

# FOR RAILS

METRO TRAINS • TRAMS • TRAINS • LOCOMOTIVES • BOGIES

# LIFT UP. KEEP UP. BRING DOWN



**NORDLIFT**



# RAIL VEHICLE LIFTING

Nordlift TH electro-hydraulic lifting jacks  
– the first in the world since 2002

## NORDLIFT TR ELECTRO-MECHANICAL LIFTING JACKS NORDLIFT BOGIE HANDLING LIFTS

- Column capacity TH 5–40t, TR 8–20t. Max number of columns 28
- One lift for all types of rail equipment: different ages and different manufacturers' locomotives, railcars and trains
- Save your working time up to an hour each time you lift

Nordlift TH rail vehicle lifting equipment also lift up your productivity:

### FASTER COMPLETION OF WORK

**Nordlift Touch™** helps you to set the arms effortlessly and accurately to the recommended lifting point using the control panel on each column or a remote control.

The columns send the load and height information to the central processing unit (CPU) which acknowledges the information as the so called zero level. During the lift the CPU shows e.g. the lifting heights of the columns in relation to the zero level, error diagnostics and information tailored for each customer.

In terms of speed the **Nordlift TH** rail vehicle lifts are unrivalled compared to mechanical lifts. We have tested them and the Nordlift TH lifts saved us up to an hour of working time.

### MORE WORKING SPACE, EASY TO MOVE

It is easy to move and store the lifts due to their compact structure. This allows more working space. The columns move on rails or on concrete floor either manually or using an electric engine.

Each column has an independent electro-hydraulic engine. The columns are connected with cables that include the data and input current of the electric engines. There is no need to have interconnecting cables under the lifted vehicle, which allows more space.

### VIRTUALLY MAINTENANCE FREE, LONG LIFE CYCLE

The **Nordlift TH** lifts have much less wear and tear compared to mechanical lifts. Nordlift provides a long life cycle and low-cost maintenance. One maintenance day a year is all. Also the purchase price of the TH columns of over 20 tonnes is lower than that of the screw jacks.

### ONE LIFT FOR ALL VEHICLES

Nordlift rail vehicle lifts have either electric or manual adjustable arms or specifically designed adapters. Thus, one and the same lift suits trains, metro cars, engineering trains, locomotives etc. – irrespective of the manufacturer, model or age.

**Nordlift TH** lift capacity can be e.g. 20 x TH 20 = 400 t (rail road company) or 4 x TH 30 = 120 t (maintenance of a mining locomotive).

### SAFE IN ANY SITUATION

**Nordlift Triple Safety System™** is a triple, continuous and automatic safety locking system. A hydraulic load-holding valve, a



TECHNICAL SPECIFICATIONS	TH 5-40	TR 8-20
Operating principle	Electro-hydraulic	Electro-mechanical
Lifting capacity	5-40 t/column	8-20 t/column
Lifting height	800-2900 mm	1700 mm
Lifting speed	300-600 mm/min	250-300 mm/min
Engine	1.5-2.2 kW/column	2.2 kW/column
Fork minimum height	240 mm	240 mm
Fork maximum height	3250 mm	3250 mm
Maximum tolerance between columns	+ / - 4 mm	+ / - 4 mm
Moving the column	Manually or using an engine	Manually or using an engine
Protection marking	IP 55	IP 55
Lifting fork	Adjustable or fixed + adapters	Adjustable or fixed + adapters
Columns/lift	4-28	4- 28

mechanical safety catch independent of hydraulics and a lowering brake valve keep the lift up safely in any situation.

**Nordlift Level™** automation controls how the column is lifted and fixes any differences, tolerance +/- 4 mm.

**Noise level less than 70 db** – no exposure to noise.

### LOW POWER AND ENERGY CONSUMPTION

Thanks to the **Nordlift Eco™** technology, the power and energy consumption is nearly 70 % smaller. The TH column requires only 1.5 kW – a screw jack with the same lifting speed requires 4 kW. This results in remarkably lower connected load.

### NORDLIFT BOGIE HANDLING LIFTS

Nordlift provides tailored lifting equipment for bogie moving and handling.

### ASSEMBLER'S CHOICE

Nordlift provided a lift for the VR depot in Helsinki that was tailored to lift Stadler trains. Nearby, there were Stadler's assemblers working on new trains, and they came to have a look at the lift. Seeing how it works the assemblers said that they would like to have Nordlift's equipment in their next site in Tallinn.

Nordlift is the first manufacturer of electro-hydraulic rail vehicle lifts in the world – already since 2002. Several rail companies have chosen the Nordlift electro-hydraulic lift in Belgium, Greece, Estonia, Finland and Senegal.

### WE ARE TRUSTED BY INDUSTRY LEADERS

These companies are already utilising Nordlift's know-how: **Alstom, ABB, Bombardier, Stadler, Valmet Automotive, VR-yhtymä** and **Wärtsilä**.

Our products meet the EU quality requirements, and the lifts only use European, high-quality components. Our planning, product development and manufacturing are all located in Sodankylä, in Finland – since 1978.



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LIFT UP YOUR  
PRODUCTIVITY

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European Union  
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Leverage from  
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2014-2020



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