

Jobsite premiere of Liebherr's largest duty cycle crawler crane

- First HS 8300 HD in operation
- Robust steel fabrication of the basic machine
- Equipped with innovative hybrid drive Pactronic®

Nenzing (Austria) April 2015 – Liebherr's HS 8300 HD, the world's largest duty cycle crawler crane, recently had its premiere on a jobsite in Bavaria. It is the first Liebherr crane for the construction machinery market to be equipped with the innovative hybrid drive Pactronic®.

The HS 8300 HD combines the traditional robust design of Liebherr's range of heavy duty cycle crawler cranes with state-of-the-art-technologies. Thus, the efficiency of the machine is significantly improved during practical application. For a further increase in performance the crane is fitted with hydraulic free-fall winches offering approximately 50 tonnes of line pull.

Since the end of 2014 the company Wanner & Märker has been using the new duty cycle crawler crane for gravel excavation in one of their three quarries. The jobsite is located in the South of Germany, close to the city of Ingolstadt.

The proportions are remarkable. The machine, with an entire weight of more than 350 tonnes, operates on the site with a 44 m long main boom and a dragline bucket made by Rädlinger. The digging depth is approximately 26 m, the unloading height about 15 m. Apart from the dimensions of the HS 8300 HD, which dwarf other duty cycle crawler cranes in comparison, the machine impresses with its innovative hybrid drive allowing an increase in turnover at the jobsite by up to 25%.

Powerful hybrid drive Pactronic®

The HS 8300 HD is the first construction machine on the market to be equipped with the Pactronic® system developed by Liebherr. This innovative hybrid drive based on hydraulics offers both economic and ecological advantages. Surplus energy is stored

and subsequently regenerated so increasing the material handling capacity while at the same time significantly reducing fuel consumption.

The hybrid drive is already a proven technology. It has been used in Liebherr's mobile harbour cranes since 2010 and has contributed to the consolidation of the world market leader position of this product line. The proven technology of the hydraulic accumulator ensures low maintenance requirements and maximum reliability. The reduced energy consumption considerably reduces emissions therefore causing much less environmental pollution.

Extended service life

In the development stage special attention was paid to an extended service life of the duty cycle crawler crane. Therefore, the steel fabrication of the basic machine is extremely solid and critical points were reinforced using extra high-quality materials such as carbon fibre. Furthermore, special production methods, including the use of automated welding robots, increase the machine's service life even under extreme operational conditions.

Apart from dragline operation the HS 8300 HD is suitable for various other material handling jobs. The machine can, for instance, also be equipped with an orange-peel grab and a clamshell.

As other Liebherr machines the HS 8300 HD incorporates many components and system solutions developed by Liebherr. Apart from the homogeneous system this also guarantees high availability of spare parts within the Liebherr service network. The proven Litronic control system, which is based on CANBUS technology and includes all control and monitoring functions of the machine, belongs to the standard equipment of the HS 8300 HD. The Litronic system works reliably even under extreme weather conditions and vibrations.

Captions

liebherr-hs8300hd-dragline-operation.jpg

Liebherr duty cycle crawler crane HS 8300 HD in dragline application

liebherr-pactronic.jpg

Pactronic® hybrid drive on the HS 8300 HD

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