CESAB R100 1.2 - 1.6 tonne

Reach Trucks

Clever functionality

The CESAB R100 is a highly practical truck with clever ergonomic design to suit your needs.

Form follows function - the CESAB R100 is a practical easy to operate reach truck which is designed to deliver high manoeuvrability, reliability and safety to materials handling operations.

The CESAB R100 range comprises three models to add to CESAB's growing range. The CESAB R112 with 1200 kg load capacity and lift heights of up to 7000 mm, the CESAB R114 with a load capability of 1400 kg and a lift height that extends to 8500 mm, while the CESAB R116 model provides an increased load capability of 1600 kg and lift heights of up to 8500 mm.

A range of masts including two stage telescopic Duplex masts and full free lift Triplex masts and a choice between 180° and 360° electronic steering allows you to specify a CESAB R100 to suit your needs exactly.

The CESAB R100 also makes maximum use of clever ergonomic design. Adjustable floor height, control consoles and seat allow the truck to be tailored to the person behind the controls, because a comfortable operator is a more productive operator. Every CESAB R100 truck is equipped with a PIN code entry system and key performance parameters can easily be tailored and programmed to suit individual operators.

The product of years of planning, testing and manufacturing expertise, whichever model you choose, you will receive the services of a tough, durable truck capable of answering the needs of a wide range of materials handling operations. The CESAB R100 range is ready, willing and able to deliver unparalleled levels of reliability, manoeuvrability and safety.

Excellent uptime

Designed and developed for excellent uptime and durability with heavy-duty drive units and gearboxes, brushless motors, sealed electrical units and leak-free hydraulic connectors.

Built using the renowned TPS

Every CESAB R100 is manufactured in a production centre certified to ISO 9001 and 14001 and using TPS*, which is widely regarded as a highly successful manufacturing system.

Reliability means productivity

Thousands of hours of testing combined with TPS* manufacturing ensure that the CESAB R100 truck delivers the reliability you need.

Exceptional reliability starts here.

Closer inspection of a CESAB R100 reveals the close attention to detail that goes into every element of the truck.

The build quality is testimony to the many hours of research, development and testing that goes into every model in the range.

In addition, every truck is manufactured in a production centre certified to ISO 9001 and 14001 and is a direct result of TPS*, which is widely acknowledged as a highly successful manufacturing system. This ensures that quality and durability are built into every aspect of the truck. From brushless motors and sealed electrical units to the leak-free hydraulic connectors, the CESAB R100 range has been designed to keep working day after day.

This attention to detail extends to the use of long-life and maintenance-free components, ensuring that this truck offers excellent uptime. In the unlikely event of a problem, the CESAB R100 will be the first to let the operator know, thanks to its state-of-the-art on-board diagnostics. In addition, easy maintenance access ensures that this truck will be back in operation in the quickest possible time.

* Toyota Production System

“All motors are brushless to increase reliability and reduce maintenance”

Tailored to suit your business.

A combination of a very low step height, easy to grip pillar and foldable steering console makes mounting and dismounting a CESAB R100 as easy as possible.

After settling down in the ergonomically designed seat, adjusting the suspension and position of the seat to create the perfect operating position, the operator will be reassured to know that he is seated safely within the profile of the truck.

To help tailor the CESAB R100 to an operator, a service engineer can easily adjust the height of the floor to suit the operator and to help further increase comfort and productivity.

Unfold the steering wheel console and with a few simple adjustments the operator can set the height, length and angle of the console in order to suit his requirements. The right hand side hydraulics control console can now be arranged so that the mini-levers are positioned at the fingertips for precise control of both forks and mast. Unlike many other reach trucks on the market, both the left hand steering wheel console and right hand control console have a wrist support to reduce fatigue in the arms and facilitate more productive operations.

To keep the operator informed at all times, located directly in front of him is an intuitive information display that communicates important information such as battery discharge level, steering wheel direction, main drive direction, parking brake, servicing, as well as a handy clock.

Seated comfortably, with all controls located within easy reach, the operator is now ready to get to work.

“Full adjustability including the floor height”

Clear information

An intuitive information display keeps the operator informed at all times.

Ergonomic design

Ergonomically designed for easy and comfortable operation. The mini-levers allow quick and easy operation of fork and mast movement.

All-round visibility

The overhead guard with thin cross bars contributes to the excellent all-round visibility, increasing productivity and a safer work environment.

Authorised access and excellent visibility add up to improved safety.

Before the operator can start up a CESAB R100, he'll have to enter a recognised PIN code, because only authorised operators can have access to this range of reach trucks. A secure, yet versatile system, it can be personalised to create individual settings that can be customised for up to 10 different operator profiles with up to 10 different codes for each profile, adding up to a total of 100 unique codes. As well as preventing unauthorised access, it also eliminates the problems caused by stolen, lost or damaged keys.

All round visibility is another reason why the CESAB R100 range is the clear choice for easier and safer operations. A low, unobtrusive front panel combined with a wide open view around and through the mast, provides the operator with an unobstructed view of the forks and load. Overhead the thin crossbars offer protection without blocking the visibility of the operator.

To add to its ease of operation, the CESAB R100 offers a pedal layout similar to that of a car, together with a 'dead-man's' pedal to help keep the operator's foot safely inside the body of the truck. Additionally, to achieve safety, the CESAB R100 features an electromechanical parking brake which is applied automatically in a variety of situations, including when the operator steps off the truck. The electromagnetic and regenerative travel brake can be programmed in terms of brake force for example when releasing the accelerator pedal, which allows you to tailor the brake performance according to requirements in your operations.

By pressing the travel direction selector button in any direction for approximately 1.5 seconds, the truck will enter a creep speed mode and start driving very slowly which makes it very easy to carry out smooth and precise adjustments when positioning the truck, especially when handling fragile loads and when stacking at high lift heights.

Height indication

With the optional height indication the operator is kept informed at all times by the crystal clear display on the control console which indicates the current lift height to help make stacking easier.

Accessories bar

The optional accessories bar is designed for mounting ancillary equipment, such as a PC or keyboard and comes with standard interfaces. A 12/24V power supply is also available.

Sophisticated steering system

The CESAB R100 offers a choice of 180° or 360° steering. Electronic and progressive, it utilises a small spinner-style steering wheel for complete control: quick and responsive at low speed, easy and steady at high speed. Exceptional manoeuvrability is guaranteed. With the 360° steering, the travel direction can be changed in one continuous, effortless movement.

High manoeuvrability and effortless operation built-in.

At the heart of the CESAB R100's driving experience is a powerful AC drive motor. Powerful, yet smooth, it delivers acceleration up to a top speed of 10 km/h, coupled with energy efficient features that reduce the consumption rate and even recycle energy back into the battery when braking or decelerating.

A wide choice of battery capacities (310-620 Ah) to suit the application and sideways battery change can be used to extend the working hours. The CESAB R100 offers you programmable performance, a time-saving feature which puts the operator firmly in control. It is possible to preset the maximum speed, acceleration rate, autobraking power and steering sensitivity, the choice is yours.

The CESAB R100's electronic fork control system ensure that every movement is quick and responsive. The CESAB R100 can be equipped with a choice of 180º or 360º steering system. Electronic and progressive, it utilises a small spinner-style steering wheel for complete control: quick and responsive at low speed, easy and steady at high speed. The 180º steering system can help make it easier to manoeuvre the truck for less experienced reach truck operators. The 360º steering system is designed for faster and more efficient handling for experienced reach truck operators. 360º steering allows the travel direction to be changed in one continuous, effortless movement.

Reliability, programmability, operability and manoeuvrability - everything your business needs for most reach truck applications. To further enhance the CESAB R100, it also has the option of automatic reduction of speed when cornering to help improve safety while maintaining productive operations.

At the end of a productive day, you'll be glad you chose CESAB.

Put a CESAB R100 to work and at the end of the day, you'll be more than satisfied. CESAB has been in the business of supplying trucks to the world's industries for over 70 years. It is this long heritage and our in depth experience of successfully meeting customer requirements that has enabled us to produce a range of trucks to rival any on the market.

"CESAB is continually striving to reduce waste, develop cleaner working operations and improve the recyclability levels of all our products. As a result, the CESAB R100 is highly recyclable. That's forward thinking for you."

Don't take our word for it, try out a CESAB R100 for yourself.

Materials handling operations requiring reliable equipment provided the challenge for the CESAB R100 range and the finished product is more than up to the task.

To find out more, simply contact your local dealership and discover the clever functionality of the CESAB R100 range.

CESAB R112

CESAB R114

CESAB R116

Truck Specifications

Model	CESAB R112	CESAB R114	CESAB R116
Rated capacity [kg]	1200	1400	1600
Max. lift height [mm]	7000	8500	8500
Chassis width [mm]	1270		
Travel speed with/without load [km/h]	10/10		
Lift speed with/without load [m/s]	0.31/0.43	0.30/0.43	0.28/0.43
Lowering speed with/without load [m/s]	0.49/0.52	0.51/0.52	0.52/0.52
Battery capacity 48V [Ah]	310 – 465	465 – 620	620
Drive motor power [kW]	5		
Lift motor power [kW]	10		

The figures written in this brochure are determined based on our standard testing conditions.
The figures may vary depending on the specification and condition of the forklift as well as the nature and condition of the operating area.
Images in this brochure may include optional equipment. Availability and exact specifications may vary depending on region.

The data in this brochure was determined based on our standard testing conditions. 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. BR_R100_EN_2014 / P &B R100 V9 – Copyright CESAB Material Handling Europe.

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