



CSX Transportation

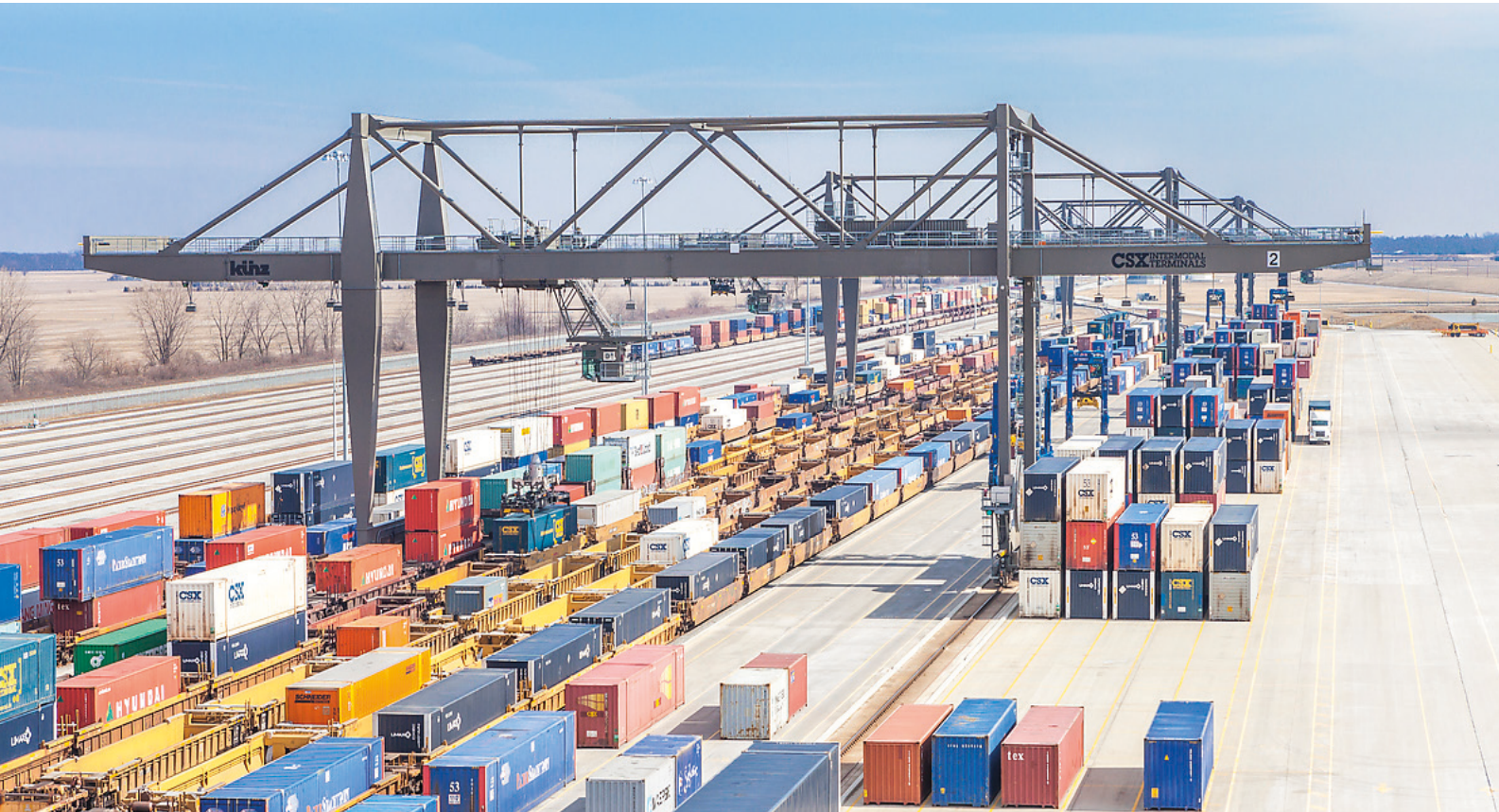
Intermodal Cranes

künz

13 RMG manufactured by Kuenz for a new generation of US intermodal terminals

Kuenz’s RMG ensure efficiency in CSX Intermodal Terminals.

Wilby Whitt, President CSX Intermodal Terminals
«When we built our new state-of-the-art Northwest Ohio Intermodal Terminal, we required the most technologically and environmentally advanced equipment in the world. We worked with Kuenz on this daunting challenge and had tremendous results. The cranes provided by Kuenz helped us lead the industry by reducing emissions and improving the efficiency of operations. Our successful endeavor has led us to explore more opportunities together. We look forward to working with Kuenz once again to continue our pursuit of environmentally-friendly freight transportation solutions.»



The first crane installations for Kuenz in North America at the Northwest Ohio Terminal.



The Kuenz Intermodal Cranes in Columbus, Ohio are travelling on a curved rail track

CSX is one of the leading transportation companies in the U.S. providing rail-based services as well as transport of intermodal containers and trailers. The company serves major markets in the U.S. and operates 50 terminals across the eastern United States.

First RMG for Kuenz in North America

For CSX’s newly designed Terminal in Northwest Ohio (NWOH), Kuenz supplied five wide span ultra-efficient electric RMG. This new terminal is a a cornerstone between East Coast seaports and Midwestern markets by creating a double stack freight rail corridor. The 500-acre area has been designed as a hub terminal to handle much more volume then most intermodal terminals. The new concept allows for the

handling of up to 35 trains per day and 1.2-1.5 million TEU annually. The delivery of the five wide span RMG in 2010 was the first reference installation for Kuenz in North America. Another two identical wide span RMG were added in 2015.

Kuenz performance leads to subsequent orders

Satisfied by the NWOH installations, CSX ordered Kuenz RMG also for hub terminals in Florida and Ohio. Three RMG, designed as double-girder bridges, are proper operating at the Terminal Winter Haven in Florida. Another three Kuenz Intermodal cranes are custom-built for a smooth travelling on curved rail tracks at CSX’s Terminal in Columbus, Ohio.

Kuenz Technology - Moving through the curve

The layout of the Columbus terminal features curved rail tracks, which required a sophisticated design. The main bogie, the intermediate bogies as well as each single wheel bogie can be rotated horizontally. Each wheel bogie is equipped with four horizontal rollers to guide the bogies and distribute the horizontal loads equally. The four horizontal rollers on each wheel bogie guarantee less wear on the wheels, rollers and the crane runway. The crane posts (fixed post and hinged post) are electronically synchronized. These design features allow the crane to move safe and smoothly through the curve.



Kuenz RMG in Winter Haven, Florida



Technical Data – CSX Cranes.

Terminal North Baltimore, Ohio: 7 RMG

Year of construction: 2010 / 2015

Capacity main hoist	46 t
Track width	45.7 m
Cantilever fixed column	16.6 m
Cantilever hinged column	20.9 m
Lifting height	15.4 m

Working speeds:

Hoist rated load	0 - 25 m/min
Hoist partial load	0 - 50 m/min
Gantry drive	0 - 120 m/min
Trolley drive	0 - 150 m/min
Slewing	0 - 1.5 rpm

Power:

Main hoist	275 kW / 100%ED
Gantry drive	24 x 19 kW / 100%ED
Trolley drive	4 x 32 kW / 100%ED
Slewing	2 x 7 kW / 100%ED

Terminal Columbus, Ohio: 3 RMG

Year of construction: 2012

Capacity main hoist	41 t
Track width	34.7 m
Travelling on curved rail	Radius: 582 m
Cantilever hinged column	12.5 m
Lifting height	12.3 m

Working speeds:

Hoist rated load	0 - 25 m/min
Hoist partial load	0 - 50 m/min
Gantry drive	0 - 120 m/min
Trolley drive	0 - 150 m/min
Slewing	0 - 1.5 rpm

Power:

Main hoist	275 kW / 100%ED
Gantry drive	20 x 19 kW / 100%ED
Trolley drive	4 x 32 kW / 100%ED
Slewing	2 x 7 kW / 100%ED

Terminal Winter Haven, Florida: 3 RMG

Year of construction: 2013

Capacity main hoist	41 t
Track width	45.7 m
Cantilever fixed column	16.9 m
Cantilever hinged column	13.2 m
Lifting height	15.2 m

Working speeds:

Hoist rated load	0 - 25 m/min
Hoist partial load	0 - 50 m/min
Gantry drive	0 - 120 m/min
Trolley drive	0 - 150 m/min
Slewing	0 - 1.5 rpm

Power:

Main hoist	275 kW / 100%ED
Gantry drive	24 x 19 kW / 100%ED
Trolley drive	4 x 32 kW / 100%ED
Slewing	2 x 7 kW / 100%ED

North Baltimore, Ohio ■
Columbus, Ohio ■

Winter Haven, Florida ■

Künz

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