JCB VIBROMAX

TÜV CERT
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VMP 14 – VMP 48

Vibrating plate

Instruction manual

05412/28135

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5.0 BASIC SAFETY NOTES



WARNING NOTES AND SYMBOLS

The following terms and symbols are used in the operating instructions for particularly important information:

Note: *Particular information regarding economical use of the machine.*

Caution: *Particular information, instructions and prohibition commands for the prevention of damage.*

Danger: *Information, instructions and prohibition commands for the prevention of injury to persons or considerable damage to property.*

PREMISE; PROPER USE

1. The machine has been constructed in accordance with the state of the art and the recognized safety rules. Hazards to life and limb of the operator or third parties or damage to the machine and other property may however occur in use.

2. Use the machine in a technically perfect condition only, for its proper purpose, in consideration of safety aspects and hazards, and in observance of the operating instructions. In particular, have any faults which could impair safety repaired immediately.

3. The machine is intended solely for the compaction of beds of earth or bituminous construction materials, and for shaking paving into place.

   These construction materials include soils with soil types from stones to silty sand and with water contents from 40% to 110% of the optimum water content of the standard Proctor test to DIN 18127.

   Fine–grain soils or soils with particularly high water contents require a qualified test compaction.

4. The manufacturer/supplier shall not be liable for damage resulting from improper use.

5. Proper use shall also include observance of the operating instructions and adherence to the servicing and maintenance procedures.

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6.2 MAIN DATA

VMP 14

Engine

Make		HATZ
Model		1 B 20
Type		Single–cylinder air–cooled four–stroke diesel
Displacement	cm^3	232; 13,8 cu in
Performance DIN 6271	kW	3,1; 4,2 hp SAE net
Operating speed	rpm	2950
Starting device		Recoil starter
Air cleaner		Dry air cleaner
Fuel filter		Cartridge
Fuel consumption	l / h	1,2; 0,31 U.S. gal/h

Filling capacities

Fuel	l		3,2; 0,84 U.S. gal
Engine oil (engine)	l	API–CD–SAE 15W–40	0,9; 0,95 U.S. qt
Engine oil (exciter)	l	API–CD–SAE 15W–40	0,4; 0,42 U.S. qt
Hydrostatic system shift cylinder forward /reverse	l	HLP 46 DIN 51524	0,2; 0,21 U.S. qt

Exciter drive		Centrifugal clutch and V–belt drive
Exciter		Twin shaft directional force exciter active direction infinitely adjustable
Exciter frequency	Hz	80
Exciter force	kN	25
Exciter force/contact area	N/cm^2	20,6
Depth of compaction	cm	40
Contact area	cm^2	1211
Surface performance up to	m^2 /h	510
Operating weight	kg	135
Working speed (depend on ground conditions) forwards/reverse infinitely adjustable	m/min	0–20

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8.2 WORKING WITH THE EQUIPMENT

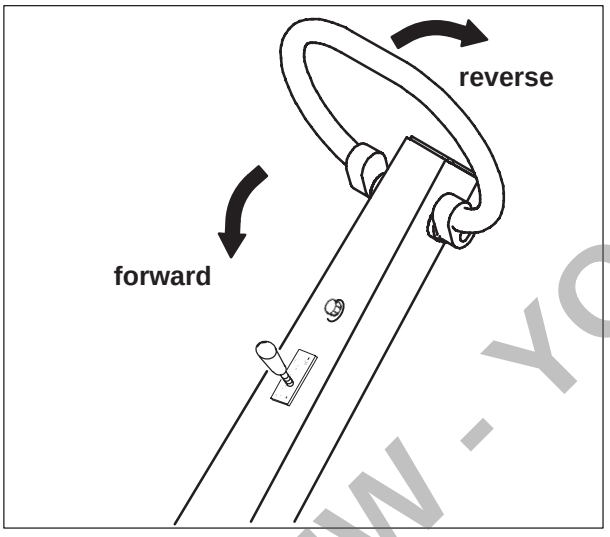
– Take hold of the speed/direction control.

– Apply full throttle briskly.

– The plate begins to move.

  Direction and speed of travel are governed by the speed/direction control.

  The infinitely variable adjustment also permits vibration with the machine stationary.



Caution: *The plate vibrator must always be operated on full throttle. Intermediate speeds lead to rapid wear and failure of the centrifugal clutch. Longer running at idle should also be avoided.*

Notes:

The following instructions should be observed under all circumstances during operation of the plate vibrator:

– All protective devices must be fitted.

– The machine operator must not leave the machine unattended.

– Owing to its design, the plate vibrator causes vibrations. The user must ensure that building structures, pipes and other facilities in the vicinity are not damaged by the vibrations.

– Refuel only with the engine switched off.

Caution: *Do not spill fuel onto the exhaust or other hot components. It may otherwise ignite.*

– Operation of the plate vibrator on rock, concrete or any other firm, non–compactible ground is forbidden.

– Operation in closed or constricted areas without adequate ventilation and extraction of the exhaust fumes is forbidden.

– During work on slopes, the plate vibrator must be secured by a rope attached to the roll–over protection bow.

– In the event of a defect in the operating or safety equipment, the plate vibrator must be stopped immediately.



The machine operator must never stand downhill of the plate vibrator.

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9.2 ENGINE

The procedures laid down by the engine manufacturer and contained in the manual provided must be followed for care and maintenance of the diesel engine.

9.2.1 CHECK OIL LEVEL IN EXCITER

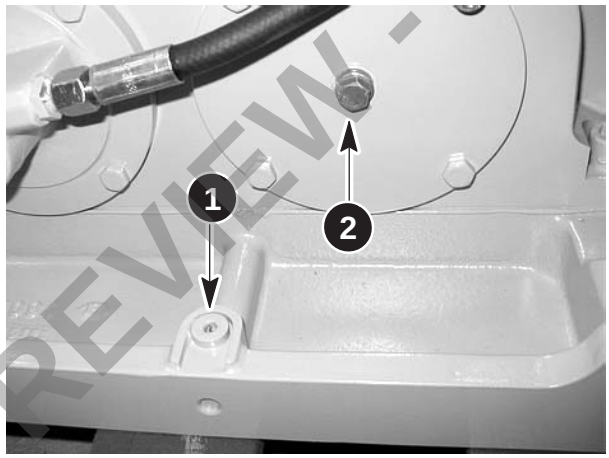
– Place machine in horizontal position.

– Clean surrounding areas of oil drain screw plug /oil level check screw plug (1) on left hand of exciter.

– Unscrew screw plug (1).
The oil level must reach the lower edge of oil level check bore.

– If necessary, fill in oil into oil filler screw plug (2) until oil will overflow at the oil level check bore (1).

After filling wait for about 3 minutes for possible overflowing oil, which must be proper disposed.



1. Oil level check screw plug / Oil drain screw plug
2. Oil filler screw plug

9.2.2 CHANGE OIL EXCITER

– Place machine in horizontal position, oil change should be carried out, if oil is warm.

– Clean surrounding areas of oil filler screw plug (2) /oil level check screw plug (1) on left hand of exciter.

– Unscrew oil level check screw plug (1) and oil filler screw plug (2).

Note: *Tilt plate the left. Oil drains.*

Attention: *Danger of scald hazard!*

– Oil must be collected and proper dispo–sed.

– Fill in oil into oil filler screw plug (2) until oil will overflow at the oil level check bore (1).

After filling wait for about 3 minutes for possible overflowing oil, which must be proper disposed.

– Turn in oil filler screw plug (2) and oil level check screw plug (1), check for leak tight–ness.

Oil change must be done once a year, quan-tities see section 6.2.

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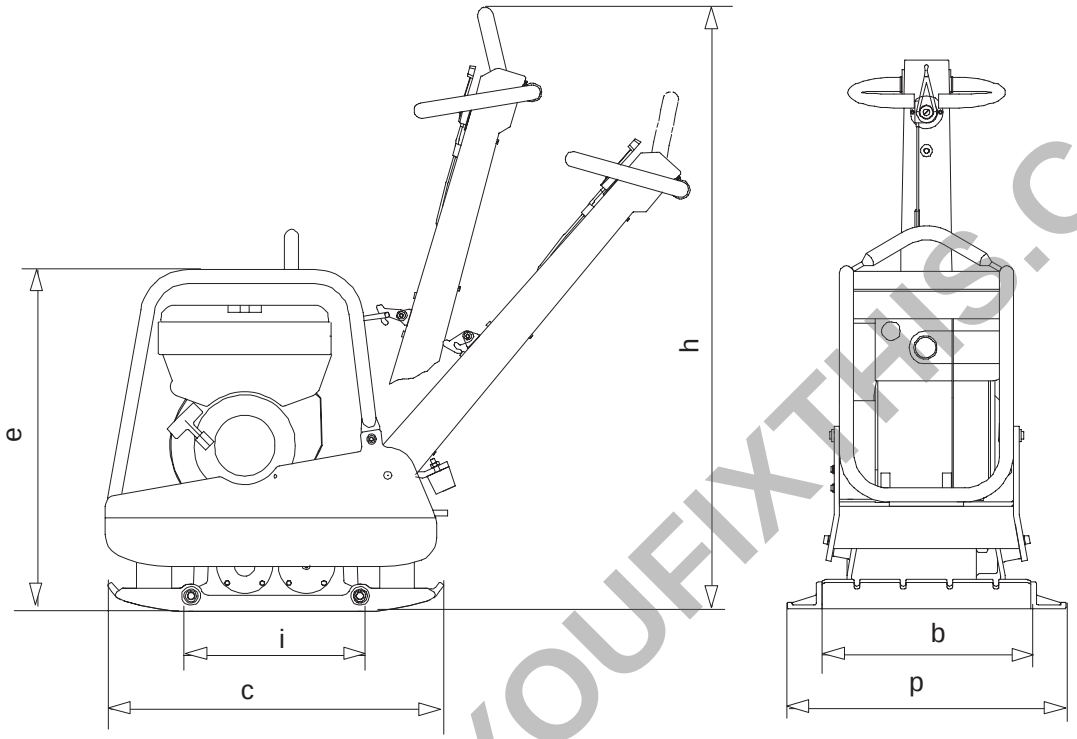
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6.0 TECHNICAL DATA

6.1 DIMENSIONS



mm	b	c	e	h	i	p_{max}
VMP 14	425	650	715	1075	285	425
VMP 18	450	720	755	1175	360	450
VMP 24	500	720	820	1170	360	600
VMP 40	500	900	935	1290	480	650
VMP 48	550	900	980	1315	480	650

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