

Innotrans 2018 Recap

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SNC • LAVALIN



Overview

Innotrans is the rail transport industry's largest trade fair, held bi-annually in Berlin

- › Four days, with outdoor exhibits held over for the weekend for public display
- › 3,062 exhibitors representing 60 countries
- › 155 vehicles on outdoor display
- › 161,157 visitors representing 149 countries



APTA at Innotrans

APTA – UNIFE MOU signing ceremony. Framework for cooperation and information exchange.



Trams at Innotrans

Siemens Avenio for Ulm, Germany



- › 100% low-floor
- › 5 module, 3 truck
- › 31.5 m
- › 2.4 m width
- › Uni-directional
- › Aluminum carshell

Trams at Innotrans

Skoda tram for Chemnitz, Germany



- › 100% low-floor
- › 5 module, 3 truck
- › 31.4 m
- › 2.65 m width
- › Bi-directional
- › Stainless Steel carshell

Trams at Innotrans

Skoda tram for Chemnitz, Germany. Interior



Trams at Innotrans

Durmazlar Silkworm tram for Bursa, Turkey



- › 100% low-floor
- › 5 module, 3 truck
- › 29 m
- › 2.45 m width
- › Bi-directional

Trams at Innotrans

“Lionet” low-floor bogie tram for Russian market. 16.5m length by PC Transport, Russia. Autonomous operation demonstration project announced 2019.



Trams at Innotrans

“Lionet” low-floor bogie tram for Russian market. 16.5m length by PK Transport, Russia.



Trams at Innotrans

“Lionet” low-floor bogie tram for Russian market. 16.5m length by PK Transport, Russia. Fully low-floor, although bogie boxes narrow the aisle.

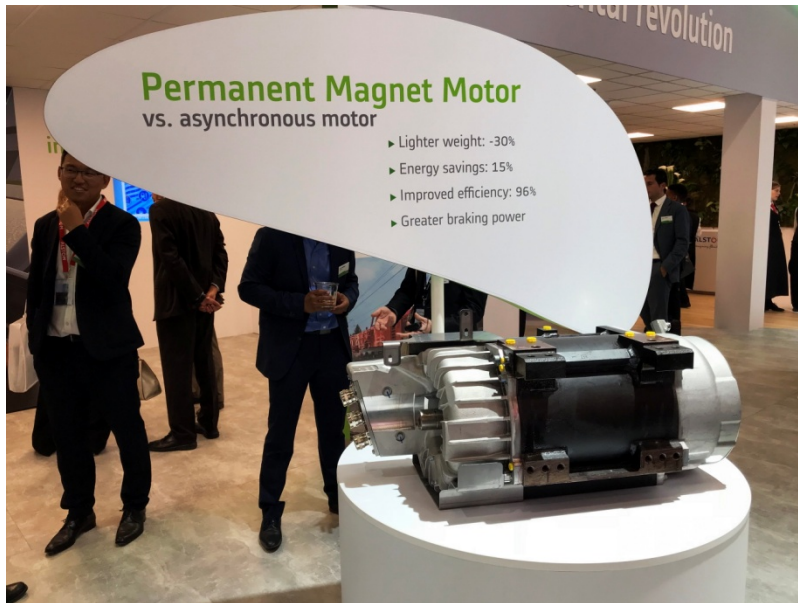


Trams at Innotrans- Driver's Cabs

Master controller and/or frequently used controls installed in armrest of driver's seat.



Innotrans 2018 Technology Highlights



Permanent Magnet motors



Sensor technology for vehicle subsystem monitoring

Innotrans 2018 Technology Highlights

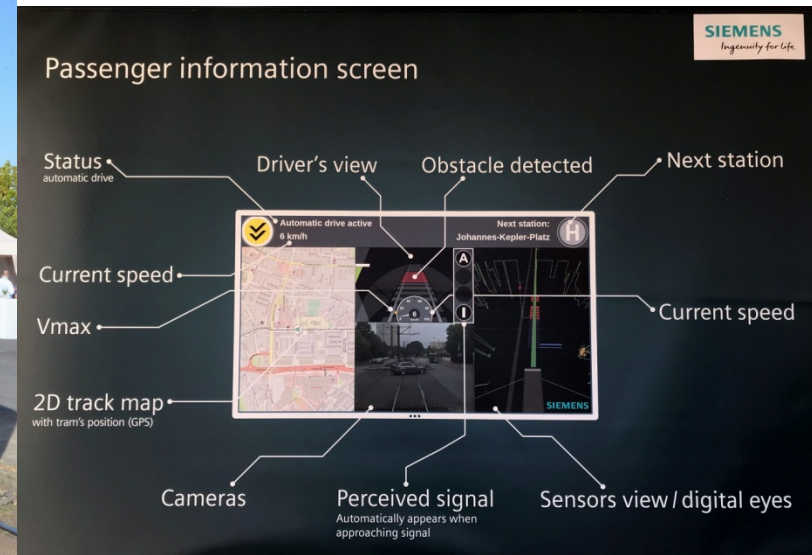


**Hyundai Rotem steerable bogie for
15 m curves (virtual demo)**



**Alstom APTIS electric bus technology
w/ four steerable wheels**

Innotrans 2018 Technology Highlights



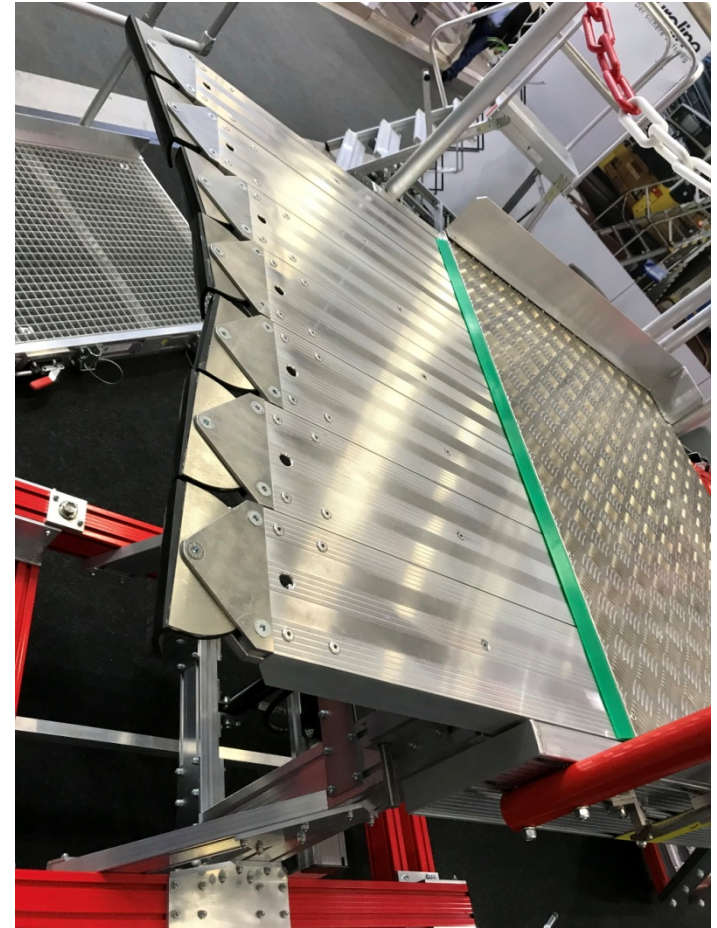
Siemens autonomous tram demonstration on Potsdam tram system

Innotrans 2018 Technology Highlights



Siemens autonomous tram demonstration on Potsdam tram system

Innotrans 2018 Technology Highlights



Gunzberger work platform gap fillers

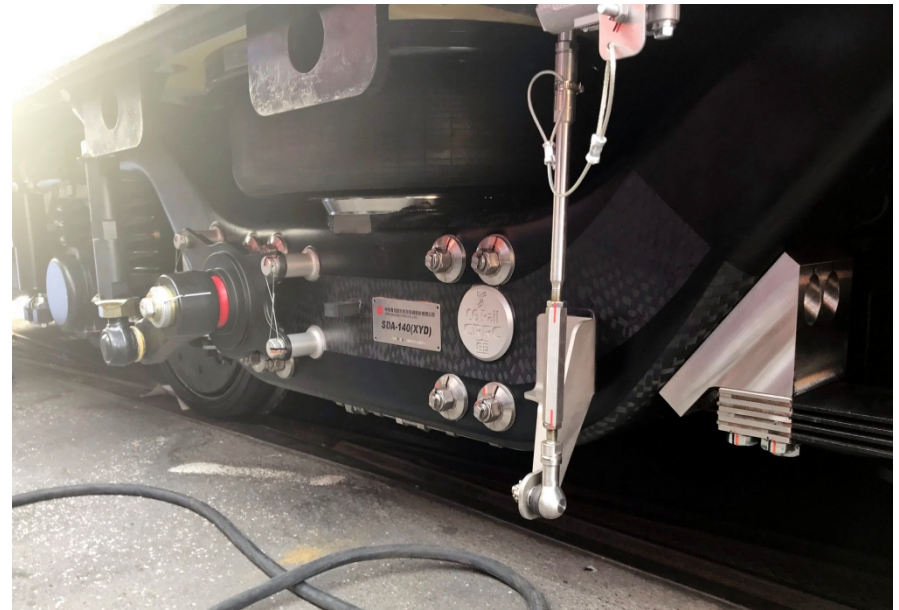
Innotrans 2018 Technology Highlights

First railcar from Chinese carbuilder at Innotrans. CRRC concept metro car- carbon fiber carshell and truck frames.



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First railcar from Chinese carbuilder at Innotrans. CRRC concept metro car- carbon fiber carshell and truck frames.



Innotrans 2018 Technology Highlights

Stadler driverless metro car for Glasgow Underground



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Stadler driverless metro car for Glasgow Underground



Next Innotrans: 2020

