



CESAB

B300-B400 Series

Electric Forklift Trucks 48V



100% performance, 0% emissions

The new 48 Volt CESAB electric forklift trucks push the boundaries in performance, energy economy, stability, and security. With high performances and maximum manoeuvrability, the optional Li-ion technology allows opportunity charging during brakes, extending the autonomy beyond the typical 8-hour shifts.

All new design

Small on the outside, but spacious on the inside, the new CESAB 48V-Series offers everything a driver can wish. High performances are complemented by a compact design which, thanks to a shorter chassis and smaller steering tyres, means the CESAB B300 and CESAB B400 offer exceptional manoeuvrability even in narrow spaces

Meeting all your needs

- Available in 3- and 4-wheel versions
- From 1500 kg to 2000 kg rated capacity
- ISD, Intelligent Safety Design, active safety system
- IMD, Intelligent Mast Design for superior visibility and durability
- Superior, 360° all-round visibility
- Multi-function display, all relevant information at a glance
- Low noise and vibration levels for better driver comfort
- New ergonomic armrest with redesigned hydraulic commands

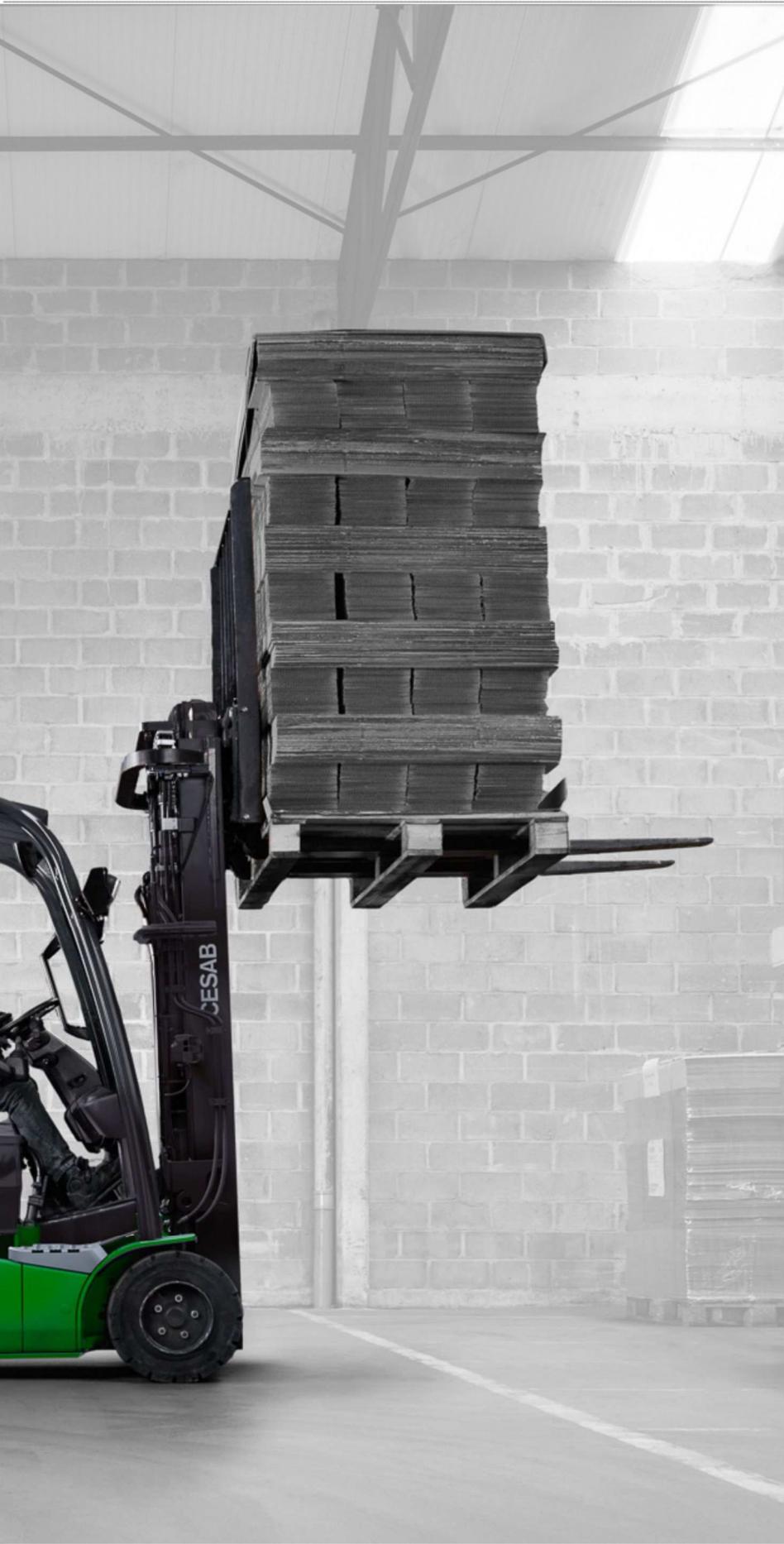


ISD – Active Security System



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 and deep open steps to a fully adjustable driver compartment.



With a completely new spacious cabin design the CESAB B300 and CESAB B400 offer increased operator comfort. Increased comfort for the operator helps to reduce fatigue, improving productivity.

Noise and vibration have been reduced, while the standard armrest places the controls within intuitive reach of the operator as well as achieving excellent all-round visibility both while manoeuvring and loading and unloading.

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

Multiple choice

Your driver can choose between three different hydraulic commands, perfectly integrated in the totally redesigned fully adjustable armrest. The standard, separated, mini levers. Optional: Two, double function joysticks or the single multi-function joystick that combines all possible functions in one single handle.



CESAB B300 & B400, higher levels

Industry leading mast technology

Our team of CESAB specialists, engineers and designers have found the keys to safe and productive material handling by inventing **IMD, Intelligent Mast Design** and **ISD, Intelligent Stability design**.

Intelligent Mast design – The mast masters

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



The ISD mast is manufactured using an optimised welding process. This results in higher performance in terms of both longevity (less stress and wear on the mast), and durability (greater protection against damage due to overload). The hydraulic braking effect at lifting and lowering end stroke assures smoother operations and more comfort for the driver.

Intelligent Stability Design – Maximum safety as standard

The intelligent Stability Design system monitors several truck parameters, allowing the driver to achieve optimum performance and productivity with maximum safety.



Front tilt angle control – Depending on the weight of the load and the lift height, restricts the forward tilt if needed



Automatic 0° tilt – A button on the tilt lever allows the driver to easily position the mast in a perfect vertical position



Rear axle stabiliser – Depending on the speed and the steering angle, the rear axle pivot can be locked to assure lateral stability



Rear tilt speed control – Restricts the rear tilt speed depending on the lift height



Key-lift interlock – This locks all the hydraulic functions when the key is switched of



Steering wheel synchronisation – Assures that the steering knob always is at the same spot, and shows the exact position of the steering wheels at start up

Non-stop availability



Zero emissions around the clock

With the CESAB 48V models, achieving zero emission no longer requires compromising on performance. Even 24/7 material handling operations can enjoy the significantly lower energy costs with our electric CESAB B3/400 trucks.

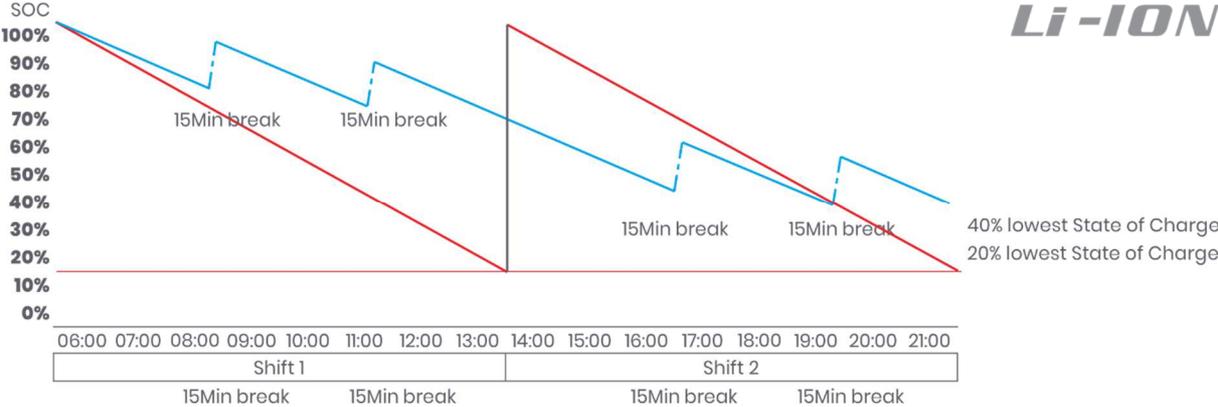
- **Li-ION opportunity charging**

With the option of the latest Li-ION technology from CESAB, trucks can be opportunity charged while the operators enjoy their coffee or lunch break. Charging is as simple as plugging in the automotive style charging connector.



The Li-ION charging port is mounted on the side panel so connecting is effortless!

Below diagram 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, enough power to come through the day. This illustration shows that opportunity charging can prevent the need of a second battery, and in many cases allows a smaller battery to be used.



- **Quick battery changes**



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

The battery can be easily pulled out with a second forklift or a 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 were designed and developed to compete in demanding applications but not only in performance, driver safety and ease of use was a priority too

The CESAB 48V models offers several features that help the driver to accomplish his tasks fast and with maximum safety:

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



Optimised corner control automatically adjusts drive speed by constantly measuring the steering angle. The higher the steering angle, the more the 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 model)**

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 the truck's 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 the load.

- **Automatic park brake**

The parking braking brake applies automatically once the truck is at stand still. It disengages immediately when the driver choses a drive direction and hits the accelerator pedal. This is a great help on ramps or slopes as the truck doesn't roll back when the accelerator isn't pressed.

With a button, integrated in the display the driver can apply the brake manually



- **Enhanced 360° visibility**

The fastest truck cannot perform if the view of its operator is hindered. During the development several points were improved to give the driver an optimal view on the load and his working environment:

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



Design your CESAB B300 or B400

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



Multiple pedal arrangements (option)

Besides the standard automotive style pedals, two more optional arrangements can be ordered. The D2 version with the directional change on the accelerator or the double pedal version as shown on the right.



Rear grip with horn button (option)

A truck driver has to drive backwards a great part of his time. For better ergonomics and more safety this rear grip is available.

Mounted on the right rear leg of the overhead guard, it offers better hold for the driver. The horn button, allows him to warn pedestrians or other trucks of him arriving.

Let there be lights

The CESAB B300 and B400 can be equipped with many 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's eye height)
- Blue LED warning lights in front or on the back
- Orange flashing or rotating beacon



Weather protection

In case your B300 or R400 is used outside, different weather protection options are available.

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

There are several additional enhancements available like an integrated heater, a DAB radio or a Grammer MSG75 seat with pneumatic suspension, fabric or vinyl covered.



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

imd
Intelligent Mast Design

IMD – Leading Mast Technology

isd
Intelligent Stability Design

ISD – Active Security System





CESAB Europe renewed its entire electric counterbalance range in 2022

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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Your authorised CESAB dealer

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