



CONSTRUCTION EQUIPMENT

2019 - 2020



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

CONTENTS



#1 TAMPING RAMMER



#5 CUTTER & BLADE



#2 PLATE COMPACTOR



#6 CONCRETE VIBRATOR



#3 REVERSIBLE COMPACTOR



#7 SPECIAL CONSTRUCTION EQUIPMENT



#4 VIBRATION ROLLER



ICONS



Vibration Absorbing System



Double Air Filter



Cyclone Air Filter



Twin Cyclone Air Filter



Tacho Hour Meter



Hour Meter



Low Center of Gravity



Water Tank



e-Electric Start



Diameter



Input Voltage with Three Phase



Input Voltage with Single Phase



Double Insulation



Diesel



Gasoline

※ 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.

“Welcome to MIKASA World!” Contact to www.mikasa.com

The image shows two screenshots from the Mikasa website. The left screenshot is the 'Operation and Parts Manuals' login page, which includes fields for 'User-ID' and 'Password', a 'Login' button, and a 'GUEST LOGIN' button. The right screenshot is a detailed parts list for a 'PENDULOUS TYPE CONCRETE VIBRATOR'. It includes a diagram of the machine and a table with columns for 'NO.', 'PARTING', 'Parts Name', 'QTY', 'MK', 'MK2', and 'REMARKS'.

NO.	PARTING	Parts Name	QTY	MK	MK2	REMARKS
A	2110-13010	VIBRATING HEAD ASSY 3BA	1			285
	2110-13020	VIBRATING HEAD ASSY 3BA	1			325
	2110-13030	VIBRATING HEAD ASSY 3BA	1			365
	2110-13040	VIBRATING HEAD ASSY 4BA	1			405
B	2110-23044	LEAD SHAFT AY 4WDG 325	1			440 285,325
	2110-23048	LEAD SHAFT AY 4WDG 325	1			440 285,325
	2110-23145	LEAD SHAFT AY 4WDG 385	1			440 385
	2110-23147	LEAD SHAFT AY 4WDG 385	1			440 385
	2110-23055	LEAD SHAFT AY 4WDG 405	1			440 405
	2110-23057	LEAD SHAFT AY 4WDG 405	1			440 405
C	2110-43014	FLEXIBLE HOSE AY 4WDG 325	1			440 285,325
	2110-43015	FLEXIBLE HOSE AY 4WDG 325	1			440 285,325
	2110-43016	FLEXIBLE HOSE AY 4WDG 385	1			440 385
	2110-43017	FLEXIBLE HOSE AY 4WDG 385	1			440 385
	2110-43024	FLEXIBLE HOSE AY 4WDG 405	1			440 405
	2110-43025	FLEXIBLE HOSE AY 4WDG 405	1			440 405
D	2110-53001	FLEXIBLE SHAFT AY 4WDG 3	1			440
	2110-53003	SHAFT AY 4WDG 3-405	1			440
E	2110-63010	SPRING COUPLING AY 4BA 3BA	1			285,385
	2110-63020	SPRING COUPLING ASSY 4BA	1			405
	2110-23020	HEAD CAP 3BA	1			285
	2110-23140	HEAD CAP 3BA	1			325
	2110-23150	HEAD CAP 3BA	1			365
	2110-23160	HEAD CAP 4BA	1			405
	0000-00020	O-RING 9-20	1			285
	0000-00030	O-RING 9-20	1			325
	0000-00030	O-RING JASCO203	1			325
	0000-00030	O-RING JASCO203	1			325
	2110-13030	CASE 3BA	1			325
	2110-13040	CASE 3BA	1			365
	2110-13050	CASE 4BA	1			405

MIKASA NEWS

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



251670 D3980 MTX-60E EXPORT
MADE IN JAPAN



Main Plant

since 1954'



Tatebayashi (Japan)※1

since 1962'



Kasukabe (Japan)※1

since 2010'



TLIPII (Vietnam)



※1

Global Network since 1964'



**MIKASA
NEWS**

Global activity



Bauma at Germany



Bauma at India



WOC at USA

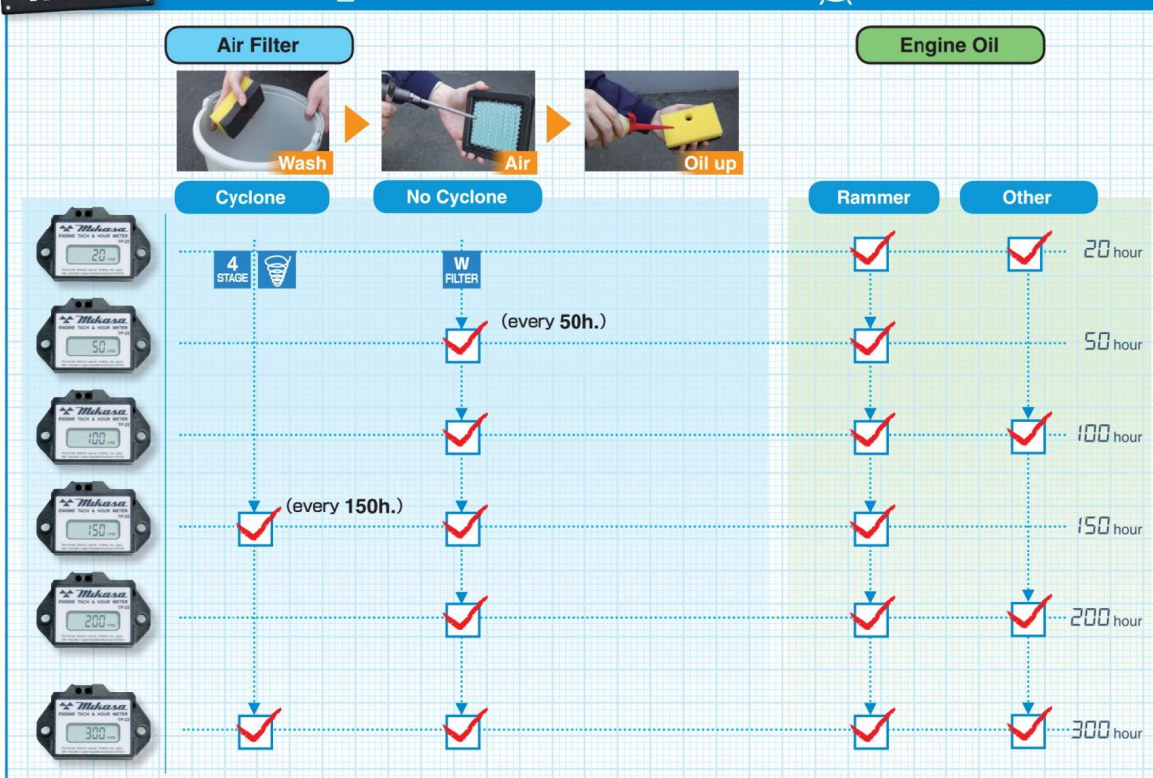
information



**MIKASA
NEWS**



How to use Hour Meter





TAMPING RAMMER

Tamping Rammer (MTX series)	7
Tamping Rammer (MT series)	8
Trench Rammer	8
Diesel Rammer	9
Mikasa Carry	9

4 Stage Air Cleaner System



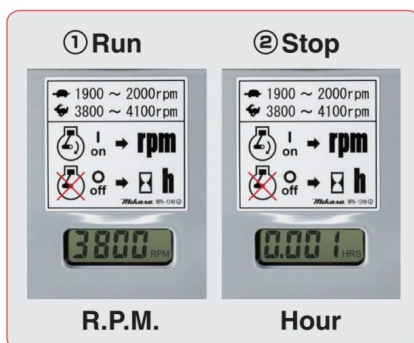
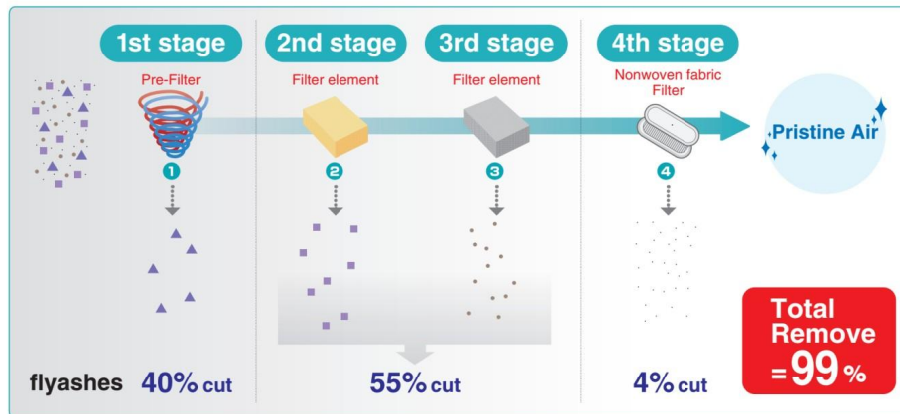
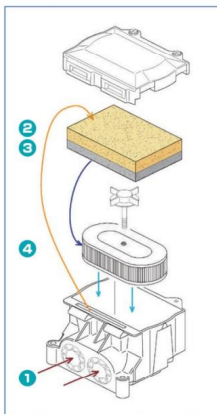
Large Twin Cyclone Air Cleaner

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



Bahrain

Easy maintenance



2 in 1 Tacho Hour Meter

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

② Operating 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)



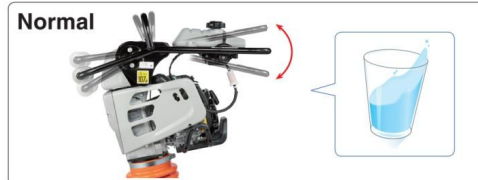
Engine Protection B C

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



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.



Throttle Lever with fuel cutoff mechanism interlocked kill-switch



- ① Fuel Valve
- ② Engine Stop Switch
- ③ Accelerating for Running / Stopping

Reliable
Responsible
Ready to Rental



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 and high tensile strength steel.

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

NEW

MTX-50 (60kg)



● Tacho Hour Meter



● Throttle Lever with fuel cut off mechanism inter locked kill switch



● Engine Guard



MTX-60 (64kg)



MTX-70 (75kg)



+ 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

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				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	50-80	14.9 (1,520)			Honda GXR120 gasoline max. output 2.7(3.6)
MTX-80	93				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

NEW

MT-77HRL (77kg)



NEW

MT-66HL (72kg)

MT-66HRL (72kg)



Trench Rammer

MT-55H (62kg)



W.265

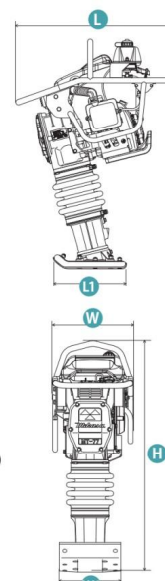


W.285



W.150

MTR-40H (47kg)



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-77HRL	77				13.7 (1,400)			

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)

Diesel Rammer

NEW

MTX-85DY (93kg)



● VAS Handle



● Large Twin Cyclone

W.285

MT-76DL (82kg)



W.285

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	3.3	Yanmar L48N diesel max. output 3.5 (4.7)

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-76DL	82	H : 1,010 W : 410 L : 740	W1 : 285 L1 : 340	50-80	15.7 (1,600)	656-698	3.3	Yanmar L48N diesel max. output 3.5 (4.7)

Mikasa Carry

NEW

MC-1A (6.0kg)



● Hook
Easy to adjust



Cart Specifications

model	weight (kg)	dimensions (mm)	hook width (mm)	loading capacity (kg)
MC-1A	6.0	H: 1,065 W: 488	137 (inside) 243 (outside)	100

PLATE COMPACTOR

Plate Compactor	13
Inter-Locking Block Plate	15



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

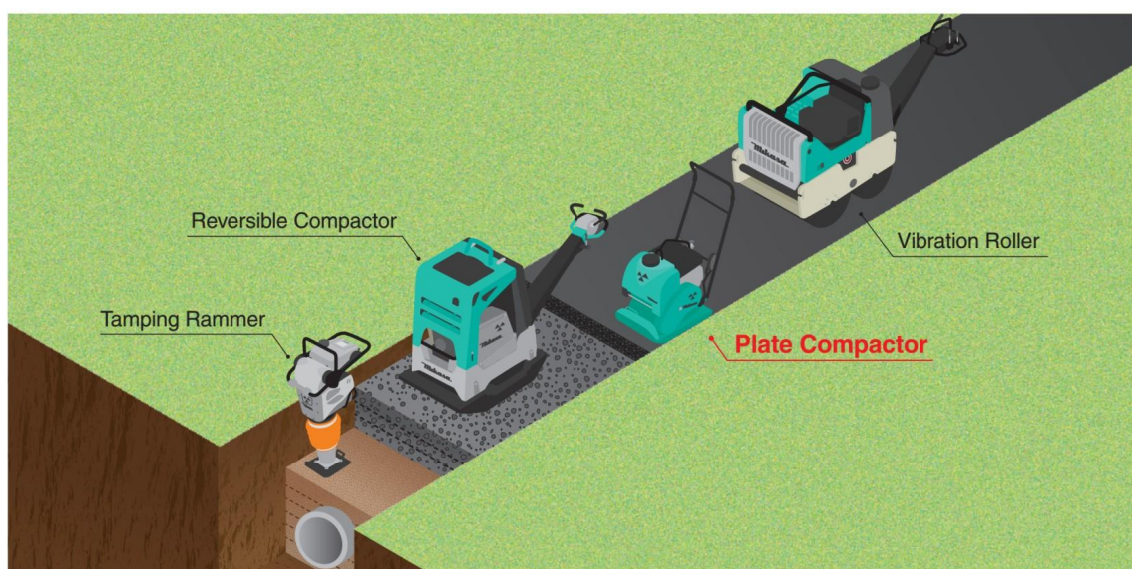
The back part of the compaction baseplate where wear is most prominent is a double baseplate design to deliver better durability when patching road surfaces or for other kinds of construction work.
(MVC-F60 • F70 • F80 • F82)



■ 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

■ Sprinkle Water Tank



- 9L For MVC-40
- 8.5L For MVC-50
- 11L For MVC-F60-F70-F82
- 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-F60・F70・F80・T90・T100)



Knob to fix handle
(F60・F70・F80)



Stopper to fix cart
(F60・F70・F80)



Wire to fix handle
(T90・T100)

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



Cart of Standard type For MVC-F60-F70



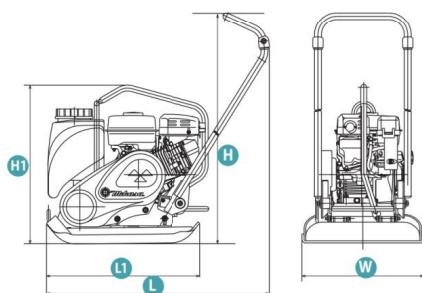
Lifting Hook

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



Plate Compactor

Heavy Duty line



MVC-F60 VAS
(80kg)



MVC-F80 VAS
(92kg)



Standard line

MVC-40
(50kg)



W.295 ※ Folding handle only
(MVC-40)

MVC-50
(59kg)



W.345

MVC-F60
(73kg)



W.350

MVC-F80
(87kg)



W.450

model	HAV (Hand Arm Vibration) (M/sec ²)
MVC-F60H VAS	3.3
MVC-F80H VAS	3.5
MVC-T90H VAS	2.1
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

For MVC-40/50



For MVC-F60/F70

For MVC-F80/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)			Yanmar L48N diesel max. output 3.5 (4.7)		
MVC-T100D VAS	120	H : 950 H1: 650 L : 1,050								

MVC-T90 VAS (108kg)



MVC-T100D VAS (120kg)

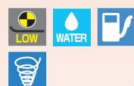


+ Option

- Rubber Mat (Reversible Design) for T90/T100



MVC-T90 (101kg)



W.500

MVC-T100D (113kg)



W.500

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-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 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 : 295 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 : 295 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)			Honda GX160 gasoline max. output 3.6 (4.9)	
MVC-F70H	73		W : 420 L1 : 510		12.0 (1,220)				
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)



W.320

MVB-150H (159kg)



W.556

! Point

■ 360° FLAT OUT

A slightly uneven surface makes moving around in a wheelchair difficult.



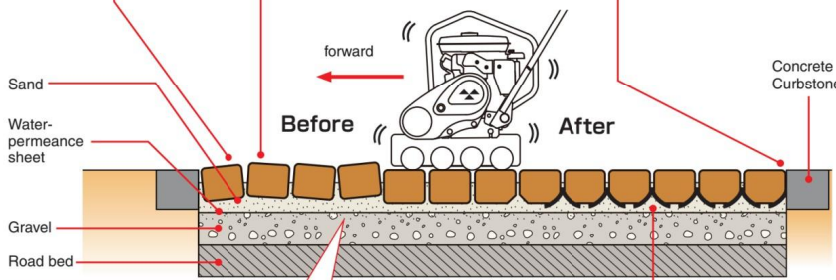
50-80



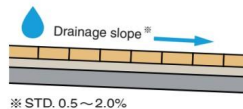
■ Easy to pull back



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 : 918 H1: 646 L : 890	(rubber roll) W : 320 Dia: 73	93 (5,600)	10.1 (1,030)	Honda GX120 gasoline max. output 2.6 (3.5)
MVB-150H	159	H : 925 H1: 815 L : 1,085	(rubber roll) W : 556 Dia: 86	97 (5,800)	15.2 (1,560)	Honda GX160 gasoline max. output 3.6 (4.9)

REVERSIBLE COMPACTOR

Reversible Compactor (Compaction Sensor Models) 19
Reversible Compactor 20



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

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)

Low center of gravity Design

Travel speed comparison

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

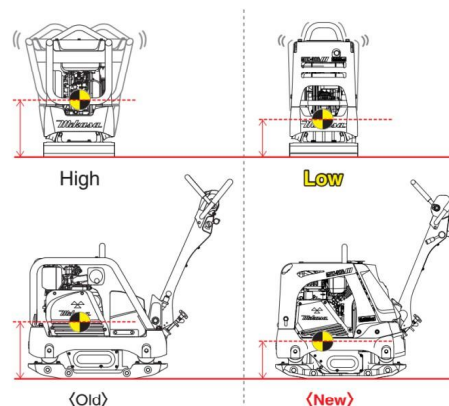
Approx. **20%** faster!



MVH-408	27m/min
Old model	23m/min

Integrated vibrating plate

Brand-new Vibrating Plate made by advanced Automotive technology.



Cyclone pre cleaner equipped as standard has **400%** superior dust filtering efficiency. (compared with our previous models)

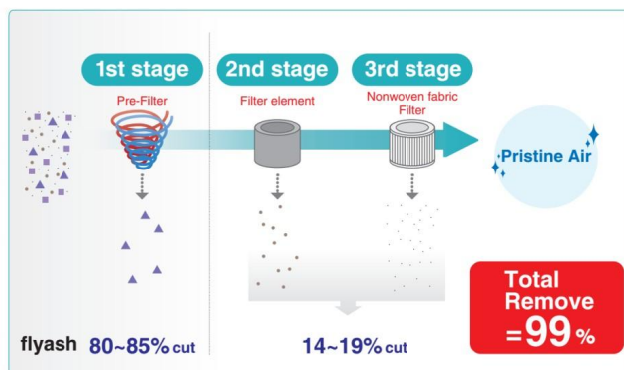
We have placed cyclone pre cleaner inside of rear cover which has superior dust filtering efficiency and it improves maintenance efficiency. For MVH-508, a high-powered twin cyclone pre cleaner suited for the large engine is equipped.



Cyclone pre cleaner (MVH-128 ~ 408)

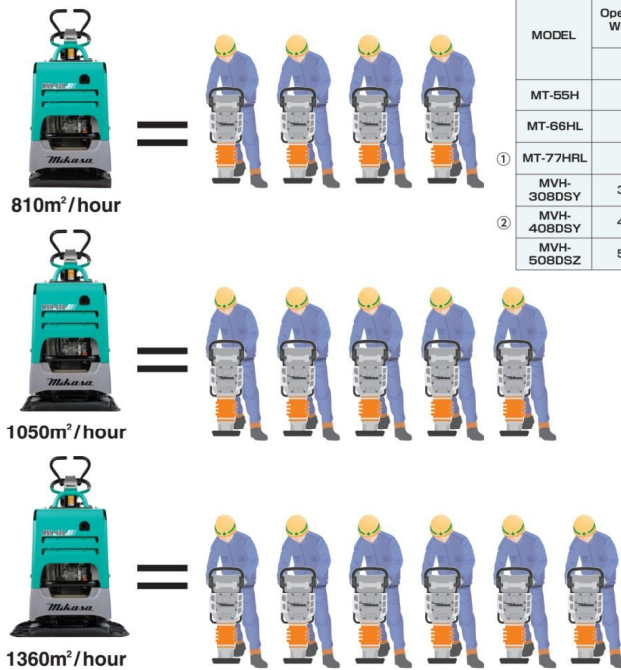


Twin cyclone pre cleaner (MVH-508)



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)	m ² (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
MT-77HRL	77	1400	285	0.285	12	720	205.2
MVH-308DS	341	4600	445	0.445	27	1620	720.9
MVH-408DS	407	5100	500	0.500	27	1620	810.0
MVH-508DS	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

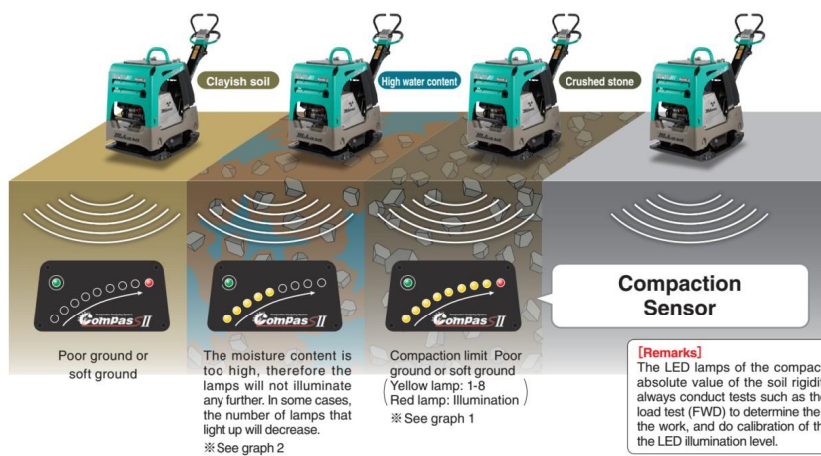
Extension Plate

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

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



Compaction Sensor

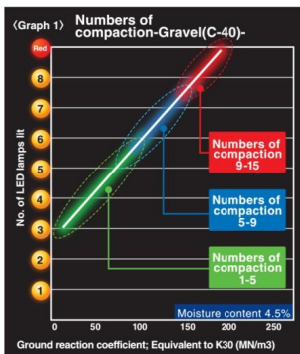


movie

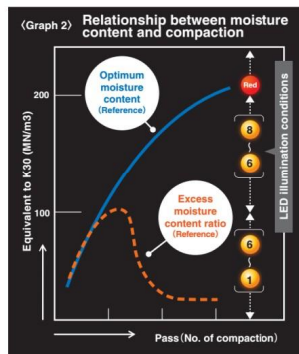


[Remarks]

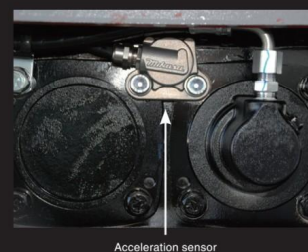
The LED lamps of the compaction sensor do not show the absolute value of the soil rigidity. When using this machine always conduct tests such as the plate load test and dynamic load test (FWD) to determine the correct soil rigidity suitable for the work, and do calibration of the actual measured value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



* Product features: MVH-308DS-PAS



Relationship between soil rigidity and LED lamps



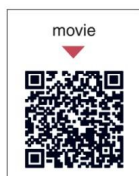
The number of LED lamps that are lit is proportional with the soil rigidity. If the moisture content of the soil is too high, its rigidity may drop even after compactions are repeated, and because of this, the number of illuminated LED lamps will also decrease.

Reversible Compactor

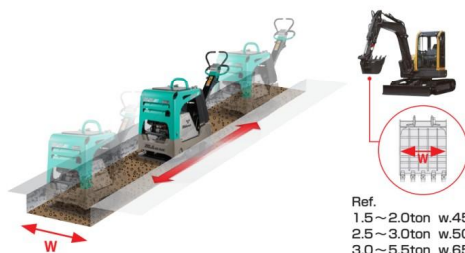
(Compaction Sensor Models)

MVH-308DS-PAS

(345kg)



Mikasa original Diesel Engine Tacho Hour Meter.



MVH-408DS-PAS

(408kg)



MVH-508DS-PAS

(525kg)



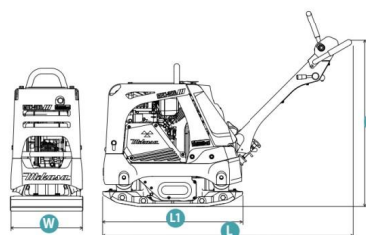
! Point



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)

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

Reversible Compactor

MVH-208DS (240kg)



MVH-308DS (345kg)



WATER
※ Only for Hatz



MVH-408DS (408kg)



MVH-508DS (525kg)



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	240	H : 1,010 L : 1,310	W : 500 L1 : 720	87 (5,200)	37.0 (3,772)	27	30	Hatz 1B30 diesel (electric start) max. output 4.9 (6.7)
MVH-208DSY	237		W : 600 L1 : 720		35.0 (3,570)	26		
MVH-209DSZ	247	H : 1,030 L : 1,540	W : 445 [595] L1 : 860	73 (4,400)	45.0 (4,600)	27		Yanmar L70N diesel (electric start) max. output 4.9 (6.7)
MVH-209DSY	243		W : 500 [650] L1 : 900		55.0 (5,600)	28		
MVH-308DSZ	345	H : 1,030 L : 1,570	W : 500 [650] L1 : 900	69 (4,150)	65.0 (6,600)	29		Hatz 1B50 diesel (electric start) max. output 6.7 (9.1) Yanmar L100N diesel (electric start) max. output 7.0 (9.5)
MVH-308DSY	341		W : 650 L1 : 900		50.0 (5,100)	27		
MVH-408DSZ	408	H : 1,070 L : 1,600	W : 500 [650] L1 : 900	87 (5,200)	37.0 (3,772)	27		Hatz 1D81 diesel (electric start) max. output 8.9 (12.1)
MVH-408DSY	407		W : 600 L1 : 720		35.0 (3,570)	26		
MVH-508DSZ	525	H : 1,010 L : 1,310	W : 500 [650] L1 : 900	73 (4,400)	45.0 (4,600)	27		Honda GX240 gasoline max. output 5.9 (8.0)
MVH-508DSY	521		W : 600 L1 : 720		35.0 (3,570)	26		
MVH-208GH	210	H : 1,030 L : 1,540	W : 445 [595] L1 : 860	87 (5,200)	37.0 (3,772)	27		Honda GX270 gasoline max. output 6.3 (8.6)
MVH-209GH	217		W : 500 [650] L1 : 900		55.0 (5,600)	28		
MVH-308GH	310	H : 1,030 L : 1,570	W : 500 [650] L1 : 900	69 (4,150)	65.0 (6,600)	29		Honda GX390 gasoline max. output 8.7 (11.8)
MVH-408GH	364		W : 650 L1 : 900		50.0 (5,100)	27		

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

Reversible Compactor

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

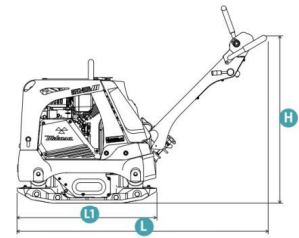
MVH-R60
(68kg)



MVH-128
(122kg)

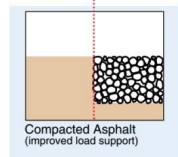
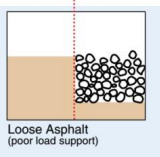


MVH-158
(165kg)



Point

Asphalt Patching



Option

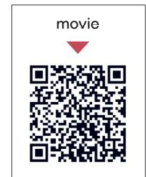
Sprinkle Water Tank

8.5L For MVH-R60



11L For MVH-128/158GH

13L For MVH-308DSZ



Option

Moving Cart

For MVH-128/158



For MVH-R60



For MVH-208



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 : 880 L : 886	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) Yanmar L48N diesel max. output 3.5 (4.7)



VIBRATION ROLLER

Vibration Roller 25

Safety Operation

Deadman Brake

Deadman brake prevents accidents when backing up the machine.



Deadman brake

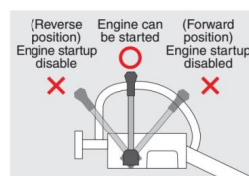
Head Light and Rubber Bumper

Head Light suited nighttime work is equipped as standard. Rubber Bumper is equipped as standard to protect the machine from the impact of frontal collisions. (MRH-501•601•700)



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.



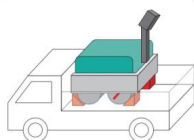
Soft Start

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**. (MRH-501•601•700)



Drum stopper



Handbrake

Safety mechanism

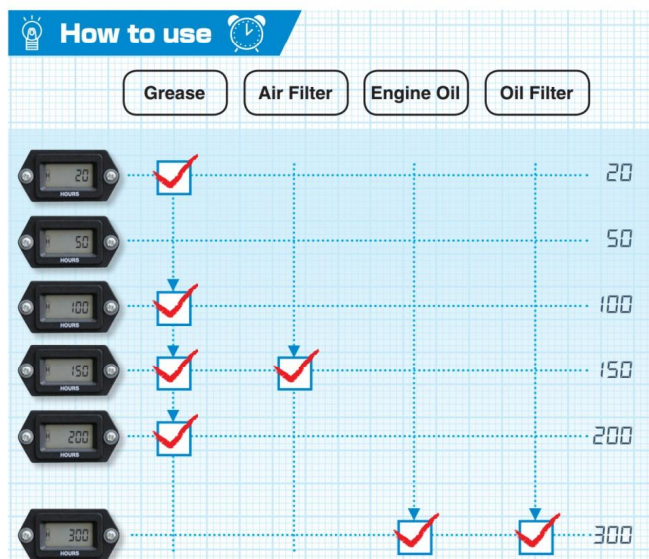


The mechanism is worked to suppress runaway on a slope (when the engine is stopped). Be sure to park the machine on a flat area.

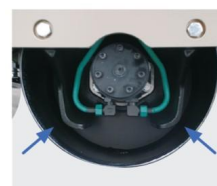
Periodically Maintenance

Hour Meter is equipped as standard.

Hour meter is equipped as standard. It lets you check work and maintenance time. (MRH-501DS•601DS•700DSCB•900DS)



Hydraulic Pipe Guard



One-Touch-Open Center Cover



Saving your time

Work efficiency



2,000m²/hour



Compaction Area/Hour

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

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.

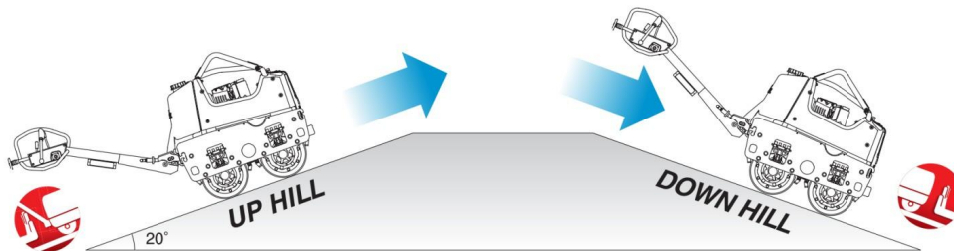


Excellent side clearance

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

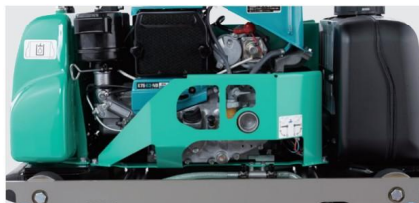


Safety Design for both of Up and Down hill



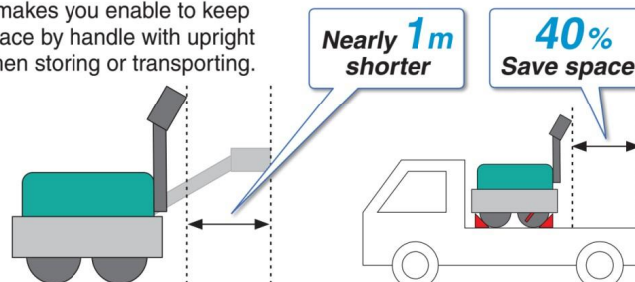
Engine Guard

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



Compact Design

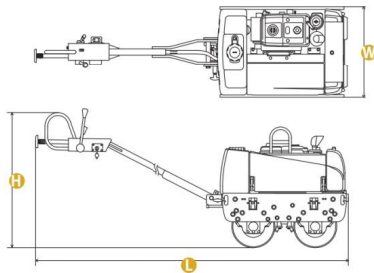
It makes you enable to keep space by handle with upright when storing or transporting.



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.

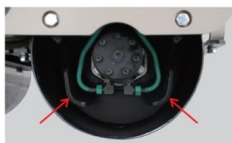
MRH-601DS (551kg)



● One-Touch Center Cover



● Head Light and Rubber Bumper



● Hydraulic Pipe Guard



● Engine Guard



● Handbrake



● Drum Stopper



● Deadman Brake



● Buzzer and Light Switch



● Vibration Switch

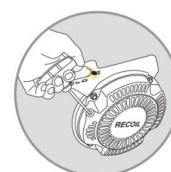


● Hour Meter

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-501DS (530kg)

MRH-700DSCB (700kg)


● Recoil Start
(MRH-700DSCB/700GS)

MRH-700DSB (728kg)

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)

※ The color of water tank will be changed to black in order.

Vibration Roller

- High Durability for Hydraulic Motor against Dust.
- Tacho Hour Meter as Standard Equipment.
- Strong Side Cover to Protect Machine Body from Impact.



MRH Specifications

model	weight (kg)	dimensions (mm)	drum size (mm)	vibrating frequency Hz (V.P.M.)	centrifugal force kN	traveling speed (km/h)	max.limited gradeability (%)	water tank (lits)	power source kW (PS)
MRH-900DSY (air cooled)	870	H : 1,255 W : 704 L : 2,600	dia : 406 width : 650	55 (3,300)	16.8 (1,700)	0-3	35	60	Yanmar L100N diesel (electric start) max. output 5.5 (7.5)



CUTTER & BLADE

Concrete Cutter	31
Wet type Diamond blade	32
Dust Collecting Type Dry Cutter	33
Dry type Diamond blade	33

Wet type

(MCD-318 • 218 • L14 • 012)

Equipment for outstanding functionality



Semi-Auto Drive

Up/Down for blade and Cutting work by handles.



Tacho Hour Meter

(MCD-318 • 218)



e-Electric Start

(MCD-318 • 218)



Manual brake

(MCD-218•012)



Differential Lock Mechanism

The rear wheels are equipped with a differential lock mechanism for better straight-line stability. (MCD-318•218)



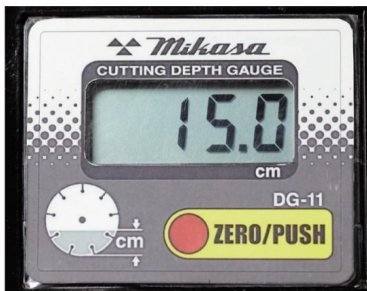
Drain Water Pipe

(MCD-318• 218• L14)



Lifting Hook

(MCD-318•218•L14•012)



Digital Cutting Gauge

Easy to check the cutting depth. (MCD-318)

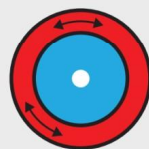


Sprinkling Hose Block

Easy to clean the hose. (MCD-318)

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.



When the blade heats up the edge of the blade expands in the direction of the arrows.

Side



The cutting edge undulates

Genuine blades by Mikasa have a strong resistance to heat that is hard to deform

Dry type

(MCD-RY14)

Water-less **Dry Cutting** and **Dust Collecting** system



99% of the cutting dust is collected into the Dust Case

Equipment for outstanding functionality

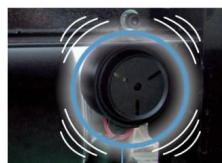


Cutting dust is collected into the dust case.

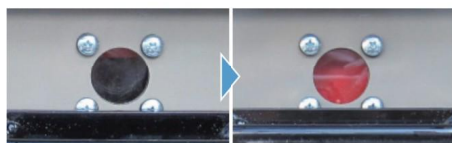
LED Indicator and Buzzer



LED indicator



Buzzer



Level gauge

As soon as the dust case reaches a full tank, you can recognize by LED indicator, buzzer and level gauge.



Road surface following type noise absorbing blade cover



Cutting Line Position



One-Touch Brake



VAS Handle



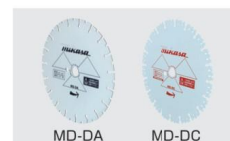
Tacho Hour Meter



Cutting Gauge

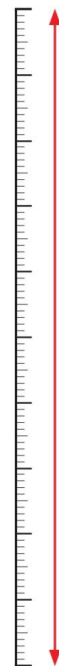


Dry Filter



Dry Cut Blade

Max Depth
100mm

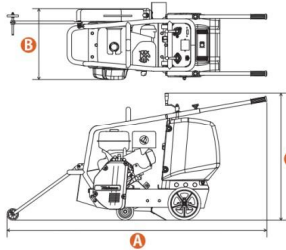


Concrete Cutter

- Digital Cutting gauge for easy to check cutting depth
- Large and Durable Guard hook to protect Engine
- Large Water Tank (50L) for easy to check and clean up



NEW
MCD-318HS (190kg)



Cutting Depth
170mm



- Cam lock to fix up-down



- Tacho Hour meter



- Easy maintenance for Battery



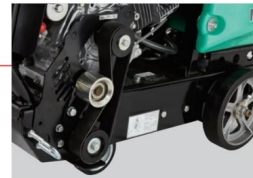
- Large Water-Tank (50L)



- Selector lever for hand-pushing and semi-auto drive



- Large and durable guard hook



- Belt tensioner



- One-touch blade cover



- Sprinkling hose block

Point

Digital cutting gauge



- Push "ZERO/PUSH" switch to set Zero point (0.0)



- Display example :
15.0 → 15cm
(Showing per 0.5cm)

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-318HS	190	H : 971 W : 542 L : 1,984	254 (10") ~ 457 (18")	70~170	27	manual lifting screw system	semi-auto drive	50	Honda GX390 gasoline (electric start) max. output 8.7 (11.8)

MCD-L14H (100kg)


● Cutting Gauge

MCD-218CEH (184kg)

MCD-012H (57kg)


170mm

120mm

100mm

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 (lts)	power source kW (PS)
MCD-012H	57	H : 746 W : 435 L : 1,034	254 (10") ~ 305 (12")	70 ~ 100	27	manual lifting screw system	hand-push	14	Honda GX160 gasoline max. output 3.6 (4.9)
MCD-L14H	100	H : 930 W : 527 L : 1,650	254 (10") ~ 356 (14")	70 ~ 120				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)	arborsize (mm)
12"MW-DA/DC/DAC	12"	3.0	27
14"MW-DA/DC/DAC	14"		
16"MW-DA/DC/DAC	16"		
18"MW-DA/DC/DAC	18"		

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

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

MW-RAC

For Asphalt and Concrete



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

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

MW-HEL

For Asphalt and Concrete



Dust Collecting Type Dry Cutter

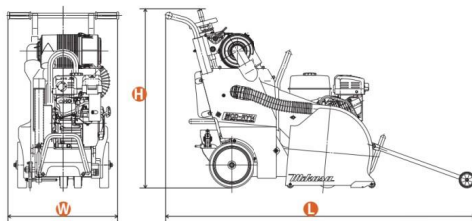


● Dust Case

MCD-RY14HS (145kg)



movie



Examples of use

[When using the asphalt blade]

- Cutting the asphalt pavement of sidewalks and ditches for facility construction
- Pipeline construction of sewer pipes
- Section cutting jobs around light poles, guardrails and manholes
- Joint cutting (3-5 cm) in green concrete (within 72 hours after casting for unreinforced concrete)

[When using the concrete blade]

- Facility construction of concrete (unreinforced) warehouses and sidewalks

MCD Specifications

model	weight (kg)	dimensions (mm)	blade size mm (inch)	cutting depth mm (inch)	arbor size (mm)	adjusting for cutting depth	traveling system	power source kW (PS)
MCD-RY14HS	145	H : 970 W : 610 L : 1,679	305 (12") ~ 356 (14")	50 ~ 100	27	manual lifting screw system	hand-push	Honda GX270 gasoline (electric start) max. output 6.3 (8.6)

DRY

Dry type Diamond blade



MD-DA
For Asphalt



MD-DC
For Concrete

Blade MD-DA/DC: For Cutting Asphalt or Concrete (Dry)

model	blade size (inch)	thickness (mm)	arbor size (mm)
12"MD-DA	12"	3.4	27
14"MD-DA	14"		
12"MD-DC	12"		
14"MD-DC	14"		

CONCRETE VIBRATOR

New Micon Vibrator	37
High Frequency Engine Generator & Converter	38
High Frequency Inverter	38
High Frequency Concrete Vibrator	39
High Frequency Concrete Vibrator (Steel type)	40
Portable Concrete Vibrator (Rubber hose type)	43
Portable Concrete Vibrator (Steel pipe type)	44
Portable Concrete Vibrator (Special unique type)	44
GH Concrete Vibrator	45
GS Concrete Vibrator	45

SPECIAL CONSTRUCTION EQUIPMENT

Submersible Pump & Drive unit	46
Power Trowel	46

New Micon Vibrator

(iCVC)

Intelligent and Powerful High frequency vibrator



■ Compact and Durable design

Steel bars and rubbers on the side protect the body from the impacts. If vibrator has troubles, Micro-computer (Micon) of inverter detects it and stops the vibration immediately to minimize damage.

■ Function for efficient work (ECO idle mode)

If there is no-load for 30 seconds, it will automatically switch to "Idle mode" and weaken the vibration. This "ECO mode" provide the efficient work and to prologue consumable parts' lives.

■ Stress-free Concrete-casting

The surface of the vibrating head is smooth. Because of case joint has been eliminated, which allows smooth casting of concrete.



■ LED indicator

The three-color LED lights up and blink to indicate the machine condition.

■ Strong protection

iCVC is strongly protected from dust and water (equivalent IP67). And it enables to use in wide variety of site.

GFCI as for the option protect operator from the electric shock to cut the current when it detect the electric leakage.



High Frequency Inverter

(FU-162·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-162 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.

Water Proof



※ 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.

New Micon Vibrator



iCVH-32

φ32 140V



iCVH-42

φ43 140V



iCVH-52

φ52 140V



iCVH-62

φ62 140V



iCVC

110V 200V



iCVH 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 [C] (m)	weight(kg) 4m/6m
iCVH-32	32 x 356	4 or 6	140 three phase	400	1.4	1.7	200 (12,000)	15	9.4/10.5
iCVH-42	43 x 329				2.2	2.0			11.2/12.9
iCVH-52	52 x 347				3.2	2.3			12.3/14.0
iCVH-62	61 x 435			360	4.8	2.5	180 (10,800)		15.9/17.8

iCVC Specifications

model	dimensions (mm)	input (V)	input (A)	input (KVA)	input (Hz)	output (V)	output (A)	output (KVA)	output (Hz)	number of outlets	weight none / GFCI (kg)
iCVC	H : 225 W : 235 L : 416	100-120 200-230 single phase	20	1.4	50/60	140 three phase	4.8	1.2	360-400	1	8.5/9.5

High Frequency Engine Generator & Converter



FG-210H (33kg)



FG-310H (52kg)



FC-401 (80kg)

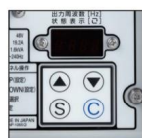


High Frequency Inverter

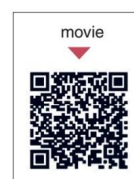
FU-162 (8.7kg)



FV-302 (12.0kg)



sheet type switch
(FU-162-FV-302)



● 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 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.

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

FC Specifications

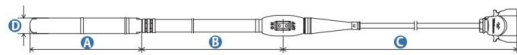
model	dimensions (mm)	input (V)	input (A)	input (KVA)	input (Hz)	output (V)	output (A)	output (KVA)	output (Hz)	number of outlets	weight (kg)
FC-401	H : 553 W : 540 L : 643	380 three phase	10.4	6.83	50/60	48 three phase	48	4	200-240	3	80

FU • FV Specifications

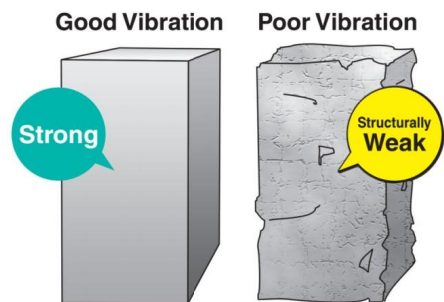
model	dimensions (mm)	input (V)	input (A)	input (KVA)	input (Hz)	output (V)	output (A)	output (KVA)	output (Hz)	number of outlets	weight (kg)
FU-162	H : 248 W : 240 L : 324	100/200 single phase	20/14	2.0/2.8	50/60	48 three phase	19.2	1.6	100-240	2	8.7
FV-302	H : 248 W : 325 L : 324	200 three phase	12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

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



FX-30E



FX-30RE



FX-40G



FX-40RG



FX-50G



FX-50RG



FX-60E



FX-60RE



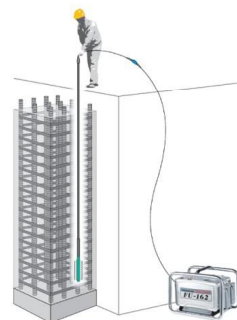
FX Specifications

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	4 or 6	48 three phase	200/240	4	1.8	200/240 (12,000/14,000)	15	9.1/10.3
FX-40G (FX-40RG)	43 x 396				6	1.5			12.0/13.7
FX-50G (FX-50RG)	52 x 413				9.5	1.9			14.8/16.5
FX-60E (FX-60RE)	61 x 485				18	2.0			18.0/19.9

High Frequency Concrete Vibrator (Steel type)



- 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

Q Why High-Frequency Solution?

Answer 1 Vertical Mobility

A High-frequency Vibrator ϕ 40
+ FU-162 = **only 22.4kg**

B Pendulous type Vibrator ϕ 38
+ Engine 5HP Drive Unit = **45.7kg**

Mobility



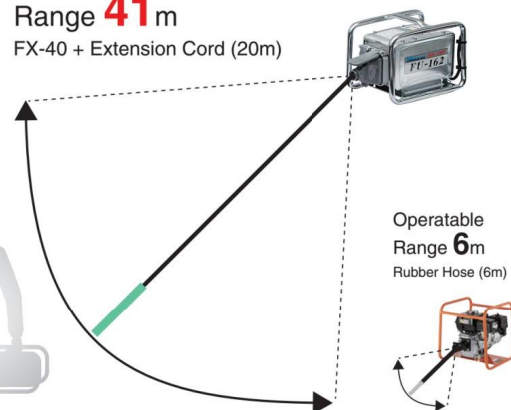
Answer 2 Wide Working Range

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

B Pendulous type Vibrator = **6m**

Operatable
Range **41m**

FX-40 + Extension Cord (20m)



Answer 3 Risk Management

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

B Pendulous type Vibrator



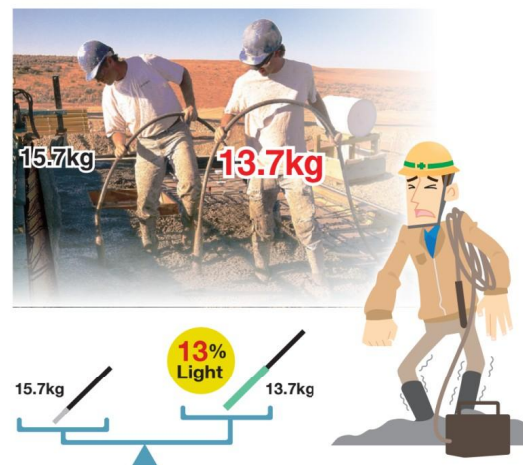
▼For Example



Answer 4 Foot-hold Stress

A High-frequency Vibrator ϕ 40 6m **13.7kg**

B Pendulous type Vibrator ϕ 38 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

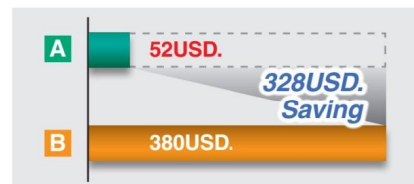
⇒ 1 hour 0.26USD/1.29KWh x 8hour/day x 25days/month = **52USD.**

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



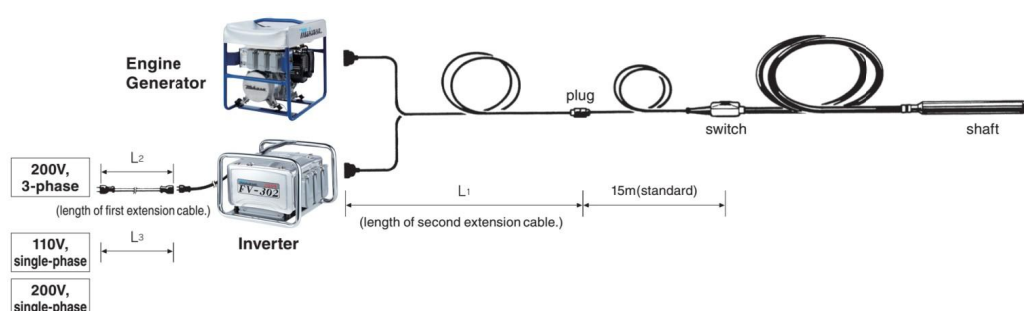
A MIKASA High-frequency Vibrator B MIKASA Pendulous type Vibrator

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-162	4	3	2	1
FV-302	9	6	3	2
FC-401	12	8	5	2
FG-210H	6	4	2	1
FG-310H	9	6	3	2

Cabtyre Cable Selection



The formula of extensionable length

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

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

L₁: the length of extension cable (m)

C: cross-section area of cabtyre cable (mm²)

A: rated current of the vibrator (A)

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 (mm²)

A: rated current of the vibrator (A)

[200V·3-phase]

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

[110V / 200V, single-phase]

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

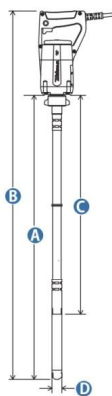
(example)

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.

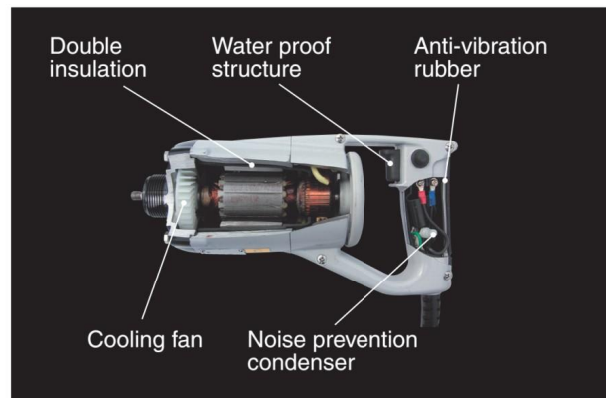
cable size	allowable current of standard cable
1.25mm ²	12A
2.0mm ²	17A
3.5mm ²	23A
5.5mm ²	30A
8.0mm ²	40A

Portable Concrete Vibrator (Rubber hose type)



- Handle grip is applied anti-vibration-rubber.
- Switch and Stopper is applied wear-resistant cover to prevent entering of water and concrete.
- The portable vibrator is best suited for stone masonry, gutters, building foundations, and concrete products.

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



MGX Specifications

model	vib.head dia. x length (mm)	inner shaft dia. (mm)	rubber casting dia. (mm)	amplitude (mm)	vibration Hz (V.P.M.)	power (W) (single phase)	weight(kg)
MGX-23	23 x 780	8	20	1.2	200-258 (12,000-15,500)	280	4.2
MGX-28	28 x 780		24.6	1.8			4.6
MGX-32	32 x 780			1.9			4.8
MGX-38	38 x 780			2.0			5.1
hose length (m)		0.6 (STD)	1.0	1.5	2.0		
shaft length (mm)		780	1,180	1,680	2,180		

Portable Concrete Vibrator (Steel pipe type)


MGZ-28

MGZ-32

MGZ-L22A

MGZ-L25A

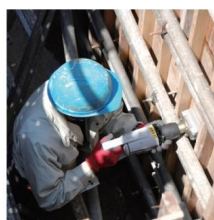
MGZ-L28

MGZ-L32A


Portable Concrete Vibrator (Special unique type)

Special unique type vibrators suit for each kinds of work site.
The small and light-weight design let you work easily in work sites with bad footholds.


MGZ-K75

MGZ-F100A

MGZ-N410

MGZ-H600


MGZ Specifications

model	vib.head dia.[D] x length[A] (mm)	amplitude (mm)	vibration Hz (V.P.M.)	power (W) (single phase)	weight (kg)
MGZ-28	28 x 555	1.4	200-258 (12,000-15,500)	280	5.1
MGZ-32	32 x 578	1.5			5.4
MGZ-L22A	22 x 700	1.6			5.1
MGZ-L25A	24.5 x 698				5.4
MGZ-L28	28 x 790	2.1			5.9
MGZ-L32A	32 x 798				6.3

MGZ Specifications

model	dimensions (mm)	vibration board size (mm)	vibration Hz (V.P.M.)	power (W) (single phase)	weight (kg)
MGZ-K75	492 x 140	75 x 70	166-200 (10,000-12,000)	280	5.4
MGZ-F100A	395 x 78	78 x 100			5.0
MGZ-N410	28 x 1,155	300 x 405	200-258 (12,000-15,500)		8.1
MGZ-H600	35 x 442	50 x 600			6.5

GH Concrete Vibrator

- Delivers strong vibration in the concrete and load fluctuation is extremely low.
- The flexible shaft R.P.M. of the drive unit is being used on Low at about 1/3 frequency benefit bearings Long life.
- GH-38S/45S is frequently used for segment concrete pouring, and GH-45S/62S is often used for tetra concrete pouring.



GH-28S



GH-32S



GH-38S



GH-45S



GH-62S



GH-70S

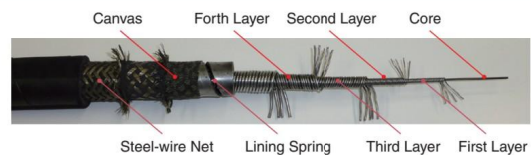


GH Specifications

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)
GH-28S	28.5 x 477	9.5	31	4 or 6	1.4	150-208 (9,000-12,500)	10.6 / 14.7
GH-32S	32 x 520				1.8		11.2 / 15.1
GH-38S	38 x 480				2.0		11.9 / 15.7
GH-45S	45 x 494				2.4		13.3 / 17.4
GH-62S	62 x 479	12.7	32	6	2.3		22.3
GH-70S	72 x 355				2.3		21.4

High Torque

- Inner shaft is hard steel wires. This is strong in tensile and twisting stress, and has resistance to wear.
- Outer hose is robust structure with high torque resistant. Strong against high speed running, vibration and water.
- Outer liner on outer hose prevent inner shaft from premature damage by bending.



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				2.0		11.9 / 15.7
GS-45	45 x 494				2.4		13.3 / 17.4
GS-60	60 x 479	13	32	6	2.4		22.3
					2.4		



Submersible Pump & Drive unit

WP-3LB



GE-5LH (28kg)



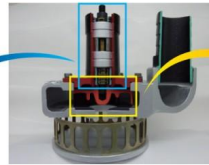
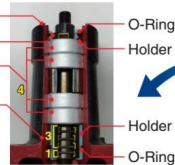
GE-5LDY (45kg)



High Performance

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

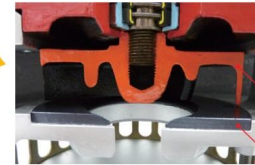
O-ring on this groove prevent water invasion.
Oil seal prevent grease invasion.
4 bearings are used to get more durability.
3 oil seals prevents grease leaking to the outside.
1 oil seal prevent water invasion from the out side.



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



FCD400 Ductile



Impeller
Side Plate

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

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	3,000-3,400	7.0	32.5 x 5	13 x 5	22.1
						32.5 x 7	13 x 7	26.2

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
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)



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)



www.mikasa.com

