

# CESAB M300 1.5 – 3.5 tonne

Engine Powered Forklift



Put it to the test



**CESAB**



## Just walk up to a new CESAB M300 truck and you'll notice the difference.



- *Load capacities from 1.5 to 3.5 tonnes*
- *Robust metal side panels for durability*
- *Manufactured using the renowned TPS\**

\* Toyota Production System

You'll see instantly that a CESAB M300 is a quality truck.

The superb build quality of every truck is confirmed by the rigid steel side panels and perfectly formed bodywork, designed to help protect not only the operator but also your investment over its entire working life.

From 1.5 to 3.5 tonnes, every truck has been manufactured using TPS (Toyota Production System), certified to ISO 14001 and widely acknowledged as one of the most successful manufacturing systems in the world.

The CESAB M300 range has been built to deal with the rigours and knocks of everyday working life. Strong, tough and reliable - a CESAB M300 is always up to the task.



## A functional truck that gets the job done

Form follows function. No unnecessary extras – it's a practical truck that will get the job done for years to come.

## Built to last

Quality from TPS (Toyota Production System), widely regarded as one of the world's best manufacturing systems.

## You can rely on CESAB

Thousands of hours of testing have built reliability into every single part of the CESAB M300.



## Step aboard and take a seat.

Easy access is provided by the CESAB M300's low height and wide step. Once aboard, the large floor area gives both a feeling of space and provides you with plenty of room to operate.

Sit down and you'll discover how the cushioned seat with lumbar support offers excellent comfort for operators of all sizes.

In fact, ergonomics is at the very heart of a CESAB M300's design, it enables every operator to make the most of the working day, while it helps to reduce fatigue and physical strain.

The pedal layout is similar to that of a car, while a low dashboard houses the multi-

function digital display which delivers essential information such as speed, operating temperature, parking brake and error warnings.

A choice of electronic mini-levers or joystick levers provide you with simple, easy-to-use controls and are located exactly where you want them to be - at your fingertips.

Familiar with the controls? Now it's time to put a CESAB M300 through its paces.

Adjust the telescopic steering wheel to suit your best driving position, fasten the seat belt and you're ready to start work.

- *Easy access from low height and wide step*
- *Ergonomic design helps reduce operator fatigue and physical strain*
- *Automotive pedal layout with adjustable telescopic steering wheel*



## Turn the key and start up the engine.

- *Powerful and reliable Toyota power units*
- *Clean burning engines with electronic fuel injection*
- *Choice of LPG and diesel power units*

The CESAB M300 is powered by one of the most reliable engines in the world, a Toyota power unit that has been proven through years of testing and thousands of hours of working life.

These dependable, clean burning engines complete with electronic fuel injection are some of the most efficient on the market.

To ensure that they keep working during even the most arduous of schedules, engines are fitted with a high-speed rotation fan to increase air flow, hydraulic oil cooler and optional plate fin radiator.

There's no need to shout about the choice of engines either. Both the LPG and diesel engines have been designed to be as quiet as possible, while producing the minimum of vibration.

Whichever model you choose, you can be sure it will provide you with excellent service and a long, productive working life.



### Powered by Toyota

A tried and tested Toyota power unit with LPG and diesel options. From the smooth power transition to clean burn efficiency, the CESAB M300 delivers high performance responsibly.



### At home whatever the environment

A reliable workhorse that not only functions in extreme conditions but can be tailored to your industry.



### Easy to drive

Ergonomically designed from seat to steering wheel, with easy, accessible controls.



### Safety without compromising productivity

Designed to help protect your operators and their colleagues, not to mention the value of your investment.

## It's time to get to work.

They're hard working, but not hard to drive.

The compact steering wheel allows you to manoeuvre easily and effortlessly, while the low centre of gravity aids stability as you make your way around the workplace.

The smooth transition of power from engine to wheels comes courtesy of a torque converter transmission, a clever feature that gives you more speed and better performance over long distances.

Special attention has been paid to the CESAB M300's all-round visibility. From the top of the mast to the tips of the forks, they have been designed to offer excellent vision for operators, whether loading, stacking or reversing.

Within easy reach is a choice of traditional hydraulic controls, electronic mini-levers or joystick levers, providing instant, yet sensitive control over both heavy and light objects.

Now pick up a pallet, box or container, carry it smoothly to where you want it to go and stack it with ease.

Repeat this many thousands of times and you have an idea of a CESAB M300's capabilities.

- *Designed to offer excellent all round visibility*
- *Torque converter provides smooth power transmission*
- *Choice of traditional hydraulic controls, electronic mini-levers or joystick levers*



### Superior visibility

Two full free lift (FFL) cylinders provide excellent operator visibility, allowing fast and accurate stacking operations as well as loading and unloading. The 3<sup>rd</sup> and 4<sup>th</sup> ways are integrated into the mast to further optimise visibility as well as providing protection to the hoses.



### High strength, higher performance

The 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).



### Reduced noise and vibration, more comfort

A hydraulic brake effect at lifting and lowering end stroke makes for smoother operation. This contributes to stability and a more comfortable working environment. Two FFL cylinders reduce vibration compared to single cylinder designs.

## Industry leading mast technology.

- *Industry leading visibility*
- *Strength and performance combined*
- *Reduced noise and vibration*
- *Lower maintenance*

Mast development is an integral part of the CESAB design process and we work in close partnership with specialist mast designers at our mast factory. The CESAB M300 equipped with Intelligent Mast Design (IMD) offers industry leading levels of visibility providing enhanced productivity and durability in the process.

But IMD is not just about better visibility, a patented 'Double C' mast profile is exclusive to the CESAB range and delivers strength and stiffness. The direct benefits to your business are better productivity through reduced cycle times and great durability thanks to the mast strength.

Machined mast profiles have less play, meaning less wasted energy and less wear and tear, and also allow for the use of 'maintenance free' bearings contributing to the lower lifetime costs.

By creating short mast profiles the CESAB M300 is shorter in length and utilises a lighter counterweight for reduced truck weight.

Adjustable rollers pads allow for quick and easy maintenance, improving uptime and reducing maintenance costs.



CESAB M315 - M318



CESAB M320 - M325



CESAB M330 - M335

## Truck Specifications

Model	CESAB M315		CESAB M318		CESAB M320		CESAB M325		CESAB M330		CESAB M335	
Fuel	LPG	DIESEL	LPG	DIESEL	LPG	DIESEL	LPG	DIESEL	LPG	DIESEL	LPG	DIESEL
Engine model	Toyota 4Y-ECS	Toyota 1DZ-III	Toyota 4Y-ECS	Toyota 1DZ-III	Toyota 4Y-ECS	Toyota 1DZ-III	Toyota 4Y-ECS	Toyota 1DZ-III	Toyota 4Y-ECS	Toyota 1DZ-III	Toyota 4Y-ECS	Toyota 1DZ-III
Load capacity (kg)	1500		1750		2000		2500		3000		3500	
Load center (mm)	500		500		500		500		500		500	
Standard lift height (mm) [h3]	3170		3170		3170		3170		3170		3170	
Travel speed with/without load (Km/h)	18,5/19	18/18,5	18,5/19	18/18,5	17,5/18	17/17,5	17,5/18	17/17,5	18,5/19	16/16,5	19/19,5	16,5/17
Lifting speed with/without load (m/s)	0,67/0,68	0,65/0,68	0,67/0,68	0,65/0,68	0,60/0,64	0,56/0,60	0,60/0,64	0,56/0,60	0,51/0,55	0,44/0,47	0,43/0,45	0,37/0,40
Turning radius (mm) [Wa]	2074		2074		2294		2352		2452		2520	

## Engine Specifications

Model	LPG Toyota 4Y-ECS	LPG Toyota 4Y-ECS	DIESEL Toyota 1DZ-III
Truck model	M315-M318-M320-M325		M330-M335
Cylinders / Cubic capacity (cc)	4/2237		4/2486
Rated power (kW/RPM)	38/2570		36/2400
Rated torque (Nm/RPM)	160/2100		150/2000

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.



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 authorized CESAB dealership for further details. BR\_M300\_EN\_2014 / P&B M300 V15 - Copyright CESAB Material Handling Europe.

