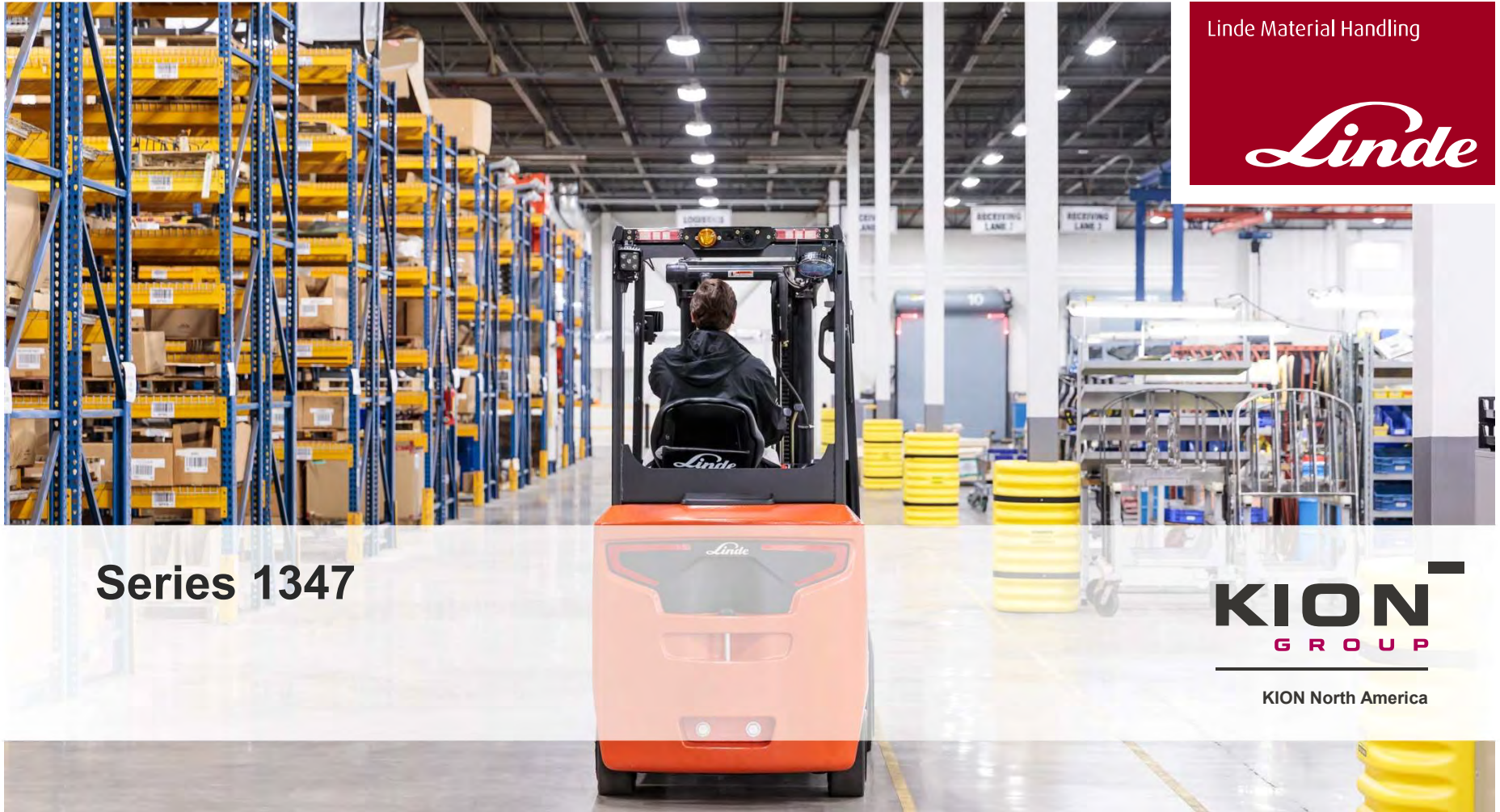


TOTAL WAREHOUSE



Series 1347



KION North America

Series 1347 Basic dimensions



Series 1347

Available models

Compact configuration (30")



Model	Capacity	Height	Length
E25C	5,000 lb	88"	85.2"
E27C	5,500 lb	88"	87.2"
E30C	6,000 lb	88"	87.6"

Long configuration (34")

Model	Capacity	Height	Length
E25CL	5,000 lb	88"	87.6"
E27CL	5,500 lb	88"	89.1"
E30CL	6,000 lb	88"	89.9"
E32CL	6,500 lb	88"	91.0"



Battery arrangement

- Lift-out
- Slide-out
- Roll-out

36v	48v
	
18-85-25	24-85-19

Battery arrangement

- Lift-out
- Slide-out
- Roll-out

36v	48v
	
18-85-29	24-85-21

Series 1347 Battery exchange options

Lift-out



Slide-out



Adds 0.3" height
(same battery)

Roll-out



Adds 0.4" height
(same battery)

Series 1347

Operator compartment

Features

- Small diameter steering wheel
- Adjustable steering column
- Wide and deep storage compartment
- Ergonomics for wide range of drivers
- Full suspension seat with position, tilt, and weight adjustments
- Orange seat belt
- Twin pedal controls (standard)
- Single pedal controls (optional)



Competition: Non-suspension / semi-suspension

Series 1347

Operator compartment



Features

- Front-position, mechanical hydraulic control levers
- Open space for right-side entry/exit
- Fingertip controls optional
- Accessory switches
- Low dashboard position for increased visibility
- Welded entry handle on overhead guard (both sides)
- All-metal step area
- Interactive display unit



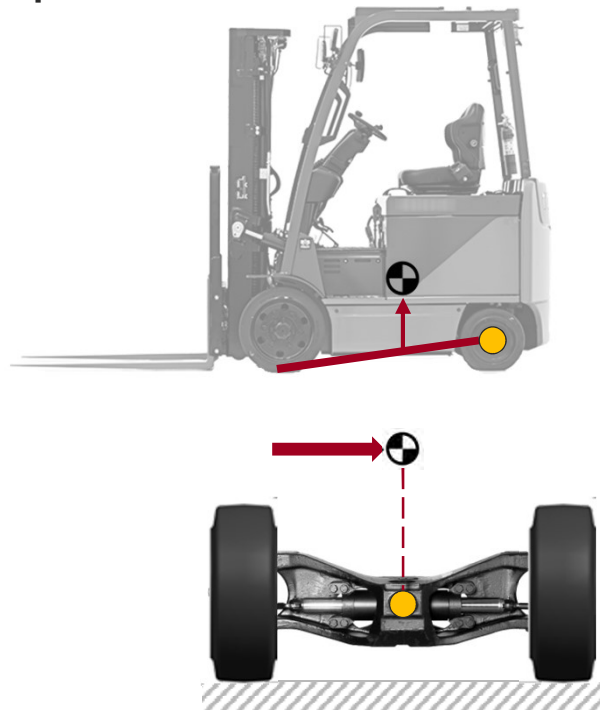
Series 1347 Designed for stability



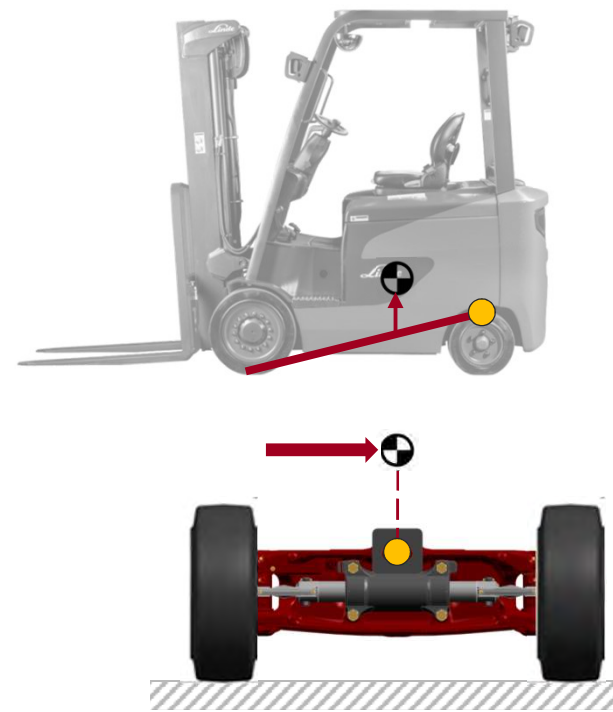
Linde Material Handling



Competitor 4-wheel



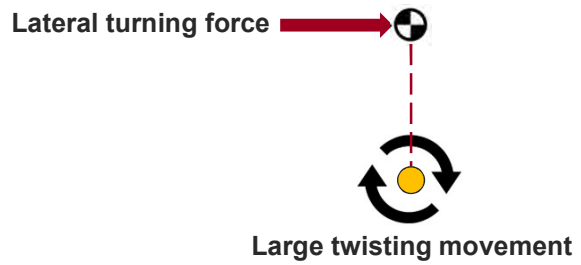
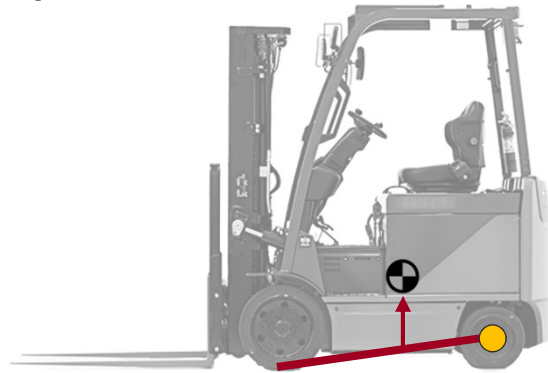
Linde 1347



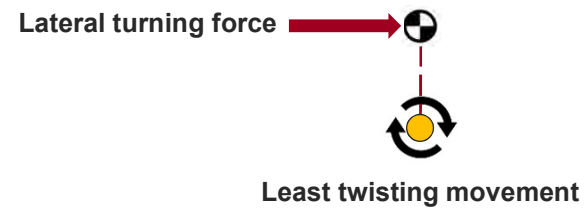
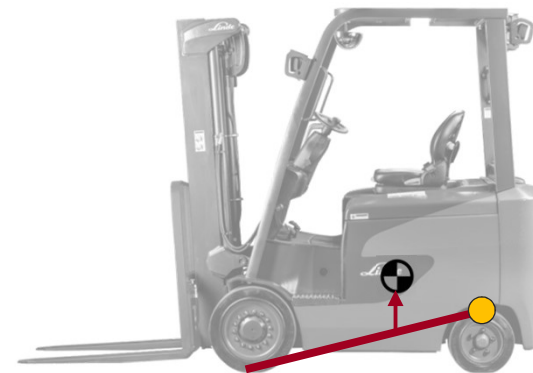
Series 1347 Designed for stability



Competitor 4-wheel



Linde 1347



Series 1347

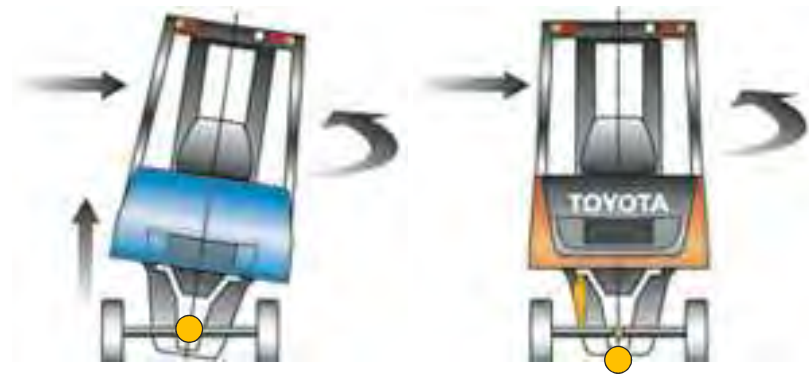
Competitor stability systems on four-wheel units

- What are they?
- How do they operate?
- What is different about Linde?



Competitor stability systems

- Mechanical blocking of axle articulation to limit “body roll” (**poor design**)
- Competition addresses the symptom only. **Linde corrects the root cause.**
- Truck feels unstable at higher speeds.
- Increased productivity using Linde. **Stable feeling at higher speeds.**



Series 1347

Linde exclusive: Heavy-duty steering axle

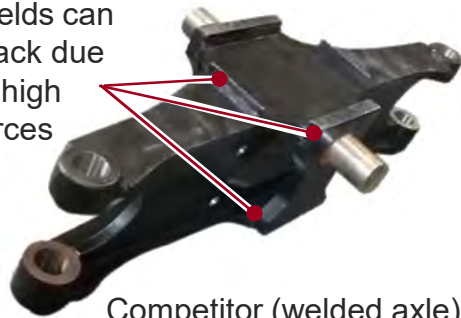


Linde Material Handling

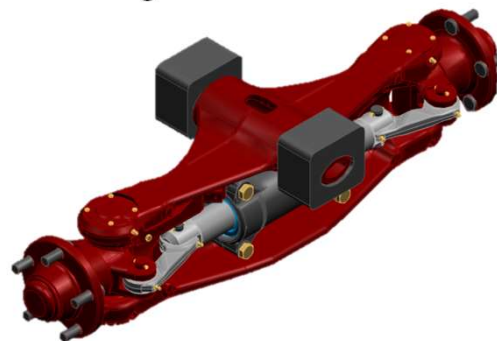
The Linde logo, consisting of the word "Linde" in its signature script font, is displayed on a dark red rectangular background.

- **One-piece, cast iron frame for unmatched durability**
- Heavy-duty connecting components
- High articulation point for stability
- Tight turning radius without tire scrubbing
- Easy access to grease points
- Protected components

Welds can crack due to high forces



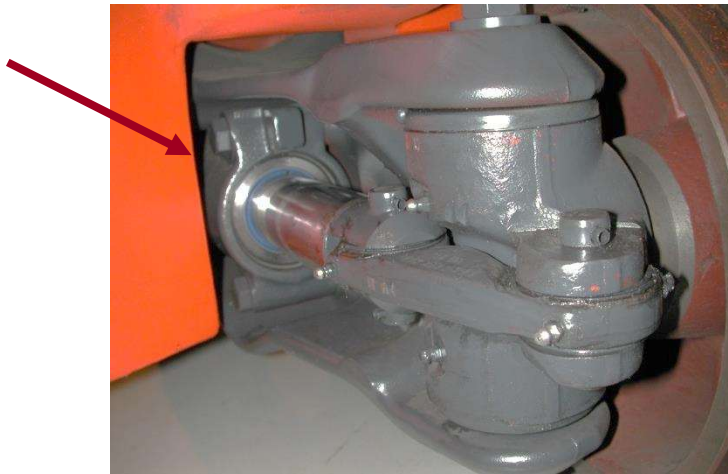
Competitor (welded axle)



Series 1347

Steer axle comparison

Series 1347



- One-piece, cast iron frame
- Forged steel stub axle and kingpin

Competitor



- Welded plate frame
- Bolted connecting parts

Common Features

Series 346 & 1347 – Common Features

Linde exclusive: Compact drive unit

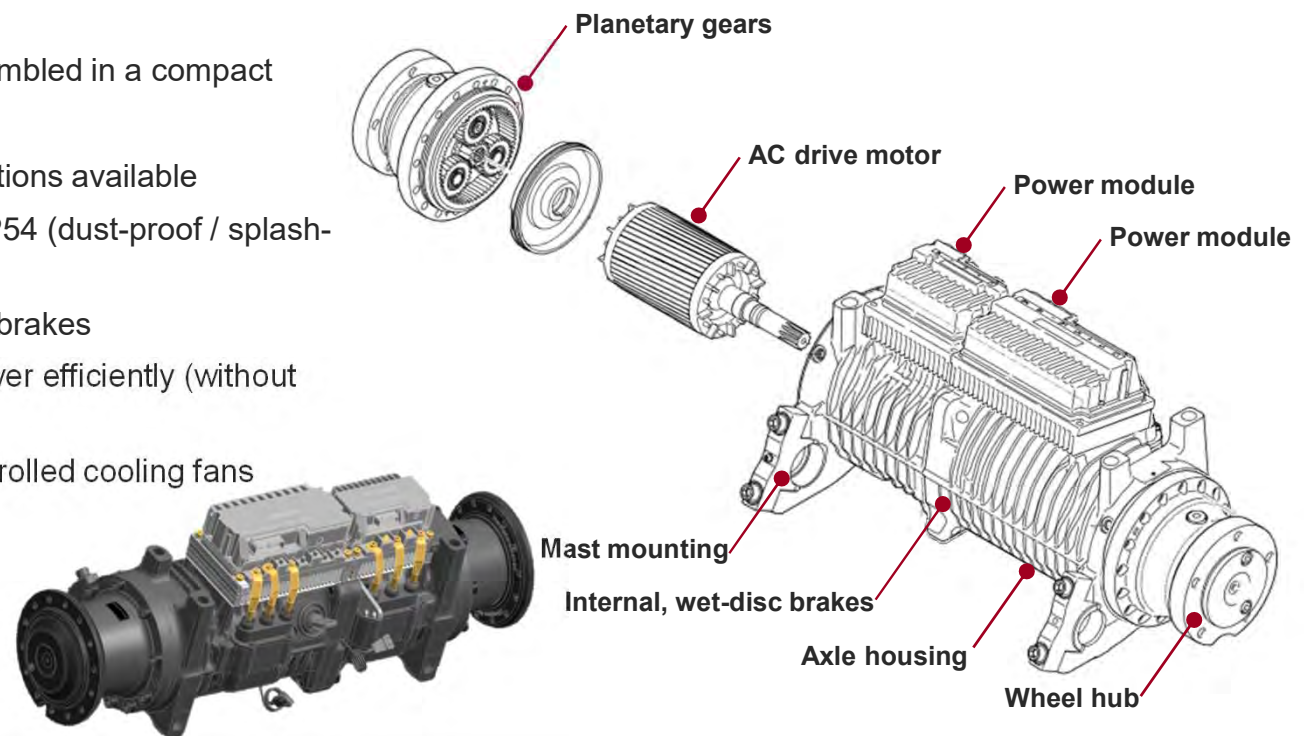


Linde Material Handling



Technical features

- Dual in-line, AC motors assembled in a compact housing
- 36-volt and 48-volt configurations available
- Enclosed and protected to IP54 (dust-proof / splash-proof)
- Zero-maintenance, wet-disc brakes
- Planetary gears transmit power efficiently (without differential)
- Integrated, temperature-controlled cooling fans



Series 346 & 1347 – Common Features

Compact drive axle

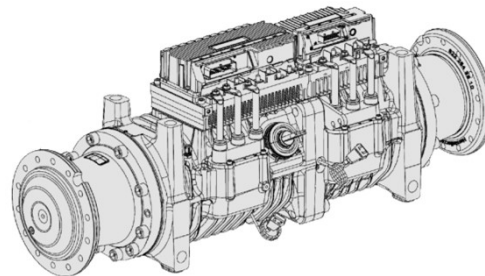


Linde Material Handling

The Linde logo, consisting of the word "Linde" in its signature script font, is displayed in white on a dark red rectangular background.

Customer benefits

- Compact unit reduces part count for simpler maintenance
- Eliminates cost of brake failures and brake maintenance
- IP54 enclosure permits E-truck use in IC-truck environments
- Planetary gearing ensures optimized traction in all conditions
- Integrated fans support use in very hot environments
- Simple replacement of components through wheel ends



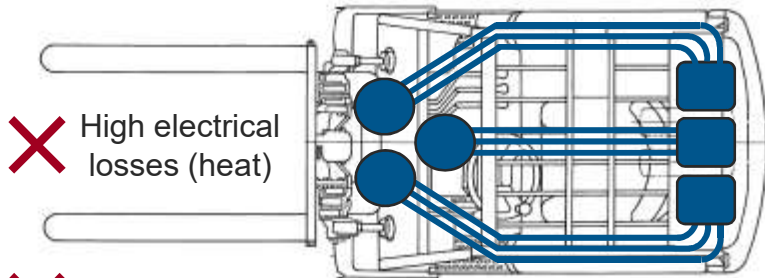
Series 346 & 1347 – Common Features

Electrical power modules



Customer benefits

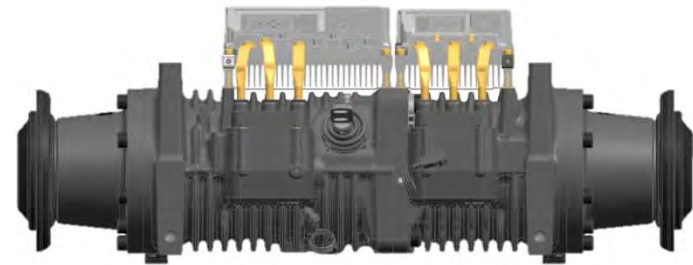
- **Highest energy-efficiency among competition**
- Lower heat generation (energy loss) means more energy available for working
- Eliminate cables that generate heat and energy loss
- Simple, uncluttered layout for easy service
- Dedicated cooling fans for use in hot environments



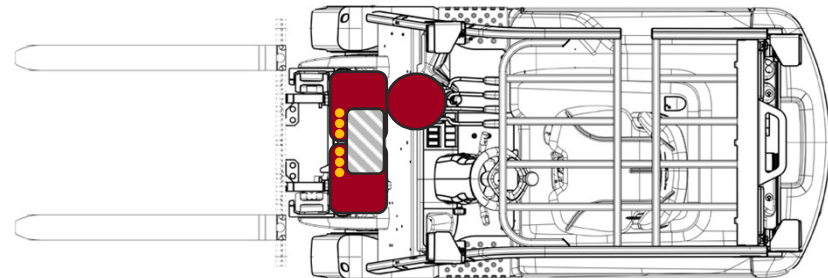
X High electrical losses (heat)

X Cables exposed to battery acid

Competition



Very low electrical losses



Series 1347

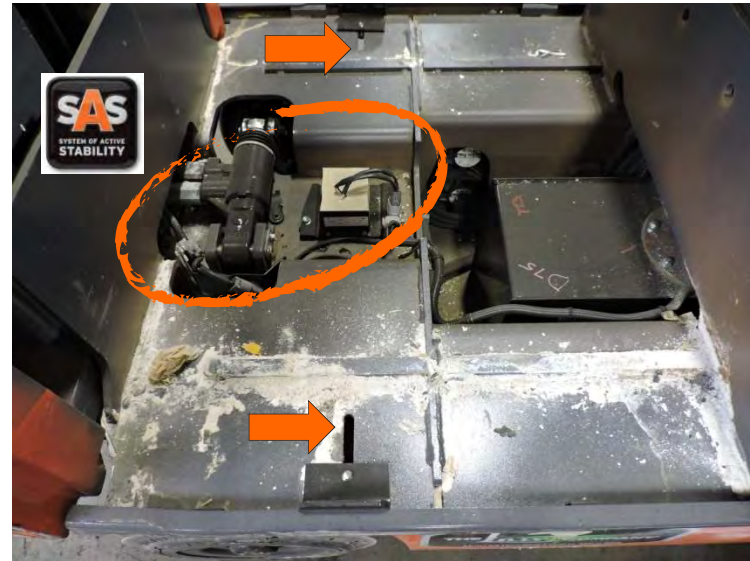
Series 346 & 1347 – Common Features

Reliability through good design

Series 1347



Competitor



*Critical components under battery

Series 346 & 1347 – Common Features

Reliability through good design

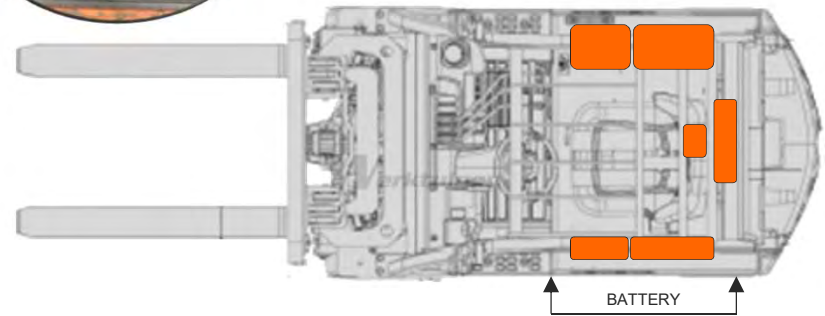
Features

- Protection of critical components
 - Parts within chassis for impact protection
 - Guarded from corrosive battery acid
- Short connection points; not routed through multiple chassis cut-outs.
- Technicians are not exposed to battery acid during service.

Competitor



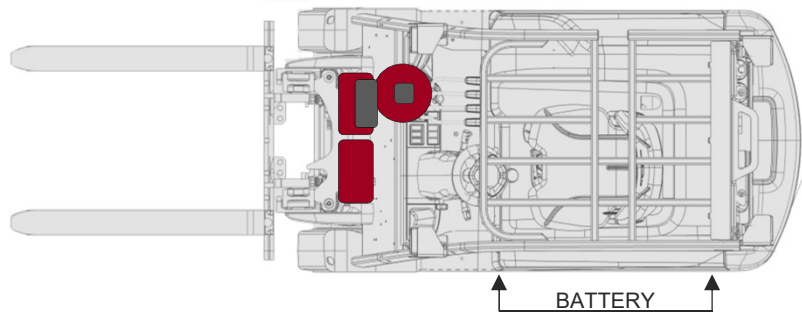
Mounted under the battery
 Electrical power modules
 Cooling fans
 Pump / pump motor
 Electronic stability system (SAS)



Mounted in forward compartment

Electronic power modules
 Cooling fans
 Pump / pump motor

Series 1347

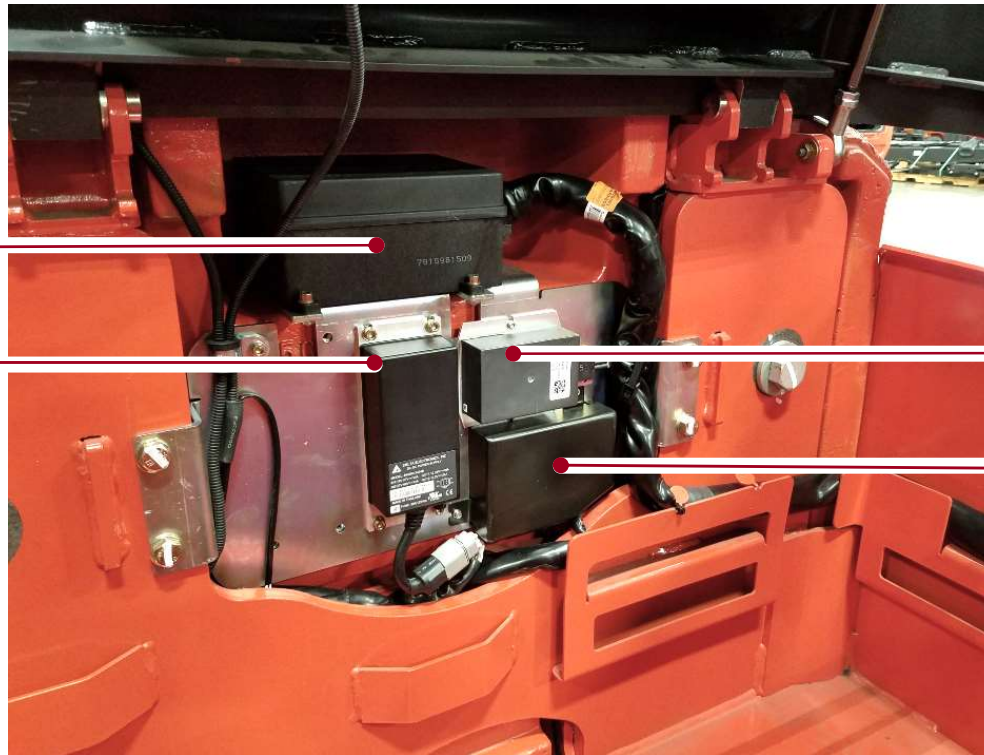


Series 346 & 1347 – Common Features

Component locations

 Fuse box

 DC/DC
converter



 DC/DC
converter

 Charging
circuit

Series 346 & 1347 – Common Features


Emergency power disconnection



Features

- Easy and fast to operate during an emergency
- **Keeps eyes ahead**
- Keeps left hand on steering wheel



 **Difficult to find during emergency**



Series 346 & 1347 – Common Features

Curve Assist

- Standard equipment on Series 1347
- **Electronically-controlled reduction of speed while turning**
- Safer and more efficient operation with a **secure drive feeling**
- Reduced energy consumption and reduced tire wear
- Electronic differential control for stable traction in slippery conditions



Series 346 & 1347 – Common Features

Mast enhancements

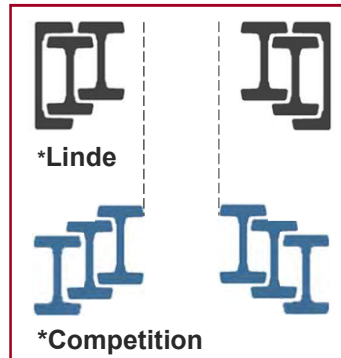


Linde Material Handling



Features

- Narrow rail configuration for increased viewing window
- Deep channel profile for high strength
- C-channel and interlocking I-beam for maximum strength
- Same mast across all capacities



Series 346 & 1347 – Common Features

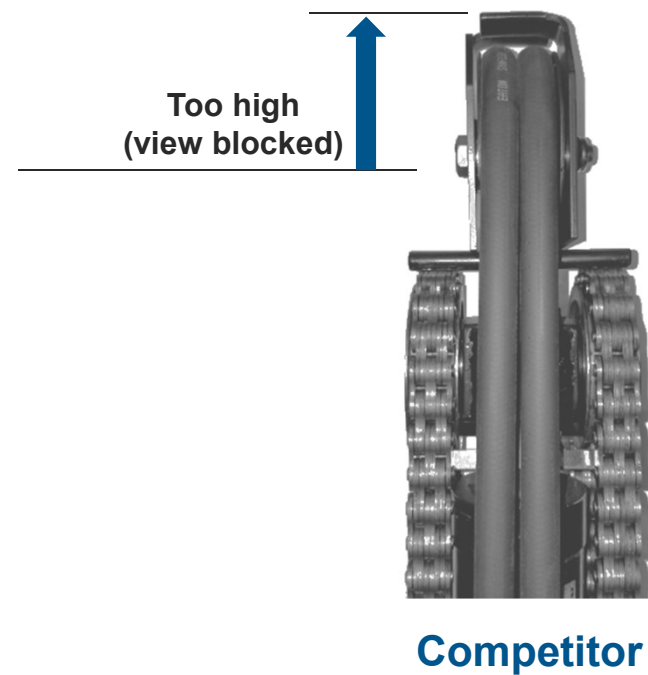
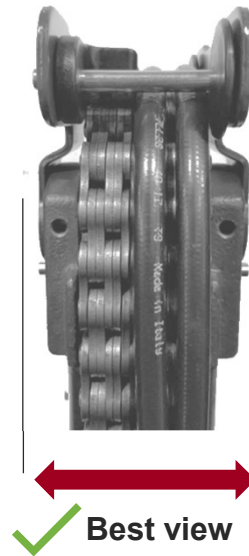
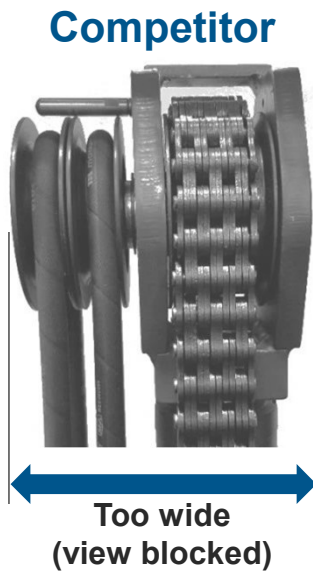
Auxiliary hose routing



Linde Material Handling



- Hoses-over-chains configuration for auxiliary functions
- Single hose lines for individual replacement
- **BEST VISIBILITY**



Series 346 & 1347 – Common Features

Auxiliary hose lines

Features

- Single or double auxiliary functions
- Hose routing without large, metal guides
- Segmented design for easy replacement
- High-visibility concept
- Fast replacement of carriage-side hoses

