

TREMIX

Soil and Asphalt Compaction



When the going gets really tough, you want the best

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

The 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 ergonomi, 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**

The 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



MV 130

The 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 Catalysatordesigned 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



KMR 11

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 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 165****MV 170 D**

The Tremix MV 165 and MV 170 D are two relatively small forward and reversible compactors. The size of the machines makes them easy to manoeuvre, and specially suitable for work in confined areas, close to house foundation, building elements as well as for backfill in trenches. The compactors are a good complement to Tremix larger forward and reversible compactors. As for all forward and reversible Tremix compactors the forward/reversible movement is stepless and enables on-the-spot vibration. The open design makes the MV 165 and MV 170 D very servicefriendly. The V-belt is easy to replace on site and there is also a spare V-belt under the protection frame.



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

The Tremix MV220, MV230D and MV245DE 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 D with Hatz diesel engine and MV 245 DE with Hatz diesel engine and electric start.



FORWARD- AND REVERSIBLE SOIL COMPACTORS**MV 305****MV 320 DE**

The 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.



FORWARD- AND REVERSIBLE SOIL COMPACTORS

MV 480 DE

TREMIX MV 480 is a compact forward and reversing vibratory plate with excellent compaction properties. The speed and compaction depth are regulated stepless through hydraulic servo-controlled resetting of the eccentric element. This ensures smooth operation and makes the plate easy to operate. The plate 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 bottom plate is made of Hardox 400, an extremely durable steel material. 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.

TAMPERS

MS 580 / MS 590 MT

The Tremix tampers are suitable for compaction of soil in trenches, around pillars and confined spaces. MS 580 and MS 590 MT are provided with Honda GX100 petrol engine which ensures a good operation economy and a trouble-free running. The footplate for MS 580 and MS 590 MT is interchangeable in shoe width 6" and 9".

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.



TREMIX®**TAMPERS****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 Tremix MR 7000 features a compact design and a low weight. Still, it ensures a high compaction effect and a long life.

The Tremix MR 7000, a 650-mm wide drum machine, is a fully hydraulic roller combining both drive and vibration. It is intended for compaction on both soil and asphalt. Therefore, it is equipped with a powerful engine, Hatz 1D50S, and a 71-liter water tank. The engine is well protected, and the large water tank keeps the hydraulic components safe. The machine combines high capacity and a robust design with smoothness in handling and operation.

The hydraulic components, such as coolers and connectors, are reliable and the protecting frame with one lifting point is light, but yet very strong and durable.

Thanks to the hydrostatic propulsion, the MR 7000 has a minimum overhang on both sides. Its ergonomic handle design guarantees low hand/ arm vibration and easy operation.

The modern design of the new pedestrian double drum roller keeps the net weight as low as 660 kg. The fold-up handle and four tie down points simplify transportation. Even though the design is extremely compact, service friendliness regarding the engine, the hydraulic system is maintained on a high level.



Technical data

FORWARD SOIL COMPACTORS

Model	Engine	Fuel	Net Weight	Max engine output	Transmission	Working-speed	Vibration frequency	Centrifugal force	Bottom plate dimensions LxW (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	4.1 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	4.1 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 LxW (mm)
MV 165	Honda GX160	Petrol	156 kg	4.1 kW	V-belt	25 m/min	82 Hz	28 kN	654x450
MV 170 D	Hatz 1B20	Diesel	171 kg	3.1 kW	V-belt	25 m/min	82 Hz	28 kN	654x450
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 480 DE	Hatz 1D50S	Diesel	504 kg	6.6 kW	V-belt	25 m/min	60 Hz	60 kN	939x700

TAMPERS

Model	Engine	Fuel	Net Weight	Max engine output	Transmission	Working-speed	Vibration frequency	Centrifugal force	Bottom plate dimensions LxW (mm)
MS 580	Honda GX100	Petrol	61 kg	2.2 kW	Gear box	15-18 m/min	12 Hz	-	330x230
MS 590 MT	Honda GX100	Petrol	62 kg	2.2 kW	Gear box	15-18 m/min	12 Hz	-	330x280
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	3.0 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 480 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	
CLAY	<ul style="list-style-type: none"> ● Tampers 	MS 580, MS 590 MT, MS 620, MS 680, MS 690 MT, MS 780 MT, MS 840 D
SILT	<ul style="list-style-type: none"> ● Heavy Plate Compactors ● Tampers 	MV 305, MV 320 DE, MV 440 MS 580, MS 590 MT, MS 620, MS 680, MS 690 MT, MS 780 MT, MS 840 D
SAND / GRAVEL	<ul style="list-style-type: none"> ● All Plate Compactors ● Roller ● Tampers 	MV 40, MV 65, MV 70, MV 80, MV 92, MV 130, KMR 11, MV 165, MV170 D, MV 220, MV 230 D, MV 245 DE, MV 305, MV 320 DE, MV 480 MR 7000 MS 580, MS 590 MT, MS 620, MS 680, MS 690 MT, MS 780 MT, MS 840 D
ROCKFILL Ø ≤ 15cm	<ul style="list-style-type: none"> ● Heavy Plate Compactor 	MV 480
ASPHALT	<ul style="list-style-type: none"> ● Plate with water sprinkler system ● Roller 	MV 70, MV 92 MR 7000
CONCRETE BLOCK	<ul style="list-style-type: none"> ● Plate with optional vulcolan rubber protection 	MV 65, MV 80, MV 92, MV 165, MV 170 D, MV 220, MV 230 D, MV 245 DE, MV 480