

Linde Material Handling ranks among the world's leading manufacturers. This position has been justly earned. Linde trucks excel not only with their recognized innovative technology but especially their low energy and operating costs, which can be as much as 40% less than competitors.

High quality in production is matched by the standard of the services we provide. With a comprehensive network of local sales partners, we are at your call around the clock and around the world.

Your local Linde partner offers you a complete single-source package. From qualified pre-sales consulting through the sale to after-sales service; including finance packages matched to your business requirements. Leasing, rental or hire purchase. Flexibility is maintained in your operational and decision-making processes.



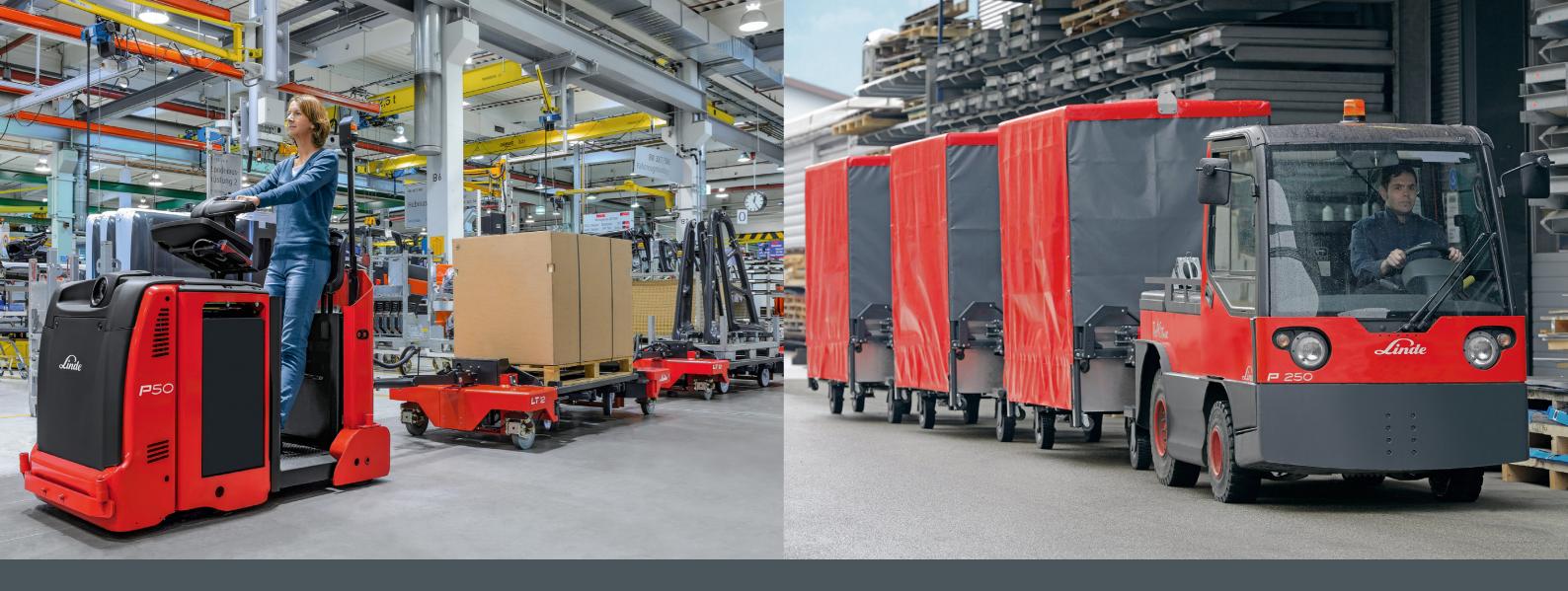
Engineered for your Performance

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# Linde load-train solutions. Logistic Train and Factory Train







# The efficient truck complement to cope with increasing cost pressure

The increasing cost pressure is also putting external and internal transportation to the test. Every movement, every interruption and every use of operating material is scrutinized intensely. At the same time, more parts have to be moved to the flexible production line with less space per part.

Making already tightly planned processes in the material flow even more efficient, requires regrouping and optimizing of similar work steps. A Linde Logistic Train or Factory Train is the more cost-effective solution for horizontal transport which can guarantee a continuous flow of material to and from production. Forklift trucks, on the other hand, are designed for vertical movements. This is where their enormous lifting power can be effectively used.

Consequently, a Linde load-train solution is not a replacement for a truck, but a logical complement. The optimal combination of the two increases the cost-effectiveness of all industrial trucks employed and lowers overall operating costs. Fewer separate trips and empty trips reduce the risk of accident and background noise.

# More efficient processes for certain

	Round-trips with tra
Continuous, clocked material provision	No turning of forkl
Structured, linear processes	Less intersecting less oncoming t
Smaller aisle width, space savings	Reduced risk of a
-	
Processes	Safety

### railer trains

klift trucks

ig traffic, g traffic

accidents

Lower personnel costs

Smaller transport volume, fewer empty trips

Better handling performance

### **Cost effectiveness**

# Lower process costs and greater safety due to an innovative material circulation



















# An individual solution for every need

With its flexibility regarding load-dimensions and weights, the load train meets all demands and offers a suitable solution for every need: transporting small containers, long parts or even six euro-pallets at a time.

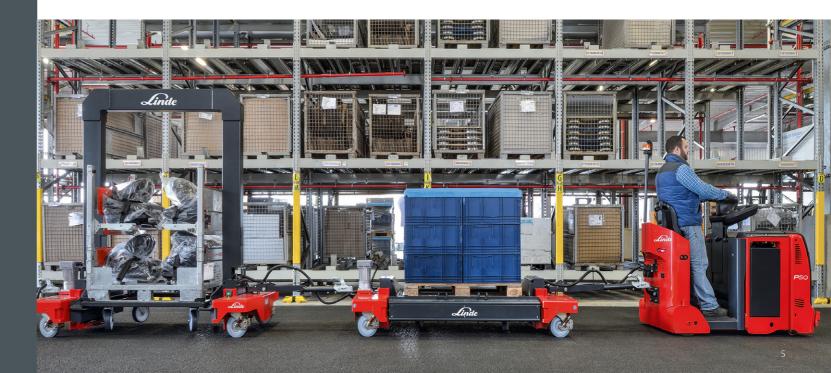
Because of the possibility of holding all types of load carriers and trolleys, the trains are excellently suitable in precisely timed processes.

The optional high class weather protection gear makes the Linde Factory train the perfect solution for horizontal transportation outdoors.

The bridge type carriers are eminently suitable for deployment in challenging infrastructures with narrow driveways.

Consumption reduced electrically powered spindles are the lifting force. And with an unique steering system: the articulated steering for the Factory Train as well as the 4-wheel steering at the Logistic Train, together with the variety of possible wheel-bases, even the most individual demands can be accommodated.

A Linde train is not an off-the-shelf purchase; each of these intelligent devices is planned with individual construction and equipment with the assistance of our experts, who are at your service for advice from the very beginning, and is then customer-specifically produced.



# LT – Logistic Train Functionally constructed modular trailer system



## Trailer designs



Operation

Lifting function

Tyres

Holding Performance





LT-Z C-frame no lift



LT-B bridge electrical lift



LT-BZ bridge no lift



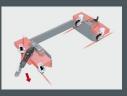
LT-P platform

6



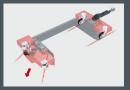
LT C-frame electrical lift

### Steering systems









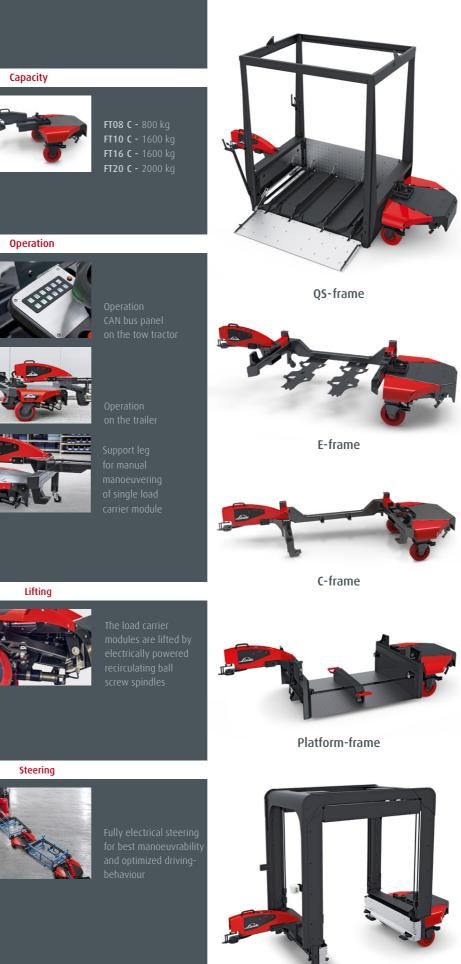
### Fields of use



# FT C – Factory Train Compact Single modular trailers for highest flexibility

The innovative FTC brings a new dimension to efficient and safe material flows for production plants. The 3-point construction ensures that all wheels of the train remain in constant contact to the ground also on uneven surface applications. With its interchangeable load carrier modules, the FTC is an efficient and cost-effective solution for a rapid load transfer.





Bridge-frame

## **Examples of load** carrier module designs









Fields of use





# FT – Factory Train Modular designed load-train system

A train that ensures motivated operators also by the strain-free ergonomics while opening or closing the slide-up curtain in upright position. The superb characteristics of the articulated steering system realizes a comfortable driving and best in class directional stability. With its supplementary crab steering, it allows an angled side-moving of the whole train.



The train connector system is a uniquely designed, standardized feature that safely connects the load carrying construction with the modules.

The load carrier safely hooks into the train. It is available in different designs allowing the adaptation to specific requirements. On its supporting wheels, it can easily be moved for exchange.

The weather protection with its double sealed curtain offers optimized ergonomics for handling and secures the goods from environmental impact.

The main module interacts with related

modules for lifting and lowering the load carriers and for steering the whole train. The CAN bus communication leads to the marvelous manoeuvrability and the small turning circle.

The rear module restricts the train in curves to the limited speed until its wheels are back in straight position.



Capacity







Lifting



## **Examples of** carrier designs



QS-frame



The front module connects the train

to a tow tractor. The shock-absorbing



Flaps locking the trolleys



C-frame



Bridge-frame









Fields of use



