

FAG TAROL Units in the “Rolling Highway”

FAG

Examples of Application Engineering

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“Rolling Highway” train

Photo: Courtesy of Hupac Intermodal SA

Eight-axle, Saadkms type “piggy-back” flat rail-wagons are used by various railway companies, e.g. Hupac (Switzerland) and ÖBB (Austria) for transalpine transport of heavy goods vehicles. In special terminals, trucks drive directly from the street onto the wagon via a ramp to be transported to their destination. The drivers can rest in a special sleeping car, re-board their trucks at their destination and deliver the goods safely to their customers.

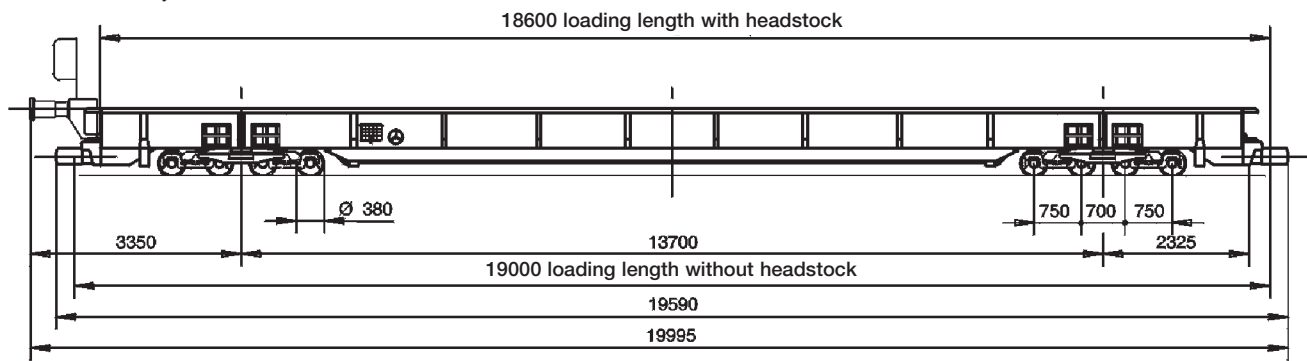
This form of combined road-rail transport – Rolling Highway – is rapidly gaining importance, not least due to a significant increase in the volume of traffic and a growing environmental awareness. According to recent statistics, Rolling Highway transport accounted for approx. 29% of all international shipments in 2002 (data provided by the International Union of Combined Road Rail Transport Companies – UIRR, May 2003).

Apart from economic advantages such as reduced infrastructure costs, this form of transport also offers advantages to customers, for example:

- lower labour costs
- reduced expenses for road tolls
- no driving ban on Sundays and holidays
- less damage caused to goods during shipment.

FAG Kugelfischer AG supplies axle box bearings and housing adapters for the bogies of the flat rail wagons.

Train data, technical data



	Saadkms 5.274	Saadkms 5.275
Max. payload	42 t. (trucks)	up to 44 t. (trucks)
Max. wheelset load	7,5 t.	8,25 t.
Bogie type	four axles, rubber-sprung, BA 690	
Wheel diameter	360/335 mm	380/355 mm
Permissible speed	100 km/h	100 km/h
Axle box bearings	TAROL90/154.572103.-	TAROL100/175.578693.-
Adapter	ADAP.170627.A	ADAP.171959.A

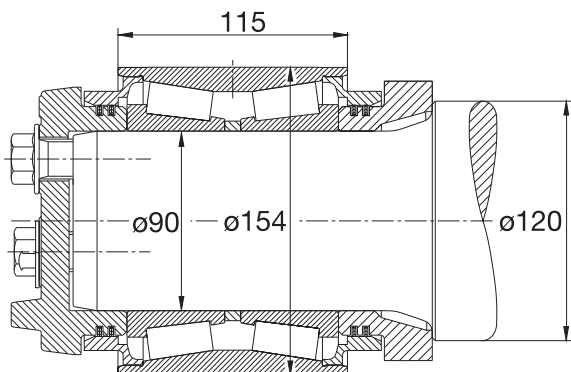
Drawing: Eight axle, Saadkms type "piggyback" flat rail-wagon, used with the permission of Bombardier Transportation Niesky.

Axle box bearings

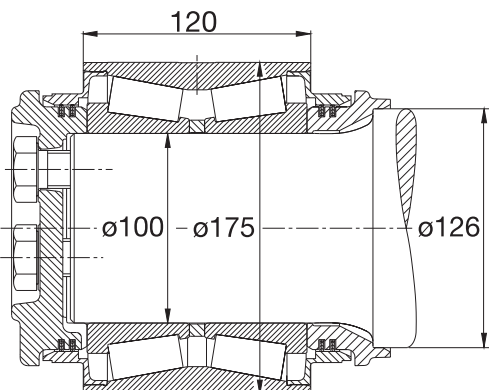
The wheelsets are supported by two TAROL units with lamellar ring seals. TAROL units are double-row tapered roller bearings with a preset clearance that are greased and sealed at the manufacturer's plant.

Two types are available:

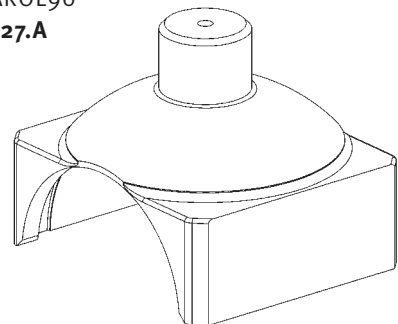
TAROL 90/154.572103.- (Ø 90x154x115 mm)



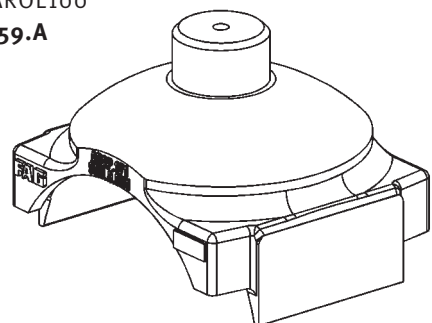
TAROL100/175.578693.- (Ø 100x175x120 mm)



Adapter TAROL90
ADAP.170627.A



Adapter TAROL100
ADAP.171959.A



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