

**CESAB**

**ZERO**  
emissions

# CESAB B300-B400 Series

Electric forklift trucks 48V







# 100% performance, 0% emissions

CESAB'S new 48-volt electric forklift trucks push boundaries in performance, energy efficiency, stability, and security. With high performance and maximum manoeuvrability guaranteed, optional Li-ion technology allows opportunity charging during breaks, extending productivity well beyond a typical 8-hour shift.

## All new design

Small on the outside and spacious on the inside, the new CESAB 48V-series offers everything a driver needs. High performance is complemented by a compact design, including a shorter chassis and smaller steering tyres. This means the CESAB B300 and CESAB B400 offer exceptional manoeuvrability, even in the narrowest of spaces.

## Meeting all your needs

- Available in 3- and 4-wheel models
- 1500 kg - 2000 kg rated capacity
- Compact for better manoeuvrability, or long wheelbase for extended autonomy and performance
- ISD (Intelligent Safety Design) active safety system
- IMD (Intelligent Mast Design) for superior visibility and durability
- Superior 360° all-round visibility
- Multi-function display, with all information at a glance
- Low noise and vibration levels give greater driver comfort
- New ergonomic armrest with redesigned hydraulic commands



ISD – Active Security System



IMD – Leading Mast Technology







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# Comfort equals productivity

## Ergonomic design for effortless operation

Each part of the driver compartment has been developed with the operator in mind. From low, deep open steps to a fully adjustable driver compartment.



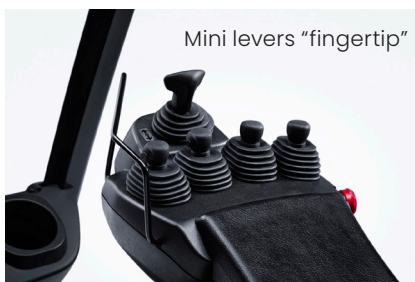
Featuring a completely new spacious cabin, the CESAB B300 and CESAB B400 bring superior operator comfort. And that means reduced fatigue and higher productivity.

Noise and vibration levels have been reduced significantly, while the standard armrest places the controls within intuitive reach of the operator. A roomy new cockpit assures excellent all-round visibility when manoeuvring and loading and unloading.

The CESAB B300 and B400 come with an ergonomic suspension seat as standard. The pedals are all mounted at equal height from the floor for easier operation, and excellent comfort and safety.

### Multiple choice

Operators can choose between three different hydraulic commands, perfectly integrated in a totally redesigned fully adjustable armrest. These include the standard separated mini levers. Double function joysticks offer a second option, while option three is a single multi-function joystick that combines all functions in one handle.







# CESAB B300 & B400

## Safety first!

CESAB's specialist team of engineers and designers invented the key to safe and productive material handling with **Intelligent Mast Design** and **Intelligent Stability Design**.

### Intelligent Mast Design

Two off-centre full free lift cylinders provide excellent operator visibility, allowing fast and accurate stacking and loading and unloading operations. The hoses for the 3rd and 4th functions are integrated into the mast to further optimise visibility and provide protection for the hoses.



The ISD mast is manufactured in an optimised welding process. This results in higher performance in terms of both longevity, thanks to less stress and wear on the mast, and durability, by protecting against damage caused by overload. The shock-less landing feature, standard on the duplex full free lift masts, offer an hydraulic braking effect at the end of lifting and lowering for smoother operations and greater comfort for the driver.

### Intelligent Stability Design – the driver's guardian angel

Intelligent Stability Design monitors several truck parameters, allowing operators to achieve optimum performance, productivity and safety.



#### Front tilt angle control

ISD restricts the forward tilt appropriately against the weight of the load and lift height



#### Rear tilt speed control

This restricts the rear tilt speed in line with lift height



#### Automatic 0° tilt

A button on the tilt lever allows the operator to easily position the mast in a perfect vertical position



#### Key-Lift interlock

This locks all hydraulic functions when the key is switched off and prevents unintentional mast and load movements



#### Rear axle stabiliser

Depending on speed and steering angle, the rear axle pivot of the 4-wheel B400 can be locked for optimum lateral stability



#### Steering wheel synchronisation

This keeps the steering knob in the same spot, to show the exact position of the steering wheel at start up



# Non-stop availability

## Zero emissions around the clock



With CESAB 48V models, zero emission no longer means compromised performance. Even 24/7 material handling operations can enjoy significantly lower energy costs.

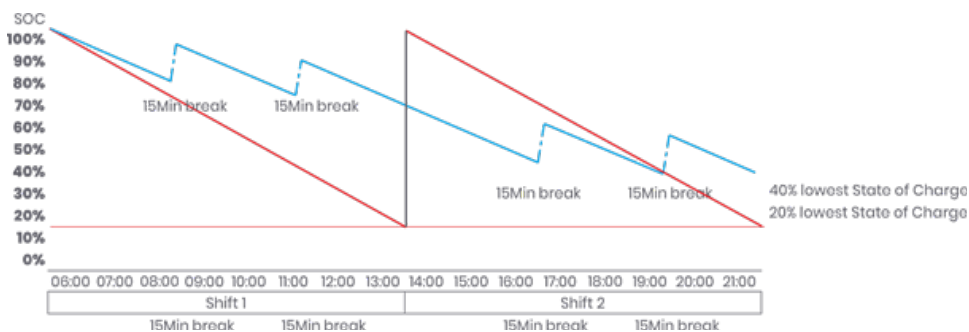


- **Li-ION opportunity charging**

Optional Li-ION technology from CESAB gives operators the chance to opportunity charge the CESAB B300 and B400 during coffee and lunch breaks. Charging is simple with a quick, plug-in, automotive style charging connector.

The Li-ION charging port is mounted on the side panel for effortless connection.

The diagram below shows a lead-acid battery (in red) with a battery swap between shifts. The Li-ION battery is topped up at each break. A 15-minute break can add up to 25% capacity, generating enough power to last through the day. This illustration shows that opportunity charging can prevent the need for a second battery, and in many cases allow for the use of a smaller battery.



- **Quick battery changes**

For applications where lead-acid batteries are in use, the battery can be swapped in minutes, thanks to optional sideways battery extraction.

The battery can be easily pulled out with a second forklift or crane.

Special optional battery stands are available for easy handling and placement of the battery near the charger while not in use.





# Maximise your potential

The new CESAB B300 and B400 are designed and developed to compete in demanding settings. Not only in terms of performance, but also on driver safety and ease of use.

CESAB 48V models offer several features that help operators to accomplish tasks quickly and safely:



- **Optimised corner control (B300 models)**

Optimised corner control automatically adjusts drive speed by constantly measuring the steering angle. The higher the steering angle, the more speed is lowered. Once out of a corner, the speed automatically increases in line with the reduction in steering angle.

This helps corners to be approached quickly, while assuring the safety of operator and load.

- **Active rear axle stabiliser (B400 models)**

This stabiliser reduces risks during cornering without compromising productivity. If the truck becomes unstable during a turn, the patented swing lock cylinder automatically locks the rear axle to increase truck stability. This reduces the risk of a sideways tip-over. Faster than the most experienced driver, this provides excellent stability and helps to protect operators and load.

- **Automatic parking brake**

The parking brake applies automatically when the truck is at stand still. It disengages immediately when the driver chooses a drive direction or presses the accelerator pedal. This assists on ramps or slopes by ensuring that the truck does not roll back when the accelerator pedal is not in use.

A button integrated in the display allows the driver to also apply the brake manually.



- **Enhanced 360° visibility**

The fastest truck cannot perform if the operator's view is hindered. Improvements across this CESAB range give the driver an even better view of the load and working environment:

- IMD masts with two offset free lift cylinders offer a large viewing window
- An optimised position for the streamlined cross bars improves visibility, especially at lorry bed height
- Thin bar-type roof with angled front bar for easy stacking at height
- Dark grey coloured roof and pillars allow a better perception of the work environment



# Design your CESAB B300 or B400

We believe that these CESAB trucks are not only the best 48V electric forklifts on the market, but also the most adaptable. Our multiple options meet the needs of most applications.



D2 Pedal arrangement



Double Pedal arrangement

## Multiple pedal arrangements (option)

Besides standard automotive style pedals, two other arrangements can be specified. A D2 version with directional change on the accelerator or a double pedal version, as shown on the left.

## Rear grip with horn button (option)

Operators drive backwards for a great part of their time. This rear grip offers better ergonomics and greater safety.

Mounted on the right rear leg of the overhead guard, the rear grip gives the driver a better hold. A button for the horn allows the operator to warn pedestrians or other trucks of the truck's presence.



## Let there be lights

The CESAB B300 and B400 can be equipped with a range of different optional light kits to enhance visibility:

- LED front and rear combination lights
- LED head lights
- Single or double rear LED working lights
- Additional LED lights on the mast (at driver eye height)
- Blue LED warning lights in front or on the back
- Orange flashing or rotating beacon

## Weather protection

Different weather protection options are available for outdoor use:

- Protection for the top of the overhead guard
- Front windshield and roof protection
- Cabin without doors or with foldable canvas doors
- Complete steel cabin

There are several additional enhancements available, including an integrated heater, DAB radio or Grammer MSG75 seat with pneumatic suspension, and fabric or vinyl covering.







# CESAB B300 & B400 forklift trucks

## the complete package

CESAB's commitment to creating superior products is matched by its drive to deliver unrivalled service and support. Every CESAB customer benefits from a nationwide network of local dealerships.

**Your local CESAB dealer provides a personalised, local service tailored to the specific requirements of your business.**

They will advise on the best choice of equipment to meet your materials handling needs, and on the many options for tailoring your forklift to the unique demands of your working environment.

**Buying a CESAB 48V forklift is only the beginning of the support from your nearest dealer, with experienced and fully qualified service engineers only a local call away.**

The on-board diagnostics system and easy access design of the 48V range makes servicing quick and easy.



**Our service engineers carry all major service parts in their vans, ensuring minimal disruption to your business.**

At CESAB we believe we offer our customers a complete package of the best equipment and the best support. To experience it for yourself call your local CESAB dealership today.

# CESAB B300 & B400 forklift trucks

## A complete range

**ZERO**  
emissions

**CESAB B300**  
48V-3-Wheel



MODEL		B315	B316	B316L	B318	B318L	B320
Nominal Capacity	kg	1500	1600	1600	1800	1800	2000
Load Centre	mm	500	500	500	600	500	500
Available Mast Types		Duplex with standard free lift, Duplex with full free lift, Triplex with full free lift - centred free lift cylinder Duplex with standard free lift, Duplex with full free lift (IMD), Triplex with full free lift (IMD) - wide view, offset free lift cylinders					
Max. Lift Height	mm	7500	7500	7500	7500	7500	7500
Travel Speed (Standard) with/without load	km/h	16,0/16,0	16,0/16,0	16,0/16,0	16,0/16,0	16,0/16,0	16,0/16,0
Lifting Speed (Standard) with/without load	m/s	0,44/0,61	0,43/0,61	0,43/0,61	0,42/0,61	0,42/0,61	0,38/0,54
Lowering Speed with/without load	m/s	0,55/0,53	0,55/0,53	0,55/0,53	0,55/0,53	0,55/0,53	0,55/0,53
Turning Radius	mm	1455	1563	1671	1563	1671	1671
Drive Motor	KW	6,0 x 2	6,0 x 2	6,0 x 2	6,0 x 2	6,0 x 2	6,0 x 2
Lift Motor	KW	11,7	11,7	11,7	11,7	11,7	11,7

**CESAB B400**  
48V-4-Wheel



MODEL		B416	B416L	B418L	B420	B420L
Nominal Capacity	kg	1600	1600	1800	2000	2000
Load Centre	mm	500	500	500	600	500
Available Mast Types		Duplex with standard free lift, Duplex with full free lift, Triplex with full free lift - centred free lift cylinder Duplex with standard free lift, Duplex with full free lift (IMD), Triplex with full free lift (IMD) - wide view, offset free lift cylinders				
Max. Lift Height	mm	7500	7500	7500	7500	7500
Travel Speed (Standard) with/without load	km/h	20,0/20,0	20,0/20,0	20,0/20,0	20,0/20,0	20,0/20,0
Lifting Speed (Standard) with/without load	m/s	0,43/0,61	0,43/0,61	0,42/0,61	0,38/0,54	0,38/0,54
Lowering Speed with/without load	m/s	0,55/0,53	0,55/0,53	0,55/0,53	0,55/0,53	0,55/0,53
Turning Radius	mm	1707	1811	1811	1737	1811
Drive Motor	KW	6,0 x 2	6,0 x 2	6,0 x 2	6,0 x 2	6,0 x 2
Lift Motor	KW	11,7	11,7	11,7	11,7	11,7







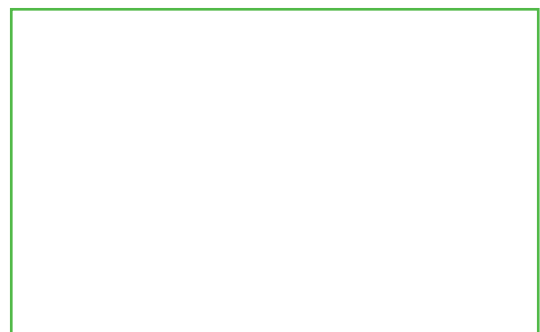


[www.cesab-forklifts.eu](http://www.cesab-forklifts.eu)



CESAB Europe renewed its entire electric counterbalance range in 2022

Your authorised CESAB dealer



Pictures may show optional equipment or accessories not included in the standard execution of the truck

The data in this document was determined based on our standard testing condition.

Operating performance may vary depending on the actual specification and condition of the truck as well as the condition of the operating area.

Availability and specifications are determined regionally and are subject to change without notice. Please consult your authorised CESAB dealership for further details.  
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