

EXEN

Assuring
High Quality Concrete
in Dam Construction.

VIBACK®

- Fast perfect consolidation
- Excellent durability and safety
- Easy operation and maintenance

DAM CONSTRUCTION VIBRATOR SERIES



EXEN CORPORATION

<http://www.exen.co.jp/>

EXEN Big Power In Dam

VBH-EH-SERIES

360° arm slewing and about 5m reach allow the placement of concrete within the range of 5m radius without the base machine traveling.

Operation equipment is arranged compactly in the cabin to enable easy operation of the vibrator and base machine.

Powerful water-cooled diesel engine has enough power to drive all equipments such as pump, arm, and vibrator with one engine.

The use of 3-gear pump separates the hydraulic circuit individually into vibrator circuit, and arm handling and traveling circuit. Handling of base machine and vibrator is achieved simultaneously and easily.

Triangular shoes 600mm wide installed on base machine provide smooth travel on about 3cm slump concrete.



Simultaneous, concentrated operation of 3 to 5 powerful hydraulic vibrators assures fast, perfect consolidation of stiff-consistency concrete in a short time.

The arrangement of vibrators is available in either of A or B arrangement, made possible by movable mount.

Vibrating components of vibrator are built in special steel pipe and bar, particularly, the head cap is treated with abrasion-resistant hard facing to maintain high durability against severe wear.

Hydraulic system composed of few parts allows easy maintenance. Hydraulic motor for driving vibrator is a high-speed, super-small geared motor of rigid construction.



VBH73		VBH74		VBH75	
A	B	A	B	A	B
● ● ●	● ● ●	● ● ● ●	● ● ● ●	● ● ● ● ●	● ● ● ● ●

■ Please ask our company or our agency about delivery time and purchase order.

Construction

HIB/HCC/BS-SERIES

HCC-type converter is the power source of HIB100 and HIB130 vibrator. Available in 4 models that differ in output capacity and input frequency. All models contain motor protective device.

When inquiring and ordering, input voltage and frequency should be specified.

HIB-BS distribution board is equipped with 6 output sockets, enabling preparatory vibrators to be connected. Each output socket is equipped with a device protecting the vibrator from overloading and single phasing, and also a device for preventing plug from coming out.

Manually operated vibrator HIB130 generates strong centrifugal force with its powerful motor. Small-sized, light-weight HIB100 displays excellent performance in auxiliary work of "VIBACK" as well as placement of concrete in medium-scaled or small dam construction. Head cap is treated with hard-facing on the surface of abrasion resistant special steel to resist tough jobs. Easy maintenance and use of excellent water-proof mold plug assure safety in operation.



● HCC-105



● HIB-BS



● HIB-100

● HIB-130



Feature of revolution structure

1. Revolution structure of the vibrator unit allows proper concrete placement in the area where desired.
 2. Applicable in anarrow place.
 3. There is no useless run of the base machine and officient operation can be provided.
- Revolution structure of the vibrator unit is an option. Please ask for EXEN or EXEN agency.



Feature of vibro-isolation structure

1. EXEN original vibro-isolation structure is applied.
2. Eliminate vibration transmitted to the base machine completely while applying 3 types of vibro-isolation rubbers.
3. Design of this vibro-isolation structure can be equivalent to all conditions.

■ VIBACK SPECIFICATIONS

Model	Base Machine	Engine rated output (kW/min ²)	Traveling speed (km/h)	Ground Pressure (cPa)	Overall length (approx) (mm)	Overall Width (approx) (mm)	Overall Height (approx) (mm)	Nos. of vibrators	Approx total weight (kg)
VBH73EH	HITACHI(ZX70)	40.5/2100	max5.0	25	7600	2720	2975	HB150H x 3	6840
VBH73EHL					7590			HB150HL x 3	6860
VBH74EH				26	7570			HB150H x 4	6920
VBH74EHL					7500			HB150HL x 4	6970
VBH75EH				27	7650			HB150H x 5	7360
VBH75EHL					7600			HB150HL x 5	7420

■ TYPE VIBRATOR

Model	Frequency (Hz)	Centrifugal Force (kN)	Normal pressure (MPa)	Oil flow rate (L/min)	Diameter (dia x length) (mm)	Effective range (m)	Weight (approx) (kg)
HB150H	116-134	13.6-17.8	15.7	14-16	150x581	1.0	51
HB150HL					150x651		63
HB150HG	116-125	17.1-19.6		21-23	150x1050		68

Please ask EXEN or EXEN agency about exchange time of vibrator.

Model	Output (kW)	Voltage (V)	Current (A)	Diameter length (mm)	Frequency (Hz)	Amplitude (mm)	Centrifugal Force (kN)	Effective range (m)	Weight (approx) (kgw)
HB130	1.85	200	9	φ131x660	120/125	2.8	11.8-12.7	1	48
HB100	1.5		7.5	φ100x644		3.2	8.83-9.56	0.8	41

Model	Output					Input			Approx weight (kgw)	No. of available Vibrators	
	Rated capacity (KVA)	Voltage (V)	Rated current (A)	Power Factor	Frequency (Hz)	Voltage (V)	Rated current (A)	Frequency (Hz)		HB130H	HB100H
HCC105	10	200	29	0.9	125	220-380	48.0	50	273	3	4

■ Specifications are subject to change at any time without notice.

EXEN CORPORATION

17-13 HAMAMATSUCHO 1-CHOME, MINATO-KU, TOKYO. 105-0013 JAPAN
 TEL 81-3-3434-8452 FAX 81-3-3434-8368