

Presseinformation

Press release

Information de presse

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**Pfleiderer track systems at InnoTrans 2004, from 21 to 24  
September, in Berlin**

## **Innovative track systems for mainline and urban rail transportation**

- *Pfleiderer takes part in major projects in Europe and Asia*

*Neumarkt, Germany, 16 June 2004* –This year at InnoTrans 2004 in Berlin, Pfleiderer track systems will present its innovative track systems for mainline and urban rail transportation. All of these low-maintenance systems guarantee stable track positioning and offer excellent ride comfort, also at high speed and under extreme operational conditions. The Pfleiderer spectrum of services encompasses all phases of product creation: beginning with engineering; including production, supply, and logistics; and extending to quality management – for all tracks built on ballast, asphalt, or concrete.

### **RHEDA 2000<sup>®</sup> for high-speed mainline traffic**

Pfleiderer offers high-performance track systems – closely customer-oriented, and always representing the state of the technical art. Within the broad portfolio of Pfleiderer concrete-based track systems, RHEDA 2000<sup>®</sup> represents an outstanding development: a monolithic, ballastless track system for high-speed applications. For the new high-speed rail line from Cologne to Frankfurt (Rhine-Main complex), Pfleiderer track systems installed more than 130 km of RHEDA 2000<sup>®</sup> track, with 180,000 special, patented sleepers. Currently, Pfleiderer is carrying out additional major projects of this nature, including the line from Nuremberg to Ingolstadt (Germany), the North-South link near Berlin, as well as the high-speed Dutch HGV line from Amsterdam to Brussels (HSL-Zuid). For this project Pfleiderer track systems is delivering approx. 280,000 special RHEDA 2000<sup>®</sup> sleepers and – together with the Dutch

construction company Royal BAM N.V. – is directly responsible for project design, engineering, and quality management. Pfleiderer track systems is also playing a key role in the high-speed rail line presently being constructed in Taiwan, which will link the capital of Taipei in the north to the metropolis of Kaohsiung in the south. Operations there are scheduled to begin in 2006. In addition to extensive engineering services for the design and construction of important line sections, one of the main tasks being undertaken by Pfleiderer track systems in Taiwan is installation of train-station facilities and turnouts, on the basis of its patented RHEDA 2000® technology.

### **Solutions for the modernization of tunnels: RHEDA 2000® and GETRAC® A3**

Owing to its low structural height, RHEDA 2000® technology likewise offers essential benefits in the upgrading of existing tunnel systems. The system allows expansion of the track clearance envelope and, in turn, enables increases in train speed and line-carrying capacity. Several such projects have already been carried out in England, and others are planned in various countries. An additional alternative for such applications is the asphalt-based GETRAC® A3 system. The wide sleepers featured by this system reduce the contact pressure exerted onto the upper layer of asphalt. The GETRAC® A3 system offers not only long-term savings in maintenance, but also great cost-effectiveness resulting from high levels of productivity in track installation, as well as very short construction periods. In the Esslingen Mountain Tunnel project in southwest Germany, Pfleiderer track systems will for the first time install two different ballastless track systems for one project: its GETRAC® A3 and RHEDA 2000®. This innovative combination of the advantages of two systems will implement track technology that will set new standards with respect to track availability and performance capability.

### **Proven mass rapid transit systems: the RHEDA CITY and RHEDA MRT**

Pfleiderer track systems has taken the advantages of ballastless track systems, already long proven for mainline and high-speed train traffic,

and applied it to urban mass rapid transit applications – with solutions developed especially for metropolitan users. In these applications in numerous metropolitan areas, Pfleiderer has consistently gained positive experience with a great variety of rapid-transit variations. One of these solutions is the RHEDA CITY system, designed on the same functional principle as all other systems in the RHEDA family. The RHEDA CITY, however, has been developed especially for mass rapid transit requirements, and is particularly effective for applications in municipal infrastructure involving urban-suburban commuter railway systems, as well as trams. The multi-layer configuration of RHEDA CITY is possible on the basis of asphalt, concrete, or paving blocks – with the result that the system can optimally match the surface characteristics of the urban street. Additional advantages arise from the monolithic structure of the track-supporting layer, and from the low structural height of the track system. Turnouts can also be effectively integrated as part of the same technology.

Pfleiderer track systems has developed the RHEDA MRT especially for use in underground railways and for trams. This system is optimally suited for operations in tunnels, also including those with relatively small radii – with enhancement of quality and safety at the same time. Owing to its flat surface, RHEDA MRT also offers excellent conditions for the operations of rescue and emergency vehicles. RHEDA MRT can be executed as light or heavy mass-spring system.

### **ATD-G for better air and less noise**

The Pfleiderer track systems product ATD-G – the “Green Track” – represents a very special version: the rapid-transit variation of the ATD mainline track, which features an asphalt supporting layer that directly supports the track panels. On the basis of a uniform system configuration for all line-layout elements, it is possible on the basis of the modular concept offered to derive customized solutions for the requirements of public-transport authorities. These features mean enhanced integration of rail facilities in the urban landscape, which in turn assures friendlier appearance of the city scene. At the same time, this track system contributes to greater harmony in the urban ecological

balance – since the Green Track contributes to more satisfactory air, soil, and groundwater relationships.

### **Pfleiderer track systems**

Pfleiderer track systems has dedicated itself to the provision of services and competency. Thinking and acting in the framework of international relationships is a basic prerequisite for future success. As an internationally oriented company, Pfleiderer track systems is already present in a strong position throughout Germany and Europe. The company, however, is on the verge of an additional major additional leap on the international market, with goal-oriented activities toward expansion in the markets of tomorrow: China, Southeast Asia, as well as Central and Eastern Europe. These areas offer major potential for growth: opportunities that can be exploited with competency, national and international partnerships, and good customer relationships. By virtue of its close collaboration with colleges and universities; research institutes; and the research departments of subcontractors, business partners, and customers, Pfleiderer track systems interlinks individual processes to produce efficient system solutions and optimally adapt them to the requirements of its customers. Its leading expertise and concentrated creativity – through which it develops technical solutions for the world of tomorrow – represent the basis for innovative products and optimal integration of systems. Pfleiderer's extensively developed quality management throughout the value-added chain is systematically oriented to the quality expectations of all customers. Certification of Pfleiderer plants by international accreditation organizations has verified the high standards maintained.

Fifty years of expertise, more than 1.7 million concrete sleepers produced annually, over 500,000 running metres of turnout sleepers, and approx. 130 million euros in sales: all of this goes to make Pfleiderer track systems a truly powerful and reliable partner. With ten plants in Germany, Spain, the Netherlands, Hungary, Romania, and Taiwan – as well as participation in numerous major projects – Pfleiderer track systems plays a leading role in the development and production of innovative railtrack solutions.

During InnoTrans 2004 you will find Pfleiderer track systems at stand 329 in hall 25. In addition to the systems described above, Pfleiderer staff will be pleased to present numerous further components for the areas of railway transportation and infrastructural facilities.

For questions to our public-relations staff:

Upon request, we shall be glad to provide you with picture material.

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