in precast industry

FEATURES

WORKING PRESSURE 6 bar AIR SUPPLY QUALITY Class 5.4.4

WORKING TEMPERATURE -10°C +60°C

> MAX NOISE LEVEL 103 dB(A)

Silent version HFC 4001C: 90 dB(A) at 1 meter distance

TECHNOLOGY Eccentric rotor

MATERIALS Steel and cast iron

FINISHING Painted yellow RAL 1007

CERTIFICATIONS Conformity verified according to the standard document UNI EN ISO 12100

ACCESSORIES Fastening systems:

CLW (Clamp for Wooden formworks); CLS (Clamp for Steel formworks); CRS (Cradle for Steel concrete moulds)



HFP model P on CLW

Tips and recommendations for use

TIPS FOR CHOOSING THE INTERNAL VIBRATOR

Selection of the vibrating head length

Must never exceed the thickness of the concrete layer.

Selection of the needle diameter

Factors involved when selecting a model:

- composition of the concrete
- quantity of reinforcements (percentage of reinforcement inside the article)
- size of the spaces existing between the various reinforcements (mesh sizes)
- thickness of the concrete layer

The diameter to be used must allow the guidance of the vibrator inside the reinforcement, without sticking out of and/or getting stuck in the mesh.

Definition of the operating tube length

Must be greater than the depth of the manufactured article in order to allow the vibration of deeper layers.

TIPS FOR CHOOSING THE EXTERNAL VIBRATOR

Pneumatic or electric?

The selection depends on the type of power available (electricity grid or compressed air).

What type of fastening?

It depends on the construction material and the shape of the profiles to which the vibrators are to be fastened.

Definition of the positioning

Distribution of vibrators on the formwork.

Definition of the operating cycle

How many vibrators, running simultaneously, are needed?

Definition of the power (electric vibrators)

Electrical or electronic converter (with or without inverter).

MAIN RECOMMENDATIONS OF USE

Repeated vibration

It means vibrating again the already compacted concrete. This technique is used to mix successive layers of concrete in order to improve the surface finish quality of columns and walls and to increase their strength and wear resistance.

Vibration inside the formwork

Make sure that the vibrating head does not touch the interior walls, because besides damaging them, it can generate depressions in the manufactured article, thus deteriorating the quality of the surfaces. Vibrators with rubber tips may be used for protection.

Insufficient vibration

It is the most common problem. Insufficient vibration can alter the structural properties, such as: lower resistance, higher abrasion, higher permeability, therefore shorter duration and poor surface quality.

Excessive vibration

The use of oversized equipment generates the segregation and subsequent detachment in time of dust and concrete chips, in addition to the damage incurred by the formwork and moulds.



WHEN YOU NEED IT, WHERE YOU NEED IT.

THE WORLDWIDE LEADER IN VIBRATION TECHNOLOGY

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