

## Road-Rail Vehicles VHD-2



**Road-rail vehicle equipped with a railway drive system of two types:  
1) K-RR-32.WF-1 – friction type; 2) K-RR-32.HD-1 – hydrostatic type.**

The vehicle, built using the VOLVO automobile chassis as its foundation, serves as a complete technical solution for creating road-rail vehicles. These vehicles are particularly designed for the repair and construction of railway track superstructures.

Furthermore, this vehicle is suitable for being adapted into various other forms, such as machines for overhead catenary work, mobile rail welding units, and other construction machinery.

The vehicle is a self-propelled machine on a combined running gear, designed specifically for rail welding complex on railroad tracks.



Consists of a vehicle frame equipped with railroad axles for railroad tracks with the gauge specified by the customer.

Movement on railroad tracks with the gauge specified by the customer. The vehicle is equipped with hydrostatic type of railroad travel. The vehicle gets on and off the rails independently and in compliance with safety requirements.

The vehicle has the following main elements: a control cabin and a place for installation of a container with rail welding equipment. The vehicle can be used on roads in 8x2 configuration.

In the cabin of the base vehicle there is a control panel of the railroad vehicle. The cabin is heated and air-conditioned. Two flashing beacons are installed on the roof.



Movement on the railroad track is carried out with the help of special railroad wheels, which are mounted under the frame of the base vehicle and lowered by hydraulic cylinders; this operation is controlled from the control cabin or from the appropriate consoles located in close proximity to the railroad axles.

The movement and braking of the railroad vehicle is controlled from the control cab. For reversing, the driver's cab has a screen connected to a video camera located in the rear of the vehicle.

The driver places the vehicle over the rails at a railroad crossing or other designated location and then successively lowers the railroad axles. Video

cameras are placed near the axles to facilitate placing the wheels on the rails, and the images from the video cameras are transmitted to a screen located on the control panel.

In road travel, the railroad axles are folded under the vehicle frame and mechanically locked to prevent them from being lowered onto the road. To move along the railroad track, the combination vehicle is equipped with two white and two red lights at the front and rear.

For forward travel on the railroad track, the white lights at the front and the red lights at the rear are automatically activated; for reverse travel, the lights are activated in the opposite manner.

The auxiliary steel frame is rigidly fixed to the frame of the base vehicle. It is equipped with twist-lock type locks to allow mounting the container with rail welding equipment.