

Industrial Solutions for the mining and materials handling industry

Shiploader



thyssenkrupp



8,000 t/h handling capacity

Two Shiploaders for coal at Qinhuangdao Port, China

Long travelling type, boom luffing and shuttle

In 2004 a milestone contract for design, supply and commissioning of 4 units shiploaders for coal by the port of Qinhuangdao, China, the world largest coal terminal, was awarded to thyssenkrupp Industrial Solutions.

engineering.tomorrow.together.

Shiploader

Qinhuangdao Coal Terminal Phase 5

These shiploaders are used for the coal export terminal, Qinhuangdao Coal Terminal Phase 5, for export purposes to the port for loading into ocean-going vessels as well as distributed for delivery to the South of China, will have a throughput of up to 50 million tonnes per annum.

Design specials

Two of the shiploaders are of long travelling type with a luffing boom. The boom conveyor of the long travelling type shiploaders are equipped with a shuttle head in order to loading ships on both sides of the jetty. These machines, having a rated loading capacity of 8,000 t/h, peak up to 8,940 t/h, are designed to load vessels from 15,000 up to 150,000 DWT.



Loading spout with slewable and tiltable trimming spoon

They are further equipped with portal travel gears, telescoping boom and a loading device with trimming spoon, which allows +/- 180 degrees slewing. With this option it is possible to achieve a homogenous filling of the corresponding ship holds up to the uppermost edge, at a high nominal loading capacity.

Technical Specification

General data

Design/Type:	Long travelling with luffing/slew boom and shuttle head
Handling capacity:	rated 8,000 t/h max. 8,940 t/h
Rail Gauge:	21 m
Corner base:	19 m
Boom luffing angle in loading operation:	-12° to 15°
Outreach of shuttle head:	17 m to 39.5 m
Belt width of shuttle conveyor:	2,400 mm
Power installed:	approx. 1,200 kW



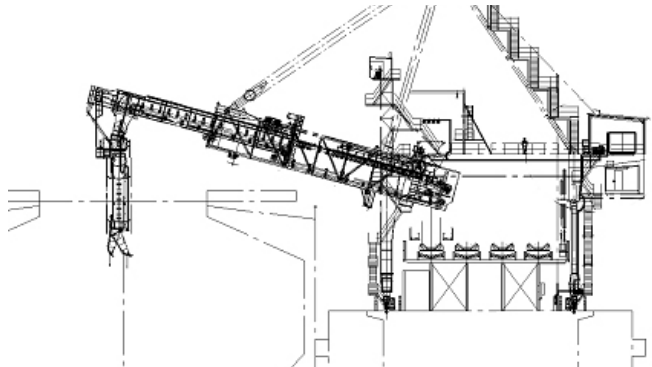
Shiploader in loading position

To serve the different sizes of ships, a telescoping gear with rack and pinion drive, controlled by frequency converter, is incorporated in the luffing boom, varying the outreach from a minimum of 17.0 m up to a maximum of 39.5 m.

Operation control and automation with high efficiency

Modern drive control and PLC system is incorporated in the shiploaders, operation is mainly controlled via the computerized operator's panel in the operator's cabin. The high degree of automation and the visually assisted operator's guide in Chinese allow the operating staff to operate the machines easily and in a comfortable fashion.

In the design of the shiploaders measures have been taken for environmental protection to eliminate dust and noise emission. These contribute to the construction of state-of-the-art and environmentally friendly machines.



Cross sectional arrangement of the shiploader

Contact

thyssenkrupp Industrial Solutions AG

Ernst-Heckel-Straße 1
D-66386 St. Ingbert-Rohrbach, Germany
Phone: +49 6894 599 0
E-mail: info-mh@thyssenkrupp.com
www.thyssenkrupp-industrial-solutions.com

© 2016 Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustration purposes only. The operation values are considered to be approximate and will be finally determined on the basis of the specific task and the material characteristics. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and thyssenkrupp makes no other warranty of accuracy, reliability, completeness, merchantability or fitness for any purpose, express or implied. Products and services listed may be trademarks, service marks or trade-names of thyssenkrupp and/or its subsidiaries in Germany and other countries. All rights are reserved.