TCK ON TRACKS

LiftOk-Rs

LiftOk

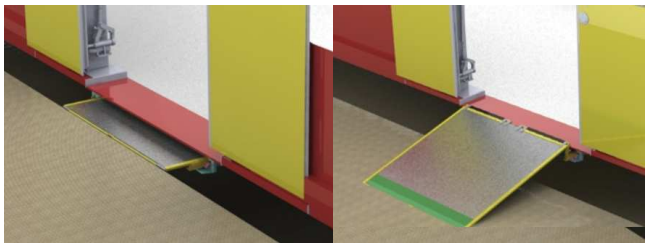
SDE-0005-2013

Generalities

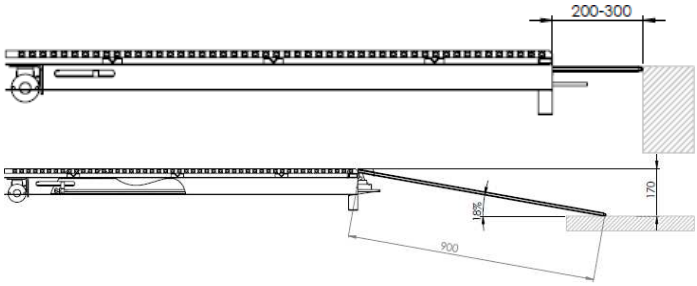
Low Floor Vehicles, trains, trams or buses can be equipped with a ramp The Tekontracks ramps are made of a lightweight laminated material equipped with non-slip surface.

The ramp motion is driven by an electric motor coupled to a shaft and nut.

The system can easily operate both as a step or as a closing element of the space between the platform and the vehicle floor, or as the ramp itself.



The ramp is designed to be easily installed under the floor of the vehicle



“LiftOk-Rs” Main features

The frame structure is based upon a steel profile. The particular geometry of the profile makes it particularly suited to withstand the stresses induced by the vehicle frame in the transverse direction.

The motion chain is particularly designed to ensure the ability to operate in extremely harsh operating conditions.

Particular attention has been paid to ensure the operations under emergency conditions (manual operation of the extraction and retraction of the ramp).

The manual emergency device is positioned in a protected location and its operation is granted by a special crankshaft with swivel joint with hexagonal insert.

The particular configuration of the ramp and the support device to the vehicle floor, allows to safely operate the ramp being supported on one side to ground and the other to the vehicle structure.

Maximum load	350	kg
weight	150	kg
Length	1410	mm
Width	1290	mm
Height	140	mm
Loading plate width	1150	mm
Loading Plate length	900	mm
Slope angle (max)	18	%
Power supply voltage range	12-110	Vdc
Power consumption	0,3	kW

All dimensions and load weight can be tailored to Customer requirements.

Based on it modular design several possible configurations in terms of dimensions of the ramp and supply voltages might be to easily comply Customers needs.

This flexibility makes it possible to implement them both on rail vehicles, trams, trains and busses.

The ramp control system is designed according to the EN 50155 requirements (railways electronic equipments) specifically referring to:

- operating voltage range,
- dielectrics loads resistance,
- pulse current resistance capability
- temperature range,
- vibration resistance.

The ramp control to meet the requirements of the EMC 50121-3-2 (Electromagnetic compatibility Part 3-2: "Rolling Stock - Apparatus").

“LiftOk-Rs” Operational sequences

The motion of the ramp is speed controlled in order not to loose performances and meanwhile without causing damage to unwary bystanders who were to stay within the field of action of the ramp during operations.

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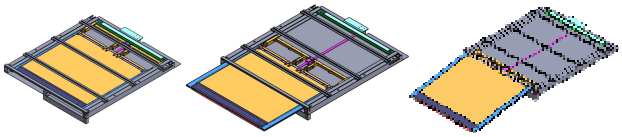
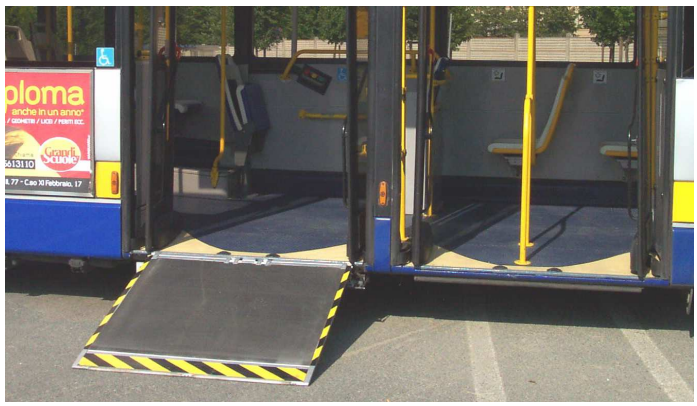
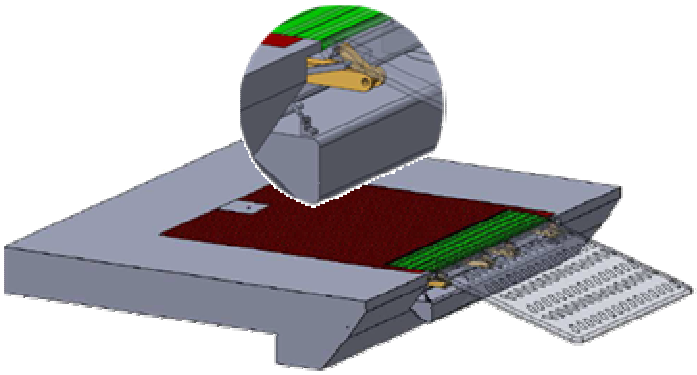


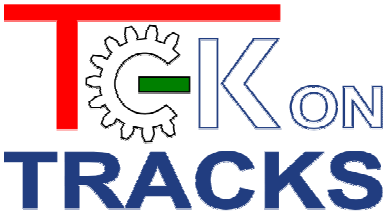
Some References

The first patented ramp prototype was applied with the brand by Bestgroup Industrie, trademark and patent now owned by Tekontracks, on a vehicle of GTT (Gruppo Torinese Trasporti).



A prototype of the new generation ramp with innovative features and suited to the rugged northern environmental contitions, will be installed on a NSB Class 72 vehicle.





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