Mikasa

Construction Equipment

2023–2024

TAMPING RAMMER
PLATE COMPACTOR
REVERSIBLE COMPACTOR
VIBRATION ROLLER
CUTTER & BLADE
CONCRETE VIBRATOR

SPECIAL
CONSTRUCTION
EQUIPMENT

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e-catalogue

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#5 VIBRATION ROLLER

#6 CUTTER & BLADE

#7 CONCRETE VIBRATOR

#8 SPECIAL CONSTRUCTION EQUIPMENT

ICONS

VAS	Vibration Absorbing System	WATER	Water Tank
W FILTER	Double Air Filter	START	Electric Start
	Cyclone Air Filter	ϕ00	Diameter
TWIN	Twin Cyclone Air Filter	00V	Input Voltage with Three Phase
Tacho	Tacho Hour Meter	00V	Input Voltage with Single Phase
	Hour Meter		Double Insulation
LOW	Low Center of Gravity		Diesel / Gasoline / Battery

※ In the "Specifications", the background color of model no. is for diesel engines, and for gasoline engines.

※ Weight includes weight of machine, lubricants, 50% of fuel and 50% of water in case with water tank option.
Features and specifications are subject to change without notification.

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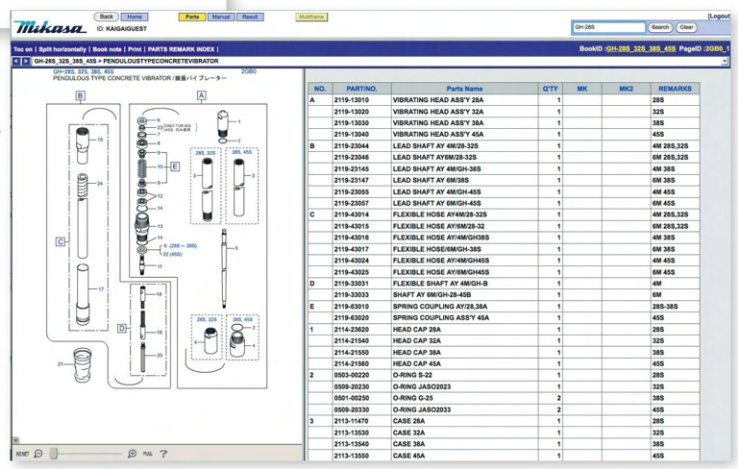


MIKASA NEWS

MIKASA Genuine products launched Bar-Code system to improve Distribution system

Tamping Rammer

Power Unit Series

● Selectable three speeds according to the roadbed condition and the work

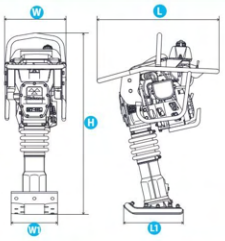
● Start and stop can be done with the push of a switch.

● Storage box for quick manual, etc.

NEW

MT-e55 (75kg)

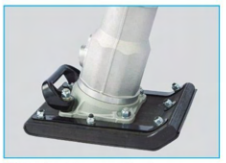
VAS



● VAS handle reduces hand vibration and protects electronic components.

● Protector/fan guard to protect motor/harness.

● Original Robust Bellows



● Original Rugged Foot

model	weight (kg)	dimensions (mm)	plate size (mm)	jumping stroke (mm)	impact force kN (kgf)	impact number per min.	power source kW (PS)
MT-e55	※75	H : 1,070 W : 350 L : 715	W1 : 265 L1 : 340	30-70	10.8 (1,100)	574-689	Honda DC Power Unit GXE2.0 1.6kW(2.2PS)

※ incl. power unit battery.

⊕ Option

■ Cart of Revolving type for MVC-e60

■ Water Tank(8.5L) for MVH-eR60

● Battery/Charger

DC Power Unit Battery

DC Power Unit Charger

※ It takes about 1.5 hours from no charge to full charge.
Continuous operation time when fully charged is about 30 minutes for rammer and about 40 minutes for plate.
(for a new battery)

power unit series emits no exhaust gas and does not pollute the air

Plate Compactor

Power Unit Series

● Rugged double compaction baseplate design

NEW

MVC-e60 VAS (88kg)

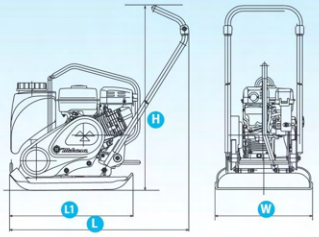
VAS WATER

● VAS Handle to reduce hand-arm vibration.

● Full-coverage belt cover

● Start and stop can be done with the push of a switch.

● 11L Water tank as standard.



model	weight (kg)	dimensions (mm)	plate size (mm)	vibrating frequency Hz (v.p.m)	centrifugal force(max) kN(kgf)	max.traveling speed(m/min)	max.limited gradeability (%)	power source kW (PS)
MVC-e60 VAS	※88	H : 995 L : 915	W : 350 L1 : 570	93(5,600)	10.1 (1,030)	25	35(20)	Honda DC power unit GXE2.0 1.6(2.2)

※ incl. power unit battery.

Reversible Compactor

Power Unit Series

● Start and stop can be done with the push of a switch.

NEW

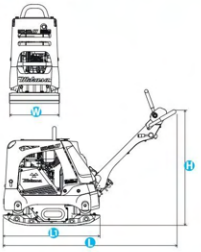
MVH-eR60 (81kg)

WATER

● Smooth forward/reverse operation by hand pump with built-in accumulator

● Guard frame for both dustproofing and ease of maintenance

● Height-adjustable handle (3 levels)



model	weight (kg)	dimensions (mm)	plate size (mm)	vibration frequency Hz(v.p.m)	centrifugal force (kgf)	max.traveling speed	power source kW (PS)
MVH-eR60	※81	H : 915 L : 920	W : 350 L1 : 480	108 (6,500)	12 (1,225)	24	Honda DC power unit GXE2.0 1.6(2.2)

※ incl. power unit battery.

Global Network since 1964'

MIKASA NEWS

Global Activity

Bauma in Germany

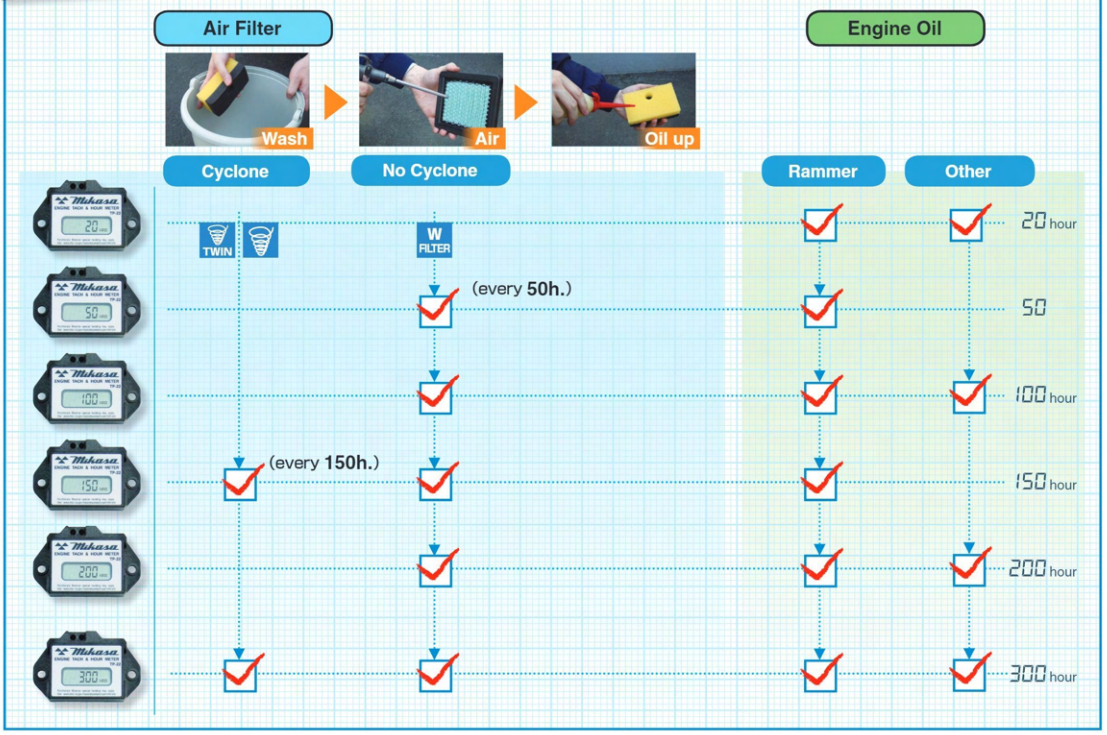
Hire22 in Australia

WoC in USA

information

MIKASA NEWS

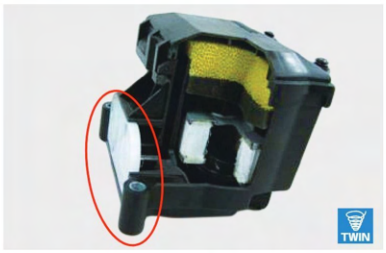
How to use Hour Meter



TAMPING RAMMER

Tamping Rammer (MTX series) 09
Tamping Rammer (MT series) 10
Trench Rammer 11
Diesel Rammer 11
Mikasa Carry 11

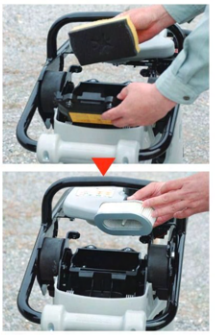
4 Stage Air Cleaner System

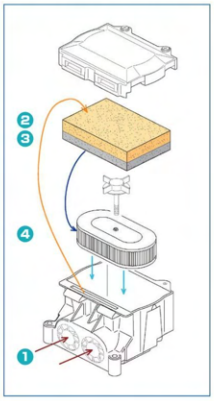


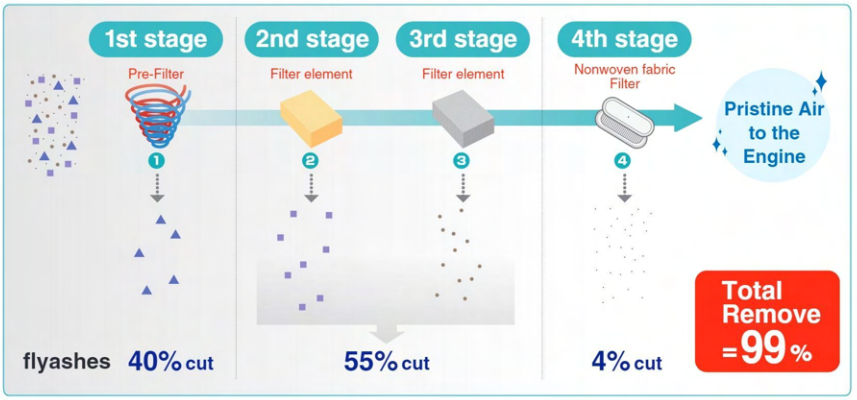
Large Twin Cyclone Air Cleaner

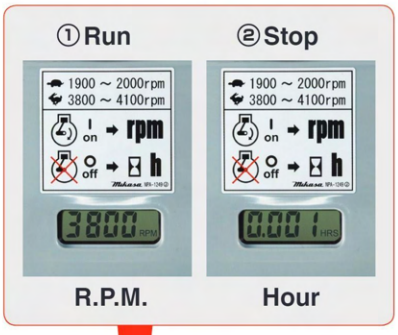
Large twin cyclone air cleaner has **300%** the dust holding capacity of our previous designs. (MTXseries)

Easy maintenance









2in1

Tacho Hour Meter

①Engine R.P.M.
When it is running, it shows R.P.M. and you can check it easily.

②Operating Time
When it is stopped, it shows total operating time and managing its runtime is easy.

360° Protection

Engine Protection A

Protect the engine from rain and dust. (MT-55・66・77)

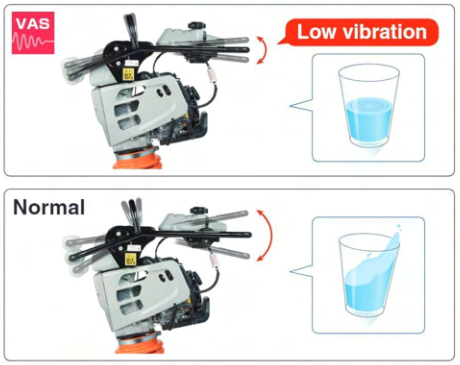
Engine Protection B C

The material of the side guard and engine guard is made of highly durable, superior shock-resistant resin that protects the entire surface of the engine.

Power-Packed Rammer

Each stroke fully tamps 30 to 80mm.※
※ This tamping height varies from model to model

Outstanding Operability



VAS Handle

Tamping Rammer utilizes a newly designed Vibration Absorbing System Handle that reduces **30 or 40 %** for vibration transferred to your hands (compared to our normal handle models) to work more efficiency.

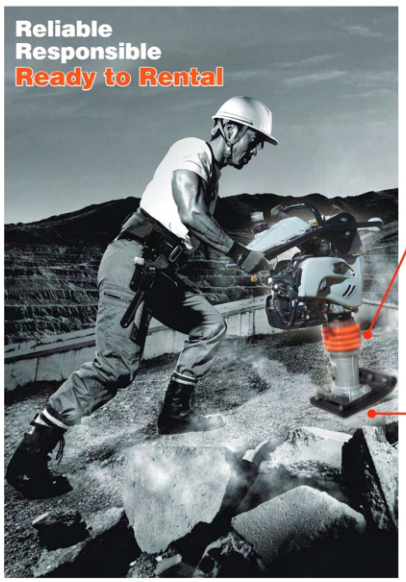
3in1

Throttle Lever with fuel cutoff mechanism interlocked kill-switch

Engine Stop Switch

Fuel Valve

Accelerating for Running / Stopping



Original Robust Bellows

Our bellows designed with meshed-pattern inner wall delivers an extremely stable tamping stroke that resists twisting.

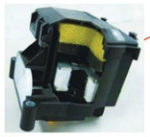
Original Rugged Foot

Mikasa's original foot is metal sheet assembly made from wear resistant, high tensile strength steel and laminated beech wood.

Tamping Rammer

MTX series

- The newly designed clutch drum is designed to automatically eject wear particles via centrifugal force.
- The shock rubber of handle has a pin to prevent falling down when the rubber is worn out.



Large Twin Cyclone Air Cleaner

VAS Handle

EVAPO Certificate

Tacho Hour Meter

Throttle Lever with fuel cut off mechanism inter looked kill switch

Engine Guard

movie

MTX-60 (64kg)

VAS Tacho TWIN

MTX-50 (60kg)

VAS Tacho TWIN

MTX-70 (75kg)

VAS Tacho TWIN

MTX-80 (82kg)

VAS Tacho TWIN

MTX Specifications

model	weight (kg)	dimensions (mm)	plate size (mm)	jumping stroke (mm)	impact force kN (kgf)	impact number per min.	fuel tank capacity (lits)	power source kW (PS)
MTX-50	60	H : 1,025 W : 350 L : 713	W1 : 265 L1 : 340	40-70	10.3 (1,050)	644-695	2.5	Honda GX100 gasoline max. output 2.1(2.9)
MTX-60	64			50-80	13.6 (1,390)			Honda GX100 gasoline max. output 2.1(2.9)
MTX-70	75	H : 1,027 W : 350 L : 788	W1 : 285 L1 : 340		14.9 (1,520)			Honda GXR120 gasoline max. output 2.7(3.6)
MTX-80	82				15.6 (1,590)			Honda GXR120 gasoline max. output 2.7(3.6)

Tamping Rammer

MT series

Engine Cover

VAS Handle

Pre air-cleaner with Twin Cyclone

Wear Resistant Foot

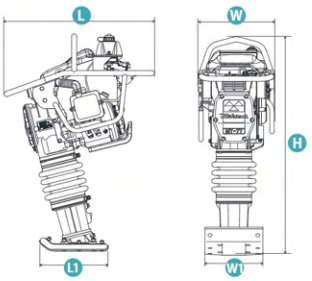
MIKASA Original Throttle Lever

Tacho Hour Meter

Recoil Guard

Bellows

MT-77HRL (77kg)
VAS Tacho TWIN



MT-55H (62kg)
VAS Tacho W FILTER

MT-66HL (72kg)
MT-66HRL (72kg)
VAS Tacho TWIN

Option

Trench Foot

For MTX-60•MT-55

W (mm)	H (mm)
114•165	340

For MTX-70•MT-66•77

W (mm)	H (mm)
114•165•200	340

For MTR-40H

W (mm)	H (mm)
100	305
120	500•800

MT Specifications

model	weight (kg)	dimensions (mm)	plate size (mm)	jumping stroke (mm)	impact force kN (kgf)	impact number per min.	fuel tank capacity (lits)	power source kW (PS)
MT-55H	62	H : 1,035 W : 370 L : 730	W1 : 265 L1 : 340	30-70	9.8 (1,000)	644-695	2.0	Honda GX100 gasoline max. output 2.1 (2.9)
MT-66HL	72	H : 1,070 W : 375 L : 740	W1 : 285 L1 : 340	50-80	12.7 (1,300)			Honda GXR120 gasoline max. output 2.7 (3.6)
MT-66HRL								
MT-77HRL	77				13.7 (1,400)			

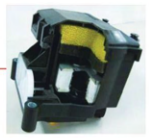
Trench Rammer

MTR-40H (47kg)

Diesel Rammer

MTX-85DY (93kg)

● VAS Handle



● Large Twin Cyclone

MTR Specifications

model	weight (kg)	dimensions (mm)	plate size (mm)	jumping stroke (mm)	impact force kN (kgf)	impact number per min.	fuel tank capacity (lits)	power source kW (PS)
MTR-40H	47	H : 1,110 W : 370 L : 620	W1 : 150 L1 : 270	40-55	5.4 (550)	644-695	2.0	Honda GX100 gasoline max. output 2.1 (2.9)

MTX Specifications

model	weight (kg)	dimensions (mm)	plate size (mm)	jumping stroke (mm)	impact force kN (kgf)	impact number per min.	fuel tank capacity (lits)	power source kW (PS)
MTX-85DY	93	H : 1,063 W : 410 L : 740	W1 : 285 L1 : 340	50-80	15.7 (1,600)	656-698	2.6	Yanmar L48N diesel max. output 3.5 (4.7)

Mikasa Carry

CART-RAMMER (11.0kg)

movie

MC-1B (8.0kg)
(for Multi purpose)

movie

● Hook
Easy to adjust

Cart Specifications

model	weight (kg)	dimensions (mm)	hook width (mm)	loading capacity (kg)
MC-1B	8.0	H : 1,065 W : 588	137 (inside) 243 (outside)	100

model	weight (kg)	dimensions (mm)
CART-RAMMER	11.0	H : 260 W : 490 L : 260

※ To use "CART-RAMMER", it need to be assembled grip except for MTX-series.

PLATE COMPACTOR

Plate Compactor (Heavy Duty line) 15
Plate Compactor (Standard line) 16
Inter-Locking Block Plate 17

Astonishing Durability

Special Ductile Compaction Base Plate

The base plate made by special ductile realizes significant high durability.
(MVC-40・50・T90・T100)

Design for Low center of gravity and Increasing the thickness of back part.

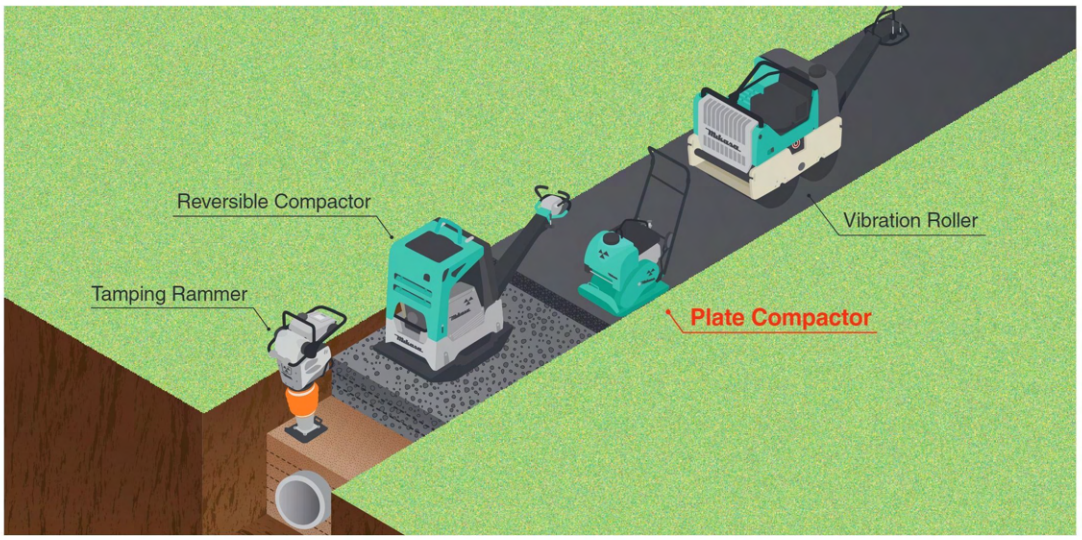
Rugged double compaction baseplate design

The back part of the compaction baseplate where wear is most prominent is a double baseplate design to deliver better durability when patching road surfaces or for other kinds of construction work.
(MVC-e60・F60・F70・F80)

Self lubricated vibrator system Patented

The vibrator which supplies oil in a vibrator case by using the rotation of an eccentric rotator gives a proper lubricating action to the bearings and makes the vibrator more durable.
(MVC-40・50・T90・T100)

Edge to Edge specialist



Option

Water Tank

- 9ℓ For MVC-40·50
- 11ℓ For MVC-e60·F60·F70
- 13ℓ For MVC-F80·T90·T100

Shut out Dust

Standard Handle + 3 Unique Handles

Folding Handle

When store or transport the compactor, Folding handle is useful, and it folds without any tools.
The notch type of grip bolt makes the handle lock into any position.

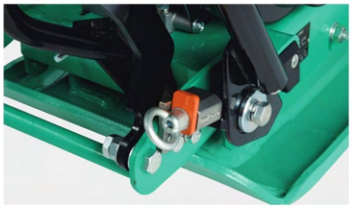
Long Handle

It supports high height operator for reduce stress.

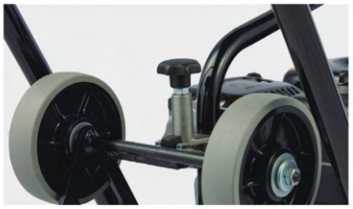
VAS Handle

Vibration Absorbing System Handle to reduce hand-arm vibration.

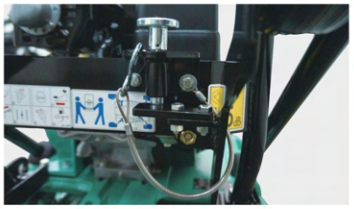
Cart of Revolving type (MVC-e60・F60・F70・F80・T90・T100)



Knob to fix handle
(e60・F60・F70・F80)



Stopper to fix cart
(e60・F60・F70・F80)



Wire to fix handle
(T90・T100)

Lifting Hook

The lifting hook is equipped as standard and makes loading and unloading the compactor easily.

Cart of Revolving type
For MVC-e60·F60·F70·F80·T90·T100

Cart of Standard type
For MVC-e60·F60·F70

Plate Compactor

Heavy Duty line

MVC-F60 VAS
(80kg)

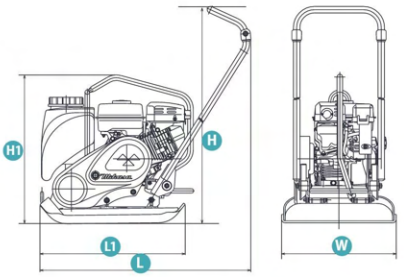
Increased Weight (kg)

model	Water Tank	Cart	Folding Handle	VAS Handle
MVC-40H	+6	nil	standard	nil
MVC-40HR	+6	nil	standard	nil
MVC-50H	+6	nil	+1	nil
MVC-e60	+8	+2	nil	standard
MVC-F60H	+8	+2	nil	+5
MVC-F70H	+8	+2	nil	nil
MVC-F80H	+9	+2	nil	+3
MVC-T90H	+10	+4	nil	+3
MVC-T100D	+10	+4	nil	+3

*The weight of tank is 50% of water.
ex.) MVC-F60H with Tank & Cart & VAS = increased "15kg"

MVC-F80 VAS
(92kg)

MVC-T90 VAS
(108kg)



model	HAV (Hand Arm Vibration) (M/sec²)
MVC-F60H VAS	3.3
MVC-F80H VAS	3.5
MVC-T90H VAS	2.6
MVC-T100D VAS	2.3

Remarks:
HAV is measured in comply with EU Directive2002/44/EC.
The value is shown as 3 axis min. vibration level.
Test course is in comply with EN500-4.
Test course: Crushed gravel

Option

Water Tank

8.5ℓ For MVC-50
9ℓ For MVC-40
11ℓ For MVC-F60/F70/e60
13ℓ For MVC-F80/T90/T100

Rubber Mat (Reversible Design) for T90/T100

MVC Specifications

model	weight (kg)	dimensions (mm)	plate size (mm)	vibrating frequency Hz (V.P.M.)	centrifugal force(max) kN (kgf)	max.traveling speed (m/min)	max.limited gradeability (%)	power source kW (PS)
MVC-F60H VAS	80	H : 995 H1 : 580 L : 915	W : 350 L1 : 570	93 (5,600)	10.1 (1,030)	25	35	Honda GX120 gasoline max. output 2.4 (3.3)
MVC-F80H VAS	92		W : 450 L1 : 570		13.7 (1,400)			Honda GX160 gasoline max. output 3.6 (4.9)
MVC-T90H VAS	108	H : 950 H1 : 560 L : 1,050	W : 500 L1 : 525	100 (6,000)	15.0 (1,530)			

Plate Compactor

Standard line

MVC-40
(50kg)

MVC-50
(59kg)

MVC-F60
(65kg)

MVC-F80
(78kg)

MVC-T90
(91kg)

MVC-T100D
(103kg)

MVC Specifications

model	weight (kg)	dimensions (mm)	plate size (mm)	vibrating frequency Hz (V.P.M.)	centrifugal force (max) kN (kgf)	max.traveling speed (m/min)	max.limited gradeability (%)	power source kW (PS)
MVC-40H	50	H :920 H1:610 L :910	W:298 L1:420	103 (6,200)	7.2 (730)	25	35	Honda GX100 gasoline max. output 2.1 (2.9)
MVC-40HR	51	H :920 H1:620 L :910	W:298 L1:420	103 (6,200)	7.2 (730)			Honda GXR120 gasoline max. output 2.3 (3.1)
MVC-50H	59	H :920 H1:545 L :915	W:345 L1:460	97 (5,800)	9.8 (1,000)			Honda GX120 gasoline max. output 2.4 (3.3)
MVC-F60H	65	H :865 H1:580 L :925	W:350 L1:510	93 (5,600)	10.1 (1,030)			
MVC-F70H	73		W:420 L1:510		12.0 (1,220)			Honda GX160 gasoline max. output 3.6 (4.9)
MVC-F80H	78		W:450 L1:570		13.7 (1,400)			
MVC-T90H	91	H :825 H1:560 L :1,100	W:500 L1:525	100 (6,000)	15.0 (1,530)			
MVC-T100D	103	H :825 H1:650 L :1,100						Yanmar L48N diesel max. output 3.5 (4.7)

Inter-Locking Block Plate

- Give interlocking blocks an even finish.
- The machine's hard rubber rollers make it virtually impossible to drag corner chips and small rocks that leave behind scratches along the surface of the blocks.
- MVB-85 is capable of exerting compaction pressure alongside walls.

MVB-85H (90kg)

NEW

MVB-152H (150kg)

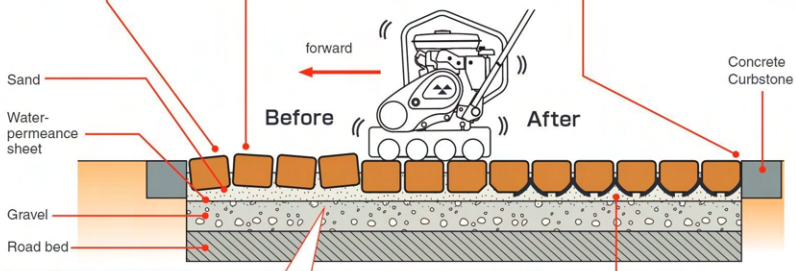
Handbrake

Point

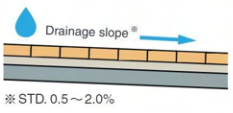
■360° FLAT OUT

■Easy to pull back

Moscow, Russia



In order to create a robust water gradient for rainwater to flow on the sand layer, it is crucial that reliable compaction work be done at the roadbed making stage. Mikasa's Reversible compactors and Rammers are indispensable to your roadbed compaction work.



The sand will gradually rise from bottom and increase its adhesion because of the vibrations. So you don't need to buy expensive sand and saving money.

■Folding Handle

You can fold the handle without any tools and load on Light Van.

MVB Specifications

model	weight (kg)	dimensions (mm)	plate size (mm)	vibrating frequency Hz (V.P.M.)	centrifugal force (max) kN (kgf)	power source kW (PS)
MVB-85H	90	H :920 H1:645 L :890	(rubber roll) W :320 Dia:73	93 (5,600)	10.1 (1,030)	Honda GX120 gasoline max. output 2.4(3.3)
MVB-152H	150	H :950 H1:662 L :1,038	(rubber roll) W :556 Dia:86	97 (5,800)	15.2 (1,550)	Honda GX160 gasoline max. output 3.6 (4.9)

REVERSIBLE COMPACTOR

Reversible Compactor (Compaction Sensor Models) 21
Reversible Compactor 22

Getting you on the job as quickly and absolutely as possible

VAS Handle Patented

Vibration Absorbing System handle reduces hand-arm vibration. Even if use long time, the burden for your body is not large.

Forward/Reverse control lever Patented

The control lever has been engineered with a built-in actuator that improves the forward/reverse switch over operational response so that you can smoothly switch over between forward and reverse.

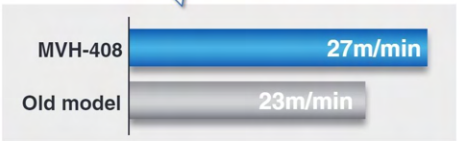
Oslo, Norway

Low center of gravity Design

Travel speed comparison

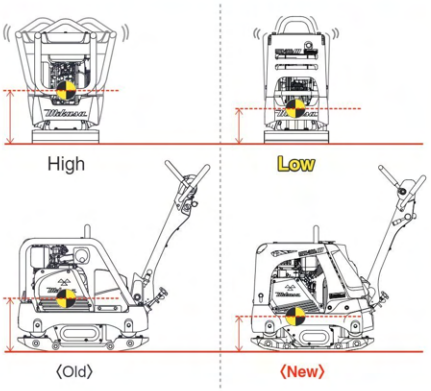
The compactor's travel speed is 20% faster with the new designed compaction plate.

Approx. 20% faster!



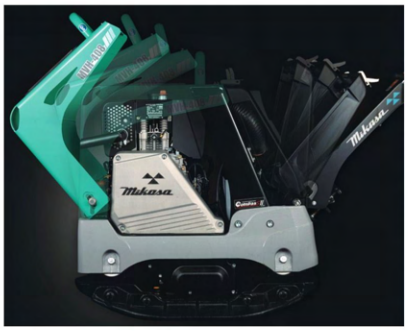
Integrated vibrating plate

Brand-new Vibrating Plate made by advanced Automotive technology.



Tough and rugged body, and advanced engineering to prevent damage

The compactor is designed monocoque structure integrated with front cover



The light weight and highly rugged front cover protects engine from gravel or external damage, and benefit easy maintenance, and enable to wash by high pressure pump.
(MVH-128～508)

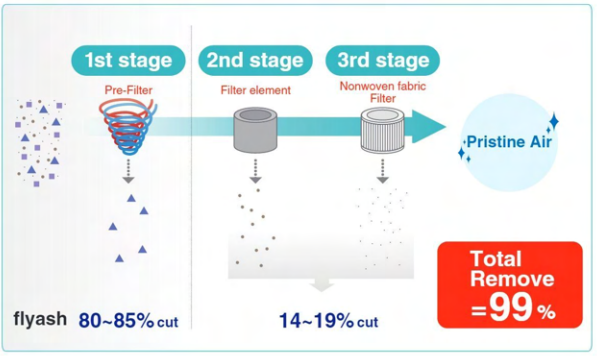
Cyclone pre cleaner equipped as standard has 400% superior dust filtering efficiency.

(compared with our previous models)

We have placed cyclone pre cleaner inside of rear cover which has superior dust filtering efficiency and it improves maintenance efficiency. For MVH-508, a high-powered twin cyclone pre cleaner suited for the large engine is equipped.

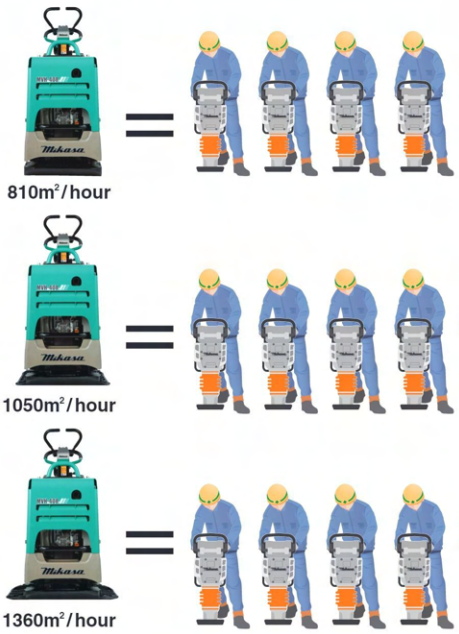
Cyclone pre cleaner
(MVH-128 ～ 408)

Twin cyclone pre cleaner
(MVH-508)



Saving your time

Extension Plate



Compaction Area/Hour

	MODEL	Operating Weight	Impact Force Centrifugal Force	Width		Travel Speed	Travel Distance/ hour	Compaction Area/hour
		kg	kgf	mm	m (A)	m/min	m (B)	m² (A X B)
	MT-55H	62	1000	265	0.265	11	660	174.9
	MT-66HL	72	1300	285	0.285	13	780	222.3
①	MT-77HRL	77	1400	285	0.285	12	720	205.2
	MVH-308DSY	341	4600	445	0.445	27	1620	720.9
②	MVH-408DSY	407	5100	500	0.500	27	1620	810.0
	MVH-508DSZ	525	6600	650	0.650	29	1740	1131.0

① 0.285m (A) x 12m /min. x 60min. /hour = 205.2m² /hour
② 0.500m (A) x 27m /min. x 60min. /hour = 810m² /hour

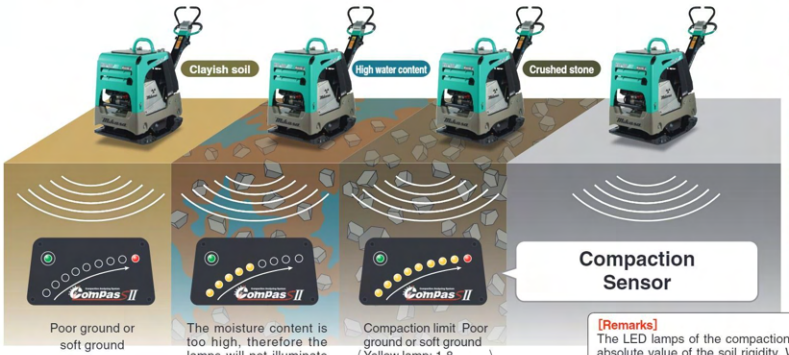
Option

Extension Plate

For MVH-308, 408, 508 (75,150mm)

※ MVH-508 is equipped Extension Plate 75 mm as standard.

Compaction Sensor "Compas II"



Poor ground or soft ground

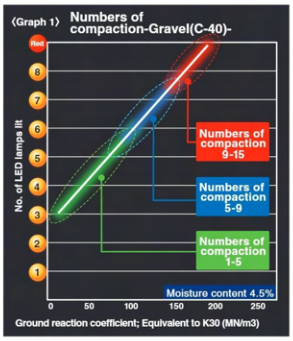
The moisture content is too high, therefore the lamps will not illuminate any further. In some cases, the number of lamps that light up will decrease.
※See graph 2

Compaction limit Poor ground or soft ground
(Yellow lamp: 1-8
Red lamp: Illumination)
※See graph 1

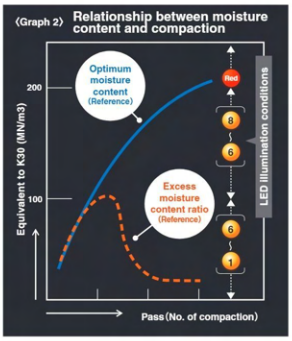
[Remarks]
The LED lamps of the compaction sensor do not show the absolute value of the soil rigidity. When using this machine always conduct tests such as the plate load test and dynamic load test (FWD) to determine the correct soil rigidity suitable for the work, and do calibration of the actual measured value and the LED illumination level.

movie

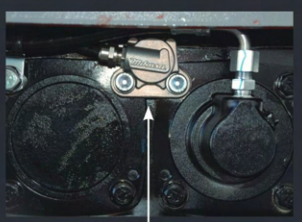
〈Graph 1〉 Numbers of compaction-Gravel(C-40)-



〈Graph 2〉 Relationship between moisture content and compaction



Relationship between soil rigidity and LED lamps



The number of LED lamps that are lit is proportional with the soil rigidity.
If the moisture content of the soil is too high, its rigidity may drop even after compactions are repeated, and because of this, the number of illuminated LED lamps will also decrease.

※ Product features:MVH-308DS-PAS

Reversible Compactor

(Compaction Sensor Models)

MVH-408DS-PAS

(408kg)

Mikasa original Diesel Engine Tacho Hour Meter.

Ref.
1.5～2.0ton w.450
2.5～3.0ton w.500
3.0～5.5ton w.650

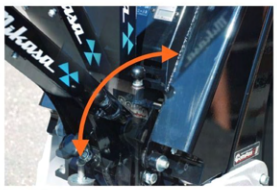
MVH-508GHS-PAS (440kg)
MVH-508DS-PAS (525kg)

MVH-308DS-PAS

(345kg)

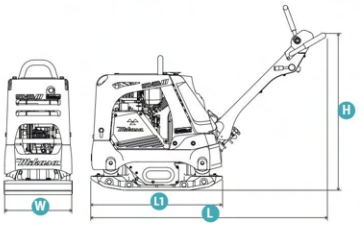
movie

Point



Self locking system

Lifting hook



MVH Specifications

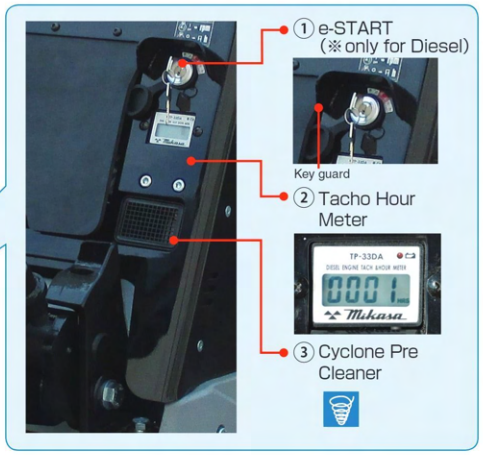
model	weight (kg)	dimensions (mm)	plate size (mm)	vibrating frequency Hz (V.P.M.)	centrifugal force (max) kN (kgf)	max. traveling speed (m/min)	max.limited gradeability (%)	power source kW (PS)
MVH-308DSZ-PAS MVH-308DSY-PAS	345 341	H : 1,030 L : 1,540	W : 445 [595] L1 : 860	73 (4,400)	45.0 (4,600)	27	30	Hatz 1B30 diesel (electric start) max. output 4.9 (6.7) Yanmar L70N diesel(electric start) max. output 4.9 (6.7)
MVH-408DSZ-PAS MVH-408DSY-PAS	408 407	H : 1,030 L : 1,570	W : 500 [650] L1 : 900		55.0 (5,600) 50.0 (5,100)	28 27		Hatz 1B50 diesel (electric start) max. output 6.7 (9.1) Yanmar L100N diesel (electric start) max. output 7.0 (9.5)
MVH-508DSZ-PAS	525	H : 1,070 L : 1,600	W : 650 L1 : 900	69 (4,150)	65.0 (6,600)	29		Hatz 1D81 diesel (electric start) max. output 8.9 (12.1)
MVH-508GHS-PAS	440	H : 1,030 L : 1,570	W : 650 L1 : 900	73 (4,400)	60.0 (6,120)			Honda GX390 gasoline (electric start) max. output 8.7 (11.8)

※ For plate size, 【Figure】 shows plate size with standard Extension plate (75mm) on each side.

Reversible Compactor

- Smooth forward and reverse drivability make it proper for compaction work in trenches.
- Light sizes are ideal for paving asphalt.

MVH-508DS
(525kg)



MVH-408DS
(408kg)

MVH Specifications

model	weight (kg)	dimensions (mm)	plate size (mm)	vibrating frequency Hz (V.P.M.)	centrifugal force (max) kN (kgf)	max. traveling speed (m/min)	max.limited gradeability (%)	power source kW (PS)
MVH-408DSZ MVH-408DSY	408 407	H : 1,030 L : 1,570	W : 500 【650】 L1 : 900	73 (4,400)	55.0 (5,600) 50.0 (5,100)	28 27	30	Hatz 1B50 diesel (electric start) max. output 6.7 (9.1) Yanmar L100N diesel (electric start) max. output 7.0 (9.5)
MVH-508DSZ	525	H : 1,070 L : 1,600	W : 650 L1 : 900	69 (4,150)	65.0 (6,600)	29		Hatz 1D81 diesel (electric start) max. output 8.9 (12.1)
MVH-408GH	364	H : 1,030 L : 1,570	W : 500 【650】 L1 : 900	73 (4,400)	55.0 (5,600)	28		Honda GX390 gasoline max. output 8.7 (11.8)
MVH-508GHS	440		W : 650 L1 : 900		60.0 (6,120)	29		Honda GX390 gasoline (electric start) max. output 8.7 (11.8)

※ For plate size, 【Figure】 shows plate size with standard Extension plate (75mm) on each side.

Reversible Compactor

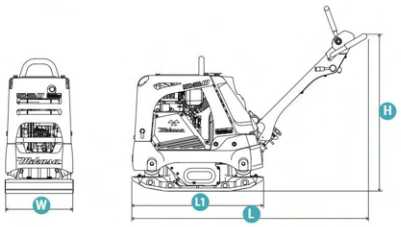
MVH-308DS
(345kg)

VAS LOW Tacho START ※

WATER
Only for Hatz

MVH-208DS
(240kg)

VAS LOW Tacho START ※



MVH Specifications

model	weight (kg)	dimensions (mm)	plate size (mm)	vibrating frequency Hz (V.P.M.)	centrifugal force (max) kN (kgf)	max. traveling speed (m/min)	max.limited gradeability (%)	power source kW (PS)
MVH-208DSZ MVH-208DSY	240 237	H : 1,010 L : 1,310	W : 500 L1 : 720	87 (5,200)	37.0 (3,772) 35.0 (3,570)	27 26	30	Hatz 1B30 diesel (electric start) max. output 4.9 (6.7) Yammer L70N diesel (electric start) max. output 4.9 (6.7)
MVH-209DSY MVH-209DSZ	247 243		W : 600 L1 : 720			26		
MVH-308DSY MVH-308DSZ	341 345	H : 1,030 L : 1,540	W : 445 [595] L1 : 860	73 (4,400)	45.0 (4,600)	27		
MVH-208GH	210	H : 1,010 L : 1,310	W : 500 L1 : 720	87 (5,200)	37.0 (3,772)			Honda GX270 gasoline max. output 6.3 (8.6)
MVH-209GH	217		W : 600 L1 : 720			26		
MVH-308GH	310	H : 1,030 L : 1,540	W : 445 [595] L1 : 860	73 (4,400)	45.0 (4,600)	27		

※ For plate size, 【Figure】 shows plate size with standard Extension plate (75mm) on each side.

MVH-158
(165kg)

VAS LOW Tacho WATER

only for Gasoline

MVH-128
(122kg)

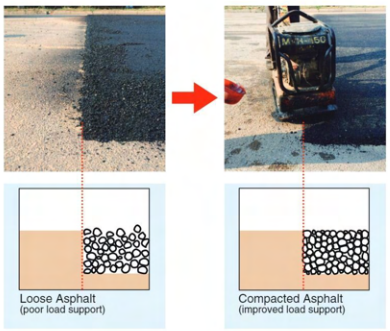
VAS LOW Tacho WATER

MVH-R60
(68kg)

Tacho WATER

Point

Asphalt Patching



Option

Water Tank

8.5ℓ For MVH-R60

11ℓ For MVH-128/158GH

13ℓ For MVH-308DSZ

movie

Option

Moving Cart

For MVH-128/158

For MVH-R60

For MVH-208/209

MVH Specifications

model	weight (kg)	dimensions (mm)	plate size (mm)	vibrating frequency Hz (V.P.M.)	centrifugal force (max) kN (kgf)	max. traveling speed (m/min)	max.limited gradeability (%)	power source kW (PS)
MVH-R60H	68	H : 955 L : 870	W : 350 L1 : 480	100 (6,000)	15.0 (1,530)	25	30	Honda GX120 gasoline max. output 2.4 (3.3)
MVH-128GH	122	H : 965 L : 1,030	W : 400 L1 : 590	90 (5,400)	23.5 (2,400)	27		Honda GX160 gasoline max. output 3.6 (4.9)
MVH-158GH	148	H : 980 L : 1,140	W : 430 L1 : 700		27.0 (2,755)			Honda GX200 gasoline max. output 4.3 (5.8)
MVH-158DZ MVH-158DY	165 162				27.0 (2,755) 25.0 (2,551)	27 26		Hatz 1B20 diesel max. output 3.1 (4.2) Yammer L48N diesel max. output 3.5 (4.7)

ISO Certified Factories

Tatebayashi / Kasukabe / TLIP II, Vietnam

ISO9001, the international standard for quality management systems, is designed to achieve customer satisfaction and continuous improvement of quality management systems through quality assurance.

The ISO14001 international standard for environmental management systems is a management system that aims to reduce environmental risks, contribute to the environment, and achieve compatibility with business management.

Our Tatebayashi and Kasukabe factories have acquired both certifications. In addition, in January 2021, our Vietnam Plant acquired ISO9001 certification.

We will continue to make further improvements to realize customer requirements and reduce environmental impact, and to create better products that will satisfy our customers.

ISO Management System Certificates

since 1954'

since 1962'

since 2010'

Tatebayashi (Japan)

Kasukabe (Japan)

TLIPⅡ (Vietnam)

VIBRATION ROLLER

Vibration Roller 29

Safety Operation

Deadman Brake

Deadman brake prevents accidents when backing up the machine.

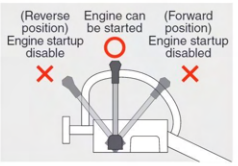
Deadman brake

Head Light and Rubber Bumper

Head LED Light suited nighttime work is equipped as standard. Rubber Bumper is equipped as standard to protect the machine from the impact of frontal collisions.

Self-start safety design

Engine self-start is a safety feature that is designed to prevent the engine from starting if the travel lever is not in the neutral position.



Soft Start

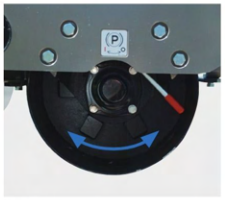
Prevent Drum-mark against surface of paving asphalt.

Safety Transportation

To transfer safety by a truck

To prevent slide off, be sure to use **Drum stopper** and **Handbrake**.

Drum stopper



Handbrake

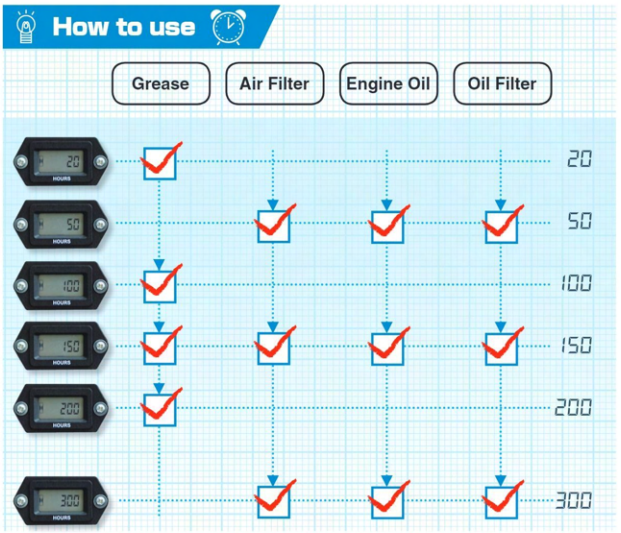
Safety design

The mechanism is worked to suppress runaway on a hill (when the engine is stopped). Be sure to park the machine on a flat area.

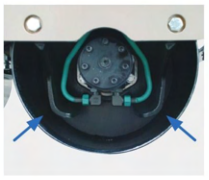
Periodically Maintenance

Hour Meter is equipped as standard.

Hour meter is equipped as standard. It lets you check work and maintenance time. (MRH-501DS・601DS・700DSCB)



Hydraulic Pipe Guard



One-Touch-Open Center Cover

Saving your time

Work efficiency

2,000m²/hour

Compaction Area/Hour

	MODEL	Width		Speed	traveling distance/hour	Compaction area/hour
		mm	m(A)	m/min	m	m²
①	MVC-F60	350	0.350	25	1500	525.0
②	MRH-601DS	650	0.650	50	3000	1950.0
	MRH-700DS					

① 0.350m (A) x 25m/min. x 60min/hour = 525m²/hour
② 0.650m (A) x 50m/min. x 60min/hour = 1,950m²/hour

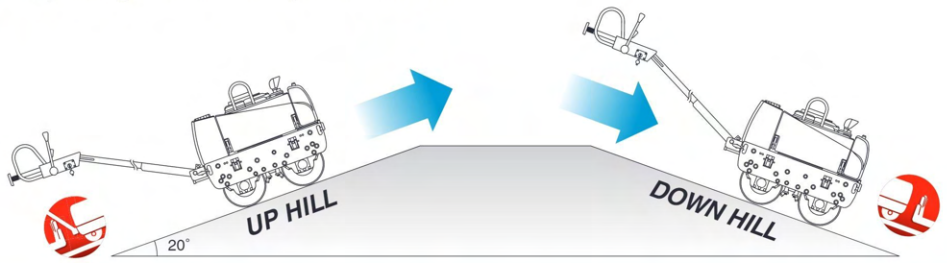
Design for fine visibility

The design for low-center of gravity lets you see easily in front of the roller.

Excellent side clearance

The small side clearance between drum and frame makes you align easily.

Safety Design for both of Up and Down hill

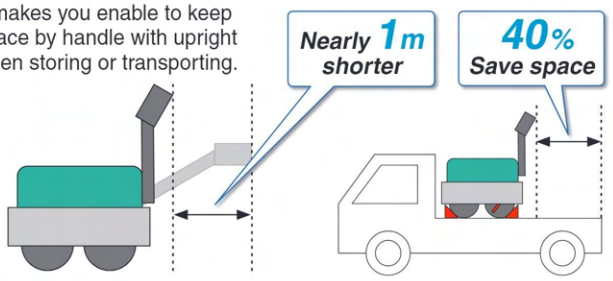


Engine Guard

Engine guard is equipped as standard to prevent damage to engine during working close to a wall.

Compact Design

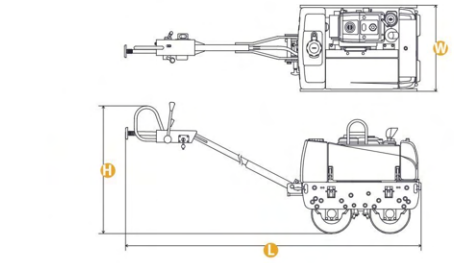
It makes you enable to keep space by handle with upright when storing or transporting.



Vibration Roller

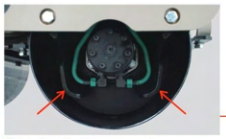
- Mikasa's original strainer and plastic water tank prevents the sprinkler pipes from clogging.
- The durability of travel motor have been improved.
- Rubber Bumper is equipped as standard to absorb the impact from frontal collisions lessening the damage to the machine.
- Head LED Light suited nighttime work is equipped as standard.

MRH-601DS (551kg)

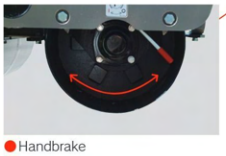


● One-Touch Center Cover

● Head LED Light and Rubber Bumper


● Hydraulic Pipe Guard

● Engine Guard


● Handbrake

● Drum Stopper

● Deadman Brake

● Buzzer and Light Switch

● Vibration Switch

● Hour Meter

MRH Specifications

model	weight (kg)	dimensions (mm)	drum size (mm)	vibrating frequency Hz (V.P.M.)	centrifugal force kN (kgf)	traveling speed (km/h)	max.limited gradeability (%)	water tank (lits)	power source kW (PS)
MRH-601DS (water cooled)	551	H : 1,195 W : 692 L : 2,265	dia : 355 width : 650	55 (3,300)	10.8 (1,100)	0-3	35	30	Kubota EA330 diesel (electric start) max. output 4.6 (6.3)

MRH-700DSCB (700kg)

● Recoil Start
(MRH-700DSCB/700GS)

MRH-700GS (680kg)

MRH Specifications

model	weight (kg)	dimensions (mm)	drum size (mm)	vibrating frequency Hz (V.P.M.)	centrifugal force kN (kgf)	traveling speed (km/h)	max.limited gradeability (%)	water tank (lits)	power source kW (PS)
MRH-501DS (water cooled)	530	H : 1,195 W: 617 L : 2,265	dia : 355 width : 575	55 (3,300)	10.0 (1,020)	0-3	35	30	Kubota EA330 diesel (electric start) max. output 4.6 (6.3)
MRH-700DSB (water cooled)	728	H : 1,170 W: 692 L : 2,670	dia : 406 width : 650		23.5 (2,400)			40	Yanmar TF70V diesel (electric start) max. output 5.5 (7.5)
MRH-700DSCB (air cooled)	700								Yanmar L100N diesel (electric start) max. output 7.4 (10.0)
MRH-700GS	680								Honda GX390 gasoline (electric start) max. output 8.7 (11.8)

Product Information

	Applied engine	Operating E/G speed(rpm)	Fuel tank capacity(liters)	Engine oil capacity(cc)	V-belt size numbers	Spark plug NGK
TAMPING RAMMER						
MT-55H	Honda GX100	3,800 - 4,100	2.0	280	–	CR5HSB
MTX-60	Honda GX100	3,800 - 4,100	2.5	280	–	CR5HSB
MTX-70	Honda GX100	3,800 - 4,100	2.5	280	–	CR5HSB
MT-66HL	Honda GX100	3,800 - 4,100	2.0	280	–	CR5HSB
MT-77HRL	Honda GXR120	3,800 - 4,100	2.0	280	–	CR5HSB
Plate Compactor						
MVC-50H	Honda GX120	3,600	2.0	560	RPF-3270 x 1	BPR6ES
MVC-F60H	Honda GX120	3,600	2.0	560	RPF-3310 x 1	BPR6ES
MVC-F80H	Honda GX160	3,600	3.1	580	RPF-3310 x 1	BPR6ES
MVC-T90HC	Honda GX160	3,600	3.1	580	RPF-3330 x 1	BPR6ES
MVC-T100DC	Yanmar L48N	3,600	2.4	800	RPF-3380 x 1	–
Reversible Compactor						
MVH-R60H	Honda GX120	3,600	2.0	560	RPF-3320 x1	BPR6ES
MVH-128GH	Honda GX160	3,600	3.1	580	RPF-3330 x1	BPR6ES
MVH-158GH	Honda GX200	3,600	3.1	600	RPF-3350 x 1	BPR6ES
MVH-208DSY	Yanmar L70N	3,100	3.3	1,100	HDPF-5390 x1	–
MVH-308DSZ	Hatz 1B30	3,350	5.0	1,100	HDPF-5430 x1	–
MVH-308DSY	Yanmar L70N	3,600	3.3	1,100	HDPF-5440 x1	–
MVH-408DSZ	Hatz 1B50	2,350	5.0	1,500	HDPF-5460 x 1	–
MVH-408DSY	Yanmer L100N	3,200	5.4	1,600	HDPF-5440 x 1	–
MVH-508DSZ	Hatz 1D81	2,350	7.0	2,000	HDPF-5480 x 2	–
Vibration Roller						
MRH-601DS	Kubota EA330	2,650	4.8	1,300	A-36 x 1	–
MRH-700DSCBY	Yanmar L100N	2,500	5.4	1,600	A-38 x 2, 3V-300 x 1	–
Concrete Cutter						
MCD-L14H	Honda GX200	3,600	3.1	580	3V-265 x 3	BPR6ES
MCD-218CEH	Honda GX390	3,600	6.1	1,100	A34 x 4	BPR6ES
Other Models						
GE-5LH	Honda GX160	3,200	3.1	600	–	BPR6ES
MPT-36H	Honda GX160	3,300	3.1	600	A30 x 1	BPR6ES
FG-210H	Honda GX120	3,750	2.0	560	–	BPR6ES
FG-310H	Honda GX270	3,600	5.3	1,100	–	BPR6ES

*Specifications are subject to change without notification.
*This information is for the reference purpose only.

CUTTER & BLADE

Concrete Cutter 34
Wet type Diamond blade 35

Wet type

(MCD-218・L14・T18H)

Equipment for outstanding functionality

■Semi-Auto Drive

Up/Down for blade and Cutting work by handles.

■Tacho Hour Meter

(MCD-218・T18H)

■Electric Start

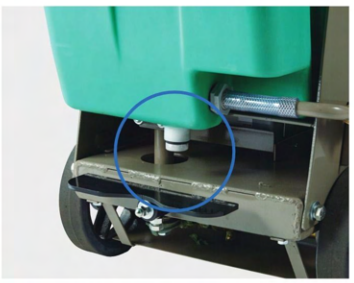
(MCD-218)

■Manual brake

(MCD-218)

■Differential Lock Mechanism

The rear wheels are equipped with a differential lock mechanism for better straight-line stability. (MCD-218)



■Drain Water Pipe

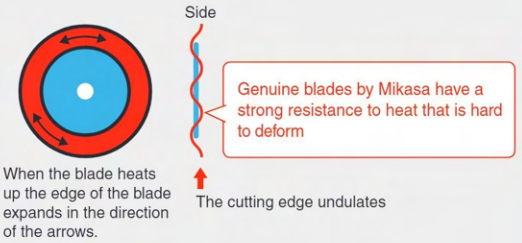
(MCD-218・L14・T18H)

■Lifting Hook

(MCD-218・L14・T18H)

■High quality unique to genuine products

Mikasa genuine blades for both of wet and dry cutting are engineered to regulate heat so that they deform less when hot.

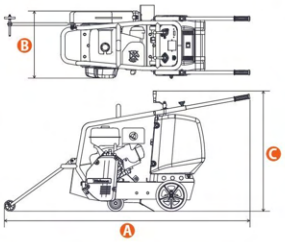


Concrete Cutter

- Easy Blade Setting with Ultra Light Blade Cover
- Cutting gauge in the panel for comfortable depth adjustment
- Large and sleek Water Tank (50L) for easy to check and clean up
- Cyclone pre cleaner for superior dust filtering and engine maintenance efficiency

NEW
MCD-T18 (131kg)

Tacho WATER



Cutting Depth
170mm

- Stepless adjustable anti-vibration handle

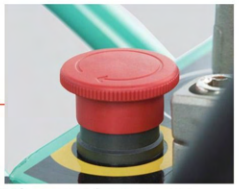
- Lift handle that automatically locks when the hand is released

- Tacho hour meter essential for managing work and maintenance

- Aluminum die-cast belt cover that efficiently cools the heat generated by high-strength ribbed belts

- Large and sleek 50L water tank

- Cutting gauge in the panel allows for comfortable depth adjustment



- Stop switch for stopping the engine in a hurry

- Safe foot-operated parking brake

Point

Easy Blade Setting

- Easily removable Ultra light Blade Cover with disconnected hose

- Easy access from above

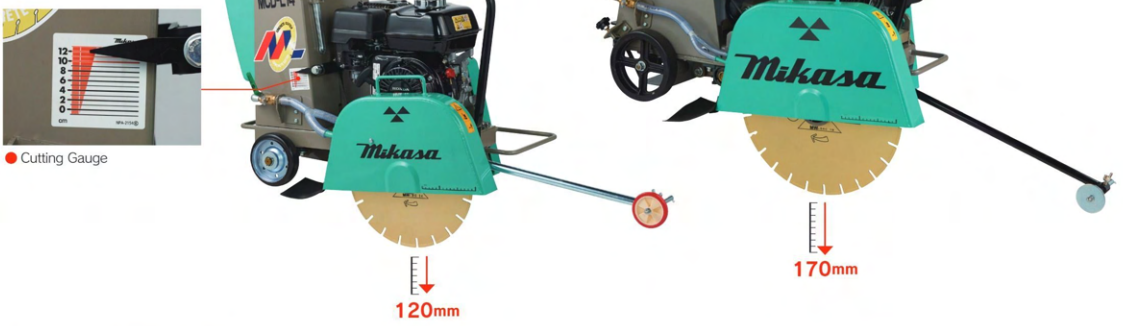
MCD Specifications

model	weight (kg)	dimensions (mm)	blade size mm (inch)	cutting depth (mm)	arbor size (mm)	adjusting for cutting depth	traveling system	water tank capacity (lits)	power source kW (PS)
MCD-T18H	131	H : 916 W : 509 L : 1,414	254 (10")~ 457 (18")	70~170	27	manual lifting screw system	Hand-push	50	Honda GX390 gasoline max. output 8.7 (11.8)

Concrete Cutter

MCD-218CEH (184kg)

MCD-L14H (100kg)



● Cutting Gauge

MCD Specifications

model	weight (kg)	dimensions (mm)	blade size mm (inch)	cutting depth (mm)	arbor size (mm)	adjusting for cutting depth	traveling system	water tank capacity (lits)	power source kW (PS)
MCD-L14H	100	H : 930 W : 527 L : 1,650	254 (10") ~ 356 (14")	70 ~ 120	27	manual lifting screw system	hand-push	26	Honda GX200 gasoline max. output 4.3 (5.8)
MCD-218CEH	184	H : 981 W : 585 L : 1,990	254 (10") ~ 457 (18")	70 ~ 170			semi-auto drive	45	Honda GX390 gasoline (electric start) max. output 8.7 (11.8)

WET Wet type Diamond blade

MW-DA
For Asphalt
MW-DAC
For Asphalt and Concrete
MW-DC
For Concrete

Blade MW-DA/DC/DAC: For Cutting Asphalt and /or Concrete (Deluxe)

model	blade size inch	thickness mm	arbor size mm (inch)
12"MW-DA/DC/DAC	12"	3.0	27 (1.06")
14"MW-DA/DC/DAC	14"		
16"MW-DA/DC/DAC	16"		
18"MW-DA/DC/DAC	18"		

MW-RAC
For Asphalt and Concrete

Blade MW-RAC: For Cutting Asphalt and Concrete (Standard)

model	blade size inch	thickness mm	arbor size mm (inch)
12"MW-RAC	12"	3.0	27 (1.06")
14"MW-RAC	14"		
16"MW-RAC	16"		
18"MW-RAC	18"		

MW-HEL
For Asphalt and Concrete

Blade MW-HEL: For Cutting Asphalt and Cocrete (Economy)

model	blade size inch	thickness mm	arbor size mm (inch)
12"MW-HEL	12"	3.0	27 (1.06")
14"MW-HEL	14"		
16"MW-HEL	16"		
18"MW-HEL	18"		

CONCRETE VIBRATOR

High Frequency Concrete Vibrator ····· 39
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SPECIAL CONSTRUCTION EQUIPMENT

Submersible Pump & Drive unit ····· 46
Power Trowel ····· 46

High Frequency Inverter

(FU-162A·FV-302)

Easy maintenance and High durability

Safe design repaired easily in emergency

High frequency inverter utilizes a split structure design that lets you switch between units if damaged. The repair costs are reduced.

Memory Function to identify the root of malfunction

High Frequency Inverter displays the error number whenever there is an abnormal condition. It lets you know when and what malfunction was happened.

Rugged multi-voltage design capable of coping with power fluctuations

FU-162A comes in 100 V and 240 V to accommodate different power generators at construction sites.

LED Indicator

It shows the condition by 3 colors and 4 kinds of lighting. When there is an abnormal voltage, vibrator is pulsed and it lets operator notice abnormal voltage by vibrating and sound.

Normal (Green illumination, Green blinking)

Caution (Orange blinking)

Stop (Red illumination)

Dust-proof and Water-proof design to handle at any field (IP56 certified)

IP code is an international standard published by the International Electrotechnical Commission (IEC) that rates the degree of protection provided against intrusion of solid matter such as hands, rods, and dust, and water that enter inside electrical appliances.

IP56

Degree of protection against solid foreign objects

Level 5

Intrusion of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the operation and safety of the equipment.

Degree of protection against ingress of water

Level 6

Water projected in powerful jets from any direction shall not intrude.

※IP56 certified devices have been designed to be less susceptible to the effects of dust and water, but this does not guarantee that the device will not malfunction. Do not operate or leave the device in excessively dusty conditions, underwater or in rain.

Q Why High-Frequency Solution?

Answer 1 Vertical Mobility

A High-frequency Vibrator ϕ40
+ FU-162 = **only 22.4kg**

B Pendulous type Vibrator ϕ38
+ Engine 5HP Drive Unit = **45.7kg**

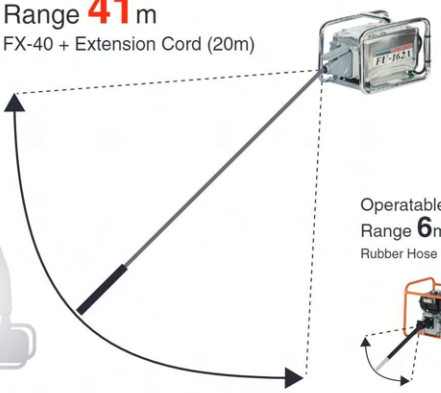
Mobility

Answer 2 Wide Working Range

A High-frequency Vibrator = **41m**

B Pendulous type Vibrator = **6m**

Operatable
Range **41** m
FX-40 + Extension Cord (20m)



Answer 3 Risk Management

A High-frequency Vibrator
FU-162A, FV-302, FC-401 are
no need any Gasoline for operation.

NO Need

B Pendulous type Vibrator

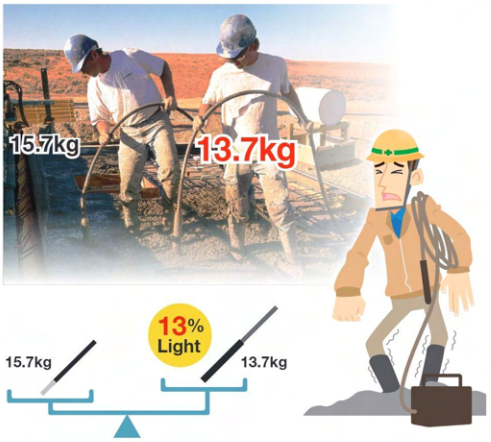
Need

▼For Example

Answer 4 Foot-hold Stress

A High-frequency Vibrator ϕ40 6m ····· **13.7kg**

B Pendulous type Vibrator ϕ38 6m ····· **15.7kg**



Answer 5 Running Cost

Running cost = Electricity consumption or fuel consumption/hour x Working hour/day x Working days/month

▼**Example of trial calculation**

A High-frequency Vibrator FX-40G x 2shaft + Inverter FU-162 (1P 220V)
Running cost
⇒ 1 hour 0.26USD/1.29KWh x 8hour/day x 25days/month = **52USD.**

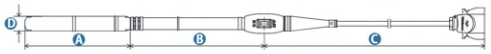
B Pendulous type GH-38S + Engine drive unit. GE-5LE (3,600rpm)
Running cost
⇒ 1 hour 1.90USD/1.46L x 8hour/day x 25days/month = **380USD.**

※**calculate condition** 1KWh=0.20USD Gasoline 1L = 1.30USD

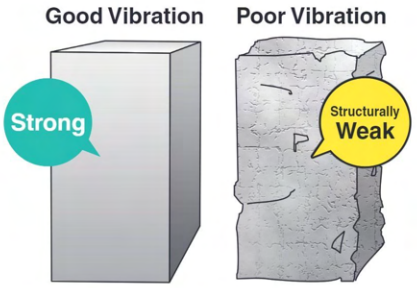
A MIKASA High-frequency Vibrator B MIKASA Pendulous type Vibrator

High Frequency Concrete Vibrator

- The vibrator is equipped with a powerful and highly efficient motor that maintains vibration performance even on low-slump concrete.
- High Frequency Vibrator is designed to be reduced vibration transferred to operator
- Rubber Head type prevent to make damage to mold frame and reduce noise.



A = vib.head length B = rubber hose C = cable length D = vib.head dia



〈 Replaceable Rubber head cap 〉

FX-30E ϕ32 48V

FX-30RE ϕ32 48V

FX-40G ϕ43 48V

FX-40RG ϕ43 48V

FX-50G ϕ52 48V

FX-50RG ϕ52 48V

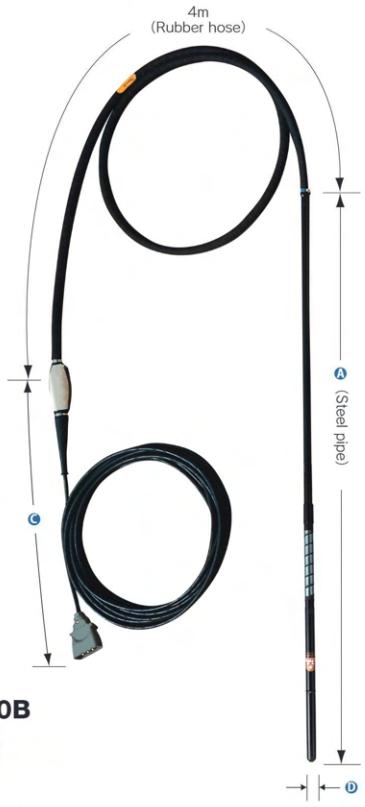
FX-60E ϕ61 48V

FX-60RE ϕ61 48V

FX Specifications

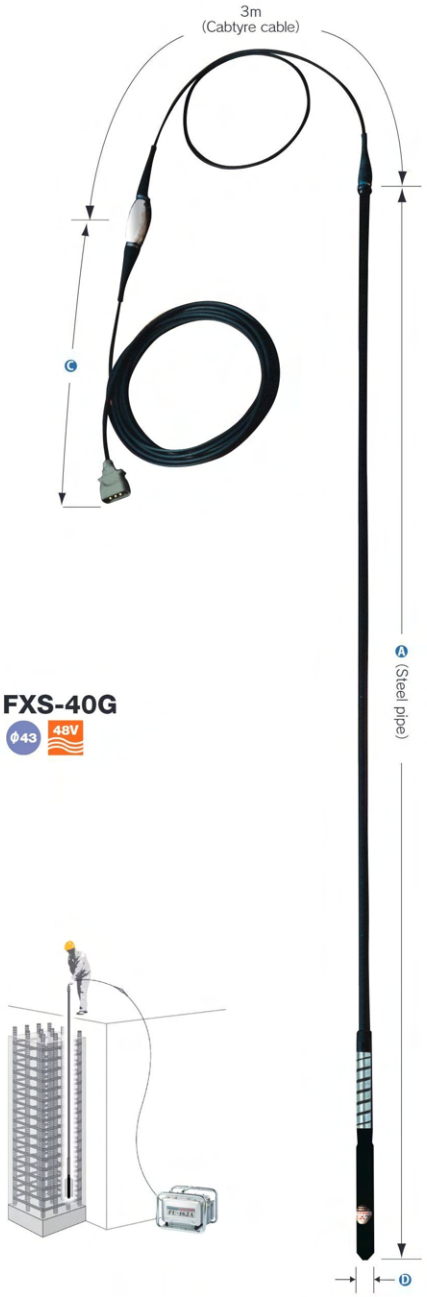
model	vib.head dia. x length (mm)	rubber hose (m)	voltage (V)	cycle (Hz)	amperage (A)	amplitude (mm)	vibration Hz (V.P.M.)	cable length (m)	weight(kg) 4m/6m
FX-30E (FX-30RE)	32 x 396 (32 x 422)	4 or 6	48 three phase	200/240	4	1.8	200/240 (12,000/14,000)	15	9.5/11.0
FX-40G (FX-40RG)	43 x 396 (43 x 422)				6	1.5			12.0/13.7
FX-50G (FX-50RG)	52 x 413 (52 x 442)				9.5	1.9			14.8/16.5
FX-60E (FX-60RE)	61 x 485 (61 x 510)				18	2.0			18.0/19.9

High Frequency Concrete Vibrator (Steel type)



FXB-30B

ϕ32 48V



FXS-40G

ϕ43 48V

- Use of special lightweight steel pipe makes it easy-to-handle.
- No tangling with rebar even when pouring concrete into fine structural frameworks of rebar.
- Finishes can be improved since the vibrator can be inserted along slopes (gradients).
- Special tubes contain vibration absorbing rubber to reduce vibrations transmitted to the hands.

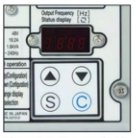
FXB • FXS Specifications

model	vib.head dia. x length (mm)	voltage (V)	cycle (Hz)	amperage (A)	amplitude (mm)	vibration Hz (V.P.M.)	cable length (m)	weight (kg)
FXB-30B	32 x 1,728	48 three phase	200/240	4	1.8	200/240 (12,000/14,000)	15	11.2
FXB-40G	43 x 1,792			6	1.5			15.1
FXS-30B	32 x 2,628			4	1.8			12.0
FXS-40G	43 x 3,412			6	1.5			16.8

High Frequency Inverter

FU-162A (8.7kg)

110V 200V



sheet type switch
(FU-162A·FV-302)

FV-302 (12.0kg)

200V

movie

●Soft start

Soft-start circuit is applied. It makes vibrators start smoothly by control of output, even when overload or startup.

●Sheet type switch

Sheet type switch is applied for dust-resistance, water-resistance and visibility.

The output frequency is changeable to make it fit with suitable frequency as per each site.

●Error display

When Inverter become abnormal condition, it shows error by a number.

High Frequency Converter

NEW

FC-450 (105kg)

380V

FU • FV Specifications

model	dimensions (mm)	input (V)	input (A)	input (KVA)	input (Hz)	output (V)	output (A)	output (KVA)	output (Hz)	number of outlets	weight (kg)
FU-162A	H : 248 W : 240 L : 324	100/200 single phase	20/14	2.0/2.8	50/60	48 three phase	19.2	1.6	100-240	2	8.7
FV-302	H : 248 W : 325 L : 324	200 three phase	12	4.1			36.0	3.0		3	12.0

FC Specifications

model	dimensions (mm)	input (V) three phase	input (A)	input (KVA)	input (Hz)	output (V)	output (A)	output (KVA)	output (Hz)	number of outlets	weight (kg)
FC-450	H : 535 W : 570 L : 665	380	10.6	6.9	50	48 three phase	54	4.5	200-240	3	105
		400	10.1		50/60						

High Frequency Engine Generator

FG-210H (33kg)

FG-310H (52kg)

FG Specifications

model	dimensions (mm)	output (V)	output (A)	output (KVA)	cycle (Hz)	number of outlets	power source kW (PS)	weight (kg)
FG-210H	H : 448 W : 394 L : 475	48 three phase	25.2	2.1	240	2	Honda GX120 gasoline max. output 2.6 (3.5)	33
FG-310H	H : 560 W : 500 L : 560		37.8	3.14		3	Honda GX270 gasoline max. output 6.3 (8.6)	52

Power Distribution unit

■ Distribution Board

FQ-3SUS

■ Extension cord

(20m x 3.5mm²)
(30m x 3.5mm²)

■ Cord Reel

FR-5A (5.5mm²)
FR-8A (8.0mm²)

■ Branch cord

model	Weight (kg)	Cabtyre cord (mm²x m)	number of outlets
FQ-3SUS	2.9	–	3
FR-5A	21.4	5.5 × 30	
FR-8A	24.3	8.0 × 30	

※ Please refer Page 45 - about the length of extension cord.

Portable Concrete Vibrator

UM-F23

φ23 | 110V | 220/240V

UM-F28

φ28 | 110V | 220/240V

UM-F32

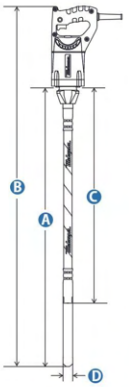
φ32 | 110V | 220/240V

UM-F38

φ38 | 110V | 220/240V

There are Air Vents on the Grip side of UM-motor.

This structure prevents an invasion of concrete.



A = shaft length B = total length
C = hose length D = vib.head dia

- Improved hand arm vibration by separate design for motor and handle
- Improved durability for switch cover and switch lock cover
- New Handle Grip lighten the burden
- Easier maintenance by separate design for cord and cord protector

UM Specifications (for STD Length)

model	vib.head dia. 【D】 x shaft length 【A】 (mm)	inner shaft dia. (mm)	rubber casting dia. (mm)	amplitude (mm)	vibration Hz (V.P.M.)	power (W) (single phase)	weight(kg)
UM-F23	23 x 770	8	20	1.2	200-258 (12,000-15,500)	280	4.3
UM-F28	28 x 770		24.5	1.8			4.7
UM-F32	32 x 770			1.9			4.9
UM-F38	38 x 770			2.0			5.2

hose length (m)	0.6 (STD)	1.0	1.5	2.0
shaft length (mm)	770	1,170	1,670	2,170

UM-Z28

ϕ28 | 110V | 220/240V

UM-ZF100A

110V | 220/240V

- Anti vibration rubber isolator for easy removal and maintenance of head/board
- UM-ZF100A is for external vibration, ideal for construction of walls, pillers, etc.

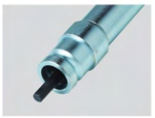
UM Specifications

model	vib.head dia. 【D】x shaft length 【A】 (mm)	vib.board size (mm)	amplitude (mm)	vibration Hz (V.P.M.)	power (W) (single phase)	weight(kg)
UM-Z28	28 x 785	–	1.4	200-258 (12,000-15,500)	280	5.3
UM-ZF100A	–	115(W) x 78(T)	–	166-200 (10,000-12,000)		

GS Concrete Vibrator

■ Coupling type

● Mikasa original



● Pin type

● Two claws type

GS Specifications

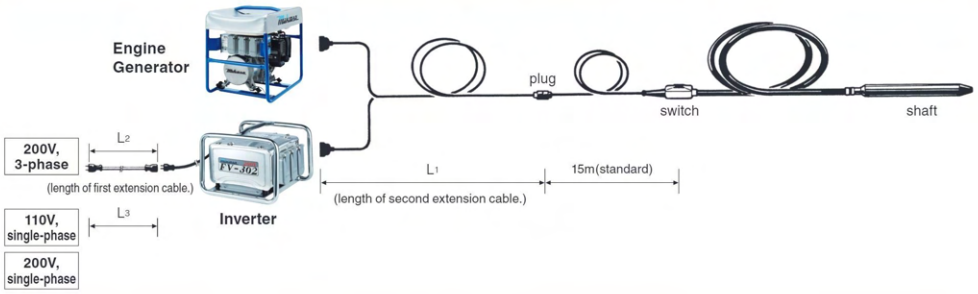
model	vib.head dia. x length (mm)	flexible shaft dia. (mm)	rubber casting dia. (mm)	rubber hose (m)	amplitude (mm)	vibration Hz (V.P.M.)	shaft set weight 4m / 6m (kg)
GS-28	28 x 477	10	30	4 or 6	1.4	150-208 (9,000-12,500)	10.6 / 14.7
GS-32	32 x 520				1.8		11.2 / 15.1
GS-38	38 x 480						11.9 / 15.7
GS-45	45 x 494				2.0		13.3 / 17.4
GS-60	60 x 479	13	32	6	2.4		22.3

Utilization Guide for High Frequency Vibrator

Usable numbers of High Frequency Vibrators

model	FX/FXS/FXB			
	30E(RE)	40G(RG)	50G(RG)	60E(RE)
FU-162A	4	3	2	1
FV-302	9	6	3	2
FC-450	13	9	5	3
FG-210H	6	4	2	1
FG-310H	9	6	3	2

Cabtyre Cable Selection



The formura of extensionable length

The second extension cable (48V,3-phase)

$$L_1 = \frac{100C}{A}$$

L_1 : the length of extension cable (m)

C : cross-section area of cabtyre cable (mm^2)

A : rated current of the vibrator (A)

cable length and vibrator / cable size (mm^2)	length of the extensible cable L_1 (m)			
	FX-30E (RE)	FX-40G (RG)	FX-50G (RG)	FX-60E (RE)
2.0	50	30	20	–
3.5	80	50	30	–
5.5	130	80	50	20
8	200	120	80	35
14	350	220	140	70

The first(the side of electric source) extension cable

$L_{2,3}$: length of extension cable (m)

C : cross-section area of cabtyre cable (mm^2)

A : rated current of the vibrator (A)

[200V·3-phase]

$$L_2 = \frac{200C}{A}$$

[110V / 200V,single-phase]

$$L_3 = \frac{140C}{A}$$

(example)

model	length of extension cable	cabtyre cable size
FX-50G(RG)	50	5.5mm^2

Use the cable which allowable current is over the rated output.

cable size	allowable current of standard cable
1.25mm^2	12A
2.0mm^2	17A
3.5mm^2	23A
5.5mm^2	30A
8.0mm^2	40A

Submersible Pump & Drive unit

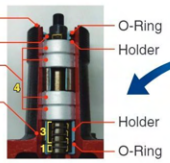
GE-5LH (28kg)

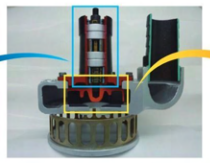
GE-5LDY (45kg)

High Performance

- The bearing case of pump head is designed to get high durability and easy maintenance.

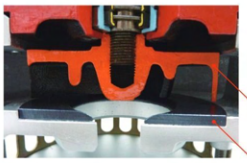
O-ring on this groove prevent water invasion.
Oil seal prevent grease invasion.
4 bearings are used to get more durability.
3 oil seals prevents grease leaking to the outside.
1 oil seal prevent water invasion from the out side.





※Oil seals can be preset in holder. It makes easy and proper replacement.

- Max Discharged Height : **23** m
  Capacity : **1,200** liters/min



FCD400 Ductile

WP Specifications

model	discharging port dia. mm (inch)	max.. discharged height (m)	capacity (liters/ min)	r.p.m	pump head weight (kg)	hose dia. X length (mm x m)	flexible shaft dia (mm x m)	total weight (kg)
WP-2L	50 (2")	13	500	3,000-3,400	4.0	29 x 5	10 x 5	16.1
						29 x 7	10 x 7	20.0
WP-3LB	76 (3")	23	1,200		7.0	32.5 x 5	13 x 5	22.1
						32.5 x 7	13 x 7	26.2
WSP-3LB		18	1,500	3,000-3,600		32 x 6	13 x 6	24.0

GE Specifications

model	dimensions (mm)	power source kW (PS)	weight (kg)
GE-5LH	L : 412 W: 442 H : 456	Honda GX160 gasoline max. output 3.6 (4.9)	28
GSE-5LH	L : 430 W: 390 H : 430		26
GE-5LDY	L : 442 W: 492 H : 532	Yanmar L48N diesel max. output 3.5 (4.7)	45

Power Trowel

This machine makes half-dried concrete even surface.

MPT-36H
(81kg)

Working width
910
mm

MPT Specifications

model	weight (kg)	dimensions (mm)	trowel diameter (mm)	blade dimension (mm)	trowel speed (r.p.m)	power source kW (PS)
MPT-36H	81	H : 852 W : 1,010 L : 1,678	910	L : 345 W : 205	50-100	Honda GX160 gasoline max. output 3.6 (4.9)

Mikasa

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MKSC202305-80W