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World's heaviest building transport using SCHEUERLE SPMT: Sinotrans moves 7,500-tonne hotel

Due to environmental regulations, Sinotrans Heavy-Lift Co. in China was commissioned to re-position a 7,500-tonne hotel by 500 metres. Due to the high unit weight, the assignment not only required a large number of axle lines but also electronically coupled and controlled modules due to the unequal load distribution. The heavy goods logistics company has been relying on SPMTs from TII SCHEUERLE for many years now mainly because of the excellent synchronisation procedure. With their help, Sinotrans Heavy-Lift Co. set a new world record for the heaviest transport of a building.

The Chinese heavy goods logistics company Sinotrans Heavy-Lift Logistics Co., a subsidiary of the largest Chinese logistics company Sinotrans, has moved a 7,500-tonne hotel in the city of Sanya, Hainan province using SCHEUERLE SPMTs. According to Sinotrans Heavy-Lift Logistics Co., this transport is the world's heaviest building transport to date. The specialist transport company distributed the load of the hotel on 254 axle lines. A total of 15 Power Pack Units (PPU) drove the vehicle combination.

In addition to the enormous weight to be transported, the special challenge of the transport was the uneven distribution of the load due to the asymmetrical architecture of the 90 metre long, 35 metre wide and 20 metre high building. Nevertheless, Sinotrans had to level and position the structure with the utmost precision. Furthermore, the experts from Sinotrans had to turn the building clockwise by 63 degrees and subsequently counterclockwise by 63 degrees during transportation in order to reach the new location.

To master the task, the heavy goods logistics company coupled the self-propelled SPMT platform transporters from TII SCHEUERLE at different angles to each other to form a fan-shaped combination. According to Sinotrans, the high load capacity and the good synchronisation of the individual modules very much favoured the use of SPMT axle lines from TII SCHEUERLE. Without this, the heavy goods logistics specialist would not have achieved the required high level of precision. It took Sinotrans eight hours to lift the building and transport it precisely and safely over the 500-metre-long route with the help of the SPMT axle lines and set it up again at its destination.

Sinotrans is a long-standing customer of TII SCHEUERLE, the industry expert from the TII Group for heavy and special goods transport on and off road, and maintains a fleet with 60 of its own SCHEUERLE SPMT axle lines for such transport assignments. Additional modules came from the joint venture Sinotrans Sarens Logistics Co. and other cooperation partners.

According to independent surveys, the industry experts of the TII Group are world market leaders in this segment with tens of thousands of axle lines on the market. This makes it very easy for companies worldwide to rent SPMT modules. In addition, SCHEUERLE SPMT modules are compatible with each other across



all technical generations so that older vehicles can easily be coupled mechanically or electronically with modules from more recent technical generations.

The TII Group is also represented in China which means that professional advice for customers before and during transport, service on vehicles from the TII companies and fast delivery of spare parts is always guaranteed.



Company profile

The TII Group, a company owned by the Heilbronn-based Otto Rettenmaier family, is a globally active manufacturer of heavy-duty and special vehicles and has a workforce of around 900 employees. The Group includes industry specialists, TII SCHEUERLE and TII KAMAG, and has production sites in Germany and India along with a worldwide organisation of sales and service partners. With innovative vehicles for manoeuvring and transportation operations, the TII Group, which is listed in the index of world market leaders, supports its customers in the transport and logistics sectors, building industry, plant engineering, air and space travel, shipbuilding, energy, steel and mining as well as yard logistics for realising a wide range of complex transport tasks. The TII Group holds the current world record of over 20,000 tonnes for transporting extremely heavy loads on vehicles. TII stands for the tradition of innovation, customer orientation and partnership as well as for high product quality and sustainability in heavy-duty mobility.

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