STRONG PARTNERS. TOUGH TRUCKS.

FORTENS™


# IC Counterbalanced Lift Trucks
## S6.0-7.0FT Fortens / Fortens Advance

6 000-7 000 kg

# Fortens S6.0FT, S7.0FT

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHARACTERISTICS | 1.1 | Manufacturer | | HYSTER | | | | HYSTER | | | | HYSTER | | | | HYSTER | |
| | 1.2 | Model designation | | S6.0FT | | | | S6.0FT | | | | S7.0FT | | | | S7.0FT | |
| | | Model - Manufacturer designation | | Fortens | | | | Fortens | | | | Fortens | | | | Fortens | |
| | | Engine/Transmission | | GM 4.3L Electronic Powershift | | | | Kubota 3.8L Electronic Powershift | | | | GM 4.3L Electronic Powershift | | | | Kubota 3.8L Electronic Powershift | |
| | | Brake Type | | Wet Brakes | | | | Wet Brakes | | | | Wet Brakes | | | | Wet Brakes | |
| | 1.3 | Power: battery, diesel, LPG, electric mains | | LPG | | | | Diesel | | | | LPG | | | | Diesel | |
| | 1.4 | Operation: manual, pedestrian, stand, seat, orderpicker | | Seat | | | | Seat | | | | Seat | | | | Seat | |
| | 1.5 | Load capacity | Q (kg) | 6 000 | | | | 6 000 | | | | 7 000 | | | | 7 000 | |
| | 1.6 | Load centre | c (mm) | 600 | | | | 600 | | | | 600 | | | | 600 | |
| | 1.8 | Load distance | x (mm) | 500 | | | | 500 | | | | 500 | | | | 500 | |
| | 1.9 | Wheelbase | y (mm) | 1830 | | | | 1830 | | | | 1830 | | | | 1830 | |
| WEIGHTS | 2.1 | Unladen weight | kg | 8835 | | | | 8887 | | | | 9699 | | | | 9751 | |
| | 2.2 | Axle loading with load, front / rear | kg | 13791 | 1168 | | | 13817 | 1194 | | | 15449 | 1281 | | | 15475 | 1307 |
| | 2.3 | Axle loading without load, front / rear | kg | 3841 | 4994 | | | 3867 | 5020 | | | 4025 | 5674 | | | 4051 | 5700 |
| WHEELS & TYRES | 3.1 | Tyres: L=Pneumatic, V=Solid, SE=Pneumatic Shaped Solid | | V | | | | V | | | | V | | | | V | |
| | 3.2 | Tyre size, front | | 28 x 12 x 22 | | | | 28 x 12 x 22 | | | | 28 x 12 x 22 | | | | 28 x 12 x 22 | |
| | 3.3 | Tyre size, rear | | 22 x 8 x 6 | | | | 22 x 8 x 16 | | | | 22 x 8 x 16 | | | | 22 x 8 x 16 | |
| | 3.5 | Number of wheels, front / rear (X = driven) | | 2X | 2 | | | 2X | 2 | | | 2X | 2 | | | 2X | 2 |
| | 3.6 | Track width, front | b10 (mm) | 1133 | | | | 1133 | | | | 1133 | | | | 1133 | |
| | 3.7 | Track width, rear | b11 (mm) | 1192 | | | | 1192 | | | | 1192 | | | | 1192 | |
| DIMENSIONS | 4.1 | Mast tilt, forward α / back β | degrees | 6 | 10 | | | 6 | 10 | | | 6 | 10 | | | 6 | 10 |
| | 4.2 | Height of mast, lowered | h1 (mm) | 2697 | | | | 2697 | | | | 2697 | | | | 2697 | |
| | 4.3 | Free lift ¶ | h2 (mm) | 100 | | | | 100 | | | | 100 | | | | 100 | |
| | 4.4 | Lift height ¶ | h3 (mm) | 3340 | | | | 3340 | | | | 3340 | | | | 3340 | |
| | 4.5 | Height of mast, extended ■ | h4 (mm) | 4575 | | | | 4575 | | | | 4575 | | | | 4575 | |
| | 4.7 | Height to top of overhead guard (high) ✦ | h6 (mm) | 2302 | | | | 2302 | | | | 2302 | | | | 2302 | |
| | 4.8 | Seat height ✪ | h7 (mm) | 1231 | | | | 1231 | | | | 1231 | | | | 1231 | |
| | 4.12 | Towing coupling height | h10 (mm) | 388 | | | | 388 | | | | 388 | | | | 388 | |
| | 4.19 | Overall length | l1 (mm) | 4130 | | | | 4130 | | | | 4130 | | | | 4130 | |
| | 4.20 | Length to face of forks | l2 (mm) | 2930 | | | | 2930 | | | | 2930 | | | | 2930 | |
| | 4.21 | Overall width | b1 (mm) | 1438 | | | | 1438 | | | | 1438 | | | | 1438 | |
| | 4.22 | Fork dimensions | s/e/l (mm) | 60 | 150 | 1200 | | 60 | 150 | 1200 | | 60 | 150 | 1200 | | 60 | 150 | 1200 |
| | 4.23 | Fork carriage to DIN 15173. Class, A/B | | IVA | | | | IVA | | | | IVA | | | | IVA | |
| | 4.24 | Fork carriage width ● | b3 (mm) | 1219 | | | | 1219 | | | | 1219 | | | | 1219 | |
| | 4.31 | Ground clearance under mast, with load | m1 (mm) | 113 | | | | 113 | | | | 113 | | | | 113 | |
| | 4.32 | Ground clearance at centre of wheelbase | m2 (mm) | 188 | | | | 188 | | | | 188 | | | | 188 | |
| | 4.33 | Aisle width with pallets 1 000 long x 1 200 wide ◆ | Ast (mm) | 4364 | | | | 4364 | | | | 4364 | | | | 4364 | |
| | 4.34 | Aisle width with pallets 800 wide x 1 200 long ◆ | Ast (mm) | 4510 | | | | 4510 | | | | 4510 | | | | 4510 | |
| | 4.35 | Outer turning radius | Wa (mm) | 2585 | | | | 2585 | | | | 2585 | | | | 2585 | |
| | 4.36 | Inner turning radius | b13 (mm) | 108 | | | | 108 | | | | 108 | | | | 108 | |
| PERFORMANCE | 5.1 | Travel speed with / without load | km/h | 20.5 | 19.8 | | | 20.7 | 20.0 | | | 20.5 | 19.8 | | | 20.7 | 20.0 |
| | 5.2 | Lifting speed with / without load | m/sec | 0.53 | 0.53 | | | 0.48 | 0.49 | | | 0.53 | 0.53 | | | 0.45 | 0.49 |
| | 5.3 | Lowering speed with / without load | m/sec | 0.56 | 0.43 | | | 0.58 | 0.53 | | | 0.56 | 0.43 | | | 0.58 | 0.53 |
| | 5.5 | Drawbar pull with / without load, @ 1.6 km/h | N | 39500 | 20100 | | | 38670 | 21870 | | | 39200 | 19200 | | | 38360 | 23090 |
| | 5.6 | Maximum drawbar pull with / without load, | N | 48300 | 20100 | | | 50370 | 21870 | | | 48100 | 19200 | | | 50050 | 23090 |
| | 5.7 | Gradeability with / without load, @ 4.8 km/h † | % | 17.6 | 24.0 | | | 15.2 | 24.8 | | | 15.9 | 21.6 | | | 13.4 | 22.4 |
| | 5.8 | Maximum Gradeability with / without load, @ 1.6 km/h † | % | 28.1 | 24.0 | | | 26.2 | 24.8 | | | 25.3 | 21.6 | | | 24.1 | 23.9 |
| | 5.10 | Service brake | | Hydraulic | | | | Hydraulic | | | | Hydraulic | | | | Hydraulic | |
| POWER UNIT | 7.1 | Engine manufacturer / type | | GM 4.3L | | | | Kubota V3800 3.8L | | | | GM 4.3L | | | | Kubota V3800 3.8L | |
| | 7.2 | Engine output, in accordance with ISO1585 | kW | 77 | | | | 55 | | | | 77 | | | | 55 | |
| | 7.3 | Governed speed | rpm | 2400 | | | | 2200 | | | | 2400 | | | | 2200 | |
| | 7.4 | Number of cylinders / displacement | cm3 | 6 | 4302 | | | 4 | 3769 | | | 6 | 4302 | | | 4 | 3769 |
| | 7.5 | Fuel Consumption per VDI test cycle | l/hr (DSL), kg/hr (LPG) | TBC | | | | 6.17 | | | | TBC | | | | 6.66 | |
| OTHER | 8.1 | Drive control | | Automatic | | | | Automatic | | | | Automatic | | | | Automatic | |
| | 8.2 | Working pressure for attachments | bar | 153 | | | | 153 | | | | 153 | | | | 153 | |
| | 8.3 | Oil flow for attachments ✧ | l/min | 83.3 | | | | 83.3 | | | | 83.3 | | | | 83.3 | |
| | 8.4 | Average noise level at operator's ear $L_{PAZ}$ ✪ | dB(A) | 83 | | | | 81 | | | | 83 | | | | 81 | |
| | | Guaranteed sound power 2001/14/EC $L_{WAZ}$ | dB | 108 | | | | 104 | | | | 108 | | | | 104 | |
| | 8.5 | Towing coupling type | | Pin | | | | Pin | | | | Pin | | | | Pin | |

Specification data is based on VDI 2198

**Equipment and weight:**

Weights (line 2.1) are based on the following specifications:
Complete truck with 3 400 mm 2-stage limited free lift mast, standard carriage, 1 200 mm forks, e-hydraulics, overhead guard and standard cushion drive and steer tyres.

# **Fortens** Advance **S6.0FT, S7.0FT**

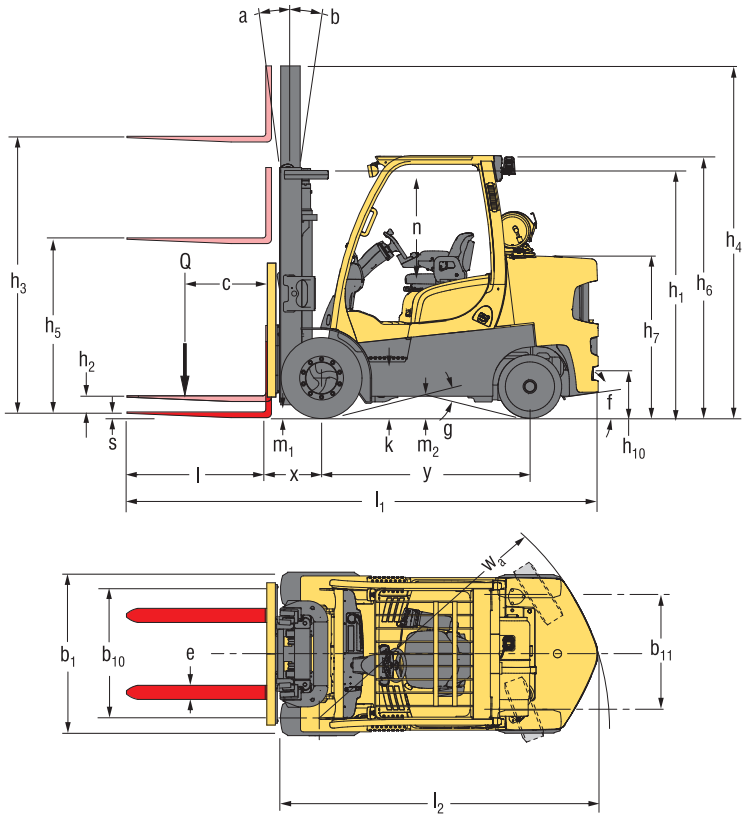
| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CHARACTERISTICS | 1.1 | Manufacturer | | HYSTER | | HYSTER | | HYSTER | | HYSTER | | | | | |
| | 1.2 | Model designation | | S6.0FT | | S6.0FT | | S7.0FT | | S7.0FT | | | | | |
| | | Model - Manufacturer designation | | Fortens Advance | | Fortens Advance | | Fortens Advance | | Fortens Advance | | | | | |
| | | Engine/Transmission | | GM 4.3L DuraMatch™ Electronic | | Kubota 3.8L DuraMatch™ Electronic | | GM 4.3L DuraMatch™ Electronic | | Kubota 3.8L DuraMatch™ Electronic | | | | | |
| | | Brake Type | | Wet Brakes | | Wet Brakes | | Wet Brakes | | Wet Brakes | | | | | |
| | 1.3 | Power: battery, diesel, LPG, electric mains | | LPG | | Diesel | | LPG | | Diesel | | | | | |
| | 1.4 | Operation: manual, pedestrian, stand, seat, orderpicker | | Seat | | Seat | | Seat | | Seat | | | | | |
| | 1.5 | Load capacity | Q (kg) | 6 000 | | 6 000 | | 7 000 | | 7 000 | | | | | |
| | 1.6 | Load centre | c (mm) | 600 | | 600 | | 600 | | 600 | | | | | |
| | 1.8 | Load distance | x (mm) | 500 | | 500 | | 500 | | 500 | | | | | |
| | 1.9 | Wheelbase | y (mm) | 1830 | | 1830 | | 1830 | | 1830 | | | | | |
| WEIGHTS | 2.1 | Unladen weight | kg | 8835 | | 8887 | | 9699 | | 9751 | | | | | |
| | 2.2 | Axle loading with load, front / rear | kg | 13791 | 1168 | 13817 | 1194 | 15449 | 1281 | 15475 | 1307 | | | | |
| | 2.3 | Axle loading without load, front / rear | kg | 3841 | 4994 | 3867 | 5020 | 4025 | 5674 | 4051 | 5700 | | | | |
| WHEELS & TYRES | 3.1 | Tyres: L=Pneumatic, V=Solid, SE=Pneumatic Shaped Solid | | V | | V | | V | | V | | | | | |
| | 3.2 | Tyre size, front | | 28 x 12 x 22 | | 28 x 12 x 22 | | 28 x 12 x 22 | | 28 x 12 x 22 | | | | | |
| | 3.3 | Tyre size, rear | | 22 x 8 x 16 | | 22 x 8 x 16 | | 22 x 8 x 16 | | 22 x 8 x 16 | | | | | |
| | 3.5 | Number of wheels, front/rear (X = driven) | | 2X | 2 | 2X | 2 | 2X | 2 | 2X | 2 | | | | |
| | 3.6 | Track width, front | b10 (mm) | 1133 | | 1133 | | 1133 | | 1133 | | | | | |
| | 3.7 | Track width, rear | b11 (mm) | 1192 | | 1192 | | 1192 | | 1192 | | | | | |
| DIMENSIONS | 4.1 | Mast tilt, forward α / back β | degrees | 6 | 10 | 6 | 10 | 6 | 10 | 6 | 10 | | | | |
| | 4.2 | Height of mast, lowered | h1 (mm) | 2697 | | 2697 | | 2697 | | 2697 | | | | | |
| | 4.3 | Free lift ¶ | h2 (mm) | 100 | | 100 | | 100 | | 100 | | | | | |
| | 4.4 | Lift height ¶ | h3 (mm) | 3340 | | 3340 | | 3340 | | 3340 | | | | | |
| | 4.5 | Height of mast, extended ■ | h4 (mm) | 4575 | | 4575 | | 4575 | | 4575 | | | | | |
| | 4.7 | Height to top of overhead guard (high) ✦ | h6 (mm) | 2302 | | 2302 | | 2302 | | 2302 | | | | | |
| | 4.8 | Seat height ✪ | h7 (mm) | 1231 | | 1231 | | 1231 | | 1231 | | | | | |
| | 4.12 | Towing coupling height | h10 (mm) | 388 | | 388 | | 388 | | 388 | | | | | |
| | 4.19 | Overall length | l1 (mm) | 4130 | | 4130 | | 4130 | | 4130 | | | | | |
| | 4.20 | Length to face of forks | l2 (mm) | 2930 | | 2930 | | 2930 | | 2930 | | | | | |
| | 4.21 | Overall width | b1 (mm) | 1438 | | 1438 | | 1438 | | 1438 | | | | | |
| | 4.22 | Fork dimensions | s/e/l (mm) | 60 | 150 | 1200 | 60 | 150 | 1200 | 60 | 150 | 1200 | 60 | 150 | 1200 |
| | 4.23 | Fork carriage to DIN 15173. Class, A/B | | IVA | | IVA | | IVA | | IVA | | | | | |
| | 4.24 | Fork carriage width ● | b3 (mm) | 1219 | | 1219 | | 1219 | | 1219 | | | | | |
| | 4.31 | Ground clearance under mast, with load | m1 (mm) | 113 | | 113 | | 113 | | 113 | | | | | |
| | 4.32 | Ground clearance at centre of wheelbase | m2 (mm) | 188 | | 188 | | 188 | | 188 | | | | | |
| | 4.33 | Aisle width with pallets 1 000 long x 1 200 wide ◆ | Ast (mm) | 4364 | | 4364 | | 4364 | | 4364 | | | | | |
| | 4.34 | Aisle width with pallets 800 wide x 1 200 long ◆ | Ast (mm) | 4510 | | 4510 | | 4510 | | 4510 | | | | | |
| | 4.35 | Outer turning radius | Wa (mm) | 2585 | | 2585 | | 2585 | | 2585 | | | | | |
| | 4.36 | Inner turning radius | b13 (mm) | 108 | | 108 | | 108 | | 108 | | | | | |
| PERFORMANCE | 5.1 | Travel speed with / without load | km/h | 21.3 | 20.6 | 20.9 | 20.2 | 21.3 | 20.6 | 20.9 | 20.2 | | | | |
| | 5.2 | Lifting speed with / without load | m/sec | 0.53 | 0.53 | 0.48 | 0.49 | 0.53 | 0.53 | 0.45 | 0.49 | | | | |
| | 5.3 | Lowering speed with / without load | m/sec | 0.56 | 0.43 | 0.58 | 0.53 | 0.56 | 0.43 | 0.58 | 0.53 | | | | |
| | 5.5 | Drawbar pull with / without load, @ 1.6 km/h | N | 44500 | 20100 | 45360 | 23090 | 44500 | 19200 | 45360 | 23090 | | | | |
| | 5.6 | Maximum drawbar pull with / without load, | N | 44500 | 20100 | 45360 | 23090 | 44500 | 19200 | 45360 | 23090 | | | | |
| | 5.7 | Gradeability with / without load, @ 4.8 km/h † | % | 17.6 | 24.0 | 15.5 | 24.8 | 16.0 | 21.6 | 13.7 | 23.9 | | | | |
| | 5.8 | Maximum Gradeability with / without load, @ 1.6 km/h † | % | 32.0 | 24.0 | 31.5 | 24.8 | 29.1 | 21.6 | 27.9 | 23.9 | | | | |
| | 5.10 | Service brake | | Hydraulic | | Hydraulic | | Hydraulic | | Hydraulic | | | | | |
| POWER UNIT | 7.1 | Engine manufacturer / type | | GM 4.3L | | Kubota V3800 3.8L | | GM 4.3L | | Kubota V3800 3.8L | | | | | |
| | 7.2 | Engine output, in accordance with ISO1585 | kW | 77 | | 55 | | 77 | | 55 | | | | | |
| | 7.3 | Governed speed | rpm | 2400 | | 2200 | | 2400 | | 2200 | | | | | |
| | 7.4 | Number of cylinders / displacement | cm3 | 6 | 4302 | 4 | 3769 | 6 | 4302 | 4 | 3769 | | | | |
| | 7.5 | Fuel Consumption per VDI test cycle | l/hr (DSL), kg/hr (LPG) | TBC | | 6.36 | | TBC | | 6.85 | | | | | |
| OTHER | 8.1 | Drive control | | Automatic | | Automatic | | Automatic | | Automatic | | | | | |
| | 8.2 | Working pressure for attachments | bar | 153 | | 153 | | 153 | | 153 | | | | | |
| | 8.3 | Oil flow for attachments ✧ | l/min | 83.3 | | 83.3 | | 83.3 | | 83.3 | | | | | |
| | 8.4 | Average noise level at operator's ear $L_{PAZ}$ ✪ | dB(A) | 83 | | 81 | | 83 | | 81 | | | | | |
| | | Guaranteed sound power 2001/14/EC $L_{WAZ}$ | dB | 108 | | 104 | | 108 | | 104 | | | | | |
| | 8.5 | Towing coupling type | | Pin | | Pin | | Pin | | Pin | | | | | |

Specification data is based on VDI 2198

**Equipment and weight:**

Weights (line 2.1) are based on the following specifications:
Complete truck with 3 400 mm 2-stage limited free lift mast, standard carriage, 1 200 mm forks, e-hydraulics, overhead guard and standard cushion drive and steer tyres.

# Truck Dimensions




= Centre of gravity of unladen truck

Ast = $W_a$ + x + $l_6$ + a (see lines 4.33 & 4.34)

a = Minimum operating clearance

(V.D.I. standard = 200 mm BITA recommendation = 300 mm)

$l_6$ = Load length

| Dimensions (mm) | S6.0FT | S7.0FT |
|---|---|---|
| f | 42% | 42% |
| g | 24.9° | 24.9° |
| k | 531 | 531 |
| n ◘ | 1 062 | 1 062 |

**NOTE:**

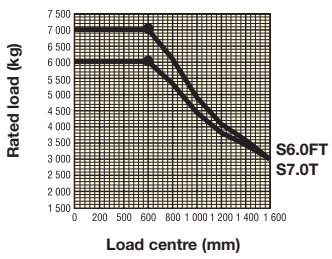
Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.

- ■ Without load backrest
- ✦ h6 subject to +/- 5 mm tolerance
- ◘ Full suspension seat in depressed position
- ¶ Bottom of forks
- ● Add 32 mm with load backrest
- ◆ Stacking aisle width (lines 4.33 & 4.34) are based on the V.D.I. 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 the truck.
- † Gradeability figures (lines 5.7 & 5.8) 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.
- ✧ Variable
- ✪ Measured according to the test cycles and based on the weighting values contained in EN12053

**Mast tables:**

- ▲ With load backrest
- ✖ Without load backrest

# Rated Capacities




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

**Rated load**
Based on vertical masts up to 4 700 mm to top of forks.

**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 adhere to the instructions contained in the Operating Manual.

Hyster products are subject to change without notice. Lift trucks illustrated may feature optional equipment.

**CE Safety:**

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. Please contact your Hyster dealer for information

### Masts S6.0-7.0FT

| | Maximum fork height (mm) | Back tilt | Overall lowered height (mm) | Overall extended height (mm) | Free lift (top of forks) (mm) |
|---|---|---|---|---|---|
| **2-Stage limited free lift** | 2400<br>3400<br>4400 | 10°<br>10°<br>10° | 2197<br>2697<br>3197 | 3632 ▲<br>4632 ▲<br>5632 ▲ | 160 ✖<br>160 ✖<br>160 ✖ |
| **3-Stage full free lift** | 3800<br>4700<br>5600<br>6200 | 6°<br>6°<br>6°<br>6° | 2227<br>2527<br>2827<br>3077 | 5026 ▲<br>5926 ▲<br>6826 ▲<br>7426 ▲ | 995 ✖<br>1295 ✖<br>1595 ✖<br>1845 ✖ |

### S6.0-7.0FT - Capacity Chart in kg @ 500mm Load Centre

| | Maximum fork height (mm) | Cushion Tyres | | | | | |
|---|---|---|---|---|---|---|---|
| | | With standard carriage | | With carriage + sideshift | | With carriage + sideshifting fork positioner | |
| | | S6.0FT | S7/0FT | S6.0FT | S7/0FT | S6.0FT | S7/0FT |
| **2-Stage limited free lift** | 2400<br>3400<br>4400 | 6000<br>6000<br>6000 | 7000<br>7000<br>7000 | 5730<br>5700<br>5650 | 6580<br>6550<br>6490 | 5680<br>5650<br>5600 | 6530<br>6500<br>6440 |
| **3-Stage full free lift** | 3800<br>4700<br>5600 | 6000<br>6000<br>5800 | 7000<br>7000<br>6740 | 5630<br>5600<br>5390 | 6430<br>6400<br>6190 | 5570<br>5550<br>5340 | 6380<br>6350<br>6140 |

Note: 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.

# Product Packages

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

The S6.0-7.0FT 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 | S6.0FT | | | S7.0FT | | |
|---|---|---|---|---|---|---|
| **Diesel** | **Engine** | **Transmission** | **Brakes** | **Engine** | **Transmission** | **Brakes** |
| Fortens | Kubota 3.8L Turbo * | Powershift Transmission 2-speed | Wet | Kubota 3.8L * | Powershift Transmission 2-speed | Wet |
| Fortens Advance | Kubota 3.8L Turbo * | DuraMatch™ Electronic 3-speed | Wet | Kubota 3.8L * | DuraMatch™ Electronic 3-speed | Wet |

| Model / Bundle | S6.0FT | | | S7.0FT | | |
|---|---|---|---|---|---|---|
| **LPG** | **Engine** | **Transmission** | **Brakes** | **Engine** | **Transmission** | **Brakes** |
| Fortens | GM 4.3L V6 | Powershift Transmission 2-speed | Wet | GM 4.3L V6 | Powershift Transmission 2-speed | Wet |
| Fortens Advance | GM 4.3L V6 | DuraMatch™ Electronic 3-speed | Wet | GM 4.3L V6 | DuraMatch™ Electronic 3-speed | Wet |

* The Kubota V3800 3.8L Turbo Diesel engine is equipped with a cooled EGR system, which requires the use of Low (<500ppm) or Ultra-Low (<15ppm) sulphur fuel.

## Product Features

The Standard Fortens model features a 2-speed (2F/2R) Electronic Powershift Transmission, with an optionally available **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 electronically controlled 3-speed (3F/2R) 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 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.

**First Gear** offers **Increased Drawbar Pull** for use on gradients.

**Second & Third Gears** (when available) provide maximum engine efficiency in applications where longer travel distances are common.

The transmissions are compatible with the combicooler 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 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 a new overhead guard design and significantly more floor space.
- The easy-to-use 3-point entry design of operator compartment has an open non-slip step with a height of just 53.1 cm.
- The isolated drivetrain minimises the effect of powertrain vibration.
- The new FLM80 Full Suspension Seat together with the isolated powertrain provide best in class Whole-Body Vibration levels of 0.6m/s$^2$, ensuring that the operator remains comfortable throughout the shift and fatigue, aches and pains are kept to a minimum.
- The new mini-lever armrest features a new contoured design, and - in addition to the hydraulic functions - features a horn and direction switch, ensuring that all key truck functions are within constant, easy reach.
- 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.

- Complete cowl-to-counterweight service access 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.


**Hyster Europe**
**Flagship House, Reading Road North, Fleet, Hants GU51 4WD, England.**
**Tel: +44 (0) 1252 810261**

**www.hyster.eu** **infoeurope@hyster.com** **/HysterEurope** **@HysterEurope** **/HysterEurope**





Form number: 901209/5. Printed in England. TLC/12/11.

A division of NACCO Materials Handling Limited.