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EXEN CORPORATION  
TOKYO, JAPAN



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# Provides labor saving and safety in concrete placing work.

Improvement in work efficiency increases the quality of work by a few workers.



## Conventional concrete placing operation

In addition to the operator of the vibrator, assistant personnel for switch operation and cable management were required.



**Improved safety by no using gasoline engine.**  
You will choose to carry this type of vibrator.

## Features

### Shoulder style

Integrated battery and inverter. Pad with high cushioning to reduce the load on workers.



### Hand switch

Available to check the remaining battery level and to turn on/off the power supply.

### Vibrator

25 to 30% lighter than the conventional type. Workability improved and centrifugal force increased by 10%.

### Inverter

Small and lightweight, combined weight of the inverter and the battery is 8.5kg. High airtightness, overcurrent protection function and overheat protection function are installed.

### Battery

Large capacity power supply of 36V, 21Ah. The operation time of the vibrator is 3 hours (ECV40A). Built-in protection circuit to prevent overload, overdischarge and overcharge.



### Operation switch

Turn on/off the vibrator at hand is available.

## Specifications

Model	Hose (dia. x length)	Output (W)	Voltage (V)	Current (A)	Frequency (Hz)	Head size (dia. x length)	Hose size (dia. x length)	Weight (kg)
ECV40A	1.5	250	25	8.0	200	φ43x273	φ33x1,500	4.3
ECV50A	1.5 3.0	400		12.0		φ52x287		5.5 6.6

Model	Input			Output				External dimensions (mm)	Weight (kg)
	Capacity (W)	Voltage (V)	Current (A)	Capacity (W)	Voltage (V)	Current (A)	Frequency (Hz)		
ECV-15	500	36	14	450	25	12	400	164 x 90 x 55	1.1

Model	Capacity (Ah)	Voltage (V)	Operable time (w/ECV40A/ECV50A)	Charging time	External dimensions (mm)	Weight (kg)
BL36200	21	36	3Hour/2Hour	3Hour	500 x 250 x 115	7.4

\*Operable time is a calculated value based on battery capacity and current consumption. This will vary depending on the working environment.

## Concrete placing work using cordless high-frequency vibrator

The integrated battery and inverter can be carried on the back without disturbing the movement of both hands of the worker.



## In addition!

- Mobility increases by eliminating the need to handle long cables.
- Improvement of workability improves work quality.
- These improvements reduce the time it takes to prepare and cleanup work.

## 02 HV Pendulum internal vibrator

### Features

#### World standard with High durability

The self-centering bearing provides high durability and stabilized vibration.

#### Reliability "Japan quality"

The heat treatment applied to the vibrator head increases its hardness and provides long life.

#### Excellent Usability

Two-layer mesh constituting the hose reduces breakdown during concrete placement.



### Specifications

Model	Hose length (m)	Frequency (Hz)	Overall length (mm)	Head (Dia.xL) (mm)	Weight (kg)
HV28ZB	6	158-200	6,559	28x420	14.1
HV32ZB			6,562	32x423	
HV38ZB			6,585	38x440	
HV45ZB			6,596	45x451	
HV60ZB			6,593	60x448	
		150-200	6,593	60x448	19.1



## 03 HV Drive unit

### Features

Equipped with CC Robin and Honda engines

### Specifications

Model	Engine type	Output/revolution (kW/min-1)	Weight (kg)
HVE-RFA	Robin CC	2.5 / 3,400	25
HVE-FSB	EY20-3D	2.5 / 3,400	22
HVE-RH	Honda GX160	2.8 / 3,400	25
HVE-HS			22



HVE-RFA



HVE-FSB



HVE-RH



HVE-HS

## 04 Submersible pump



### Features

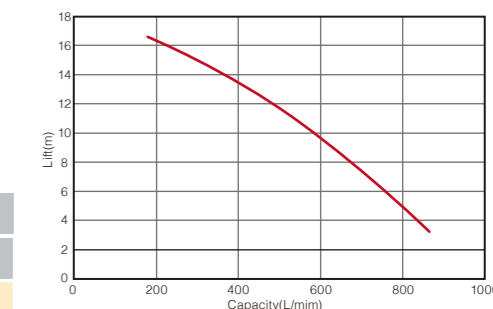
#### High durability

Equipped with specially designed "Mechanical oil seal" for maximum durability. Durable cast iron impeller and aluminum alloy casting design body provides long life use. Hose protection outliners in three places.



EFP80 Pump

Performance curve



### Specifications

Hose length (m)	Discharge diameter (mm)	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

### Beware of imitation!



Make sure that "TRUSTGRAM" is put on the product.

Make sure that the view through the "VIEWER" has changed like below.



HOLOGRAM



Not visible



Visible



HBM50VF



HBM50VF+INVERTER set

### Features

#### Improved working conditions

Reduction of vibration transmission to the hands and weight reduction increase working condition.

#### Improved quality of concrete products

High frequency vibration can create a robust, solid and smooth surface.

#### Various types of vibrators are available

According to various applications, a suitable model can be chosen.

Non using



Using



### Specifications

Model	Output (W)	Voltage (V)	Current (A)	Frequency (Hz)	Head (mm)	Hose (mm)	Weight (kg)
HBM30ZX	130	48	3.5	200/240	31x376	28x6,000	9.6
HBM40VF	250		5.5		43x348	33x6,000	12.1
HBM50VF	400		9.0		52x397	36x6,000	16.1
HBM60ZX	500		13.0		61x415		17.5

\*Weight includes cabtyre cable

\*3 types of head shapes are available. (Detail see next page)

### Multifunction vibrators

3 types of heads available



Fin type  
EXEN original



Round head  
Standard



Rubber head  
eliminate form work damage

#### Vibrator for slab pouring

CSV ideal configuration (the short and light head) for slab pouring.



CSV

#### Vibrator with extension pipe

ZXLH (its 1m long extension pipe) is suitable for tall concrete structure.



ZXLH

### Specifications

Model	Output (W)	Voltage (V)	Current (A)	Frequency (Hz)	Head (mm)	Hose (mm)	Weight (kg)
CSV50	250	48	5.5	200/240	52x244	33x1,500	8.5
HBM30ZXLH	130		3.5		31x376	28x4,000	12.1
HBM40VFLH	250		5.5		43x360		13.9

\*Weight includes cabtyre cable.

## 06 High frequency external vibrator



We can provide Japan quality product and solution with using our accumulated knowledge and experience.

### Features

#### Usability

Quick mount design allows one bolt mounting/dismounting.

#### Resist to steam curing (totally sealed design)

Unnecessary to dismount during steam curing.

#### Resist long time operation

Special motor design allows long time operation.



HKM75LFA



Hook base

### Specifications

Model	Output (W)	Voltage (V)	Current (A)	Frequency (Hz)	Vibration frequency (Hz)	Centrifugal force (kN)	Weight (kg)
HKM55LFA	550	48	12.5	100-240	50-120	8.80	16.5
HKM75LFA	750		17.0				

\*Weight includes cable.

## 07 High frequency electric converter



IP55 Water proof

### Features

#### Water proof

Aluminum die cast design provides IP55 water proof structure.

#### Durability

Solid frame and rubber vibration insulator improve the durability.

#### Reliability

HC series can provide stable output voltage which can provides maximum vibrator performance.



HC111B



HC113B/116B



HC230A

### Specifications

Model		Capacity (kW)	Voltage (V)	Current (A)	Frequency (Hz)	Outlet	Weight (kg)	
HC111B	Input	1.3	100	13	50/60	1	9.8	
	Output	1.03	48	12.4	240			
HC113B	Input	1.5	100	15	50/60	2	10.0	
	Output	1.3	48	15	240			
HC116B	Input	2.0	100	20	50/60			10.1
	Output	1.6	48	19	240			
HC230A	Input	3.8	200	11	50/60	3	15.5	
	Output	3.0	48	36	100-240			



## Features

### Frequency adjustable

Adjustable frequency function of H series make precast concrete robust, solid, smooth surface.

### Specially designed brush

Specially designed brush for EFC prevents premature damage of the machine.

### Cooling device

HAG series combine special fan cooling system to make the machine last longer.



H460(J)



EFC4B



HAG122MH



HAG134MHA

## Specifications

Model		Capacity (kW)	Voltage (V)	Current (A)	Frequency (Hz)	Weight (kg)	Remark
H460(J)	Input	7.9	380	12	50	50	Output 48V
	Output	6.0	48	72	100-240		
EFC4B	Motor	4.2	380	7.4	50	70	Output 380V
	Generator	4.0	48	48	200		
H460NT(J)	Input	12	380	18.2	50	32	Output 380V
	Output	9.1	380	15	100-240		
H4150NT(J)	Input	28	380	42.5	50	38	Output 48V
	Output	23	380	34.9	100-240		
HAG122MH	Output	2.2	48	26.5	240	36	Output 48V
	Engine	Honda GX160T2 VXJE	Output(kW) 3.6/2.9	Outlet 2nos.			
HAG134MHA	Output	3.4	48	40.9	240	40	Output 48V
	Engine	Honda GX200T2 VXJE	Output(kW) 4.1/3.7	Outlet 3nos.			



## Features

### No need cord and power supply

Easy operation at the construction site.

### Lithium battery adoption

Powerful and long life. 20-30 minutes continuous use.

### Comfortable operation

Compact, lightweight and ergonomic design absorb vibration for comfortable operation.



CKCA



C-power set



C1860L



B1840

C25DS



C28D



C28DL



C28F



## Specifications

Model	Battery	Run time (approx.min)	Frequency (Hz)	Total length (mm)	Head (mm)	Weight (kg)
C25DS	DC18V 4.0Ah	30	200	767	25x447	4.1
C28D		25		795	25x475	4.2
C28DL		25		955	28x635	5.0
C28F 0.6m		20		1,089	28x186	4.2
CKCA		20	125	415	76x113	3.9



«Features

**Durability**

Durable aluminum die cast motor case allows using for last long.

**Safety**

Dual insulation structure allows safety use.

**Comfortable**

Double anti-vibration handles design for comfortable operation.

E28FP 1.0m



E28FP 1.5m



«Specifications

Model	Hose length (m)	Output (W)	Voltage (V)	Current (A)	Frequency (Hz)	Total length (mm)	Head (mm)	Vibrator assembly (mm)	Weight (kg)
E23F	0.4	280	100	5.0	220-280	1,074	23x336	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
E28FP	0.6	110	4.5	210-270	1,078	28x186	824	5.0	
	1.0	115	4.3		1,482		1,228	5.6	
	1.5		1,982		1,728		6.4		
	2.0		2,482		2,228		7.2		
E32FP	0.6	200	2.5	210-270	1,079	32x187	825	5.2	
	1.0	220	2.3		1,483		1,229	5.9	
	1.5		1,983		1,729		6.7		
	2.0		2,483		2,229		7.4		
E38FP	0.6	230	2.2	210-270	1,079	38x187	825	5.6	
	1.0	240	2.1		1,483		1,229	6.2	
	1.5		1,983		1,729		7.0		
	2.0		2,483		2,229		7.8		



«Features

**Surface finish (E32DH, E32DP, E32DPS, EKCA)**

Extremely unique configuration vibrators provide smooth surface finish of concrete.

**Easy operation**

Simply insert along the wall of the concrete mold. (E32DH, E32DP, E32DPS)  
Simply push against the outside of the mold (EKCA)

**Usability**

Easy to use  
Hard shaft type vibrators (E-DS, E-D, E-DL) are easy to insert to the target point.



EKCA

«Specifications

Model	Output (W)	Voltage (V)	Current (A)	Frequency (Hz)	Total length (mm)	Head (mm)	Vibrator assembly (mm)	Weight (kg)
E25DS	280	100	5.0	235-285	756	25x447	447	4.9
E23D					865	23x556	556	4.9
E28D					784	28x475	475	5.0
E32D	280	115	4.3	200-250	807	32x498	498	5.6
E23DL					1,009	23x700	700	5.2
E28DL	280	200	2.5	220-270	1,015	28x706	706	5.8
E32DL					1,036	28x727	727	6.3
E32DH	280	220	2.3	225-275	1,070	50x550	761	5.6
E32DP					1,138	300x400	829	7.5
E32DPS	280	230	2.2	205-280	1,739	120x1219	1,430	7.8
EKCA					404	76x113	95	4.7



KC holder



# VIBACK



## Features

### For compacting mass concrete

Front assembly is developed for compacting mass concrete for hydropower dam.  
Our Front assembly called "Viback VB-AK series" have many delivery records in the world.

### Reduce labor cost

Vibrator front assembly dedicates reducing labor cost.  
It has 4-8 numbers of vibrators HIB150HDL, and is used by mounted on the excavator.  
The HIB150HDL vibrators generates powerful vibration which places concrete of 25 cbm/h. (per one vibrator)  
It reduces 35% labor cost compared with handheld vibrators.

### High durability and easy maintenance

Heat-treated ductile cast iron tip provides excellent wear resistance.  
Also, at the time of repair it is also possible to replace only the tip.

## Specifications

### Front assembly VB-AK series

Model	Number of vibrator	Concrete compacting ability (m <sup>3</sup> /h)	Excavator class (t)	Oil flow for vibrator at 18MPa (L/min)	Rounding	Weight (kg)
VB-70AK4F	4	100	6-8	60	Not available	620
VB-70AK4R	6	150	6-8	60	Not available	780
VB-130AK6R	6	150	12-13	110	Available	1200
VB-130AK8R	8	200	12-13	145	Available	1400



HIB-100



HIB-BSA



HD-2100A



VB-70AK4F

## Specifications

Model	Frequency (Hz)	Centrifugal force (kN)	Normal pressure (MPa)	Oil flow rate (L/min)	Head dia.xLength (mm)	Effective range (m)	Weight (kg)
HIB150HDL	117-133	13.6-17.8	20.6	14-16	150x850	1	68

Model	Output (W)	Voltage (V)	Current (A)	Frequency (Hz)	Centrifugal force (kN)	Length (mm)	Head dia.xlength (mm)	Effective range (mm)	Weight (kg)
HIB100A	1,500	200	7.5	120/125	8.83-9.56	924	101x664	0.8	41

Model	Capacity (KVA)	Voltage (V)	Current (A)	Frequency (Hz)	Weight (kg)	Number of vibrators (HIB100A)
HD2100A	Input	13	200	38	173	4
	Output	10		29		

Model	Voltage (V)	Permissible current of breaker (A)	Weight (kg)	Number of vibrators (HIB100A)
HIB-BSA	200	12	21	4



# 1 Battery track = 10 Humans power



## Features

### Powerful carrying capacity

The loadable weight on the flat land is 1ton, and on the slope and stairs 500kg.

### Labor cost

Reduce the number of workers.

### Battery powered vehicle

Environmentally-friendly.  
No exhaust gas.

## OPTION & ACCESSORIES



## Specifications

Model	Truck part size	Weight (kg)	Battery	Brake function	Load weight(kg)		Moving speed(m/min)		Operating time	Max gradability
					Flat land	Slope stair	Max speed	Slow speed		
TT-47	1,207x762x364	345	24V (12Vx2)	no	1000	272	13.4	6.7	3h	40°
TT-66	1,651x762x549	443				500				
TT-66HS		477		725	50	1.5h	40° NOT USE for staircase			
TT-72CHS	1,835x764x549	583						1-2h		

\*Common spec

Controller (wired/wireless), battery level indication, hour meter, operation indication lamp, buzzer during operation, angle sensor.



ES-2RA



«Features

**Just push it**

Just push the handle to sweep. No engine.

**Wide product range to fit various conditions**

Five kinds of sweepers provide good sweeping performance in various conditions.

**Battery operated brush (ES-B770 only)**

Due to adopting battery-powered brush, ES-B770 is much easier to push. Battery: 3 hours operating time. 12V 12Ah.

«Specifications

Model	ES-2RA	ES-390J	ES-550A	ES-770	ES-B770
Sweeping width (cm)	71.5	39	55	77	77
Sweeping performance (m/h)	2,500	1,360	1,920	2,690	3,230
Dirt container capacity (L)	20	1.6	20	50	50
Weight (kg)	27	7.2	7.2	13	21



CASTER



ES-770



Vertical storage space-saving and clean



Sealing lip & filter keep the dust in the machine



Brush down holder & side roller for easy sweeping along curbs and walls



Rush height adjustment ensure optimal cleaning performance on various types of surface



ES-550A



ES-B770



ES-390J



ES-390J BRUSH

ES-390J BOX