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## **Short, shorter, ultra-short... Haslinger builds off-standard crane with 57.8 cm headroom**

**Modern industrial buildings are spacious, high-ceilinged, and built of steel. Including the crane in planning means that in some cases a standard crane is adequate. Other production buildings are neither new nor designed for crane systems. A customised design is often necessary if cranes have to be retrofitted here. Two new off-standard cranes have been operating in the carpenter's shop of a South German manufacturer of prefabricated houses since 2013 – notwithstanding challenging specifications: the clearance under the roof beams is just 4.20 m, the wall panels to be lifted are up to 3.40 m high.**

The manufacturer decided to transport the wooden panels overhead by crane in future to improve the work flow in the carpenter's shop. "We realised that the low height would be a challenge as soon as we met up in the building for the first time," says project engineer Herbert Mirwald from Haslinger GmbH Metallbau + Krantechnik. "80 centimetres for crane, hoist, hook and lifting accessories, that can't be done with a standard crane."

### **Ultra-short customised solution**

The customised solution which Herbert Mirwald designed especially for the low-ceilinged production building consists of two double-girder off-standard suspension cranes of lightweight sectional beam construction. Raised crane bridges and a chain hoist which is itself raised make the extremely short headroom of 57.8 cm possible – this includes the safety clearance to the chain collector. The crane has a lifting height of 3.669 m and a clearance of 3.662 m to the bottom edge of the chain collector – enough to rotate the 3.4 m high wall panels in mid-air. The project was made possible by the technical skill of Haslinger's design engineers and appropriate standard crane components from STAHL CraneSystems. The hoists are compact STAHL CraneSystems standard chain hoists from the ST 20 range. Each crane has a safe working load of 1.25 tonnes and a track gauge of 12 metres.

**Radio crane with no festoon cables**

As the customer attached great importance to aesthetics, Haslinger designed the crane system as an up-to-date radio crane. Power for both cranes is supplied by conductor lines along the crane bridge - there are no hampering festoon cables here.

*Haslinger GmbH Metallbau + Krantechnik based in Aldersbach-Uttigkofen employs around 140 staff. The company was founded in 1951 and has been a certified partner of STAHL CraneSystems since 2009. Haslinger has gained an excellent reputation in the industry in recent years and is now one of the most sought-after crane builders in Germany. Standard and off-standard cranes, mainly for the German market, are built in the ultra-modern crane building plant in Lower Bavaria.*

*STAHL CraneSystems supports crane builders in their demanding projects with the aid of its wide range of products and individually produced engineering solutions. Particularly qualified crane builders such as Haslinger GmbH Metallbau + Krantechnik receive intensive support as certified crane building partners. The modular design of STAHL CraneSystems' hoists and crane components and the high level of vertical integration in its Künzelsau plant permits crane systems with components from STAHL CraneSystems to be adapted to the respective requirements in detail. Thus even sophisticated customised solutions such as this stacker crane are always based on high-quality mature crane technology from series production, accounting for the high reliability and long service life of the systems.*

**Photo material** (lead and detail photos):

There are only a few free centimetres between the wooden panels and the bottom edge of the crane.



Haslinger's design engineers were able to gain valuable centimetres by raising the hoist.

## Pressemitteilung | Press Release



The two double-girder suspension cranes are used for transporting wooden beams and finished wall panels overhead.



Perfectly adapted to the low-ceilinged wooden structure: only a few centimetres are free between suspension crane and roof beams.



Compact design: the crane's overall headroom is just 57.8 centimetres. Also mounted on the crane: the radio receiver for convenient operation. Conductor lines along the crane bridge are used instead of hampering festoon cables for the power supply.

## Pressemitteilung | Press Release



An effective team: project engineer Herbert Mirwald from Haslinger GmbH Metallbau + Krantechnik (left) and Fred Weber from STAHL CraneSystems GmbH (right) on the occasion of commissioning the system.