



Product innovation

DryTainer

New standard for transporting
moisture-sensitive bulk goods

www.innofreight.com



The DryTainer offers an optimized transport volume for dusting, trickling and moisture-sensitive goods. With the right InnoWaggon depending on the specific weight of the goods, the DryTainer offers the total transport solution.



System benefits

- > Goods are protected against moisture
- > Various lengths and volumes in combination with different InnoWaggons depending on the transported goods
- > Separation of superstructure and wagon while unloading
- > No contamination of the wagon while loading, unloading and during transport
- > Safe and controlled loading and unloading
- > High payload per wagon
- > Full utilization of wagon capacity for track class D
- > Wagon with DryTainer XM runs in profile G1 without additional permits

Loading

- > Gravity loading
- > Minimized dust pollution due to the pyramid shape
- > Possibility to automatically clean and dry the loading gate to minimize contamination of the loaded goods

Unloading

- > Stationary unloading machine or forklift with rotator
- > Operation by one person from air-conditioned cabin
- > Minimized dust pollution due to the pyramid shape
- > Huge unloading flow compared to pressurized unloading
- > Dosed gravity unloading possible

DryTainer application areas

Transport of sensitive goods

The DryTainer offers safe loading, unloading and transport of sensitive goods. There is no pollution during the transport, which means, the quality of the material will stay the same. The superstructure and the wagon are separated while unloading. Sensitive goods that can easily be transported with the DryTainer include direct reduced iron DRI (B), (C) or cement clinker.

Transport of highly polluting goods

The pyramid shape allows a mostly dust free loading and through the separation of superstructure and wagon, the wagons are not polluted during unloading. No unloading bet-

ween bogies offers safe operation all year round, also during cold winter temperatures. With the DryTainer there is less corrosion on the wagon when transporting highly polluting goods like salt or quicklime.

Transport of dust and free flowing materials

In combination with the fitting InnoWaggon, the DryTainer offers a higher payload per train length in comparison to conventional silo wagons. There is no need for new, expensive wagons, pressure containers or pressure unloading. The container offers short unloading for big transport volumes and is well suited for the transport of ashes, sand or quartz crystals.

DryTainer



DRI unloading with forklift



DRI unloading with stationary unloading machine

	DryTainer XM 13 ft / 22 m³	DryTainer XM 13 ft / 22 m³	DryTainer XL 15 ft / 26 m³	DryTainer XXL 15 ft / 32 m³
InnoWaggon (IW)	2x30 ft	2x40 ft	2x45 ft	
No. of DryTainer / IW	4	6	6	
Length over buffer (LoB)	22,500 mm	26,620 mm	29,520 mm	
Tara	39,600 kg	46,500 kg	47,900 kg	49,500 kg
Max gross	180,000 kg	180,000 kg	180,000 kg	180,000 kg
Payload	140,400 kg	133,500 kg	132,100 kg	130,500 kg
Volume	88 m³ (4 x 22 m³)	132 m³ (6 x 22 m³)	156 m³ (6 x 26 m³)	191 m³ (6 x 32 m³)
Goods (examples)	DRI direct reduced iron	salt, cement clinker	lythium ore, quicklime	wood pellets, grain
Total height	3,974 mm	3,974 mm	4,593 mm	4,593 mm
Width	2,900 mm	2,900 mm	2,900 mm	2,900 mm
Loading gauge	G1	G1	G2	G2



Four DryTainer XM 13 ft / 22 m³ on 2x30 ft InnoWaggon for extra heavy bulk goods like DRI



Six DryTainer 15 ft / 26 m³ on 2x45 ft InnoWaggon for medium heavy bulk goods like lythium ore or quicklime



Six DryTainer XM 13 ft / 22 m³ on 2x40 ft InnoWaggon for heavy bulk goods like salt or cement clinker



Six DryTainer 15 ft / 32 m³ on 2x45 ft InnoWaggon for light bulk goods like wood pellets or grain

InnoWaggon – the lightweight base

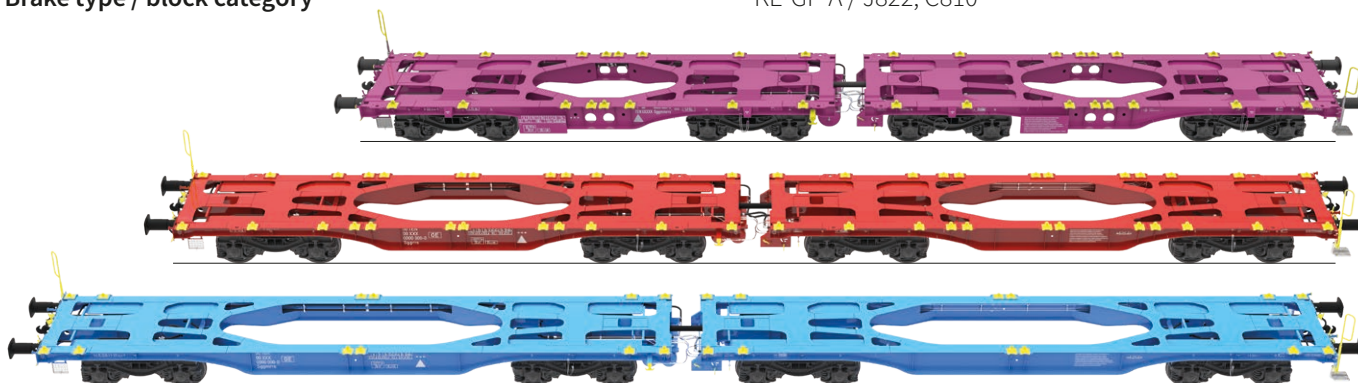
Every superstructure needs a suitable base – the weight-optimized InnoWaggons provide the optimum base for the DryTainer. They consist of two close-coupled wagons in a special lightweight design, each with four axles. The wagons are approved for a maximum speed of 120 km/h.

All InnoWaggons are equipped with GPS sensors from Nexiot that transmit position, speed, temperature and shock

events. This data, available in the Innofreight OS app and on the Innofreight OS platform, can also be imported into customer systems via interfaces.

The InnoWaggon family offers double wagons in three variants: 2x30 ft, 2x40 ft and 2x45 ft, providing the appropriate basis for all Innofreight superstructures, depending on the transported goods.

Technical data	2x30 ft InnoWaggon	2x40 ft InnoWaggon	2x45 ft InnoWaggon
Classification	Sggmmrrs, 4658	Sggrrs, 4854	Sggmrrs, 4657
Track class	A, B1, B2, C2, C3, C4, D2, D3, D4		
Tare weight	28.4 t (2 x 14.2 t)	29.7 t (2 x 14.85 t)	29.9 t (2 x 14.95 t)
Max. payload	151.6 t	150.3 t	150.1 t
Max. axle load	22.5 t	22.5 t	22.5 t
Max. meter load	8.00 t/m	6.76 t/m	6.09 t/m
Max. container pins	32	48	32
Floor height above rail level	1,155 mm	1,155 mm	1,155 mm
Loading length	2 x 10,310 mm	2 x 12,370 mm	2 x 13,820 mm
Length over buffer	22,500 mm	26,620 mm	29,520 mm
Width	2,874 mm	2,890 mm	2,890 mm
Distance between bogie pins	6,500 mm	8,070 mm	9,520 mm
Bogie wheel base	1,800 mm		
Wheelset diameter	920 mm		
Number of axles	8 (2 x 4)		
Min. curve radius	75 m		
Max. speed	120 km/h		
Brake type / block category	KE-GP-A / J822, C810		



INNOFREIGHT Solutions GmbH

Grazer Straße 11, 8600 Bruck an der Mur, Austria
info@innofreight.com | www.innofreight.com

*moving limits
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