

### Liebherr at InnoTrans 2018

**September 2018 – From 18th to 21st September, Liebherr presents at InnoTrans in Berlin (Germany) a wide range of systems and shows its strong innovative capacity in the areas of heating, ventilation and air conditioning systems, hydraulic actuation systems and rail excavators as well as components.**

As one of the leading manufacturers of equipment for the rail industry, Liebherr is an established name among the exhibitors at InnoTrans. On stand # O/300, the company presents customized solutions such as environmentally friendly air conditioning systems, electro-hydraulic actuator systems and a high-performance dual purpose excavator as well as components.

Among the highlights: the MACS 8.0 Modular Air Conditioning System. The flexibly configurable roof system is of low weight and characterized by its energy saving function and long working life.

An electro-hydraulic actuator is also showcased, which is used for the active lateral suspension of rail vehicles in order to reduce wear on the wheel/rail interface, whilst also improving travel comfort for the passengers.

Visitors are also able to have a look at Liebherr's high performance A 922 Rail Litronic mobile excavator. As a dual purpose machine, it can be used either on the road or on railway tracks, and fitted with a rail-track undercarriage for different track widths depending on the intended work area. The railroader is characterized in particular by the economical Liebherr D834 diesel engine which drives a duplex hydraulic pump. Each pump can be controlled separately. This innovative dual-circuit hydraulic concept allows smooth operation even with high performance attachments. The A 922 Rail also combines high load capacities with outstanding comfort for the operator.

Last but not least, Liebherr presents its engine portfolio for rail applications, including diesel engines of the D98 series, as well as the latest generation horizontal 6-cylinder in-line engine D966. The latter was specially designed for RailPacks by Voith Turbo GmbH & Co. KG and will be on display on the Voith stand 215 in hall 1.2.

## **Liebherr-Transportation Systems – Renowned Manufacturer of Railway Technology**

Liebherr-Aerospace & Transportation SAS in Toulouse (France) is one of eleven divisional control companies in the Liebherr Group and coordinates all activities in the fields of transportation and aviation equipment. It employs around 5,400 people worldwide.

Liebherr's transportation systems division supplies cab and saloon heating, ventilation and air conditioning (HVAC) systems, thermal management systems for diverse, mobile and stationary e-mobility applications, hydraulic actuation systems, dampers and hydraulic load levelling equipment for rail vehicles of all kinds. Liebherr has many years of experience in the development, manufacture, and field service of these technologies, offering support throughout the entire product lifecycle. The company invests continuously in its R&D activities in order to offer its customers new generations of diverse transportation systems solutions.

Liebherr-Transportation Systems has three production plants in Korneuburg (Austria), Marica (Bulgaria) and Zhuji (China). In addition to its own sales and service centers, the division has access to the Liebherr Group's extensive and unique technologies as well as development and service facilities around the world. This global set-up means that Liebherr-Transportation Systems is there for its customers wherever they may be.

## **Liebherr-Hydraulikbagger – state-of-the-art hydraulic excavators**

Liebherr-Hydraulikbagger GmbH is a global leader in the manufacture of state-of-the-art hydraulic excavators. Furthermore, the company develops and manufactures material handling machines and articulated trucks. The hydraulic excavators are successfully used throughout the world in civil engineering as well as in many special tasks such as horticulture and landscape gardening, for example. For the special requirements of railway work sites Liebherr-Hydraulikbagger GmbH delivers dual purpose machines for operation on road and railway tracks worldwide. The areas of application for the material handling machines range from scrap, wood, and port handling right up to waste management and recycling.

## **Liebherr-Components AG**

The Liebherr Components Division is a specialist in the development and production of high performing components. Our product range covers components from the areas of mechanical, hydraulic and electrical drive system and control technology, which are produced at ten production sites worldwide. Diesel engines were added to the product portfolio in 1984. Individual components and system solutions from Liebherr prove themselves in a variety of application scenarios thanks to their high quality. Our customers profit from the long service life, particularly sturdy design and reliable customer service.

### **Captions**

liebherr-modular-air-conditioning-system-macs8-0.jpg

MACS 8.0 by Liebherr is flexibly configurable and saves energy. – © Liebherr

liebherr-a-922-rail.jpg.

The Liebherr A 922 Rail Litronic is the allrounder among the hydraulic excavators – © Liebherr

liebherr-diesel-engine-d9812-for-rail-applications.jpg

Liebherr diesel engine D9812 for rail vehicles - © Liebherr

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