

# EXEN



VIBRATION SPECIALIST



***Superior Performance &  
Dynamic Power  
EXEN VIBRATORS***

# High Frequency Internal Vibrator

To consolidate all kinds of concrete in construction works, civil engineering works, and the plant manufacturing the prefabricated element and concrete secondary products.

## Features

1. Compact, light weight and powerful.
2. Comfortable operation design and less vibration transmission to operator's hand.
3. Simple design, excellent durability and easy maintenance.



**HBM-ZX**



**HBM-ZXLH**

## ■SPECIFICATIONS

Model	Output (W)	Voltage (V)	Current (A)	Frequency (Hz)	Overall length (mm)	Head length (mm)	Hose length (mm)	Weight (kg)
<b>HBM30ZX</b>	130	48	3.5	200/240	6,567	31 × 376	28 × 6,000	9.6
<b>HBM40ZX</b>	250		5.5		6,502	43 × 340	33 × 6,000	11.8
<b>HBM50ZX</b>	400		9.0		6,552	52 × 390	36 × 6,000	15.6
<b>HBM60ZX</b>	500		13.0		6,577	61 × 415	36 × 6,000	17.5
<b>HBM30ZXLH</b>	130		3.5		5,954	31 × 376	28 × 4,000	12.1
<b>HBM40ZXLH</b>	250		5.5		5,831	43 × 352	33 × 4,000	13.6

# High Frequency Power supply

## Features

1. Adopt aluminum die cast box that increases corrosion resistance.
2. Dual structure of the box increases water resistance.
3. Washable structure  
(Low pressure jet washer can be used)
4. Earth leakage circuit breaker is built in for safety design.
5. Adopt safety circuit that does not pass large current but protects the main part at the time of over load and short circuit.
6. The constant voltage circuit keeps stabilized output voltage even input voltage is changed.  
(The capability of vibrator is fully given.)



## Water resist frequency inverter



**HC111B  
HC111BRC**



**HC113B  
HC116B**



**HC230A**

## ■SPECIFICATIONS

Model	Input				Output				Nos. of socket outlet	Weight (kg)
	Input (KVA)	Voltage (V)	Current (A)	Frequency (Hz)	Output (KVA)	Voltage (V)	Current (A)	Frequency (Hz)		
<b>HC111B / HC111BRC</b>	1.3	100	13.0	50/60	1.03	48	12.4	240	1	9.8
<b>HC113B</b>	1.5		15.0		1.30		15.0		2	10.0
<b>HC116B</b>	2.0		20.0		1.60		19.0		10.1	
<b>HC230A</b>	3.8	200	11.0		3.00	36.0	100-240	3	15.5	

# High Frequency Power supply

## Frequency Inverter



**H260A**

## Frequency Converter



**HFC2.4CB  
HFC4CB**

### ■SPECIFICATIONS

Model	Input				Output				Nos. of socket outlet	Weight (kg)
	Input (KVA)	Voltage (V)	Current (A)	Frequency (Hz)	Output (KVA)	Voltage (V)	Current (A)	Frequency (Hz)		
<b>H260A</b>	6.4	200	18.5	50/60	6.0	48	72.0	100-240	4	46
<b>HFC2.4CB</b>	4.2		16.0		2.4		28.0	200/240	3	50
<b>HFC4CB</b>	7.6		22.0		4.0		48.0		4	66

\*Any voltage available (converter)

## High Frequency Generator



**HAG112MFR**



**HAG134MF**



**HAG234MFi**

### ■SPECIFICATIONS

Model	Output (KVA)	Voltage (V)	Current (A)	Frequency (Hz)	Engine		Nos. of socket outlet	Weight (kg)
					Model	Output (kW)		
<b>HAG121MFR</b>	1.2	48	14.4	240	Robin EH092D	2.1/1.5	2	25.0
<b>HAG134MF</b>	3.4		40.9		Robin EX21D	5.1/3.7	3	38.0

### ■SPECIFICATIONS HAG234MFi

High frequency power supply						100V power supply						Weight (kg)	Engine	
Output (KVA)	Voltage (V)	Current (A)	Phase	Frequency (Hz)	Nos. of socket	Output (KVA)	Voltage (V)	Current (A)	Phase	Frequency (Hz)	Nos. of socket		Model	Output (kW)
3.4	48	40.9	3	240	3	2.0	100	20	1	50/60	2	Robin EX21D	5.1/3.7	

# High Frequency External Vibrator

## Features

1. Easy insertion into hook base bracket and simple fix with hinge bolt.
2. Excellent vibration transmission and fine finish.
3. Totally sealed design for steam curing without removing motor from mold.



HKM30LF (S)



HKM55LF (S)



HKM75LF (S)



Hook base bracket

## ■SPECIFICATIONS

Model	Input (KVA)	Voltage (V)	Current (A)	Switch	Frequency (Hz)	Centrifugal force (kN)	Weight (kg)
HKM30LF	300	48	8.0	No	50—120	2.75	10.3
HKM30LFS				Yes			11.0
HKM55LF	550		12.5	No		8.83	16.5
HKM55LFS				Yes			17.5
HKM75LF	750		17.0	No		11.80	21.3
HKM75LFS				Yes			22.3

## ■Number of vibrator units that can be operated

Model	HBM-ZX Internal				HKM External				
	30ZX	40ZX	50ZX	60ZX	154VS	304VS	30BL/LFS	55BL/LFS	75BL/LFS
HC111B/(RC)	3	1	1	—	2	1	1	—	—
HC113B	4	2	1	—	3	1	1	—	—
HC116B	5	3	2	1	5	2	2	1	1
HC230A	10	6(5)	4(3)	2	10(8)	4(3)	4(3)	2	2
H260A	20	13(12)	8(6)	5(4)	20(18)	9(7)	9(7)	5	4
HFC2.4CB	8	5(4)	3(2)	2(1)	7	3(2)	3(2)	2	1
HFC3CB	10	6	4(3)	2	10(9)	4(3)	4(3)	2	2
HFC4CB	13	8	5(4)	3(2)	13(12)	6(5)	6(5)	3	2
HAG112MFR	3	2	1	—	2	1	1	—	—
HAG134MF	11	7(6)	4(3)	3(2)	11(9)	5(4)	5(4)	3(2)	2
HAG234MFi	11	7(6)	4(3)	3(2)	11(9)	5(4)	5(4)	3(2)	2

# Handy Vibrator

## Features

1. Durable aluminum die cast motor case.
2. Fluoro-resin coating of the motor prevents adhesion of concrete. Even if concrete adheres, it is easily removed.
3. Dual isolation  
 Covered an internal lead line and switch part with an isolation cover.  
 Covered center axis of an armature and field coil with an isolation cover.  
 Covered motor frame and field coil with an isolation cover.
4. Dual vibro-isolation structure  
 Vibro-isolation rubber adapted to the central part of the motor frame for the reduction of incidence to worker.  
 Inside of the motor have 4 vibro-isolation rubbers.

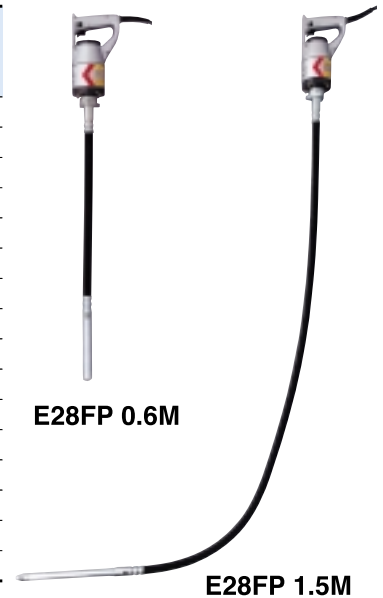


## ■ SPECIFICATIONS

Model	Shaft Length (m)	Output (W)	Input		Frequency (Hz)	Amplitude (mm)	Total Length (mm)	Head Dia.×Length (mm)	Length Hose/Shaft Assembly (mm)	Weight (kg)								
			(V)	(A)														
<b>E23F</b>	0.4	280	100	5	200-250	0.8	1,074	23×336	820	5.0								
	0.8						1,489		1,235	5.5								
	1.3						1,989		1,735	6.3								
	1.8						2,489		2,235	7.1								
<b>E28FP</b>	0.6					280	100	5	200-250	1.5	1,078	28×186	824	5.0				
	1.0										1,482		1,228	5.6				
	1.5										1,982		1,728	6.4				
	2.0										2,482		2,228	7.2				
<b>E32FP</b>	0.6									280	100	5	200-250	1.6	1,079	32×187	825	5.2
	1.0														1,483		1,229	5.9
	1.5														1,983		1,729	6.7
	2.0														2,483		2,229	7.4
<b>E38FP</b>	0.6	280	100	5	200-250									1.3	1,079	38×187	825	5.6
	1.0														1,483		1,229	6.2
	1.5														1,983		1,729	7.0
	2.0														2,483		2,229	7.8

※Input 220-240V available

## Flexible shaft



## ■ SPECIFICATIONS

Model	Output (W)	Input		Frequency (Hz)	Amplitude (mm)	Total Length (mm)	Head Dia.×Length (mm)	Weight (kg)
		(V)	(A)					
<b>E25DS</b>	280	100	5	216-250	1.2	756	25×447	4.9
<b>E23D</b>				225-259	0.6	865	23×556	4.9
<b>E28D</b>				200-242	1.8	784	28×475	5.0
<b>E32D</b>					1.8	807	32×498	5.6
<b>E23DL</b>				225-259	0.6	1,009	23×700	5.2
<b>E28DL</b>				208-250	1.8	1,015	28×706	5.8
<b>E32DL</b>				200-234	1.8	1,036	32×727	6.3
<b>E38DL</b>					1.5	1,042	38×733	7.4

※Input 220-240V available

## Hard shaft



## External



EKCA



EKD



Holder for EKCA, EKD



EPS

### ■SPECIFICATIONS

Model	Output (W)	Input		Frequency (Hz)	Amplitude (mm)	Total Length (mm)	Face/Head Dimension (mm)	Weight (kg)
		(V)	(A)					
EKCA W/Holder	280	100	5	150—167	0.6	404	76 × 113	4.7
				407		120 × 150	5.8	
EKD W/Holder				133—167	424	110 × 150	5.9	
				427	200 × 200	7.6		
EPS	225—259	0.5	496	80 × 190	5.3			

※ Input 220-240V available

## Surface finish



E32DP



E28DP



E32DH



E32DPS

### ■SPECIFICATIONS

Model	Output (W)	Input		Frequency (Hz)	Total Length (mm)	Face Dimension (mm)	Face/Head Dimension (mm)	Weight (kg)
		(V)	(A)					
E28DP	280	100	5	208—250	1,230	300 × 400	920	7.6
E32DP				1,138	820		7.5	
E32DPS				1,734	120 × 1,219	1,430	7.8	
E32DH				1,080	50 × 550	760	5.6	

※ Input 220-240V available

# HV Pendulum Internal Vibrator

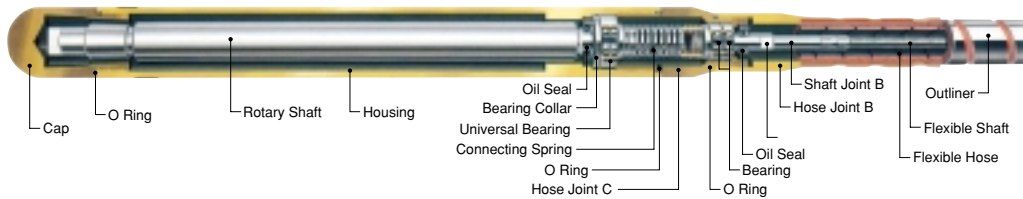
HV series vibrator overcomes the defects of conventional high revolution type vibrator by adopting special vibrating method giving excellent performance.

## Features

1. Rotational speed is about 3,000 r. p. m. which is about one-third that of conventional vibrator.  
Hence wear of the flexible shaft and other rotating parts is extremely little, reducing trouble to minimum.
2. Flexible shaft is not affected by vibration because it is connected to vibrator shaft through unique spring.
3. Flexible shaft can be connected to the prime mover in one motion without using any tool.



## EXEN HV45ZB Vibrator Cutaway View



## ■ SPECIFICATIONS

Model	Hose length (m)	Frequency (Hz)	Overall Length (mm)	Head (Dia.×L) (mm)	Weight (kg)
<b>HV28ZB</b>	4	158—200	4,559	28 × 420	10.1
	6		6,559		14.1
<b>HV32ZB</b>	4		4,562	32 × 423	10.1
	6		6,562		14.1
<b>HV38ZB</b>	4		4,585	38 × 440	11.2
	6		6,585		15.2
<b>HV45ZB</b>	4	4,596	45 × 451	12.3	
	6	6,596		16.1	
<b>HV60ZB</b>	6	150—200	6,593	60 × 448	19.1
	7		7,593		22.0



**Pendulum Vibrator**

## Drive Engine



**HVE-RF**



**HVE-FS**

## ■ SPECIFICATIONS

Model	Engine type		Output/Revolution (kW/min <sup>-1</sup> )	Weight (kg)
<b>HVE-RF</b>	Robin EY20-3D	4 cycle air-cooled Gasoline engine	2.5/3,400	25
<b>HVE-FS</b>				22

## Drive motor



**HVNF**

## ■ SPECIFICATIONS

Model	Output (W)	Voltage (V)	Current (A)	Frequency (Hz)	Revolution (min <sup>-1</sup> )	Weight (kg)
<b>HVNF</b>	1,000	200	4	50/60	2,850/3,450	20.4

※ Any Voltage available

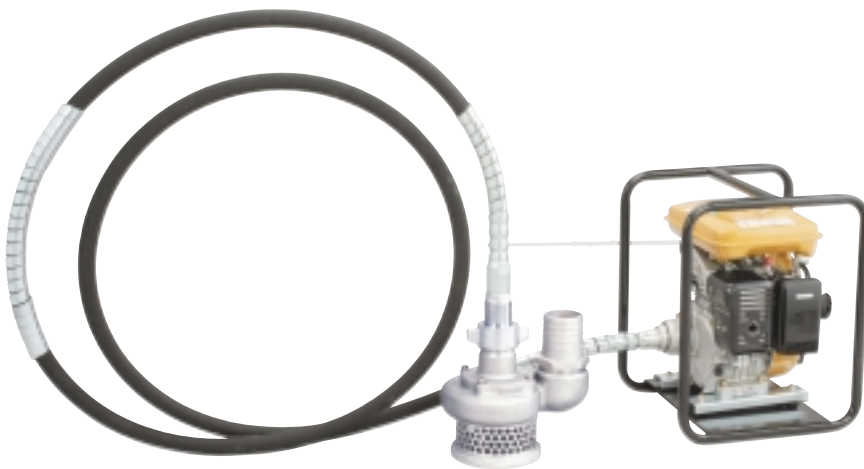
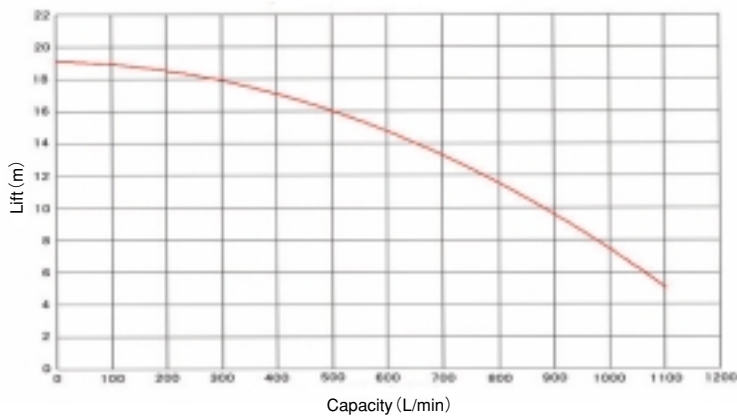
# Submersible Pump

## Feature

1. Adopted aluminum alloy housing.
2. Equipped specially designed oil seal “Mechanical seal” that has high durability.
3. Highly durable FCD is used for impeller.
4. In order to prevent adverse current of muddy water into the hose, attach bearings in 2 places of inside of hose coupling and attach another oil seal.
5. The above measure increases durability of hose and shaft.
6. Equipped protection liners in 3 places as standard.



## Performance curve



EFP80 Pump set



EFP80 Pump

## ■SPECIFICATIONS

Hose length (m)	Discharge Diameter	Max. Lift (m)	Max. Capacity (L/min)	Revolution (rpm)	Weight (kg)		
					Pump	Hose/Shaft	Total
6	76(3in)	19.1	1,103	3,400	6.9	19.3	26.2

# Concrete saw cutter

## FEATURES

1. Rise-and fall handle allows easy adjustment of cutting depth.
2. One-touch lock function for cutting depth
3. Stainless steel travel handle.
4. Large-scale polyethylene tank suitable long-time work.
5. Adapting exclusive valve provides easy water disposal and clean up in the tank.
6. Stainless steel blade cover
7. Blade holder adapts gravity drain functions that drain water in the shape of radiation to increase cooling effect, discharge of mud and maintain of sharpness.
8. One-point suspender metal allows easy lift-up / down.
9. 3VX belt has excellent durability to high load and high revolution while resisting its expansion.
10. Rust-prevention stainless steel belt cover
11. Machined ductile cast iron (FCD) chassis provides stabilized operation by the low gravity.



## Hand operation model



**ERC12CB**

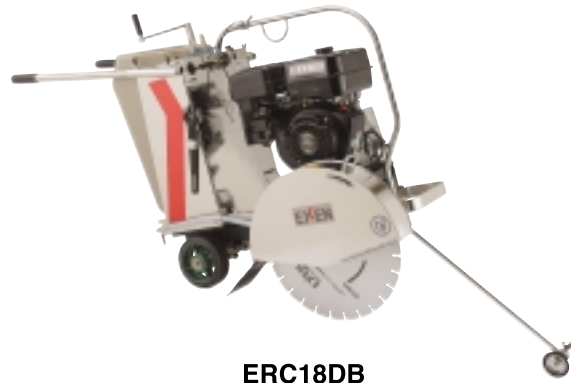


**ERC12B  
ERC14B**

## Semi self propelled operation model



**ERC14DB**



**ERC18DB  
ERC18DSB**

### ■ SPECIFICATIONS

Model	Performance							Dimension				Engine		
	Blade (mm)	Blade hole (mm)	Max. cutting depth (mm)	Cutting depth adjustment	Travel system	Blade cooling system	Water tank Capacity (L)	Overall Length (mm)	Overall width (mm)	Overall height (mm)	Weight (kg)	Model	Max. output (KW/min <sup>1</sup> )	Starting system
<b>ERC12CB</b>	256—306 (10in) (12in)	27	80—105	Hand Screw Type	Manual	Gravity injection	15	750	390	610	51.5	Robin EX17DK	4.2/4,000	Recoil
<b>ERC12B</b>			75—100			30	860	480	670	93				
<b>ERC14B</b>	256—356 (10in) (14in)		70—120								50	950	515	
<b>ERC14DB</b>			256—469 (10in) (18in)			70—175	Handle run	Gravity feed water system	50	1000				
<b>ERC18DB</b>	143				Robin EX27DK						6.6/4,000			
<b>ERC18DSB</b>	151	Robin EX27DSK		sell starting										



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