



**STRONG PARTNERS.
TOUGH TRUCKS.™**

FORTENS™



DIESEL AND LPG FORKLIFT TRUCKS

H8.0-9.0FT FORTENS ADVANCE / FORTENS ADVANCE+



8 000–9 000 KG

MAST AND CAPACITY INFORMATION

MASTS H8.OFT6 AND H9.OFT6

	Maximum fork height Top of Forks mm (h ₂ +s)	Back tilt	Overall lowered height (mm)	Overall Extended height (mm)	Free lift (top of forks) (mm)
2-Stage Limited Free Lift	3 065	9°	2 712	4 350 ❖	0
	3 565	9°	2 962	4 898 ❖	0
	4 565	9°	3 462	5 898 ❖	0
	5 565	9°	3 962	6 898 ❖	0
	6 065	9°	4 212	7 350 ❖	0
3-Stage Full Free Lift	4 615	6°	2 702	6 077 ❖	1 565 ◀
	5 515	6°	3 002	6 977 ❖	1 865 ◀
	5 965	6°	3 152	7 427 ❖	2 015 ◀

MASTS H8.OFT9

	Maximum fork height Top of Forks mm (h ₂ +s)	Back tilt	Overall lowered height (mm)	Overall Extended height (mm)	Free lift (top of forks) (mm)
2-Stage Limited Free Lift	3 065	9°	2 712	4 398 ❖	0
	3 565	9°	2 962	4 898 ❖	0
	4 565	9°	3 462	5 898 ❖	0
	5 565	9°	3 962	6 898 ❖	0
	6 065	9°	4 212	7 398 ❖	0
3-Stage Full Free Lift	4 615	6°	2 712	6 077 ❖	1 405 ◀
	5 515	6°	3 012	6 977 ❖	1 705 ◀
	5 965	6°	3 162	7 475 ❖	1 855 ◀
	6 565	6°	3 362	8 027 ❖	2 055 ◀

H8.OFT6-H8.OFT9 – Capacity Chart in kg, Dual Pneumatic Tyres ©

	With carriage only						
	Maximum fork height mm (h ₂ +s)	H8.OFT6 mast ▲		H8.OFT9 mast		H9.OFT mast	
		Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height
2-Stage Limited Free Lift	3 065	8 000		8 000		8 500	
	3 565	8 000		8 000		8 490	
	4 565	8 000		8 000		8 470	
	5 565	8 000		7 920	8 000 kg to 5 265 mm	8 190	9 000kg to 5 315mm
	6 065	7 710	8 000kg to 5 815mm	7 770	8 000 kg to 5 265 mm	7 620	9 000kg to 5 315mm
3-Stage Limited Free Lift	4 615	8 000		8 000		8 500	
	5 515	8 000		7 770	8 000 kg to 4 615 mm	8 320	9 000kg to 5 365mm
	5 965	7 940	8 000kg to 5 915mm	7 650	8 000 kg to 4 615 mm	7 810	9 000kg to 5 365mm

	With carriage + sideshift						
	Maximum fork height mm (h ₂ +s)	H8.OFT6 mast ▲		H8.OFT9 mast		H9.OFT mast	
		Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height
2-Stage Limited Free Lift	3 065	7 580		7 580		8 500	
	3 565	7 570		7 560		8 490	
	4 565	7 540		7 530		8 470	
	5 565	7 520		7 420	7 500kg to 5 265mm	8 190	8 450kg to 5 315mm
	6 065	7 240	7 510kg to 5 815mm	7 270	7 480kg to 5 265mm	7 620	8 440kg to 5 315mm
3-Stage Limited Free Lift	4 615	7 560		7 560		8 500	
	5 515	7 540		7 320	7 530kg to 4 615mm	8 320	8 480kg to 5 365mm
	5 965	7 480	7 530kg to 5 915mm	7 180	7 510kg to 4 615mm	7 810	8 470kg to 5 365mm

	With carriage + sideshifting fork positioner ✓						
	Maximum fork height mm (h ₂ +s)	H8.OFT6 mast ▲		H8.OFT9 mast		H9.OFT mast	
		Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height
2-Stage Limited Free Lift	3 065	7 530		7 550		8 460	
	3 565	7 520		7 530		8 440	
	4 565	7 500		7 500		8 420	
	5 565	7 470		7 390	7 460 kg to 5 265 mm	8 140	8 400kg to 5 315mm
	6 065	7 200	7 460kg to 5 815mm	7 240	7 440 kg to 5 265 mm	7 570	8 390kg to 5 315mm
3-Stage Limited Free Lift	4 615	7 530		7 530		8 470	
	5 515	7 510		7 290	7 500 kg to 4 615 mm	8 290	8 450kg to 5 365mm
	5 965	7 450	7 500kg to 5 915mm	7 150	7 480 kg to 4 615 mm	7 780	8 430kg to 5 365mm

POWERTRAINS

GENERAL	
1.1	Manufacturer (abbreviation)
1.2	Manufacturer's type designation
1.3	Drive: electric (battery or mains), diesel, petrol, LPG

COMBUSTION ENGINE	
7.1	Engine manufacturer/type
7.1.1	EPA / CE Tier compliance
7.2	Engine power according to ISO1585
7.3	Rated speed at max. power
7.3.1	Torque at 1/min
7.4	Number of cylinders/displacement
7.10	Battery voltage/nominal capacity

DRIVE MECHANISM	
8.1	Type of drive unit
8.2	Manufacturer/type
8.6	Wheel drive/drive axle manufacturer/type
8.11	Service brake
8.12	Parking brake

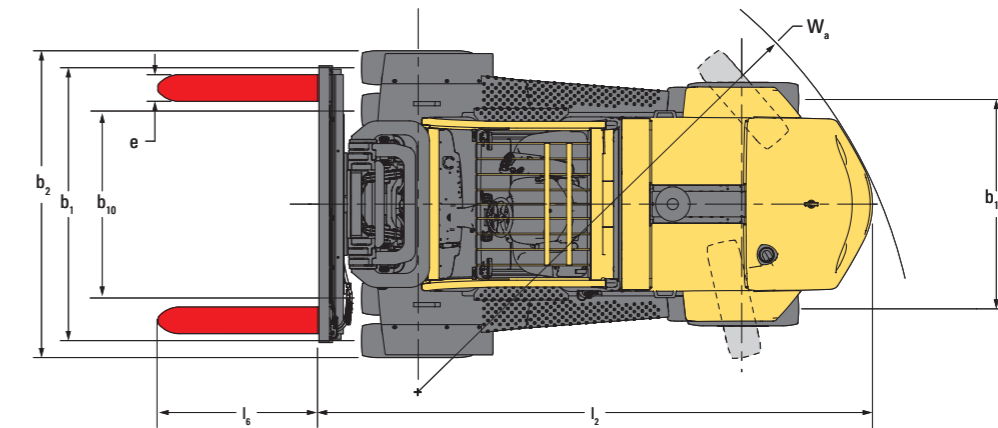
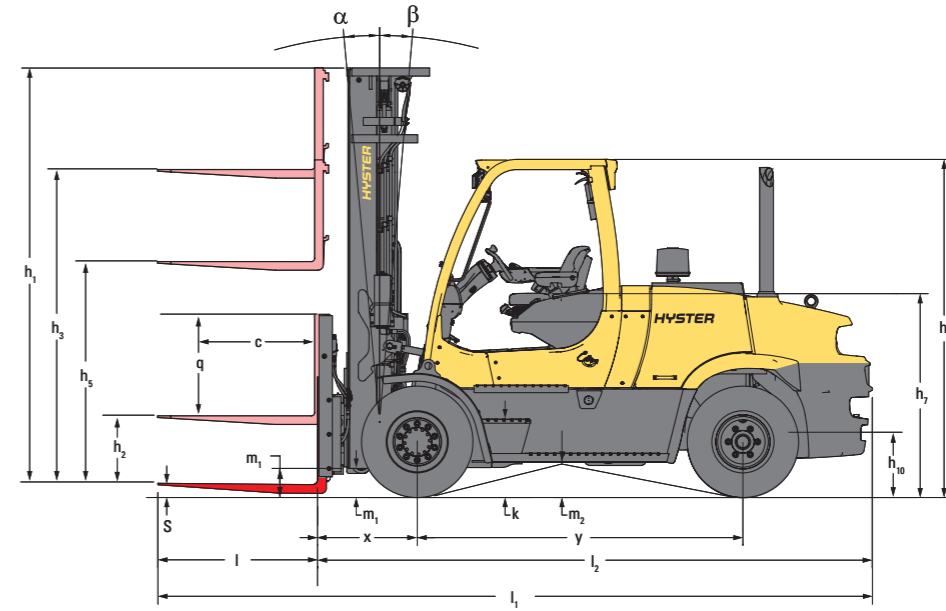
HYSTER	HYSTER	HYSTER
H8.0-9.0FT	H8.0-9.0FT	H8.0-9.0FT
Diesel	Diesel	LPG

Kubota 3.8L 55kW		Kubota 3.8L 82kW		GM 5.7L V8	
Tier 4i / Stage IIIB		Tier 4f / Stage IV		-	
55		82		99	
2200		2400		2400	
308	1400	373	1600	422	1600
4	3769	4	3769	8	5735
12	210	12	210	12	132

Hydrodynamic	Hydrodynamic	Hydrodynamic
DANA	DANA	DANA
DANA	DANA	DANA
Hydraulic	Hydraulic	Hydraulic
Hand Lever	Hand Lever	Hand Lever

NOTES: To calculate truck capacities with alternative truck specifications to the ones shown in the above tables, please consult your Hyster dealer. The rated capacities shown are for masts in a vertical position on trucks equipped with standard or sideshift carriage, and nominal length forks. Masts above the maximum fork heights shown in the mast table are classified as high lift, and depending on the tyre/tread configuration may require reduced capacity, restricted back tilt or wide tread. Values shown are for standard equipment. When using non-standard equipment, these values may change. Please contact your Hyster dealer for information.

TRUCK DIMENSIONS

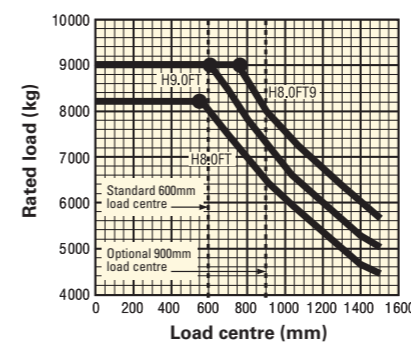


● = Centre of gravity of unladen truck

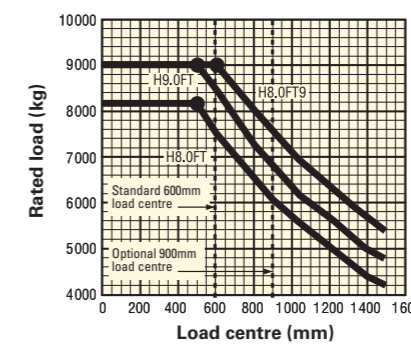
For $b_{12}/2 \leq b_{13}$: $AST = W_a + x + l_6 + a$
 For $b_{12}/2 > b_{13}$: $AST = W_a + \sqrt{(l_6 + x)^2 + (b_{12}/2 - b_{13})^2}$
 a = Minimum operating clearance
 (VDI standard = 200 mm BITA recommendation = 300 mm)
 l₆ = Load length

RATED CAPACITIES

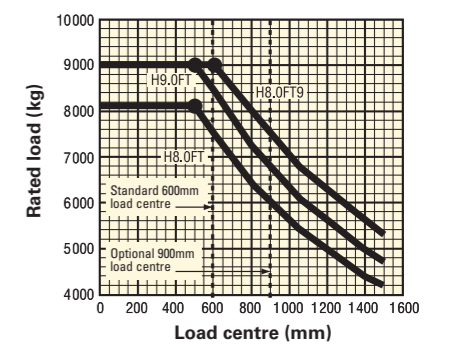
STANDARD HOOK CARRIAGE



INTEGRAL SIDESHIFT HOOK CARRIAGE



INTEGRAL SIDESHIFT FORK POSITIONER HOOK CARRIAGE



Load centre: Distance from front of forks to centre of gravity of load.

Rated load: Based on vertical 2-stage masts up to 5065 to 5565 mm, depending on model. Special forks with higher load ratings may be needed to obtain full rating with load centres > 1100 mm

PRODUCT PACKAGES

The Hyster Fortens™ range has been designed to match the vast range of application requirements and business objectives that customers demand.

The H8.0-9.0FT Series is available in several truck packages, with multiple powertrain combinations to choose from, to best match operational demands. Each configuration offers improved efficiency, advanced dependability, lower cost of operations and simple serviceability.

Model / Bundle	H8.0FT6			H8.0FT9			H9.0FT6		
	DIESEL	Engine	Transmission	Brakes	Engine	Transmission	Brakes	Engine	Transmission
Fortens Advance	Kubota 3.8L, 55kW	DuraMatch™3, 3-speed	Wet Brakes	Kubota 3.8L, 55kW	DuraMatch™3, 3-speed	Wet Brakes	Kubota 3.8L, 55kW	DuraMatch™3, 3-speed	Wet Brakes
Fortens Advance	Kubota 3.8L, 82kW	DuraMatch™3, 3-speed	Wet Brakes	Kubota 3.8L, 82kW	DuraMatch™3, 3-speed	Wet Brakes	Kubota 3.8L, 82kW	DuraMatch™3, 3-speed	Wet Brakes
Fortens Advance+	Kubota 3.8L, 55kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	Kubota 3.8L, 55kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	Kubota 3.8L, 55kW	DuraMatch™ Plus3, 3-speed	Wet Brakes
Fortens Advance+	Kubota 3.8L, 82kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	Kubota 3.8L, 82kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	Kubota 3.8L, 82kW	DuraMatch™ Plus3, 3-speed	Wet Brakes

Model / Bundle	H8.0FT			H8.0FT9			H9.0FT		
	LPG	Engine	Transmission	Brakes	Engine	Transmission	Brakes	Engine	Transmission
Fortens Advance	GM 5.7L V8	DuraMatch™3, 3-speed	Wet Brakes	GM 5.7L V8	DuraMatch™3, 3-speed	Wet Brakes	GM 5.7L V8	DuraMatch™3, 3-speed	Wet Brakes
Fortens Advance+	GM 5.7L V8	DuraMatch™ Plus3, 3-speed	Wet Brakes	GM 5.7L V8	DuraMatch™ Plus3, 3-speed	Wet Brakes	GM 5.7L V8	DuraMatch™ Plus3, 3-speed	Wet Brakes

Please refer to the Price List for full option configurations.

PRODUCT FEATURES

The Hyster Fortens H8.0-9.0FT Series represents a powerful, compact materials handling solution for a wide range of demanding applications.

These trucks are ideally suited to match the a variety of application needs, including those with attachment usage in the paper, manufacturing, recycling, beverage, metals or construction industries or where space is tight.

It's compact design ensures that space and on-site efficiency can be maximised to maintain low operating costs.

Fortens Advance & Advance+ models feature the electronically controlled Kubota V3800 E4 55kW or 82kW diesel engines or GM 5.7L V8 LPG engine.

LOW EMISSION ENGINES FORM KUBOTA

The Kubota V3800 E4 55kW diesel engine is fully compliant with Stage IIIB requirements for regulated markets and is equipped with a DOC as standard.

These engines meet the stringent emissions regulations by using a number of technologies including cooled exhaust gas recirculation, charge air cooling and a Diesel Oxidising Catalyst.

The Kubota V3800 E4 82kW Stage IV compliant diesel engine use familiar technologies like Exhaust Gas Recirculation (EGR) in combination with a Diesel Particulate Filter (DPF). For these engines we are currently using Selective Catalytic Reduction (SCR) technology to significantly reduce Nitrogen Oxide (NOx) emission levels. Using these technologies together achieves full emission compliance to Stage IV.

Hyster Stage IIIB and Stage IV trucks stand for profitable low emissions through intelligent design. They are recognisable by the Stage IIIB or Stage IV symbol.



THE CHOICE OF TRANSMISSIONS

The Fortens Advance models feature the **DuraMatch™ 3 transmission**, providing:

- **Auto Deceleration System (ADS)** automatically slows the truck when the accelerator pedal is released, and finally brings the truck to a stop, which helps to significantly extend brake life. In addition, this feature assists the driver to accurately position the truck in front of a load. There are 10 ADS settings, programmable via the dash display by a service technician, which deliver different braking characteristics, from very gradual to aggressive, to suit the needs of the application.
- **Controlled Power Reversal;** the Pacesetter VSM™ controls the transmission to deliver smooth direction changes. The VSM reduces the throttle to slow the engine, initiates auto-deceleration to stop the truck, changes the transmission direction automatically and increases the throttle to accelerate the truck. The system virtually eliminates tyre spin and shock loads on the transmission and significantly increases tyre life. As with ADS, the system is programmable via the dash display by a service technician, with settings from 1 to 10, to suit the needs of the application.
- **Controlled Roll-Back on Ramp;** the transmission controls the rate of descent of the truck on a ramp, when the brake and throttle pedal are released, to provide maximum control on a grade and increase operator productivity.
- **First Gear** offers **Increased Drawbar Pull** for use on gradients.
- **Second & Third Gears** provide maximum engine efficiency in applications where longer travel distances are common

PRODUCT FEATURES continued

The Fortens Advance+ models feature the electronically controlled three-speed extended function **DuraMatch™ Plus3 transmission**. This transmission, in addition to the above, features:

- **Throttle Response Management** allows the operator to manage his travel speed, according to the position of his foot on the accelerator pedal. For example, a certain speed can be maintained both on the flat and on a gradient, without the need to depress the pedal further. The system also compensates for hydraulic operation and drawbar pull.
- **Dynamic Auto Deceleration System;** as with the **DuraMatch™ 3**, the operator can slow the truck down without using the brake and the rate of braking is determined by the dashboard settings 1-10. In addition, thanks to the Throttle Response Management feature, the rate of deceleration can be further fine-tuned according to the rate at which the driver releases his foot from the accelerator pedal.
- **Auto-Speed Hydraulics with Automatic Inching Control;** when lifting a load, the engine speed is automatically increased to provide full hydraulic power. The Pacesetter VSM™ maintains the current travel speed (or prevents travel) until operator steps on accelerator. No operator inching is required and productivity is increased by simplifying operator actions.

The transmissions are compatible with the combi-cooler radiator and a superior counterweight tunnel design coupled with a "pusher" type fan, to provide the industry's best cooling.

The standard Oil-immersed brakes offer reduced maintenance & repair time and costs, which results in extended truck dependability and uptime. These trucks are ideally suited to applications in wet, dirty or corrosive environments, and ensure consistent braking performance over the lifetime of the truck. This is thanks to the sealed unit that houses and protects the brakes, so preventing contaminants and damage.

The powertrain is controlled, protected and managed by the **Pacesetter VSM™** industrial onboard computer, featuring a CANbus communications network.

This system permits adjustment and optimisation of the truck's performance, in addition to monitoring key functions. It enables quick, easy diagnostics, minimizing repair downtime and unnecessary parts swapping.

Hassle-Free Hydraulic systems, featuring Leak-free O-ring face seal fittings reduce leaks for enhanced reliability.

Non-mechanical, Hall-Effect sensors and switches have been fitted and are designed to outlast the life of the truck.

The operator compartment features class-leading **ergonomics** for maximum driver comfort and productivity.

- Operator space is optimised, thanks to the modern overhead guard design and significantly more floor space.
- The Easy-to-use 3-point entry design of operator compartment features conveniently positioned hand-grips and three non-slip steps, with an initial step height of just **32.1cm**. The isolated operator compartment minimises the effect of powertrain vibration.
- The adjustable armrest that accompanies the E-hydraulic TouchPoint™ mini-levers moves with the seat and telescopes forward.
- The Rear grab handle with horn button facilitates reverse driving.
- An infinitely adjustable steering column, 30 cm diameter steering wheel with spinner knob and full-suspension seat enhance driver comfort.

THE HYSTER FORTENS IS THE FASTEST AND EASIEST LIFT TRUCK TO SERVICE.

- An active regenerating Diesel particulate filter significantly reduces the number of services interventions. DPF performance is constantly monitored and displayed on supplemental display at operator eye level.
- Simple service access to both sides of the engine compartment is via a gull-wing hood and a simplified layout of wiring and hydraulics offers greater access to components, which in turn decreases service time for unscheduled repairs and regular maintenance.
- Fast, colour-coded daily checks and diagnostic systems can be managed via the dash display.
- An Engine coolant change and Hydraulic oil change interval of 4 000 hours also contributes to reduced downtime.

STRONG PARTNERS. TOUGH TRUCKS.™

FOR DEMANDING OPERATIONS, EVERYWHERE.

Hyster supplies a complete range of warehouse equipment, IC and electric counterbalanced trucks, container handlers and reach stackers. Hyster is committed to being much more than a lift truck supplier.

Our aim is to offer a complete partnership capable of responding to the full spectrum of material handling issues: Whether you need professional consultancy on your fleet management, fully qualified service support, or reliable parts supply, you can depend on Hyster.

Our network of highly trained dealers provides expert, responsive local support. They can offer cost-effective finance packages and introduce effectively managed maintenance programmes to ensure that you get the best possible value. Our business is dealing with your material handling needs so you can focus on the success of your business today and in the future.



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