



Kuenz in Antwerp

Intermodal Cranes

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One of the most important transshipment ports for European freight traffic operates with Kuenz Cranes.

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Three Kuenz Intermodal Cranes at the Combinant Terminal

Two new intermodal container handling terminals, HTA HUPAC Terminal Antwerp and the Combinant Terminal, were put into operation at the beginning of 2010. Antwerp is one of the important transshipment gates for European freight traffic. Approximately 35 trains per week are in transit between Antwerp and the European Economic Area, as well as with Russia. In addition the maritime traffic from overseas merges in Antwerp with the domestic traffic from local industries in the area.

HTA HUPAC Terminal Antwerp

Located in Muisbroek Harbor, the 53000 m² Hupac Terminal offers excellent transport connection with direct link to the Noorderlaan, the central traffic route between all harbor districts and Antwerp. Three Kuenz container cranes travel over five 620 m long rail tracks,

thereby enabling fast and reliable handling between train and truck for all types of containers, semi-trailers and swap bodies. The gantry cranes are designed as two-girder bridges in suspended design.

Strong Partnership – Combinant Terminal

The chemical company BASF, the combined transport operator HUPAC, and the rail provider IFB formed a joint venture to develop the Combinant Terminal at the BASF site in the northern part of Antwerp’s harbor. With this new terminal, the Combinant NV joint venture eliminates bottlenecks in the intermodal infrastructure of the port of Antwerp and offers connections to various European countries. Situated on an area of 90,000 m² three Kuenz container cranes provide smooth and efficient handling. The Combinant cranes are designed as conventional two-girder gantry cranes.

Dipl. Ing. Giorgio Pennachi,
Engineering Director, Hupac Group:
„Kuenz showed expertise and professionalism in engineering, planning and assembling. From start of the first operation Kuenz performance was excellent and in complete satisfaction of the terminal operator. Thanks to its high quality, reliability and competitiveness I had no doubt that Kuenz was chosen as a supplier for the Hupac and Combinant Terminals in Antwerp.“

Benny Lauwers,
Project Manager Combinant:
„For our 3 Gantry Container Cranes we made a good decision to choose Kuenz as a Partner. The cooperation with a Team of highly-skilled and very motivated people at Kuenz made this project successful. The fine and professional cooperation during each phase of the project, design - fabrication - construction on-site, was a pleasure for the customer. The results are 3 state-of-the-art rail mounted gantry cranes of very good quality, delivered perfectly according to schedule and at the right cost. One of the main aspects for Combinant is to have a very high availability of the cranes. With the Kuenz Cranes, this has certainly been achieved. A project of which Kuenz can be proud of and a good investment for Combinant.“

Optimized steel structure in crane design

Kuenz’s gantry designs are calculated with modern finite element software. Kuenz optimized the design and adapted to the customer’s specifications. With small cantilever outreach, a conventional box girder design was chosen. The suspended framework design provides optimal behavior of the trolley when at a wide cantilever outreach position. A smaller construction height of the box girder reduces the surface area exposed to wind, thereby significantly decreasing the power consumption.

Technical Data HTA HUPAC Terminal	
Capacity	41 t
Track width	40 m
Cantilever fixed post	12.8 m
Lifting height	13.6 m
Length of crane way	617 m
Working speeds:	
Hoist’s rated load	0 - 18 m/min
Hoist with partial load	0 - 36 m/min
Gantry drive	0 - 140 m/min
Trolley drive	0 - 80 m/min
Slewing	0 - 1.6 rpm
Power:	
Main hoist	180 kW / 60%ED
Gantry drive	22 x 27 kW / 100%ED
Trolley drive	4 x 17 kW / 100%ED
Slewing mechanism	7 kW / 100%ED

Technical Data Combinant Terminal	
Capacity	41 t
Track width	37 m
Cantilever fixed post	8.6 m
Cantilever hinged post	9.6 m
Lifting height	13.6 m
Length of craneway	617 m
Working speeds:	
Hoist’s rated load	0 - 18 m/min
Hoist with partial load	0 - 36 m/min
Gantry drive	0 - 140 m/min
Trolley drive	0 - 80 m/min
Slewing	0 - 1.6 rpm
Power:	
Main hoist	2 x 180 kW / 60%ED
Gantry drive	22 x 18 kW / 100%ED
Trolley drive	4 x 18 kW / 100%ED
Slewing mechanism	2 x 7 kW / 100%ED



The best references are successful projects.



Bertschi Rotterdam

The chemical logistics expert Bertschi AG ensures safety, quality, service and environmental protection. Kuenz supports their efforts with efficient crane operations in Rotterdam.

APM Terminals, Maasvlakte II - Rotterdam

The Maasvlakte II container terminal is the most advanced terminal in the world with strong approach amongst safety. Besides 54 fully automated Kuenz Automated Stacking Cranes, two Kuenz Intermodal Cranes ensure proper container handling.



Rail Terminal Chemelot, Geleen

A new intermodal terminal was established in Geleen, the Netherlands. A Kuenz double-girder bridge crane provides efficient handling from rail to road.

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