

CESAB M300V/M300H 1.5 – 3.5 tonne

Stage V Engine Powered Forklift



Powerful and precise with low emissions



Built to last

With a robust metal frame and body panels the M300 range is designed to withstand the rigours and knocks of everyday working life.

Excellent visibility in all directions

Industry leading mast visibility is complemented by an overhead guard that allows an excellent range of vision without compromising protection. The standard rear lighting assembly increases truck visibility for safer operation day or night.

Better maneuverability with more control.

The hydrostatic transmission of the M300H offers constant torque at all engine speeds, allowing quick and accurate approach of the load. Torque converter models benefit from an inching pedal that provides excellent control of movements when approaching loads.



Powerful Stage V compliant Toyota engines.



Improves workplace safety, increases productivity.



Delivers industry leading levels of visibility and durability



Power and control to suit your application

- Load capacities from 1.5 to 3.5 tonnes
- Choice of hydrostatic or torque converter transmission
- Stage V Toyota engines designed specifically for forklift applications
- Intelligent Mast Design with class leading forward visibility

CESAB's flagship M300 range goes from strength to strength with the introduction of powerful Stage V engines, delivering high performance with lower emissions and up to 20% lower fuel consumption.

Whether you choose torque converter or hydrostatic transmission, the CESAB M300 is available in a range of lift capacities from 1.5 to 3.5 tonnes.

The hydrostatic transmission of the CESAB M300H range delivers independent lift and drive functionality to provide the operator with complete control along with smooth, unwavering power delivery.

The CESAB M300 range is powered by a choice of clean burning,

Stage V compliant Toyota LPG or Diesel engines, specifically designed for forklift applications.

Every truck in the CESAB M300 range benefits from CESAB's Intelligent Mast Design (IMD). Thanks to a patented mast profile, IMD provides industry leading forward visibility along with superior strength and reliability. This results in faster and more accurate loading and a positive impact on your bottom line.

The CESAB M300 range also benefits from Intelligent Stability Design (ISD), a package of active, innovative features created to help improve workplace safety and increase productivity.

Lower emissions, lower fuel consumption

The CESAB M300 range is engineered to perform through its superior ergonomics and smarter design.

A low step height, large assist grip and wide foot space allow easy access to the operator's compartment. Onboard, the M300 is available with a choice of mechanical or electronic controls, while the M300H offers mini-lever controls or the option of mini-joysticks.

For CESAB's engineers operator comfort extends beyond the controls. Fully floating engine mounts result in less vibration and reduced operator fatigue, ensuring your materials handling operation is as safe and productive at the end of each shift as

it is at the start.

To help prevent overloading which may lead to accidents the M300's multi-function display indicates the weight of the load and an overload alarm sounds when a preset limit is exceeded. In addition the M300 can be programmed* with a maximum speed which ensures the operator stays within the pre-set limit and helping to improve site safety.

These superior ergonomics and smarter design are complemented by CESAB's build quality and reliability. Manufactured using the renowned TPS** you can rely on the CESAB M300 range today, tomorrow and for years to come.

- Speed limiter helps improve site safety
- Load weight indicator and alarm helps prevent overloading
- Intelligent Stability Design improves safety and productivity
- Manufactured using the renowned TPS**

* Excludes M315 and M318 diesel models

** Toyota Production System



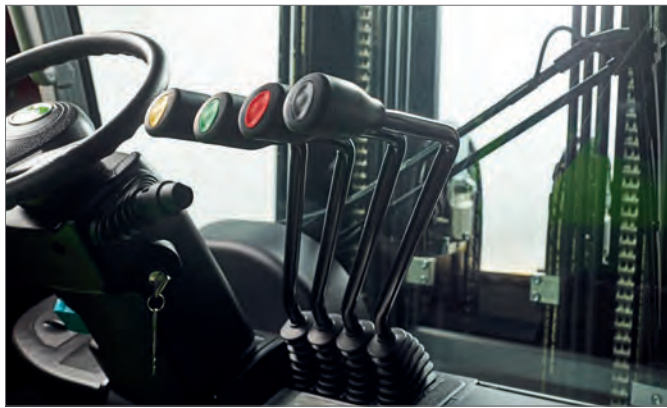
Fully floating Toyota engine reduces vibration

The CESAB M300 range is available with a choice of clean burning LPG or diesel Toyota engines. Fully floating engine mounts reduce vibration for greater comfort and reduced operator fatigue.



Productivity without compromising safety

Intelligent Stability Design actively monitors key parameters to help prevent lost loads and accidents, while Intelligent Mast Design provides industry leading levels of forward mast visibility.



Your choice of operator controls

With a choice of mechanical or electronic controls on the M300 range, and a choice of mini-levers or optional mini-joysticks on the M300H, you can tailor your truck to suit the experience and preference of your operators.



Tailored local dealer service support

CESAB customers benefit from the tailored, personal service of a local dealership backed up by the support of a leading European manufacturer.



Cleaner engines with up to 20% lower fuel consumption

stage
low
emissions
technology

The low emission IZS diesel engine delivers outstanding economies of operation, with fuel consumption reduced by up to 20%. This compact three-cylinder engine, offering extended 1000 hours service intervals, is designed to eliminate vibrations and features chain driven distribution and an electronically controlled common rail fuel system.



Auto regeneration

The M300 eliminates many of the issues connected with diesel particulate filters, such as the need for frequent servicing and downtime as the diesel particle filter auto-regenerates every 250 hours during the normal work cycle.

Water cleaning

Simple, water-only cleaning of the filter is required only once every 6000 hours, via the easy access filter. This can be removed in under five minutes thanks to an innovative counterweight design.





CESAB believe that the mast is key to safe and productive materials handling and has brought together a team of specialist engineers, designers and production specialists to create Intelligent Mast Design (IMD). The result is industry levels of visibility and durability that translate into a safer, more productive forklift.



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 3rd and 4th 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 safety



Around a quarter of forklift accidents are caused by sideways tip over. CESAB's Intelligent Stability Design (ISD) actively monitors key parameters of the truck's performance to pre-empt accidents such as these and take corrective action.

Swing Lock Cylinder

If the ISD system detects instability during a turn the patented Swing Lock Cylinder locks the rear axle to reduce the chance of tip over.

Fork Levelling Control*

With CESAB's ISD, levelling the forks is as easy as pushing a button. This results in quicker and safer operation even when the forks are at height.

Mast Tilt and Speed Controls

Mast load and speed are constantly monitored during forward and rear tilting to prevent injury to the operator and lost loads.

Active Steering Synchronisation

ISD eliminates hydraulic steering slippage. The steering wheel is always aligned with the rear wheels, so the operator knows which direction the truck will move.

CESAB M300 Stage V Torque Converter Range



CESAB M315 - M318



CESAB M320 - M325



CESAB M330 - M335

CESAB M300H Stage V Hydrostatic Range



CESAB M315H - M318H



CESAB M320H - M325H



CESAB M330H - M335H

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	4Y-ECS (V) 1DZ-III (V)		4Y-ECS (V) 1DZ-III (V)		4Y-ECS (V) 1ZS (V)		4Y-ECS (V) 1ZS (V)		4Y-ECS (V) 1ZS (V)		4Y-ECS (V) 1ZS (V)	
Nominal Capacity	kg	1500	1750	2000	2500	3000	3500					
Load Centre	mm	500	500	500	500	500	500					
Standard Lift Height (h ₃)	mm	3170	3170	3170	3170	3170	3170					
Available Mast Types	Dpx. Std. Free Lift (D-NFL, h3 = 4.97 m max.) - Dpx. Full Free Lift (D-FFL, h3 = 4.17 m max.) - Tpx. Full Free Lift (T-FFL, h3 = 7.47 m max.)											
Travel Speed (TC) with/without load	km/h	18.5/19.0	12.0/12.5	18.5/19.0	12.0/12.5	17.5/18.0	19.0/19.5	17.5/18.0	19.0/19.5	18.5/19.0	18.5/19.0	19.0/19.5

Lifting Speed (TC) with/without load	m/s	0.67/0.68	0.45/0.52	0.67/0.68	0.45/0.52	0.60/0.64	0.62/0.66	0.60/0.64	0.62/0.66	0.51/0.55	0.50/0.53	0.43/0.45
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Turning Radius (Wa)	mm	2074	2074	2294	2352	2452	2520
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MODEL	LPG 4Y-ECS (V)	LPG 4Y-ECS (V)	DIESEL 1DZ-III (V)	DIESEL 1ZS (V)
Truck Model	M315-M318-M320-M325 M320H-M325H	M330-M335 M330H-M335H	M315-M318 (TC only)	M320-M325-M330-M335 M320H-M325H-M330H-M335H
Number of Cylinders	4	4	4	3
Displacement	2570 cm ³	2570 cm ³	2486 cm ³	1795 cm ³
Rated Power	38 kW @ 2570 rpm	42 kW @ 2570 rpm	17,5 kW @ 1700 rpm	41 kW @ 2200 rpm
Rated Torque	160 Nm @ 2100 rpm	165 Nm @ 2570 rpm	99 Nm @ 1700 rpm	200 Nm @ 1600 rpm

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.

* Available in combination with fingertips or joystick hydraulic controls



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 dealer for further details.
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