



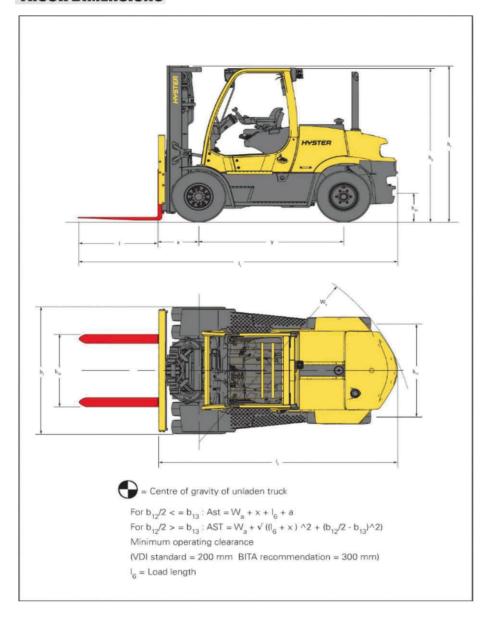
FORTENS H7.OFT

| | 1.1 | Manufacturer (abbreviation) | | нуя | STER | |
|--------------|--------|--|----------------------|----------------------------------|---|--|
| | 1.2 | Manufacturer's type designation | | H7. | OFT | |
| | | Model | | | tens | |
| IISHING MARK | | Engine / transmission | | Electronic 2-Speed w Power | 3.8L 55kW Powershift, ith Softshift Reversal | |
| DISTINGU | | Brake type | | | Brakes | |
| | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | | esel | |
| | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | 0.44 | | bete .0 | |
| | 1.5 | Rated capacity/rated load Load centre distance | Q (t) | | 00 | |
| | 1.8 | Load distance, centre of drive axle to fork | x (mm) | | 01 | |
| | 1.9 | Wheelbase | y (mm) | | 135 | |
| | | | A.Seesti A | | | |
| 2 | 2.1 | Service weight | kg | 90 | 71 | |
| 8 | 2.2 | Axle loading laden, front/rear | kg | 14477 | 1594 | |
| 3 | 2.3 | Axle loading unladen, front/rear | kg | 3717 | 5354 | |
| | 2.1 | I annual V salid OF Dominatic Chand Calid | | | | |
| 22 | 3.1 | L = pneumatic, V = solid, SE = Pneumatic-Shaped Solid | | | E 14DD | |
| ASS | 3.2 | Tyre size, front Tyre size, rear | | | 8.25x15 14PR 8.25x15 14PR | |
| S/GH | 3.5 | Number of wheels, front/rear (x = driven wheels) | | 4X | 2 | |
| W. | 3.6 | Tread, front | b, (mm) | | 46 | |
| - | 3.7 | Tread, rear | b, (mm) | | 36 | |
| | 611 | The state of the s | will brown | | | |
| | 4.1 | Tilt of mast/fork carriage forward/backward | α/β(°) | 5 | 10 | |
| | 4.2 | Height, mast lowered | h, (mm) | 25 | 40 | |
| | 4.3 | Free lift, ¶ | h, (mm) | 1 | 00 | |
| | 4.4 | Lift ¶ | h ₂ (mm) | 29 | 40 | |
| | 4.5 | Height, mast extended ■ | h _a (mm) | 41 | 95 | |
| | 4.7 | Height of overhead guard (cabin) + | h, (mm) | 25 | 31 | |
| | 4.7.1 | Cab height (open cab) | mm | 15 | 40 | |
| | 4.8 | Seat height/stand height • | h, (mm) | 4 | 474 | |
| | 4.12 | Coupling height | h _{ss} (mm) | 48 | 105 | |
| | 4.19 | Overall length | I, (mm) | 48 | 69 | |
| 2 | 4.20 | Length to face of forks | I ₂ (mm) | 36 | 69 | |
| 95 | 4.21 | Overall width | b,/b, (mm) | 20 | 182 | |
| 8 | 4.22 | Fork dimensions | s/e/I (mm) | 60 1 | 50 1200 | |
| - | 4.23 | Fork carriage ISO 2328, class/type A, B | | 11 | /A | |
| | 4.24 | Fork carriage width | b ₃ (mm) | | 180 | |
| | 4.31 | Ground clearance, laden, below mast | m, (mm) | | 25 | |
| | 4.32 | Ground clearance, centre of wheelbase | m ₂ (mm) | | 53 | |
| | 4.33 | Aisle width for pallets 1000 × 1200 crossways ◆ | A _{st} (mm) | | 31 | |
| | 4.34 | Aisle width for pallets 800 × 1200 lengthways ◆ | A _{st} (mm) | | 97 | |
| | 4.35 | Turning radius (outer) | W _a (mm) | | 88 | |
| | 4.36 | Inner turning radius | b., (mm) | - | 30 | |
| | 4.41 | 90° intersecting aisle (with pallet W = 1200mm, L = 1000mm) Stee Neight (feet account to running heart) | (mm) | | 56 | |
| | 4.42 | Step Height (from ground to running board) Step Height (between intermediate steps between running board and floor) | (mm) | | 21 | |
| | 4.43 | Step mergin transvarii intermetriate staps between running board and floor) | (mm) | 2 | 56 | |
| | 5.1 | Travel speed laden/unladen | km/h | 19.5 | 21.3 | |
| ORMANCE | 5.1.1 | Travel speed laden/unladen Travel speed, laden/unladen, backwards | km/h | 22.1 | 24.3 | |
| | 5.1.1 | Lift speed, laden/unladen (2LFL) | m/sec | 0.43 | 0.48 | |
| | 5.3 | Lowering speed, laden/unladen (2LFL) | m/sec | 0.43 | 0.48 | |
| | 5.5 | Drawbar pull, laden/unladen @ 1.6 km/h | kN | 35.6 | 25.7 | |
| PER | 5.7 | Gradeability, laden/unladen @ 1.6 km/h | % | 22% | 30% | |
| Н | 5.9 | Acceleration time, laden/unladen | sec | - | BC | |
| | 5.10 | Service brake | *** | | raulic | |
| | | Batter Standard Control Contro | | , | | |
| | 7.5 | Fuel consumption according to VDI cycle | kg/h | 7 | .4 | |
| | 10.1 | Operating pressure for attachments (nominal relief pressure) | bar | 1 | 55 | |
| | 10.2 | Oil volume for attachments (nominal) . | l/min | 83 | 3.3 | |
| PATA | 10.3 | Hydraulic oil tank, capacity | litres | 71 | .7 | |
| Ĭ | 10.4 | Fuel tank, capacity | litres | 74 | 1.8 | |
| Ē | 10.7 | Sound level at driver's ear according DIN 12053 (without / with cab) | dB(A) L | 77 | 77 | |
| ADD. | 10.7.2 | Sound power level during the drive cycle | dB L _{waz} | 11 | 01 | |
| | 10.7.1 | Guaranteed sound power 2001/14/EC | dB L _{waz} | 10 | 05 | |
| | 10.8 | Towing coupling, type DIN | | P | in | |
| _ | | | | | | |

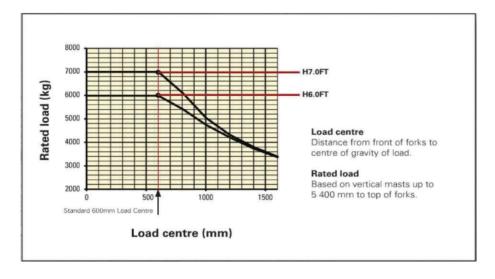




TRUCK DIMENSIONS



RATED CAPACITIES



Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster Truck

- With standard equipment: mast, 35 carriage and forks.
- Add 32 mm with load backrest
- Bottom of forks
- Without load backrest
- Full suspension seat in depressed position
- h, subject to +/- 5 mm tolerance 2 549 mm for cab option
- Stacking aisle width (lines 4.34.1 & 4.34.2) is based on the VDI standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of truck.
- Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of the vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.
- Measured according to the test cycles and based on the weighting values contained in EN12053

MAST TABLES:

- ∇ Deduct 224 mm without load backrest
- Deduct 224 mm with load backrest

EQUIPMENT AND WEIGHT:

Weights (line 2.1) are based on the following specifications:

Complete truck with 3000mm 2-stage limited free lift mast, 1980mm carriage, 1200mm forks, e-hydraulics, overhead guard and standard pneumatic drive and steer tyres

NOTICE

Care must be exercised when handling elevated loads. When the carriage and/or load is elevated, truck stability is reduced. It is important that mast tilt in either direction be kept to a minimum when loads are elevated

Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Hyster products might be subject to change without notice. Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

This truck conforms to the current EU requirements





MAST AND CAPACITY INFORMATION

Values shown are for standard equipment. When using non-standard equipment these values may change.

MASTS H7.0FT

| Mast type | Maximum fork height (mm) | Back tilt | Overall lowered height (mm) | Overall Extended height (mm) | Free lift (top of forks) (mm) |
|------------------------------|-----------------------------|--------------|--------------------------------|------------------------------|----------------------------------|
| 3-Stage Full Free Lift | 4700 | 6° | 2570 | 6054❖ | 1440 ▽ |

H7.0FT - Capacity Chart in kg @ 600mm Load Centre

| | | All Tyre Types | |
|------------------------------|---------------------|---|--|
| Mast type | Maximum | With carriage + sideshifting fork positione | |
| must type | fork height (mm) | H7.0FT | |
| 3-Stage Full Free Lift | 4700 | 6400 | |

NOTES

To calculate truck capacities with alternative truck specifications to the ones shown in the above tables, please contact your Hyster dealer.

The rated capacities shown are 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.

POWERTRAINS

| | 1.3 | Drive: electric (battery or mains), diesel, petrol, LPG | | Diesel | |
|-------------------|-------|---|-----------------|--------------|--|
| | | | | | |
| - | 7.1 | Engine manufacturer/type | | Kubota 3.8L | |
| 륯 | 7.2 | Engine power according to ISO 1585 | kW | 55 | |
| 퐇 | 7.3 | Rated speed | min-1 | 2200 | |
| COMBUSTION-ENGINE | 7.3.1 | Torque at 1/min | Nm/min-1 | 308.5 / 1400 | |
| 8 | 7.4 | Number of cylinders/displacement | cm ³ | 4 / 3769 | |
| 8 | 7.10 | Battery voltage/nominal capacity ◆ | V/Ah | 12/210 | |
| | | | | | |
| = | 8.1 | Type of drive unit | | Hydrodynamic | |
| | 8.2 | Manufacturer/type | | DANA | |
| 8 | 8.6 | Wheel drive/drive axle manufacturer/type | | DANA | |
| RIVE MECHANISM | 8.11 | Service brake | | Hydraulic | |
| 품 | 8.12 | Parking brake | _ = = = = = | Hand Lever | |

Battery ampere hour (Ah) nominal capacity ratings are estimated.





PRODUCT PACKAGES

The Hyster FortensTM range been designed to match the vast range of application requirements and business objectives that customers demand. The H6.0-7.0FT 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 ownership and simple serviceability.

| Model / Bundle | H7.0FT | | | | |
|----------------|------------------|---|--------|--|--|
| DIESEL | Engine | Transmission | Brakes | | |
| Fortens | Kubota 3.8L 55kW | Electronic Powershift 2-speed with Soft Shift Power reversal | Wet | | |

PRODUCT FEATURES

The new Hyster Fortens H6.0-7.0FT series represents a powerful, compact materials handling solution for a wide range of demanding applications. These trucks are ideally suited to handling operations with high attachment usage such as paper, beverage, timber, metals and construction materials. It's compact design ensures that space and on-site efficiency can be maximised to maintain low operating costs.

THE KUBOTA 3800 SERIES ENGINES

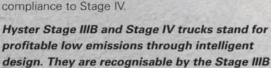
Fortens Advance and Advance models feature the electronically controlled Kubota V3800 E4 55kW or 78kW diesel engines.

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.



STAGE IIIB

The Kubota V3800 E4 78kW 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



or Stage IV symbol.



THE CHOICE OF TRANSMISSIONS

The Fortens model features 2-speed (2F/2R) Electronic Powershift with Soft Shift Power Reversal function for handling delicate loads, which inhibits direction changes at speeds of over 3.5km/h.

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 VSMTM 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 decent 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.



















PRODUCT FEATURES (2)

- First Gear offers Increased Drawbar Pull for use on gradients.
- Second & Third Gears (where available) provide maximum engine efficiency in applications where longer travel distances are common.

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 and 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. All powertrains are controlled, protected and managed by the Pacesetter VSM™ industrial on-board computer, featuring a

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.

CANbus communications network.

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 a new 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, 30cm 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 100 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.