

# TREMIX

## Soil and Asphalt Compaction



*When the going gets really tough, you want the best*

**FORWARD SOIL COMPACTORS****MV 40****MV 65****MV 80**

Tremix MV 40, MV 65 och MV 80 forwardmoving vibratory plates are light and efficient machines for repair work and maintenance on soil and asphalt. Designed to meet rental companies and contractors high demands, the MV plates have been designed to resist heavy-duty applications. They feature lifelong lubrication of the eccentric element (except MV80). To facilitate handling and to have a better ergonomomy, the machines are fitted with a lifting device for mechanical hoisting and with lifting handles. A belt cover protects the engines vital parts, and thanks to the folding handlebar the machine takes up little space during transportation and storage.

**MV 70****MV 92**

Tremix MV 70 and MV 92 forwardmoving vibrator plates have been specially designed to compact asphalt for contractors with high demands on flexibility and versatility. These two models are suitable in a variety of applications where extreme accuracy is required, especially for asphalt compaction. With their specially engineered delta bottom plate, the MV 70 and MV 92 are the best asphalt plates on the market today. The large and robust water tank, and the stainless sprinkler system facilitate work on asphalt that must be completed quickly and without interruption. Because of a foldable handle and the rounded edges of the bottom plate the machine is easy to turn and manoeuvre in confined spaces. Thanks to the shape of the bottom plate there will be no imprints on asphalt. MV 70/92 can be used for all types of repair work, but are intended primarily as a complement to larger asphalt machines where there are strict requirements on surface finish.

## FORWARD SOIL COMPACTORS



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**MV 130**

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Tremix MV 130 forwardmoving vibrator plate is used for soil compacting works such as new construction, repairs and maintenance, where high demands are put on speed, flexibility and efficiency. MV 130 have been Catalysator designed with user-friendliness in mind; and is equipped in standard with a highly efficient ergonomic devibrated handle, and an easily accessible throttle. The strong protective frame acts as an efficient shield for vital parts of the plate and also as general protection against shock and impact if subjected to rough treatment. Thanks to its width the bottom plate is an efficient compaction tool with high capacity.

## ROUND SOIL COMPACTOR



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**KMR 11**

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The Tremix KMR 11 Vibratory Plate Compactor features a unique round base that allows flush compaction next to posts, pillars, guardrails, manholes, drainage inlets and foundations. The Catalysator design of the KMR 11 makes it easy to manoeuvre around obstacles. Confined areas and corners are easily handled by turning the steering wheel and compacting your way back out. The Tremix KMR 11 develops 16 kN of centrifugal force and amplitude of 1,7 mm. It is an ideal tool to quickly reach high density compaction on soil and stone applications. The KMR 11 is powered by a Honda GX160 engine. Its convenient steering wheel, not only optimizes operator's comfort when manoeuvring in confined spaces, but also easy lifting from trenches, trucks and trailers. An extra lifting handle is fitted on the engine plate, therefore allowing balanced movements when lifting the machine. A remote throttle control is located on the operator's handle.

**FORWARD- AND REVERSIBLE SOIL COMPACTORS****MV 220****MV 230 D****MV 245 DE**

Forward/reversible compactors, intended for the compaction of sand and gravel at house foundations as well as in trenches, street and road jobs. The machines are well balanced performing outstanding compaction. The vibration-dampened handle is of ergonomically proper design.

The forward/reversing movement is controlled hydraulically with an easily accessible lever on the handle. The movements are stepless. The compactors are designed for ease of service and maintenance. An important feature is the plastic cover that can be tipped up without any tool.

There are three models available: The MV 220 with Honda petrol engine, MV 230 with Hatz diesel engine and MV 245 with Hatz diesel engine and electric start.

**MV 305****MV 320 DE****MV 440**

Tremix MV 305 and MV 320 DE are compact forward and reversing vibratory plates with excellent compaction properties. The speed and compaction depth are regulated steplessly through hydraulic servo-controlled resetting of the eccentric element. This ensures smooth operation and makes the plates easy to operate. The plates can be used for most applications in its weight class, around cast foundations and building elements, for floor filling and other foundations, as well as for backfill in trenches. The handle is suspended in special rubber elements to dampen vibrations to a minimum. A protective frame with a single-point lifting lug covers all the vital parts of the machine. The MV plates are designed for operation in well ventilated spaces, as is the case with all combustion engine machines.

TREMIX MV 440 is designed for compacting sand, gravel and stone in pipe trenches, house foundations and on parking surfaces. The machine has excellent compaction properties and is therefore easy to manoeuvre in confined areas.

The bottom plate is made of Hardox 400, an extremely durable steel material. The 12 mm thick plate stands heavy stresses and has a long life.

The antivibration handle is of ergonomically proper design with controls (start, warning lights, throttle, forward/reverse movement, standstill vibration) readily accessible.

**TAMPERS****MS 620****MS 680**

The Tremix MS 620 and MS 680 tampers combine latest 4-stroke engine technology with low exhaust emissions and low noise with high working speed for high compaction performance. MS 620 is equipped with the new Honda GX100 engine developed for tamper application and MS 680 is equipped with Honda GX120 engine. Well balanced, the MS 620/680 are suitable for applications on both granular and cohesive soils, where strict requirements are imposed for compaction in confined areas, trenches and repair work. The new tampers feature a very good working speed, which combined with a high amplitude results in an optimized in-depth compaction effect: down to 60 cm on sand and gravel, and 15 to 20 cm on clay. With few moving parts, maintenance is made easier and reliability maximized. Strong and high-positioned shock absorbers, and plastic fuel tank ensure long and trouble-free working life. The engine is protected against shocks by a strong metal frame.

**MS 690 MT****MS 780 MT****MS 840 D**

Tremix now offers a wide choice of alternatives to contractors for the compaction of granular and cohesive soils. The Tremix MS 690 MT-, MS 780 MT- and MS 840 D tampers combine the latest Honda 4-stroke engine technology with low exhaust emissions and low noise with high working speed for high compaction performance. The MS 690 MT is equipped with the new Honda GX100 engine developed for rammer applications and the MS 780 MT is equipped with the Honda GX120 engine. The well balanced Tremix tampers are excellent for applications on both granular and cohesive soils, where strict requirements are imposed for compaction in confined areas, trenches and repair work. The new tampers strike fast and hit hard providing a high compactive effort. The high amplitude provides the ability to climb grades.

**ROLLERS****MR 7000**

The MR 7000 is a forward/reversing duplex roller, ideal for compacting soil and asphalt. The machine features a bolted lower section with a vibration element located between the two drums. Hydraulic power transfer to the vibration element and hydraulically powered propulsion with a motor in each drum. Infinitely regulated speed control facilitates operation. The machine is equipped with a 71 litre (18.7 gallon) sprinkler system to permit long shifts without the need of refilling. The water cock is well protected and easily accessible for the operator. The water tanks are made of plastic to avoid corrosion and the filler caps are large in order to facilitate refilling. The lower part of the machine has a small overhang to allow the roller to be run close to obstructions, eg, walls. The upper part is suspended by four rubber dampers and is secured to the lower part with safety straps. The engine is fitted with a centrifugal clutch to relieve the hydraulic system when idling. The machine is also equipped with a safety frame to protect the engine during transport and work, and the frame is provided with a single-point hoisting bracket for easy loading and unloading. The handlebar is retractable to facilitate transportation. The machine is equipped with a dead-man's handle and push-stop. The machine can also be supplied with an electric starter. The machine and its accessories may only be used for their intended purpose. The MR rollers are designed for operation in well ventilated spaces, as all combustion engine machines.



## Technical data

### FORWARD SOIL COMPACTORS

Model	Engine	Fuel	Net Weight	Max engine output	Transmission	Working-speed	Vibration frequency	Centrifugal force	Bottom plate dimensions LxB (mm)
MV 40	Honda GX100	Petrol	41 kg	2.2 kW	V-belt	25 m/min	100 Hz	8 kN	438x290
MV 65	Honda GX120	Petrol	59 kg	2.9 kW	V-belt	24 m/min	92 Hz	10 kN	510x330
MV 70	Honda GX120	Petrol	70 kg	2.9 kW	V-belt	28 m/min	92 Hz	10 kN	530x520
MV 80	Honda GX160	Petrol	79 kg	4.0 kW	V-belt	25 m/min	90 Hz	18 kN	530x450
MV 92	Honda GX120	Petrol	93 kg	3.0 kW	V-belt	20 m/min	87 Hz	12 kN	580x500
MV 130	Honda GX160	Petrol	126 kg	4.1 kW	V-belt	24 m/min	85 Hz	21 kN	660x500
KMR 11	Honda GX160	Petrol	93 kg	4.0 kW	V-belt	22 m/min	75 Hz	16 kN	Ø 450

### FORWARD- AND REVERSIBLE SOIL COMPACTORS

Model	Engine	Fuel	Net Weight	Max engine output	Transmission	Working-speed	Vibration frequency	Centrifugal force	Bottom plate dimensions LxB (mm)
MV 220	Honda GX200	Petrol	215 kg	4.8 kW	V-belt	25 m/min	65 Hz	36 kN	700x500
MV 230 D	Hatz 1B20	Diesel	229 kg	3.1 kW	V-belt	25 m/min	65 Hz	36 kN	700x500
MV 245 DE	Hatz 1B20	Diesel	245 kg	3.1 kW	V-belt	25 m/min	65 Hz	36 kN	700x500
MV 305	Honda GX270	Petrol	263 kg	5.8 kW	V-belt	25 m/min	68 Hz	37 kN	768x600 *
MV 320 DE	Hatz 1B30	Diesel	300 kg	4.2 kW	V-belt	25 m/min	68 Hz	37 kN	768x600 *
									* alternative 500 mm
MV 440	Yanmar L100AE	Diesel	461 kg	7.5 kW	V-belt	24 m/min	60 Hz	60 kN	900x750

### TAMPERS

Model	Engine	Fuel	Net Weight	Max engine output	Transmission	Working-speed	Vibration frequency	Centrifugal force	Bottom plate dimensions LxB (mm)
MS 620	Honda GX100	Petrol	63 kg	2.2 kW	Gear box	15-18 m/min	12 Hz	-	330x230
MS 680	Honda GX120	Petrol	73 kg	2.9 kW	Gear box	15-18 m/min	12 Hz	-	330x280
MS 690 MT	Honda GX100	Petrol	67 kg	2.2 kW	Gear box	15-18 m/min	12 Hz	-	330x230
MS 780 MT	Honda GX120	Petrol	77 kg	2.9 kW	Gear box	15-18 m/min	12 Hz	-	330x280
MS 840 D	Hatz 1B20	Diesel	83 kg	3.4 kW	Gear box	13-16 m/min	12 Hz	-	330x280

### ROLLERS

Model	Engine	Fuel	Net Weight	Max engine output	Transmission	Working-speed	Vibration frequency	Centrifugal force	Drum length
MR 7000	Hatz 1D50S	Diesel	658 kg	6.8 kW	Hydraulic	0-3.6/0-2.3km/h	61 Hz	21 kN	650 / Ø 400

# The right machine for the right application

1. In order to achieve a good result, a machine should have the characteristics which correspond to the actual conditions at the building site. It is important to take into consideration the forward/reverse function, traction and mechanical reliability.
2. The most important factors that determine the compaction efficiency of a machine are: static weight, area of the bottom plate, amplitude and frequency. For example a MV 440 has the same compaction depth as a large 10 ton vibratory roller.
3. Normally, at least 3-4 passes are required in order to achieve a fully good compaction. If the number of passes in order to achieve a sufficient compaction exceeds six, another machine or a thinner layer should be considered.
4. When planning a site it is important to consider the surface capacity in order to make the right choice regarding the type and number of machine/s.

APPLICATION	SUITABLE MACHINE
<b>CLAY</b>	<ul style="list-style-type: none"> <li>● Tampers</li> </ul> MS 620, MS 680, MS 690 MT, MS 780 MT, MS 840 D
<b>SILT</b>	<ul style="list-style-type: none"> <li>● Heavy Plate Compactors</li> <li>● Tampers</li> </ul> MV 305, MV 320 DE, MV 440 MS 620, MS 680, MS 690 MT, MS 780 MT, MS 840 D
<b>SAND/GRAVEL</b>	<ul style="list-style-type: none"> <li>● All Plate Compactors</li> <li>● Roller</li> <li>● Tampers</li> </ul> MV 40, MV 65, MV 70, MV 80, MV 92, MV 130, KMR 11, MV 220, MV 230 D, MV 245 DE, MV 305, MV 320 DE, MV 440 MR 7000 MS 620, MS 680, MS 690 MT, MS 780 MT, MS 840 D
<b>ROCKFILL</b> Ø ≤ 15 cm	<ul style="list-style-type: none"> <li>● Heavy Plate Compactor</li> </ul> MV 440
<b>ASPHALT</b>	<ul style="list-style-type: none"> <li>● Plate with water sprinkler system</li> <li>● Roller</li> </ul> MV 70, MV 92 MR 7000
<b>CONCRETE BLOCK</b>	<ul style="list-style-type: none"> <li>● Plate with optional vulcolan rubber protection</li> </ul> MV 65, MV 80, MV 92, MV 220, MV 230 D, MV 245 DE, MV 440

**TREMIX®**

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