

PORTABLE SELF-CONTAINED VIBRATION BALLAST TAMPING MACHINE

MODEL VPS

The **Portable Self-Contained Ballast Vibration Tamping Machine model VPS** is designed to perform occasional ballast tamping under all type of railway sleepers (wooden, concrete or steel).

By its design the machine provides exceptional **lightness (the lightest available on the market)**, **autonomy** and **ergonomics**. It is a **railway dedicated machine**.



1. DESCRIPTION AND OPERATION

By its unique design, the **Portable Self-Contained Ballast Vibration Tamping Machine model VPS** is a portable and self-contained machine to ensure occasional tamping operations. Its integrated petrol engine makes it a compact machine and avoids the use of generating sets and feed cables.

In-depth research has been carried out with regards to the weight, ergonomics and vibrational features, in order to:

- Considerably reduce the weight of the machine;
- Considerably improve the ergonomics (handles positions, masses balances, optimum height, etc.);
- Considerably reduce the level of vibrations felt by the operator and to the petrol engine;
- At the same time gain excellent tamping quality.

1. DESCRIPTION AND OPERATION (Cont'd)

Due its ease of operation, autonomy and efficiency, the **Portable Tamping Machine model VPS** ensures a significant compromise between productivity and handiness.

The weight of the machine has been reduced to make it easily transportable, but still allow the penetration of the ballast by its own weight without any effort from the operator. The side operating position allows perfect visibility and the ergonomic design provides optimum grip.

Self-contained tamping machines, with integrated petrol engines, like the VPS, ensure a high tamping quality, unlike the percussive hammer type machines which damage the ballast. It is now possible to use equipment specifically dedicated to the railway environment.

To sum up, the VPS qualities are as follows:

- Designed for the railway environment, not for demolition work;
- Provides steady compact ballast structure avoiding any damage to the ballast (ballast crumbling, micro-cracks, premature wear of ballast edges);
- Tip enabling good penetration into the ballast and high quality tamping;
- Added ballast is directed to processed area by vibrations (no need to dive and remove the tool as for percussive hammers);
- Reduction of the engine acoustic level due to 4 stroke technology (violent impacts with percussive hammers provide high acoustic level);
- 4-stroke petrol engine allowing use of pure petrol (avoiding mixing inherent for 2-stroke petrol engines);
- Tubular construction with incorporated throttle and stop handles;
- No internally vibrating components that require maintenance (no greasing operations).

The portable tamping machine model VPS is supplied with its protective and transportation cover (see pictures here under).



2. TECHNICAL DATA

- Petrol engine **Honda GX35**, 4-stroke, recoil starter: 1,65 hp (1.2 kW) at 7,000 rpm
- Petrol tank capacity: 0,63 L
- Frequency of vibrations: 95 Hz
- Acoustic level at operators position: 86 dB(A)
- Dimensions:
 - Length: 525 mm
 - Width: 390 mm
 - Height: 1 105 mm
- Mass: ≈ 17 kg (*in working mode*)

*We reserve the right to modify any equipment specification of the present offer to take into account the latest technical improvements and working conditions at the date of manufacturing.
Pictures and drawings may include some options and are not contractual.*