

Liebherr-Werk Nenzing GmbH

Solutions for our customers



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Facts and figures

1976 the year Liebherr-Werk Nenzing GmbH was founded

254,000 m² factory premises

103,000 m² built-up area

1979 the world's first ever hydraulically driven duty cycle crawler crane with electronic control

1,600 employees

50,000 tonnes of steel are used per annum

2012 State Prize Clean Technology Austria for hybrid drive





40 years of success

Liebherr-Werk Nenzing GmbH was founded by Hans Liebherr in 1976. The product portfolio originally covered two products namely ship cranes and offshore cranes.

Today, crawler cranes with capacities up to 300 t, duty cycle crawler cranes as well as piling and drilling rigs for deep foundation work are developed, manufactured and sold in Nenzing. Over the past years, the company has developed into a system provider offering not only products but also various services and solutions, which facili-

tate the process on the construction site. These vary from provision of advice on site by our experienced application managers, to state-of-the-art training facilities with simulators, up to recording and analysing of machine data.

Highest technological standards combined with quality and functionality distinguish Liebherr's machines. They are equipped with innovative control systems for optimum user-friendliness on the jobsite. First and foremost are the customers' needs and requirements.

Machines purely for deep foundation work have been manufactured in Nenzing since the end of the 1990s





Expertise in one location

Research and development, manufacture and sales are all carried out in Nenzing. This ensures that the skills for the manufacture of the crawler cranes, duty cycle crawler cranes and deep foundation rigs as well as the associated services are concentrated in one location. For this purpose, state-of-the-art production facilities and a contemporary office infrastructure are available.

Direct sales, consisting of approximately 40 sales and service companies with locally based Liebherr employ-

ees, ensure closeness to the customer throughout the world. Within a short time, an expert from Liebherr can be at the customer's site in order to carry out service and repair work. At the same time, this closeness to the market ensures that trends are recognized at an early stage and can be incorporated in the development of new products, technologies and services. Thus, Liebherr-Werk Nenzing GmbH has evolved into one of the most innovative companies in the construction machinery sector.

Crawler cranes, duty cycle crawler cranes as well as piling and drilling rigs belong to the range of products from Liebherr in Nenzing









Solutions for deep
foundation work

Rotary drilling rigs: LB series

The LB series of rotary drilling rigs is in operation on deep foundation sites throughout the world. Thanks to their powerful drive and efficient hydraulic system, they achieve tremendous working performances. The robust leader and innovative parallel kinematics provide for high stability and a large working radius.

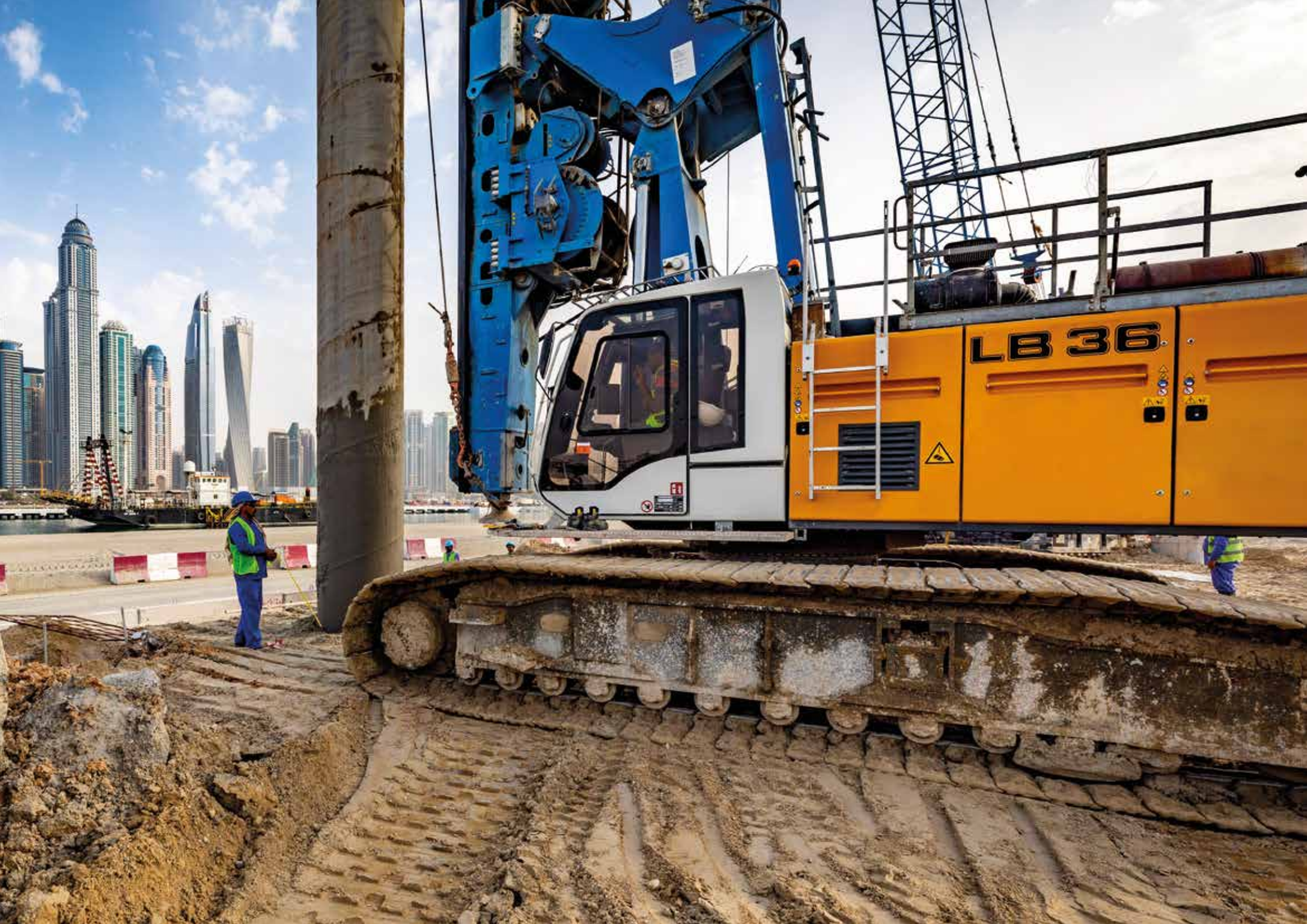
The outstanding features of the Liebherr rotary drilling rigs include cost-effective operation, easy transportation and quick start-up. The fact that the leader

does not need to be dismantled for transportation supports the short set-up time. Moreover, the machines are equipped with high performance rotary drives with automated torque adjustment and continuous speed optimization.

The rotary drilling rigs of the LB series can be used for all common drilling methods. These include Kelly drilling, continuous flight auger drilling, double rotary drilling and full displacement drilling.

Rotary drilling rig LB 36 installing piles in Dubai





LB 36

Piling and drilling rigs: LRB series

The combined piling and drilling rigs were the first machines from Liebherr purely for deep foundation work. Under the motto “everything from one source”, the first machines were manufactured in Nenzing at the end of the 1990s.

Today, the LRB series covers a diverse range of applications including operation with vibrator and hydraulic hammer, soil mixing as well as the common drilling methods with Kelly equipment, double rotary head, continuous flight auger and full displacement tools.

The robust and reliable machines of the LRB series offer a large working radius and have a high level of flexibility thanks to the sophisticated parallel kinematics. At the same time, they enable highest precision on the jobsite. Quick mobilization and easy transport are important advantages – the machines can be transported with mounted leader, carriage and ropes. Furthermore, no tools are necessary for folding the leader or mounting the counterweight.

The piling and drilling rig LRB 355 operating in St. Gallen, Switzerland





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D57
THS 80 D-K

355

Piling rigs: LRH series

Piling rigs of the LRH series with fixed or swinging leader are deployed when high working radii are required or heavy piling elements have to be inserted. Depending on the requirements, the carrier machine is selected from the successful series of Liebherr duty cycle crawler cranes, crawler cranes or drilling rigs.

In combination with a stable leader the piling rigs convince with their excellent efficiency and flexibility. Working tools can be operated by the powerful on-board hydraulics of

the carrier machine without any additional power pack. This leads to considerable savings in operation and underlines their reputation as highly efficient machines.

As full-service provider for deep foundation work Liebherr-Werk Nenzing GmbH offers a range of hammers and vibrators, developed and manufactured in-house. Working tools and carrier machines can thus be ideally matched with each other.

Piling rig type LRH 100 carrying out foundation work in northern Germany





Duty cycle crawler cranes: HS series

Besides machines purely for deep foundation work Nenzing manufactures duty cycle crawler cranes, which can be used together with various working tools for special deep foundation applications. Thanks to the robust construction the machines of the HS series are highly suitable for dynamic work.

Typical working tools for duty cycle crawler cranes in deep foundation applications include casing oscil-

lators, slurry wall grabs or hydromills, fixed and swinging leaders as well as drop weights for dynamic soil compaction.

Efficiency is characteristic for the duty cycle crawler cranes from Liebherr thanks to the powerful drive and optimized hydraulic system. Easy transportation as well as quick set-up are further reasons for their popularity worldwide.

Duty cycle crawler crane at work on a slurry wall at the Suez Canal in Egypt







Solutions for lifting operations



Crawler cranes: LR series

Crawler cranes from Liebherr are in demand worldwide for the safe and economic moving of heavy loads. Furthermore, they are used for special lifting work in the wind energy sector as well as for operation on barges. Their compact design enables maximum mobility and economy.

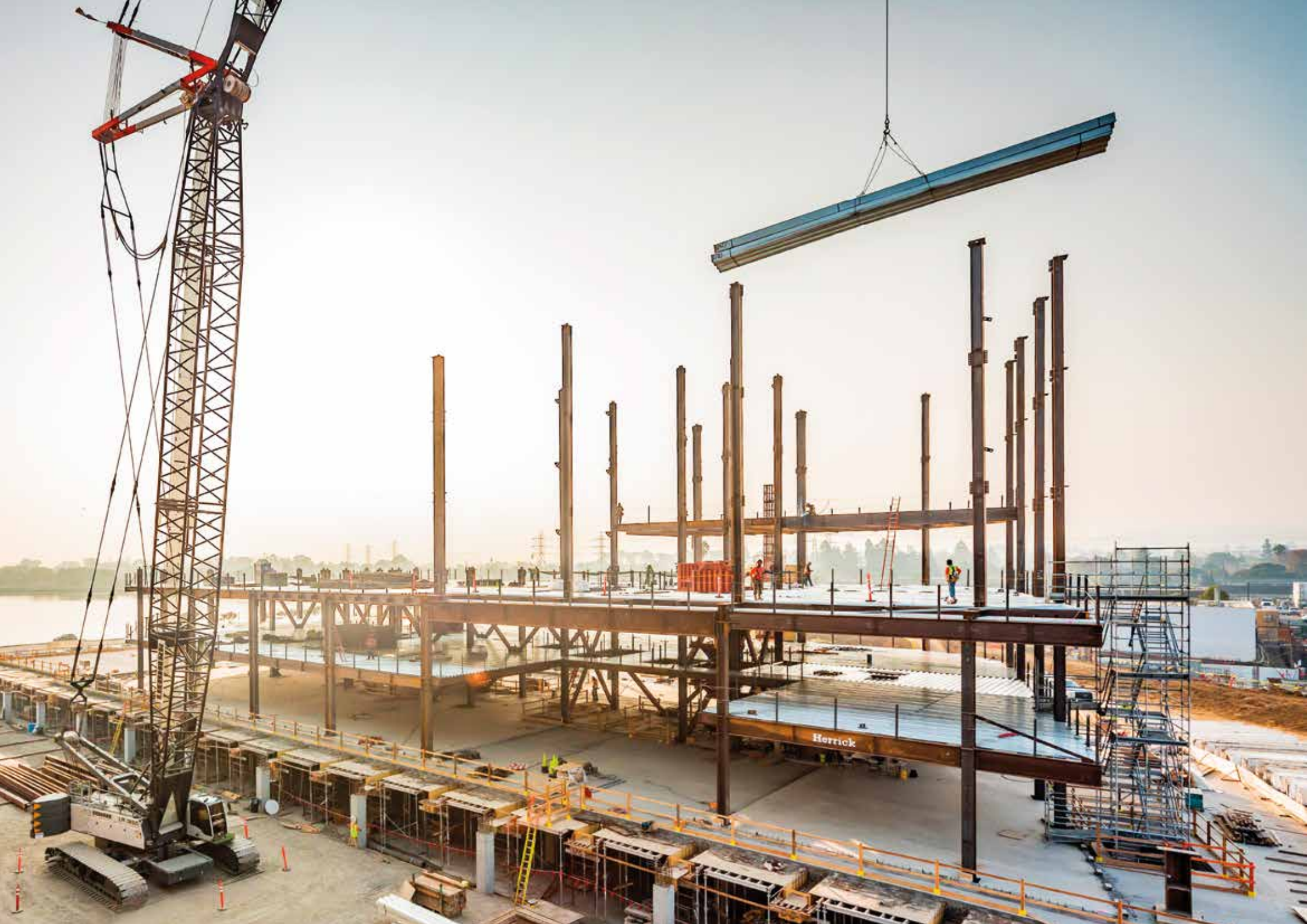
Crawler cranes with up to 300 t capacity are manufactured in Nenzing. They convince with excellent load values in the whole working area as well as high lifting heights

and radii. Rational transport, easy set-up and a sophisticated boom system support flexible operation on site.

Intelligent control functions considerably contribute to the user-friendliness of the crane. The Load Moment Limiter automatically calculates the loads during operation and so ensures optimum utilization of the machine. Control assistance systems such as Vertical Line Finder or Horizontal Load Path facilitate the exact positioning of loads and enhance safety.

An LR 1260 crawler crane in San Francisco









Solutions for
material handling

Duty cycle crawler cranes: HS series

In 1979 Liebherr was the first manufacturer in the world to produce a hydraulically driven duty cycle crawler crane with electronic control – the HS 870 HD. In the almost four decades since then the duty cycle crawler cranes have proven themselves to be in demand world-wide for material handling as well as gravel extraction.

Today, Liebherr supplies a wide range of multifunctional duty cycle crawler cranes with load capacities between 30 and 300 tonnes. The duty cycle crawler cranes excel with their robust design and the resulting long

service life even under tough operating conditions on the jobsite. In addition to its powerful drive the largest model in the series, the HS 8300 HD, can be fitted with a hybrid drive.

The modular design allows for flexible configuration to suit all special operations. Equipped with various grabs or dragline buckets the duty cycle crawler cranes of the HS series are suitable for typical material handling. They have also successfully established themselves in the dredging sector for installation on barges.

Material handling with a duty cycle crawler crane type HS 8100 HD in the Port of Hamburg





HS 8100

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Machine overview

The range of products from Liebherr-Werk Nenzing GmbH includes crawler cranes with capacities up to 300 tonnes (LR series), duty cycle crawler cranes (HS series), drilling rigs (LB series) and piling rigs (LRH series), as well as combined piling and drilling rigs (LRB series). Due to the company's high level of export at approximately 99%, the machines are deployed on various sites throughout the world for lifting applications, material handling and deep foundation work.

All machines from Nenzing are distinguished through the use of numerous components and system solutions that have been developed by Liebherr. These include efficient drive concepts as well as innovative and user-friendly control systems, thus creating a homogeneous system environment. Furthermore, Liebherr's tight service network provides a high level of availability of spare parts worldwide.



HS series



LRH series



LRB series



LB series



LR series

Digitization on the construction site of tomorrow

Liebherr-Werk Nenzing GmbH has set itself the goal of optimizing the processes carried out on the jobsite through networking. In the progression from an experienced machine manufacturer to a full-service provider Liebherr already has a number of IT solutions, which provide substantial support for all those involved in the construction site.

Crane Planner 2.0

The Crane Planner 2.0 uses actual data in order to determine the ideal crane for the respective lifting job.

LiSIM®

Highly developed simulators enable safe training under realistic conditions.

LIPOS®

Machines and working tools can be precisely and efficiently positioned on the jobsite using this positioning system.

LiDAT®

The data transmission system supplies information about the location and operation of the machine and so makes it possible to efficiently manage and optimally plan operation remotely.

PDE®/PDR2

Process data recorded with PDE® are imported and summarized in a report by the Process Data Report software PDR2.



Crane Planner 2.0

Import of 3D data + jobsite planning

Optimization



PDR2
Analysis & optimization

Work plan
Machine data
Process data

- Work plan
- Machines & configurations
 - Tools & equipment
 - Work plan
 - Surroundings & digital drilling plan



LIPOS®

Machine & process data



Real time information

Work plan



LiSIM®
Real time simulation



PDE®
Online display & recording



Assistance systems

LiDAT®



R 1300

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Liebherr, an international family-run business

Liebherr was founded in 1949 by Hans Liebherr. Since then the business has grown into the Liebherr Group with approximately 42,000 employees and over 130 companies spread throughout all five continents. Today, Liebherr is not only one of the largest construction machine manufacturers in the world, but is also recognized in many other sectors as a supplier of technically sophisticated products and services with focus on customer benefit. At the head of the Group is Liebherr International AG in Bulle/Switzerland, the shareholders of which are all members of the Liebherr family.

The fact that Liebherr is a family-run business has characterized the corporate culture from the outset. Liebherr has demonstrated stability and reliability for more than 60 years and strives for a long-term and close cooperation with its customers and business partners.

Highest quality is the focus of all Liebherr activities. All employees within the Liebherr Group pursue this requirement in their daily work. Liebherr works on its

products with passion, whereby the customer perspective is adopted, in order to develop the best possible solutions for their requirements.



Active family shareholders in the Liebherr Group (l-r):
Jan Liebherr, Stéfanie Wohlfarth, Sophie Albrecht, Philipp Liebherr,
Patricia Rűf, Johanna Platt, Isolde Liebherr and Willi Liebherr

The Group's divisions



Earthmoving



Mining



Mobile Cranes



Tower cranes



Concrete technology



Maritime cranes



Aerospace and transportation systems



Machine tools and automation systems



Domestic appliances



Components



Hotels

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