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VIBRATING ROAD ROLLER WBR

WBR roller



WBR vibrating roller is a device for performing dirt road repairs. It is equipped with elements producing vibrations. It has been designed for compacting of a graded loose surface during a dirt road repair or maintenance.

Application of the roller allows for a significant improvement of pace and quality of road repair works. The compaction process should be technologically preceded with leveling using a grader (e.g. V3-220 or V4-240). Dirt roads covered with turf or roads that have been graded with rubble or asphalt waste must be shredded before compaction.

The device works with tractors of power rating above 120 HP.

The device has its own hydraulic system in which hydraulic oil flow is electronically controlled proportionally to PTO revolutions to match the vibrator's revolutions to a range between 25 to 32 Hz (nominal value 30 Hz). Nominal pressure in hydraulic system is between 220 to 260 bar, in the starting moment the pressure may rise to 350 bar. The range of vibrator's revolutions and the shaft's weight allow for selecting proper parameters to work on sandy soils, containing a slight amount of clay or some stone chips.

TECHNICAL PARAMETERS

Parameters	Value
Length	3370 mm
Width	2220 mm
Height	1500 mm
Weight	Approximately 5000 kg
Attendance	1 person
Recommended tractor's power	minimum 120 HP
PTO shaft's revolutions	1000 rpm
Drive	Own hydraulic system
Frequency	30 Hz
Amplitude	1,1 mm
Average working speed	Approximately 0,6 km/h
Compaction depth	From 25 to 50 cm (depending on the type of ground)



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Compaction of the structure takes place on the depth between 25 to 50 cm. To perform compaction of the top layer several working rides with deactivated vibrations should be done. Adjustment of frequency is done automatically by the device controller that reads revolutions of both, PTO shaft and the vibrator and proportionally controls the pump's adjuster. Working parameters, i.e. revolutions, hydraulic oil temperature, cooling fan's work are shown on the panel provided with the device. Rollers are equipped with own hydraulic system in which the hydraulic pump is powered with PTO shaft – tractor's PTO shaft optimum revolutions are 750 rpm.

