



The new stacker generation  
L14, L16, L20, L14 AP, L16 AP, L20 AP

Linde Material Handling

*Linde*

The L14-20 range represents the latest stacker generation, optimised for every stacking and load transfer application.

Each truck is equipped with the Sinergo operator interface which uses advanced ergonomic design features to combine maximum safety with effortless operation for the user.

This range introduces two remarkable features designed to overcome the problems posed by common applications:

**Linde Load Management and the fully suspended AP platform concept.**

The AP stacker version benefits from a folding platform to improve load transfers over medium to long distances and increase comfort whilst working.

These enhancements allow the L14-L20 stacker models to cope perfectly with the demands of any stacking application delivering the highest levels of comfort, safety and productivity.

*Sinergo*®



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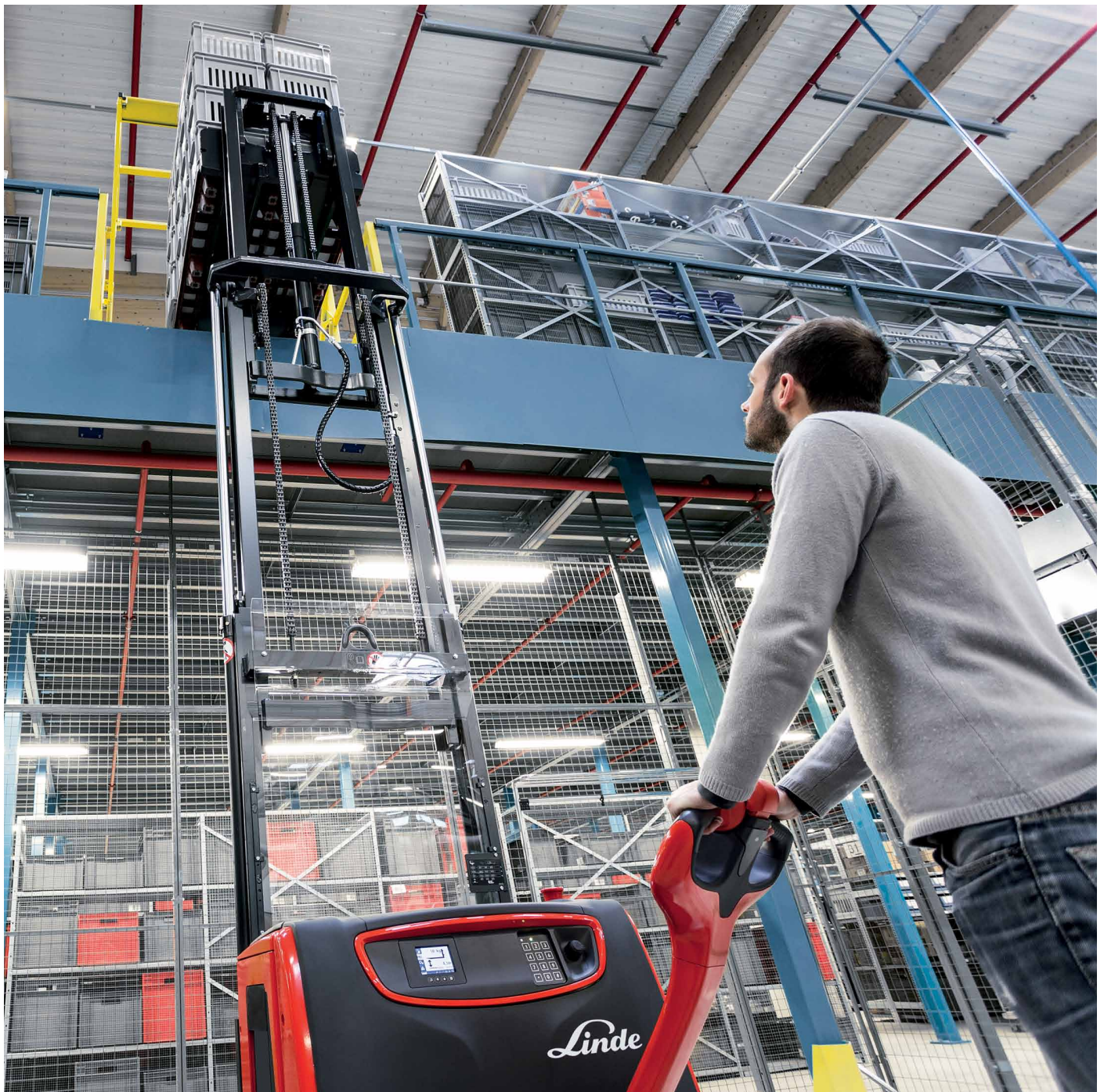
Linde  
L14

# A revolutionary truck when it comes to safety...

**Protecting operators, preserving loads.** The Linde Load Management feature automatically calculates the truck's residual capacity in relation to the height of the forks and the weight of the load on them.

During stacking and destacking, the operator receives an instant warning when the weight on the forks exceeds the permitted weight. This instantly protects the operator, the load and the working environment. Linde Load Management incorporates a multifunctional colour display that provides the operator with live, real-time information.

A visual and audible warning is activated as the maximum residual capacity of the truck is reached.



# Respecting residual capacity whilst always remaining safe

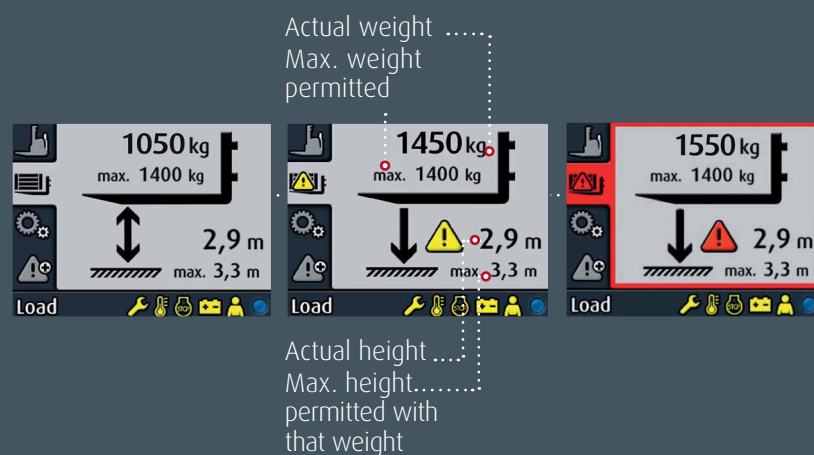
With the Linde Load Management, the operator can handle the load in complete safety.

This innovation is offered in two versions:

- **Standard:** a visual and audible warning notifies the operator of an overload risk.
- **Advanced:** complementary information regarding the fork height and its relation to the residual capacity is supplied to the operator.

## What does the multifunction display show?

The man/machine interface instantly warns the operator of the approaching instability of the truck.



|                                                                    | Standard Version | Advanced Version |
|--------------------------------------------------------------------|------------------|------------------|
| <b>Respecting the residual capacity equals safety</b>              |                  |                  |
| Constant calculation of the residual capacity                      | ●                | ●                |
| Visual and audible warning when approaching maximum capacity       | ●                | ●                |
| <b>Optimised performance</b>                                       |                  |                  |
| Speed reduction in relation to the steering angle                  | ●                | ●                |
| Speed regulated in relation to the weight and the height of lift   |                  | ●                |
| Acceleration in relation to the steering angle and the load weight |                  | ●                |
| <b>Displayed information</b>                                       |                  |                  |
| Display of load weight                                             |                  | ●                |
| Display of fork height                                             |                  | ●                |
| Management of the remaining residual capacity                      |                  | ●                |

# L14-L20 stackers: the Linde benchmark

The range delivers against all customer requirements and operator expectations of safety, comfort and reliability.



## Optimised brake

As the tiller approaches the horizontal position, the operator feels increased resistance warning that it is reaching the emergency brake zone. This avoids abrupt, unintentional braking of the truck during load transfers.

## Soft fold-back tiller

When the tiller is released, it does not impact against the motor cover due to a damping system.

## Proportional speed control

Safety depends, amongst other factors, on the distance between man and truck. This optional electronic function automatically adapts the speed of the truck to the angle of the tiller. The further the operator is from the truck, the greater the angle of the tiller and the faster the truck is permitted to travel. In the same way, as the operator comes closer to the truck, top speed is decreased until the truck comes to a halt. This function ensures optimum safety during load transfers.

## Optimum manoeuvrability

All the controls are intuitively positioned on the tiller head for use with either hand ensuring optimum ergonomic fit and high levels of comfort.



## Safety distance

Thanks to the low-mounted tiller, the operator is always the ideal safe distance from the truck.

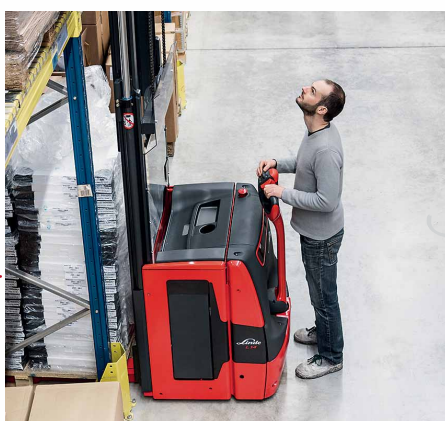
## Electric steering

A key contributor to maximum productivity, this standard function enables smooth manoeuvrability and precise, easy, effortless.



### Panoramic visibility

The shape of the battery cover and the position of the mast offer the operator an exceptional view of the forks at any height whether handling a pallet on the ground or at height.



### Creep Speed and Safety Lift

In confined areas, the Creep Speed function permits the operator to handle the load safely. With the tiller in the vertical position, the main lift may be activated by pushing the Safety Lift button. This function, with both hands on the tiller, facilitates load handling in the tightest corners.

### Control of Lift motor

Thanks to the Optilift control, the operator controls the speed of the lift motor with the tips of the fingers for extra precision: fork height can be adjusted with millimeter accuracy! Moreover, Optilift enables 40% faster lifting and limits energy consumption to what is strictly necessary.



### Reinforced fork carriage

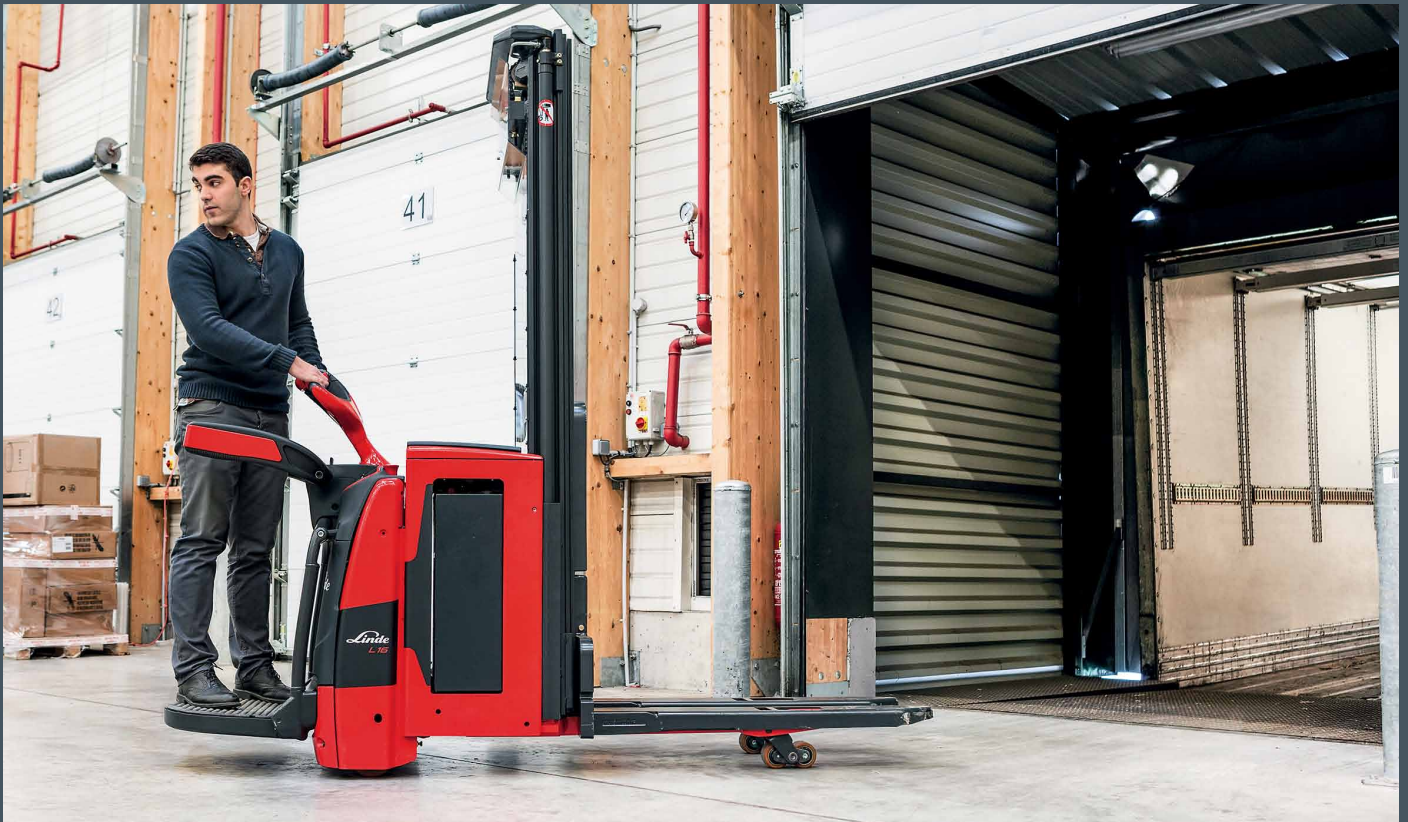
The quality and robustness of the materials used ensure a long service life for this truck range, even when working in the most demanding environments.

### Soft landing

The Linde stacker range is equipped as standard with soft landing of forks. The lowering speed of the forks is automatically reduced as they approach the ground for smooth pallet placement.



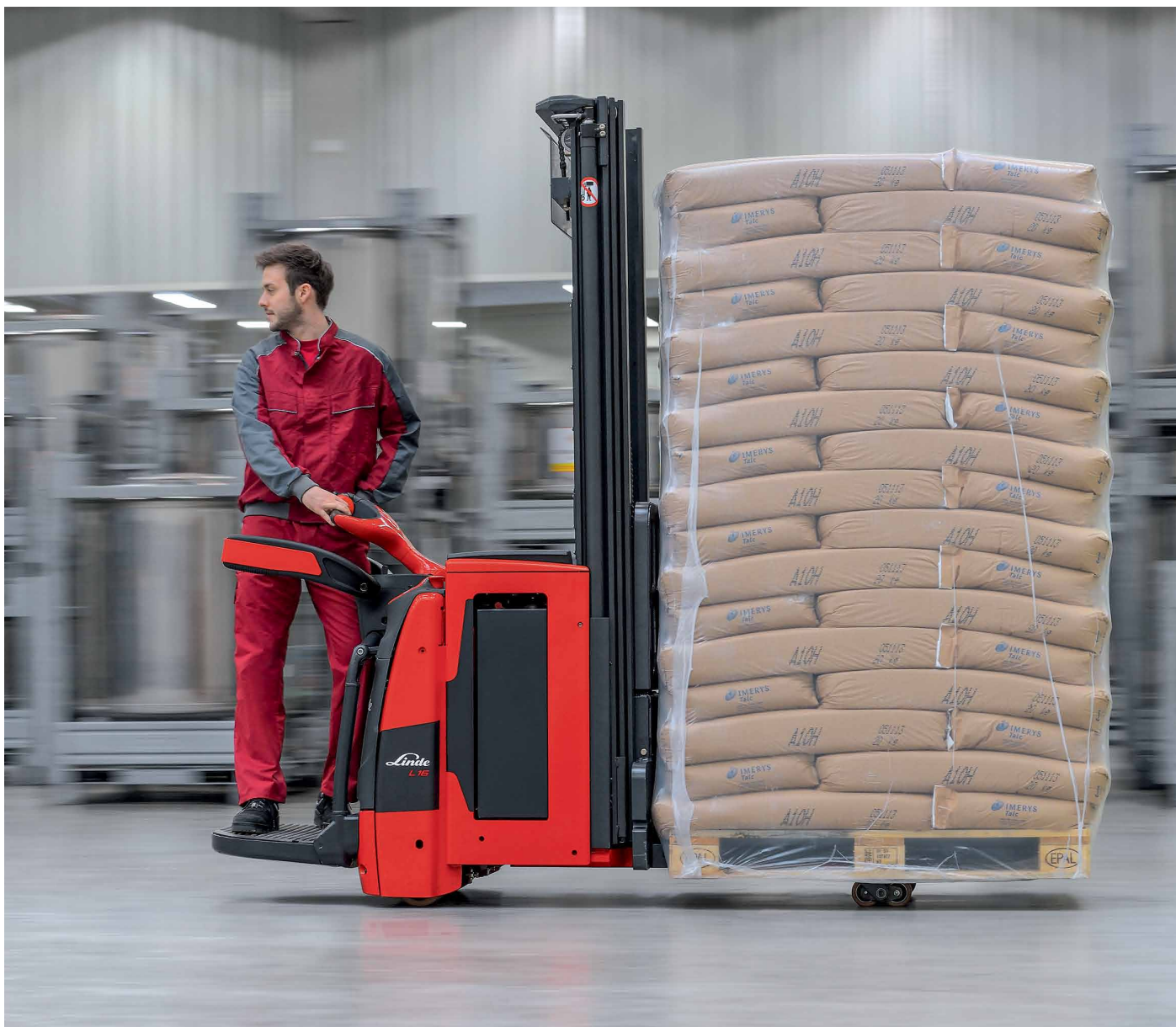
# Unique operator comfort levels with the fully suspended driving platform



To handle the challenges posed by a demanding environment, the driving position has been designed to make it really simple to fold away the platform and side-guards. Associated with electric steering and the Optilift lifting function, this driving concept produces a unique, ergonomic driving experience. This prevents musculoskeletal disorders (MSD) potentially leading to sickness absence. Every part of the truck in direct contact with the operator has been conceived to minimise vibrations, especially to feet, hips, arms and back.



The platform, side-guards and tiller form a single structure which is completely suspended and isolated from the chassis through its 4 attachment points. This configuration reduces vibrations felt by the operator to a minimum greatly enhancing comfort during the working day. This innovative concept also ensures a long lifetime for the truck itself.



## ... Benefiting from incomparable comfort at work

**Limiting impacts and vibration to an absolute minimum.** With the AP platform, the L14-L20 range introduces the fully suspended platform concept. The fully suspended platform reduces the effect of impacts and vibration to a minimum offering the operator driving comfort that is second to none. This platform has been conceived to suit many different applications (loading/unloading) improving comfort in every aspect of the working environment (uneven floor, ramps, etc.). This is a further guarantee against exposure to vibration and shocks, which are well known to be the main cause of musculoskeletal disorders (MSD) and other physical problems caused by common working practices in the material handling industry.

# High performance equipment for all applications

A flexible truck for every application in the stacking cycle in a broad range of working environments, this stacker range is able to handle loads of up to 2 tonnes.

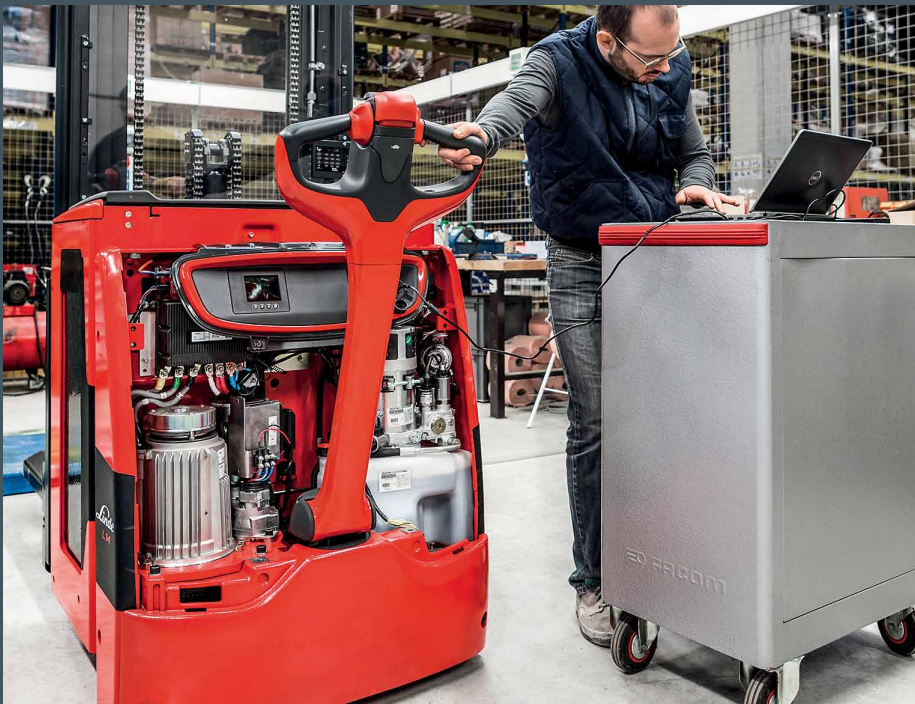
These trucks can also be equipped with an initial lift function to make it easier to operate over ramps, dock levelers and uneven floors. In order to adapt to virtually every load type and lift height, a large range of masts (Standard, Duplex and Triplex) is available up to a maximum lift height of 5 316 mm combined with a wide selection of fork carriage options. Linde has added a 2 tonne capacity truck to this stacker range highlighting the robustness and durability of the truck's components (chassis, fork carriage, mast and cylinders) and providing a solution for more demanding applications.



Linde offers a wide range of batteries to give the shift-life required for every application. For multi-shift applications, the battery compartment can be fitted with an assisted side change system. This consists of rollers and an assistance lever that starts off the side exit process with no effort whatsoever. In addition, the lever incorporates a locking system to guarantee that the battery is securely held in its compartment when the truck is in operation.

# Perfectly orchestrated maintenance

In addition to reliable diagnostic tools, the truck's design facilitates maintenance interventions.



## Quick and practical access

Simply remove the motor cover for easy access to all the technical components of the truck. Furthermore, the electronic control assembly permits the technician to intervene quickly and efficiently.

## CanBus architecture

Setting the speed and the braking force are basic functions. The CanBus also allows diagnosis of the condition of the different truck components and speeds up the identification and repair of any faults.



## Maintenance-free AC motor

This stacker range is equipped with a high quality maintenance-free AC motor incorporating an electro-magnetic brake. This technology allows Linde to extend maintenance intervals to 1,000 operating hours (1 visit per year).



## Multifunctional colour display

This shows all necessary information: fault codes, hourmeter, next maintenance visit, time/language settings. Whilst the on-board charger is in use, live information about the charging level of the battery is shown in the display.



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.