

ROREXS System

Rail Train



40.61/63

**Brings rails to the track quickly,
safely and in rolling mill quality.**

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 **ROBEL**



The ROREXS System 40.61/63 brings rails to the track in perfect quality. The procedure of rail transport and processing becomes controllable, efficient and safe.

The world's railway networks have heavy traffic round the clock. This means that the track and sleepers are under enormous stress and wear that can result in damage. In order to safeguard high route availability it is essential to perform regular and professional maintenance. The product rail is manufactured from high purity steel using elaborate procedures in specialist steel mills. The product runs through several production and testing processes in order to meet the extraordinary requirements of railway traffic.

The challenge of the rail manipulation is the high rail weight and its deformability that is difficult to control. The ROREXS System enables fast loading and unloading of long welded rails up to 500 m. It loads and transports rails safe and gentle to material over long distances.

- Within the bending and stress limits
- Sleepers remains undamaged
- Application on straight tracks and in curves

ITS BENEFITS. YOUR BENEFITS.

Latest loading technology results in high-quality work product

- Rail quality remains unchanged because of the gentle transport from the production site to the installation site
- Precise rail guiding for loading and unloading
- Proper loading procedures within the stress limits avoids material damages and costly reworking on rails, sleepers and rail fastenings
- Accurate, reproducible positioning of rails thanks to rail positioning device
- Rails secured against tilting during loading and unloading due to universal roller heads
- Utilisation on dual or multiple tracks is possible, no infringement of open adjacent line
- Wide range of use due to rails being able to be pulled down on one side or in pairs

Safety and comfort for human and material

- Automatic slew limit of rail clamps
- Rail brake preventing rails that have been unclamped from starting to move in gradients
- Automatic front and rear accesses on rail manipulator
- High working efficiency thanks to an ergonomic working environment in the ROMAN
- Spring-mounted operator's seat with driver recognition

Save time, save costs

- High processing speed up to 2700 m/h
- Minimum manpower requirements of only one operator for uploading- and four operators for unloading
- Lower route fees due to shorter time slots
- Calculable work cycles for a better quality of planning and optimizing track possession



THE COMPONENTS

ROMAN Rail Manipulator

- Loads and unloads rails onto/from the transport unit
- Secures the rails against tilting with the rail clamps
- Has a separate hydrostatic drive
- Provides a protected and ergonomic workplace for two operators



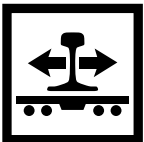
ROCHUTE Two-sided Chute Wagon Unit

- Guides rails to/from the transport unit during loading and unloading safely and gentle to material
- Precise positioning of rail in between or outside of the track
- With a bogie or with a single axle
- Option: Save time with turning device, whereby shunting operations can be avoided



ROTRANS Two-sided Transport Unit

- Stores rails safely during transport
- Secures the rails with clamping racks on both ends
- Roller banks at defined spacing for storage of rails
- Length compensation for the crane rails when travelling in curves
- Secures rails with parallel walls at both ends



THE ROBEL AUTOMATIC SYSTEM.

The option to edge.

ROREXS Rail Exchange-system.

Rail exchanging in one operation.

- Simultaneously, new rail is threaded in and old rail is moved aside
- For rapid rail exchange with a speed of 3 km/h

More technique, more safety

- Protection of each particular rail by clamping racks with automatic rail clamping
- No manual activities on the transport unit, due to automatic swiveling- and locking processes by roller banks
- Remote control of the chute wagon functions from a safe position
- Pulling off rails without operator intervention thanks to Rail Feeder device



TECHNICAL SPECIFICATIONS

ROREXS 250 (40.61)

ROREXS 500 (40.63)

ROMAN

Drive	4-cylinder diesel engine hydrostatic	6-cylinder diesel engine hydrostatic
Max. tractive effort speed	at 10 km/h: 11,8 kN at 0-4 km/h: 33 kN	at 10 km/h: 17 kN at 0-4 km/h: 44 kN
Weight	12 t	15 t
Lifting power at 3.7m outreach	15 kN	15 kN
Slewing force	10 kN	10 kN

ROTRANS

Transport speed	up to 100 km/h	up to 100 km/h
No. of rails depending on clearance gauge	max. 50	max. 50
Rail weight/m	up to 70 kg	up to 70 kg
Rail length	up to 250 m	500 m
ROREXS rail unloading output	~2700 m/h	~2700 m/h

Dimensions and weights approximated. We reserve the right to modify in the course of technical development. Copyright secured.

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