



Reference

Container Cranes (RMG)



Energy Guiding Chains

Application

Containercrane (Road-to-Rail) RMG

Operator

Deutsche Bahn / Duss

Customer

Hilgers AG (Rheinbrohl), now: DSD Stahlbau GmbH

Travel path

58 meters

Travel speed

max. 120 m/min

Environment

Railway terminal

Energy Guiding Chain

RACER 72, Bi 550 mm, RS-RV full frame

Chain length

2 x 32 meters

Cable package

40 cables, 20 kg/m

Special features

roling carriage between upper and lower chain runs

Realized

May 2003 [Wampfler AG] (D)

System advantages

- low noise solution because of the chain having no hinge points and chain links (no polygone effect)
- chain sidebands consisting of a continuous extruded profil including two steel ropes per sideband for maximum tensile strength
- reduction of driving forces by more than 95 % in comparison to a classic chain that runs under friction in a guiding channel
- reduction of driving forces by more than 50 % in comparison to a chain having rollers in its sidebands
- no guiding channel required; only a support tray is necessary to keep the chain in its position
- minimized friction and wear as the chain does not glide and press against a guiding channel
- best possible cable guidance inside the chain cross-section because of little to no relative movements inside the chain; no vibrations due to polygone effects affecting the cable lifetime