



RAILWAY CARRIAGES FACTORY ČAKOVEC Ltd.

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FOUR-AXLE SELF-PROPELLED CARRIAGE (BULK CARRIER) Eams-z

In project SELF PROP RAIL, the consortium aims to bring a new, innovative self-propelled bulk carriage to the market that does not need the locomotive for shuffling/moving during the process of cargo unloading.

One of the innovative parts of this carriage is the development of a new construction opening and the unloading of cargo on 3 sides (i.e. a '3-side dump'). The carriage consists of 2 cargo crates with the possibility of side and frontal lifting. The unloading is controlled, enables full load ejection as well as dosing and partial unloading of cargo at points along routes. There is no need for manual unloading of cargo, use of other machinery for unloading or use of physical force when opening the doors and sides that is common in existing bulk carriages for railway construction.



Co-funded by the Eco-innovation
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CARRIAGE FRAME

Wagon is constructed as a fully welded construction and consists of two side and two middle longitudinal girders connected solid cross-linked in a stable supporting structure. All parts of the frame are made from rolled steel sheets and profiles quality S355J2G3 according to the EN 10025-2.

Welding is performed by MAG M (135) method according to EN ISO 15085-2, with additional material quality G 42 4 C/M , 3Si1:EZ-SG2 according to HRN EN ISO 14341-A.

TECHNICAL SPECIFICATION OF THE CARRIAGE

Type of bogie	Y25 Lsd-1
Compressed air brake	Yes (KNORR) KE-GP-A-2x10"
Slack adjuster	DRV2A-450H
Number of axles	4
Axel load	22,5 t
Tara weight	37,34 t
Max. weight of loaded wagon	90,0 t
Cargo weigh	52,66 t
Max. speed of empty wagon	100 km/h
Max. speed of full loaded wagon	100 km/h
Loading volume	50 m ³
Loading area	30 m ²
Loading length	11,2 m
Loading width	2,72 m
Length between the pivot	10700 mm
Length over buffers	15740 mm
Width of tracks	1435 mm
Buffer height	1060+5 -10 mm
Draw gear	ST-9-2/160 - 1500 kN,
Screw coupler	1350 kN
Towing hook	1500 kN
Buffers	50 kJ



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