



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 optima 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 trailer trains		
Continuous, clocked material provision	No turning of forklift trucks	Lower personnel costs
Structured, linear processes	Less intersecting traffic, less oncoming traffic	Smaller transport volume, fewer empty trips
Smaller aisle width, space savings	Reduced risk of accidents	Better handling performance
Processes	Safety	Cost effectiveness

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

Safe: A larger number of containers in one transport cuts down on internal traffic. The circumferential view for the driver plus the visual feedback from the integrated tractor drive-lock, together with curve-speed reduction prevents unsafe driving situations.

Powerful: The ingenious solid modular structure with stable lifting systems has no difficulty carrying loads up to 2 t. Combined with the energy efficient electric power units this is the basis for high durability and long product life.

Comfortable: Operating elements situated within easy reach offer the user the ultimate in comfort and the SE-type tires reduce noise to a minimum. Long-lasting standard connectors enable easy coupling of tow tractors and train elements.

Easy servicing: The reliable Linde service organization is able to carry out a comprehensive service for the logistics train. This ensures availability of spare parts to the greatest extent possible. Easily exchanged wear parts combined with service-free electric spindle-units means short service periods and correspondingly low repair costs.







Loading the trolleys directly from the storage or manually roll in trolleys



2 Driving to destination, stable driving and cornering



Round-up trip: distribute full trolleys, collect returns







6 Load-lifting via footswitch



Loading the empties fo returning transports



Unloading at destination, trolley taken to location, fill-up defined line-locations

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.

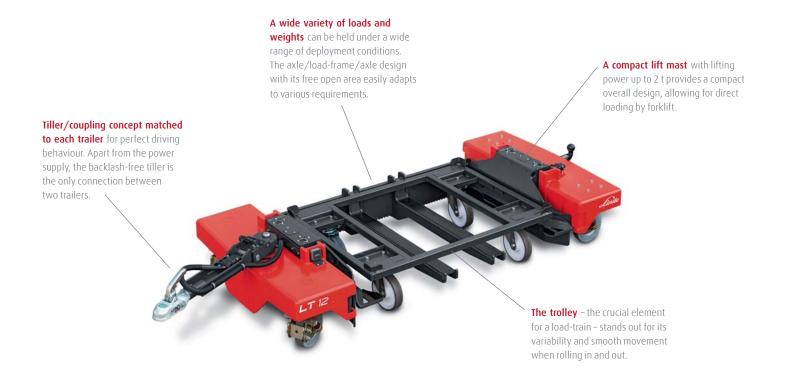
Consumption reduced electrically powered spindles are the lifting force. And with an unique steering system: the articulated steering for the Factory Train as well as the 4-wheel steering at the Logistic Train, together with the variety of possible wheel-bases, even the most individual demands can be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



Logistic Train (LT)

Functionally constructed modular trailer system





Operation



Operation
CAN bus panel



Condition display



Foot switch operation

Lifting function



et et tro



Mayabla farka

Tyres



Standard non marking



SE-tyre heavy duty

Holding Performance



Double europallet 1600x1200 mm Industrial pallet 1200x1000 mm Europallet 1200x800 mm Chep pallet 600x800 mm Special dimensions on request

Trailer designs



LT C-frame electrical lift



LT-Z C-frame



LT-B bridge electrical lift

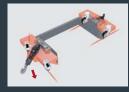


LT-BZ bridgeno lift



LT-P platform

Steering systems



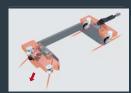
Mechanical 2-wheel steering



Mechanical 4-wheel steerin



Electrical 4-wheel steering



2 swivelling / 2 fixed wheel

Fields of use



Indoor mainly Cold store environmen Clean room field Foodstuffs field

Factory Train (FT)

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.



Capacity



FT08 - 800 kg



FT10 - 1000 kg

Operation



Operation
CAN bus panel
on the tow tracto
with lift position



Operation on the traile

Lifting



The load carriers are lifted by the electrical spindles of the adjacent modules

Steering



The main module gives 90° turning, the load carriers extend this with 2 times 15° to 120°

The optional crab function moves the train obliquely to the side

Examples of carrier designs



QS-frame



C-frame



Bridge-frame

Weather protection







No bending down for opening and closing

Double sealed curtain

Fields of use



Industr Double pendulum chassi for outdoor condition like uneven surface



Indoor
without weather protection
ea. cold store environment



The benefits for you

- Fewer transport trucks
- Less noise
- Fewer personnel
- Lower costs
- Higher space efficiency



Isn't it about time to get on board this train?

The demands placed on internal plant logistics are increasing steadily for a number of reasons. While the forklift truck with its highly flexible deployability had no competition in the past, a Linde load-train as a complement to trucks is now often the only way to increase efficiency. This innovative symbiosis of trucks and load-trains is not only saving personnel and transport costs at more and more locations; it also ensures more precisely targeted deliveries that fit the needs of production lines with higher and higher cycle speeds. Are you on board yet?



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.

