



Basic technical informations

General

Track width	1 435 mm
Gauge	TSI G1
Length over the buffers	app 12 600 mm
Distance between the central bolts	app 7 560 mm
Wagon height from the top of rail	app 4 300 mm
Tare weight	app 19 t
Maximum loading capacity	app 71 t
Max. axle load	22,5 t
Max. speed (loaded)	100 km/h
Bogie type	Y 25 Lsi(f)-C
Brake	Compact air brake

Silo

Total volume	74 m ³
Operating pressure	2 bar
Test pressure	2,9 bar
Operating temperature	-20 °C/+50 °C

Fittings

Manhole	1 pneumatically operated
Discharge opening	DN 100
Air supply	DN 80



The right choice for cement transportation!



Uacns 74 m³



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The specified technical data and measures are informative and they are subject to final fine alignment with the customer's requirements within the available and technology solutions.

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General information

Wagon Uacns is designed for cement transport. Innovative design, implementation of high strength materials and lightweight equipment resulted with optimal ratio of loading volume (74 m³) and wagon tare weight (19 t).

The distinctive concept of the silo, a modern pneumatic discharge system, and the optimised compressed air supply system guarantee the shortest time of discharge and minimum retaining cement quantity after discharging.

Semi-automatic loading process is based on remotely controlled and pneumatically operated manhole hatch.

Mentioned concept guarantees quick and simple handling and low operational costs during wagon loading and discharging.

Design, manufacturing and equipment are according to PED, TSI, UIC, RIV, EN, ERRI and GCU.

Design

Lightweight but strong, small in dimensions but with high loading volume, simple but efficient.

The wagon is optimised using the Femap software with NX Nastran solver for FEM analysis.

Wagon silo is designed to meet the requirements of PED 97/23/EC.

Underframe creates a strong compact structure with the silo according to the requirements of the EN 12663:2010.

Uacns 74 m³

Wagon equipment

Compressed air supply, loading and discharging system

Wagon loading is achieved by free drop of cement through remotely controlled and pneumatically operated manhole hatch. Discharging is performed by compressed air through opening located on lower part of wagon silo. The diameter of the discharge opening equals 150 mm, with dismantable reduction to 100 mm diameter, and a standard DN 100 coupling installed, to fit most of the discharging terminals. Compressed air supply uses standard DN 80 couplings.

Bogies

The wagon is equipped with two bogies type Y25Lsi(f)-C (with measure valve), adopted for installation of compact brakes, wheel set type BA 004/182.

Brake equipment

Wagon is equipped with compact air brake. Twenty percent of wagons are equipped with a parking brake operated from the ground. Main overhead line is passing type of 5/4", with end cock and connector hoses at the end of the wagon.

Draw gear

There are two screw couplings with draw hook (draw force 1500kN) and clutch 1350 kN draw force.

Buffers

The buffing device consists of four (4) class „B“ buffers (50 kJ) according to UIC 526 and 527-1.

