

## Special 4-axle wagons series Uacs-z (931) for transporting powder and grain materials



Freight wagons series Uacs-z are 4-axle wagons primarily for transport cement, but can also be used for transporting other powder materials or grain with sizes of up to 3mm in diameter with specific mass of up to 1.0 t/m<sup>3</sup> (lime, gypsum, cereals). Nevertheless, when the grain size is larger than 2 mm, only the materials with suitable physical characteristics can be transported, primarily the materials of low specific weight (wheat, alumina). Loading is performed by gravity, through four hatches of 500 mm located on the top side of the wagon-tank. Unloading is performed by air under pressure through pipe connections placed on each side of the wagon on two places. In this manner, the entire wagon can be emptied at once or one part of the tank can be emptied and then the other one separately. The method of emptying of the tank depends on the available quantity of air.

### Technical characteristic of the freight wagon series Uacs-z

LETTER WAGON SERIES		Uacs-z
NUMERIC WAGON SERIES		931
Number of axles	-	4
Distance between bogie pivots	m	9,85
Length over front supports	m	13,65
Length over buffers	m	14,89
Silo volume	m <sup>3</sup>	60,00
Number of silos	-	2
Number of loading hatches	-	4
Height of the loading hatch above the top of rail	m	4,27
Emptying connections – number	-	2
Emptying connections – dimensions	Inches	4
Air connections – number	-	2
Air connections - dimensions	Inches	2
Necessary air quantity	m <sup>3</sup> /min	30
Necessary air pressure	Bars	2,5
Wagon dead weight (tare)	T	23,80
Interoperability capacity	-	RIV

### *Meaning of the subseries for the wagon series U:*

- a** – with 4 axles
- c** – wit unloading under pressure
- s** – for the speeds of up to 100 km/h
- z** – hand brake

### *Loading limit in tons:*

	A	B	C
S	40,00	48,00	56,00

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