



Special 8-axle wagons series Uaai-z (994) with lowered floor

Freight wagons series Uaai are 8-axle wagons for transporting load which would, when transported in standard wagons, exceed maximum loading gauge and maximum weight of goods of up to 105 tons, such as transformers, generators and other large cargo. Within its freight wagon fleet, “Srbija Kargo” a.d. has one 8-axle wagon series Uaai-z. The wagon frame has installed elements for load fixing and lies on two 4-axle bogies. It can be moved on one or the other side with installed hydraulic equipment by 250 mm. Besides the beds for the wagon frame, on each support there is a large enough platform from which the hand brake is operated and it can be dismounted. One of the cabins is equipped for the wagon accompanying staff and the other contains tools and additional equipment. The wagon is equipped with air brake, and each bogie is braked using hand brakes independently from the air brake. Due to its specific technical characteristics, this wagon, when empty or loaded, operates under specific conditions (as exceptional consignment).

Technical characteristic of the freight wagon series Uaai-z

LETTER WAGON SERIES		Uaai-z
NUMERIC WAGON SERIES		994
Number of axles	-	8
Distance between bogie pivots	m	17,20
Distance between end axles	m	21,78
Distance between axles in bogies	m	1,50
Length over buffers	m	24,78
Loading length of the lowered part of the wagon	m	8,50
Loading width of the wagon floor	m	2,70
Height from the top of the rail to the loading aperture	m	3,69
Height from the top of the rail to the floor of the lowered part of the wagon	m	0,70
Loading capacity	t	110
Wagon dead weight (tare)	t	54,80
Maximum speed (Vmax)	km/h	80
Capability of operation in the curve radius	m	75
Interoperability capacity	-	NO

Meaning of the subseries for the wagon series U:

aa – with 8 axles

i – for transporting goods which would, if loaded in standard wagons, exceed the loading gauge

z – hand brake

Loading limits in tons:

A	B	C
57,00	89,00	105,00

* Wagon loading limits can be, depending on the wagon dead weight (tare), slightly higher or lower than the values indicated in the above table