

Solid-bottom gondola, model 12-6877 (articulated)



Description

The 12-6877 six-axle articulated-type gondola car is unrivaled at the CIS market; it is designed for efficient transportation of cargoes in a wide range of densities.

The gondola car is unique in that it boasts an increased body volume and enhanced payload compared with other models available in the market. These parameters were attained owing to the fact that the articulated gondola car is fitted with the SAC-1 articulated connector that joins the two sections¹ of the car and ensures flawless passing through track curves including those with small radii.

The 12-6877 gondola car is compatible with public and private infrastructure and can be sent over a classification hump with no limitations. The design of the car allows unloading with tandem car dumpers used at large Russian ports as well as unloading with the modern VRS-125, VRS-134 models.

Extended service lives and maintenance intervals provide significant savings on life-cycle costs.

Using this car type to form trains will allow reducing the number of cars required for the transportation and increase the weight norm staying within the standard train length which raises transportation efficiency and boosts the railway network throughput capacity by up to 40%.

Designed by: All-Union Research and Development Centre for Transportation Technology, LLC.

Producer: Tikhvin Freight Car Building Plant, JSC.

¹Pit-shaped sections equipped with hatches.



Specifications

Technical specification	Model 12-6877
Number of sections, pcs	2
Number of axles, pcs	6
Payload capacity, t	117
Body space, m ³	135
Tare weight, t	32.5 ± 0.5
Length over coupler pulling faces, mm	16,880 ± 25
Wheel base, mm	12,440
Car width, mm	3,204
Car height, mm	3,850
Internal dimensions of each section: clear length at upper chord clear width at upper chord height	 7,790 3,008 2,617
Gabarit	1-BM
Load per meter of track, t/m	8.89
Bogie model	18-9855
Estimated static load from the wheel set on rails, kN (tf)	245.25 (25)
Regulatory overhaul period, thousand km (years)	500 (6)*
Service life, years	40

*According to the results of controlled operation, the period can be extended.