

## Exhibition Preview

ing simulators for metros, high-speed railways, and mainline passenger and freight trains for a decade, has now added a compact simulator for light rail and tram-train operators. It creates a virtual urban traffic environment using computer-generated images. The instructor can control exercise parameters, for example, to change weather conditions, implement faults, or cause accidents.

**Lenord & Bauer**, Germany, specialises in speed sensing, and will show products for traction control, wheel slide prevention, and automatic door control. High-resolution speed sensors, for example, are used to improve motor and traction control. Multi-function sensors for complex applications and even sensors which con-



Train lifting platforms from Hywema.

thority (RATP) to offer specialised test services for rolling stock, signalling and operational dependability, infrastructure, and the environment. Projects have included tests for braking, dynamic behaviour, acoustics, and pantograph behaviour for high-speed trains in Korea, United States, Germany, Italy, and France, plus many more urban projects for major metros such as London, Singapore, New York, Taipei, Brussels, Athens, and Warsaw.

**SAB Wabco**, Sweden, presents a new way of planning the repair and maintenance of wheelsets and bogies through a drive-through laser measuring system that should dramatically shorten vehicle downtime. Vehicles travel by the four-component measuring system at 25km/h or 40km/h. Four individual sensors are installed in two independent cavities on each side of the track. These provide wheel profile data such as flange height, width, and thickness, wheel width, tread circle diameter, and the distance between in-

ternal wheel faces. These are compared with stored data of the required profile in order to calculate the work that needs to be done in the workshop.

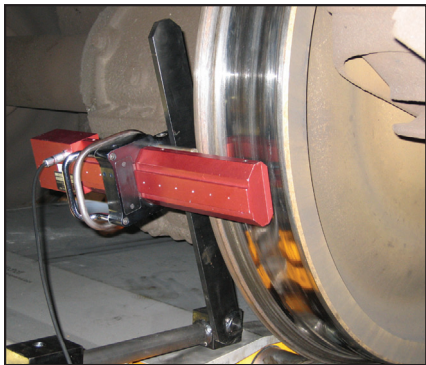
A compact mobile wheel profile measuring system designed for the restricted space conditions of low-floor vehicles will be shown by **Dr D Wehrhahn Messsysteme**, Germany. The non-contact laser system is used to acquire technical wheel profile data on a stationary vehicle. Calculation software is part of the measuring system to determine and display all parameters for quality and wear-and-tear evaluation of the wheel.

**Cefam**, France, will show its range of motorised and manual mobile lifting platforms, which can be used to provide access to vehicle roofs; motorised and manual mobile lifting tables for installing or reinstalling equipment such as compressors, air-conditioning units, and engines in pits; fixed platforms and tables; and fixed platforms and tables.

**Hywema**, Germany, promotes its train lifting platforms, as recently installed with the Schönbuch Railway in Germany for RegioShuttle trains. The mobile jack array consists of four individual lifting platforms each with a capacity of 15 tonnes. Major features include an anti-crash spindle system, a dynamic load monitoring facility, and an electronic synchroniser with an accuracy tolerance of a few millimetres.

**Cubic Transportation Systems** will show a station ticket validator for contactless smart cards. It quickly verifies transit validity (for passes) and deducts fares as required (stored value). It can be used across transit modes. The company will also show a wide version for disabled passengers of its Universal Gate 2000. It has a 900mm wide walkway. Smart cards can be personalised to give a disabled passenger the independence to use the wide opening facility.

**Sadamel Ticketing Systems**, Switzerland, has 50 years experience in the fare collection market, and will show one of its latest products, the CRU004-06 coil recycling unit that provides "intelligent coin management" for a large number of currencies



Dr D Wehrhahn's mobile wheel profile measuring system.

tribute to reducing motor noise will be on display.

**Eurailtest**, France, combines the engineering, audit, and testing capabilities of the laboratories of French National Railways (SNCF) and Paris Transport Au-



Cubic's wide version entry gate for disabled passengers.

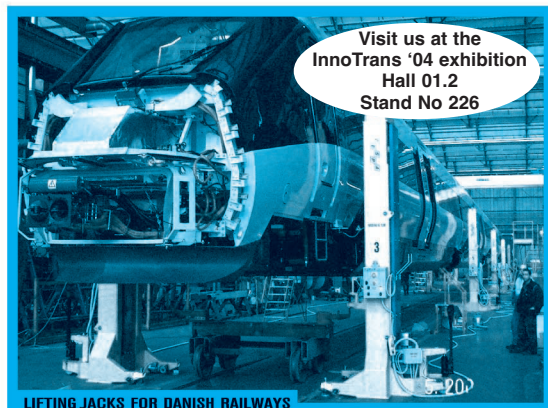
and denominations. This year, Sadamel also installed in Portugal a smart card ticketing system combined with gate access and audio assistance easily accessible for handicapped passengers. **IRJ**

**CESPA**

**WORKSHOP EQUIPMENT**  
LIFTING JACKS - PROVISORY BOGIES - LIFTING SYSTEMS  
LIFTING GRABS - SPREADER BEAMS - HANDLING EQUIPMENT

Recently, CESPA/ITALY delivered a set of 10 mobile lifting jacks, capacity 20 tons/each, to ANSALDOBREDA destined for the lifting of the new trainset for DANISH RAILWAYS. These new jacks are self-movable on floor by 2 gearmotors installed on the front wheels to facilitate the operation of positioning the jacks.

**LOOKING FOR AGENTS  
WORLDWIDE**



Visit us at the  
InnoTrans '04 exhibition  
Hall 01.2  
Stand No 226

LIFTING JACKS FOR DANISH RAILWAYS

I - 80147 NAPOLI, VIA L. VOLPICELLA 145 - TEL: +39 081 7524863 FAX: +39 081 5590561 WEB: www.cespaitaly.com e-mail: info@cespaitaly.com