STEEL INDUSTRY

LaseCPW

COIL POSITIONING WAGON

The LASE measuring system LaseCPW consists of a laser scanner that measures the position of coils on wagons in the Y and Z axis (cross travel and lift axis).

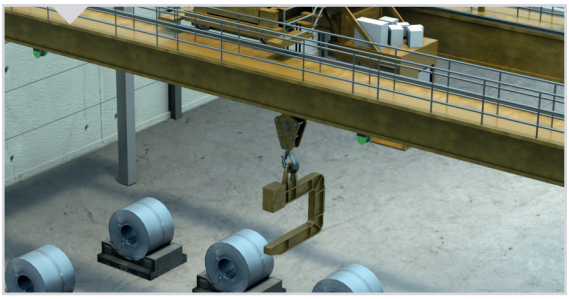
THE MEASUREMENT SYSTEM

The laser scanner is mounted to the crane at a 4 m distance from the centre of the train track. The measured data from the LASE system provides 3-dimensional images of the position of the coils on the wagons.

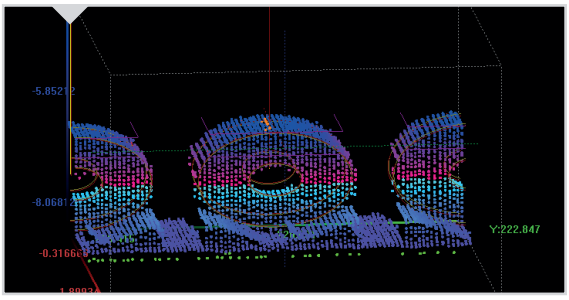
The positions of the coils and troughs are determined by a measurement drive of the crane over the wagons before loading or unloading. The crane travels at a constant speed over the wagons to be measured.

After completion of the measurement drive, the calculation of the coil and trough positions begins. The measurement result (positions of all coils in X, Y and Z direction) is sent to the crane PLC. The crane PLC sends the position data to the warehouse management system.

Using the coil position data, the warehouse management system can generate the travel orders for the automatic crane.



The laser scanner is mounted to the crane at a 4 m distance from the centre of the train track.



The application creates a 3D profile of the coils.

THE FEATURES

- Accurate coil and trough position detection
- Robust measurement technology
- Automatic slab handling is also possible
- Use of existing structures

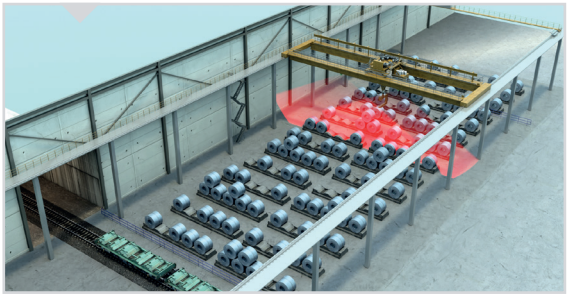
THE BENEFITS

- Automatic loading and unloading of wagons
- Gentle coil handling
- Faster turnaround times
- Avoidance of damage

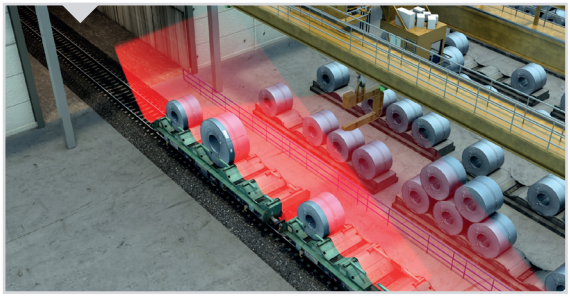
LASE
Industrielle Lasertechnik GmbH

Tel.: +49 (0) 281 95 990 0
Mail: info@lase.de
www.lase-solutions.com

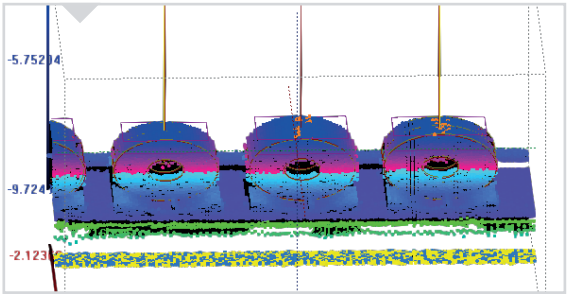
THE FUNCTION PRINCIPLE



The sensor scans the profile of the coils during crane travel.



The warehouse management system can generate the travel orders for the automatic crane.



The 3D profiles help with positioning recognition.

Scan the QR code with your mobile phone. Discover the product video and more innovative solutions from LASE!

GLOBAL PLAYER FOR

LASER MEASUREMENT SYSTEMS

For more than 30 years, LASE Industrielle Lasertechnik GmbH has been the global contact for high-precision and robust laser measurement technology for the industrial sectors port, bulk material handling, steel and logistics. With our 1D, 2D, 3D and multi-layer sensors as well as in-house developed applications, our systems stand for more safety and efficiency. Our goal is to drive the automation of industry with easily retrofittable solutions. With 30 offices worldwide through subsidiaries and partners, we are always at your side.

LASE
Industrielle Lasertechnik GmbH

Tel.: +49 (0) 281 95 990 0
Mail: info@lase.de
www.lase-solutions.com