FORTENS™

HYSTER

STRONG PARTNERS.
TOUGH TRUCKS.™


# IC COUNTERBALANCED DIESEL LIFT TRUCKS

## H2.0-3.5FT FORTENS / FORTENS ADVANCE / FORTENS ADVANCE+

STAGE IIIB

## 2000-3500 KG

# FORTENS H2.0FT, H2.5FT, H3.0FT, H3.5FT

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DISTINGUISHING MARK | 1.1 | Manufacturer (abbreviation) | HYSTER | | HYSTER | | HYSTER | | HYSTER | | | | | | | |
| | 1.2 | Manufacturer's type designation | H2.0FT | | H2.5FT | | H3.0FT | | H3.5FT | | | | | | | |
| | | Model | Fortens | | Fortens | | Fortens | | Fortens | | | | | | | |
| | | Engine / transmission | Yanmar 2.6L | | Yanmar 2.6L | | Yanmar 2.6L | | Yanmar 3.0L | | | | | | | |
| | | | Basic Powershift | | Basic Powershift | | Basic Powershift | | Basic Powershift | | | | | | | |
| | | | 1-Speed | | 1-Speed | | 1-Speed | | 1-Speed | | | | | | | |
| | | Brake Type | Drum Brakes | | Drum Brakes | | Drum Brakes | | Drum Brakes | | | | | | | |
| | 1.3 | Drive: electric (battery or mains), diesel, petrol, LPG | Diesel | | Diesel | | Diesel | | Diesel | | | | | | | |
| | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | Seated | | Seated | | Seated | | Seated | | | | | | | |
| | 1.5 | Rated capacity/rated load | Q (t) | 2.0 | | 2.5 | | 3.0 | | 3.5 | | | | | | |
| | 1.6 | Load centre distance | c (mm) | 500 | | 500 | | 500 | | 500 | | | | | | |
| | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 471 | | 471 | | 483 | | 483 | | | | | | |
| | 1.9 | Wheelbase | y (mm) | 1623 | | 1623 | | 1623 | | 1700 | | | | | | |
| WEIGHTS | 2.1 | Service weight | kg | 3563 | | 3902 | | 4612 | | 4799 | | | | | | |
| | 2.2 | Axle loading laden, front/rear | kg | 5048 | 516 | 5778 | 624 | 6640 | 972 | 7319 | 980 | | | | | |
| | 2.3 | Axle loading unladen, front/rear | kg | 1851 | 1712 | 1782 | 2120 | 1823 | 2789 | 1797 | 3002 | | | | | |
| TYRES/CHASSIS | 3.1 | Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid | SE | | SE | | SE | | SE | | | | | | | |
| | 3.2 | Tyre size, front | 7.00 x 12 - 12 | | 7.00 x 12 - 12 | | 28 x 9 - 15 | | 28 x 9 - 15 | | | | | | | |
| | 3.3 | Tyre size, rear | 6.00 x 9 | | 6.00 x 9 | | 6.50 x 10 | | 6.50 x 10 | | | | | | | |
| | 3.5 | Number of wheels, front/rear (X = driven ) | 2x | 2 | 2x | 2 | 2x | 2 | 2x | 2 | | | | | | |
| | 3.6 | Tread, front | $b_{10}$ (mm) | 965 | | 965 | | 965 | | 965 | | | | | | |
| | 3.7 | Tread, rear | $b_{11}$ (mm) | 967 | | 967 | | 967 | | 967 | | | | | | |
| DIMENSIONS | 4.1 | Tilt of mast / fork carriage forward / backward | α /β (°) | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | | | | | |
| | 4.2 | Height, mast lowered | $h_1$ (mm) | 2170 | | 2170 | | 2195 | | 2195 | | | | | | |
| | 4.3 | Free lift ¶ | $h_2$ (mm) | 140 | | 140 | | 140 | | 140 | | | | | | |
| | 4.4 | Lift ¶ | $h_3$ (mm) | 3250 | | 3250 | | 3055 | | 3055 | | | | | | |
| | 4.5 | Height, mast extended ✦ | $h_4$ (mm) | 3900 | | 3900 | | 3805 | | 3809 | | | | | | |
| | 4.7 | Height of overhead guard (cabin) ■ | $h_6$ (mm) | 2160 | | 2160 | | 2185 | | 2185 | | | | | | |
| | 4.7.1 | Cab height (open cab) | mm | 2181 | | 2181 | | 2206 | | 2206 | | | | | | |
| | 4.8 | Seat height relating to SIP/stand height ○ | $h_7$ (mm) | 1061 | | 1061 | | 1086 | | 1086 | | | | | | |
| | 4.12 | Coupling height | $h_{10}$ (mm) | 365 | | 365 | | 390 | | 390 | | | | | | |
| | 4.19 | Overall length | $l_1$ (mm) | 3486 | | 3559 | | 3633 | | 3734 | | | | | | |
| | 4.20 | Length to face of forks | $l_2$ (mm) | 2486 | | 2559 | | 2633 | | 2734 | | | | | | |
| | 4.21 | Overall width ✧ | $b_1$ (mm) | 1157 | 1317 | 1601 | 1157 | 1317 | 1601 | 1186 | 1321 | 1601 | 1186 | 1321 | 1601 | |
| | 4.22 | Fork dimensions DIN ISO 2331 | s/e/l (mm) | 40 x 100 x 1000 | | 40 x 100 x 1000 | | 50 x 120 x 1000 | | 50 x 120 x 1000 | | | | | | |
| | 4.23 | Fork carriage ISO 2328, class/type A, B | | II A | | II A | | III A | | III A | | | | | | |
| | 4.24 | Fork carriage width ● | $b_3$ (mm) | 1070 | | 1070 | | 1070 | | 1070 | | | | | | |
| | 4.31 | Ground clearance, laden, below mast | $m_1$ (mm) | 107 | | 107 | | 132 | | 132 | | | | | | |
| | 4.32 | Ground clearance, centre of wheelbase | $m_2$ (mm) | 160 | | 160 | | 185 | | 185 | | | | | | |
| | 4.34.1 | Aisle width for pallets 1000 × 1200 crossways ◆ | $A_{st}$ (mm) | 3820 | | 3887 | | 3960 | | 4063 | | | | | | |
| | 4.34.2 | Aisle width for pallets 800 × 1200 lengthways ◆ | $A_{st}$ (mm) | 4020 | | 4087 | | 4160 | | 4263 | | | | | | |
| | 4.35 | Turning radius | $W_a$ (mm) | 2149 | | 2216 | | 2277 | | 2380 | | | | | | |
| | 4.36 | Internal turning radius | $b_{13}$ (mm) | 629 | | 629 | | 618 | | 647 | | | | | | |
| | 4.41 | 90° intersecting aisle (with pallet W = 1200mm, L = 1000mm) | | 1987 | | 2020 | | 2077 | | 2111 | | | | | | |
| | 4.42 | Step height (from ground to running board) | (mm) | 707 | | 707 | | 727 | | 727 | | | | | | |
| | 4.43 | Step height (between intermediate steps between running board and floor) | (mm) | 382 | | 382 | | 407 | | 407 | | | | | | |
| PERFORMANCE DATA | 5.1 | Travel speed, laden/unladen | km/h | 16.9 | 18.0 | 16.9 | 18.0 | 18.2 | 19.1 | 21.1 | 21.4 | | | | | |
| | 5.1.1 | Travel speed, laden/unladen, backwards | km/h | 16.9 | 18.0 | 16.9 | 18.0 | 18.2 | 19.1 | 16.2 | 16.6 | | | | | |
| | 5.2 | Lift speed, laden/unladen | m/s | 0.66 | 0.71 | 0.61 | 0.71 | 0.47 | 0.62 | 0.52 | 0.56 | | | | | |
| | 5.3 | Lowering speed, laden/unladen | m/s | 0.58 | 0.50 | 0.58 | 0.50 | 0.53 | 0.47 | 0.53 | 0.47 | | | | | |
| | 5.5 | Drawbar pull, laden/unladen ■ | N | 17440 | 11570 | 17440 | 11450 | 16354 | 11708 | 19700 | 11400 | | | | | |
| | 5.7 | Gradeability, laden/unladen † | % | 21.3 | 34.2 | 21.0 | 29.3 | 15.0 | 26.6 | 16.1 | 24.3 | | | | | |
| | 5.9 | Acceleration time, laden/unladen | s | 5.5 | 4.9 | 6.0 | 5.0 | 6.2 | 5.3 | 6.2 | 5.3 | | | | | |
| | 5.10 | Service brake | | Hydraulic | | Hydraulic | | Hydraulic | | Hydraulic | | | | | | |
| COMBUSTION ENGINE | 7.1 | Engine manufacturer / type | | Yanmar 4TNE92 | | Yanmar 4TNE92 | | Yanmar 4TNE92 | | Yanmar 4TNE94L | | | | | | |
| | 7.2 | Engine power according to ISO 1585 | kW | 33.9 | | 33.9 | | 33.9 | | 34.2 | | | | | | |
| | 7.3 | Rated speed | min–1 | 2700 | | 2700 | | 2700 | | 2450 | | | | | | |
| | 7.4 | Number of cylinders/displacement | (-)/cm³ | 4 | 2659 | 4 | 2659 | 4 | 2659 | 4 | 3054 | | | | | |
| | 7.5 | Fuel consumtion according to VDI cycle ◉ | l/h or kg/h | 2.7 | | 3.0 | | 3.3 | | 3.8 | | | | | | |
| ADDITIONAL DATA | 8.1 | Type of drive unit | | Automatic | | Automatic | | Automatic | | Automatic | | | | | | |
| | 10.1 | Operating pressure for attachments | bar | 0 - 155 | | 0 - 155 | | 0 - 155 | | 0 - 155 | | | | | | |
| | 10.2 | Oil volume for attachments ✧ | l/min | 75 | | 75 | | 75 | | 75 | | | | | | |
| | 10.3 | Hydraulic oil tank, capacity | litres | 45.8 | | 45.8 | | 45.8 | | 45.8 | | | | | | |
| | 10.4 | Fuel tank, capacity | litres | 52.8 | | 52.8 | | 52.8 | | 52.8 | | | | | | |
| | 10.7 | Sound pressure level at the driver's seat ◇ | dB(A) | 79 | | 79 | | 79 | | 79 | | | | | | |
| | 10.7.1 | Sound power level during the workcycle ◈ | dB(A) | 99 | | 99 | | 99 | | 99 | | | | | | |
| | 10.7.2 | Guaranteed sound power 2000/14/EC | dB(A) | 102 | | 102 | | 102 | | 102 | | | | | | |
| | 10.8 | 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: 3290mm(H 2.0-2.5 FT) / 3105mm(H 3.0-3.5 FT) TOF 2 stage LFL mast with standard carriage, 1000mm forks with manual levers.



# FORTENS ADVANCE H2.0FT, H2.5FT, H3.0FT, H3.5FT

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DISTINGUISHING MARK | 1.1 | Manufacturer (abbreviation) | HYSTER | | HYSTER | | HYSTER | | HYSTER | | | | | | | |
| | 1.2 | Manufacturer's type designation | H2.0FT | | H2.0FT | | H2.5FT | | H2.5FT | | | | | | | |
| | | Model | Fortens Advance | | Fortens Advance | | Fortens Advance | | Fortens Advance | | | | | | | |
| | | Engine / transmission | Yanmar 2.6L | | Yanmar 3.0L | | Yanmar 2.6L | | Yanmar 3.0L | | | | | | | |
| | | | DuraMatch™ | | DuraMatch™ 2 | | DuraMatch™ | | DuraMatch™ 2 | | | | | | | |
| | | | 1-Speed | | 2-Speed | | 1-Speed | | 2-Speed | | | | | | | |
| | | Brake Type | ADS Drum or Wet Brakes | | Wet Brakes | | ADS Drum or Wet Brakes | | Wet Brakes | | | | | | | |
| | 1.3 | Drive: electric (battery or mains), diesel, petrol, LPG | Diesel | | Diesel | | Diesel | | Diesel | | | | | | | |
| | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | Seated | | Seated | | Seated | | Seated | | | | | | | |
| | 1.5 | Rated capacity/rated load | Q (t) | 2.0 | | 2.0 | | 2.5 | | 2.5 | | | | | | |
| | 1.6 | Load centre distance | c (mm) | 500 | | 500 | | 500 | | 500 | | | | | | |
| | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 471 | | 471 | | 471 | | 471 | | | | | | |
| | 1.9 | Wheelbase | y (mm) | 1623 | | 1623 | | 1623 | | 1623 | | | | | | |
| WEIGHTS | 2.1 | Service weight | kg | 3902 | | 3563 | | 4612 | | 3902 | | | | | | |
| | 2.2 | Axle loading laden, front/rear | kg | 5778 | 624 | 5048 | 516 | 6640 | 972 | 5778 | 624 | | | | | |
| | 2.3 | Axle loading unladen, front/rear | kg | 1872 | 2120 | 1851 | 1712 | 1823 | 2789 | 1782 | 2120 | | | | | |
| TYRES/CHASSIS | 3.1 | Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid | SE | | SE | | SE | | SE | | | | | | | |
| | 3.2 | Tyre size, front | 7.00 x 12 - 12 | | 7.00 x 12 - 12 | | 7.00 x 12 - 12 | | 7.00 x 12 - 12 | | | | | | | |
| | 3.3 | Tyre size, rear | 6.00 x 9 | | 6.00 x 9 | | 6.00 x 9 | | 6.00 x 9 | | | | | | | |
| | 3.5 | Number of wheels, front/rear (X = driven ) | 2x | 2 | 2x | 2 | 2x | 2 | 2x | 2 | | | | | | |
| | 3.6 | Tread, front | $b_{10}$ (mm) | 965 | | 965 | | 965 | | 965 | | | | | | |
| | 3.7 | Tread, rear | $b_{11}$ (mm) | 967 | | 967 | | 967 | | 967 | | | | | | |
| DIMENSIONS | 4.1 | Tilt of mast / fork carriage forward / backward | α /β (°) | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 | | | | | |
| | 4.2 | Height, mast lowered | $h_1$ (mm) | 2170 | | 2170 | | 2170 | | 2170 | | | | | | |
| | 4.3 | Free lift ¶ | $h_2$ (mm) | 140 | | 140 | | 140 | | 140 | | | | | | |
| | 4.4 | Lift ¶ | $h_3$ (mm) | 3250 | | 3250 | | 3250 | | 3250 | | | | | | |
| | 4.5 | Height, mast extended ✦ | $h_4$ (mm) | 3900 | | 3900 | | 3900 | | 3900 | | | | | | |
| | 4.7 | Height of overhead guard (cabin) ■ | $h_6$ (mm) | 2160 | | 2160 | | 2160 | | 2160 | | | | | | |
| | 4.7.1 | Cab height (open cab) | mm | 2181 | | 2181 | | 2181 | | 2181 | | | | | | |
| | 4.8 | Seat height relating to SIP/stand height ○ | $h_7$ (mm) | 1061 | | 1061 | | 1061 | | 1061 | | | | | | |
| | 4.12 | Coupling height | $h_{10}$ (mm) | 365 | | 365 | | 365 | | 365 | | | | | | |
| | 4.19 | Overall length | $l_1$ (mm) | 3486 | | 3486 | | 3559 | | 3559 | | | | | | |
| | 4.20 | Length to face of forks | $l_2$ (mm) | 2486 | | 2486 | | 2559 | | 2559 | | | | | | |
| | 4.21 | Overall width ✧ | $b_1$ (mm) | 1157 | 1317 | 1601 | 1157 | 1317 | 1601 | 1157 | 1317 | 1601 | 1157 | 1317 | 1601 | |
| | 4.22 | Fork dimensions DIN ISO 2331 | s/e/l (mm) | 40 x 100 x 1000 | | 40 x 100 x 1000 | | 40 x 100 x 1000 | | 40 x 100 x 1000 | | | | | | |
| | 4.23 | Fork carriage ISO 2328, class/type A, B | | II A | | II A | | II A | | II A | | | | | | |
| | 4.24 | Fork carriage width ● | $b_3$ (mm) | 1070 | | 1070 | | 1070 | | 1070 | | | | | | |
| | 4.31 | Ground clearance, laden, below mast | $m_1$ (mm) | 107 | | 107 | | 107 | | 107 | | | | | | |
| | 4.32 | Ground clearance, centre of wheelbase | $m_2$ (mm) | 160 | | 160 | | 160 | | 160 | | | | | | |
| | 4.34.1 | Aisle width for pallets 1000 × 1200 crossways ◆ | $A_{st}$ (mm) | 3820 | | 3820 | | 3887 | | 3820 | | | | | | |
| | 4.34.2 | Aisle width for pallets 800 × 1200 lengthways ◆ | $A_{st}$ (mm) | 4020 | | 4020 | | 4087 | | 4020 | | | | | | |
| | 4.35 | Turning radius | $W_a$ (mm) | 2149 | | 2149 | | 2216 | | 2149 | | | | | | |
| | 4.36 | Internal turning radius | $b_{13}$ (mm) | 629 | | 629 | | 629 | | 629 | | | | | | |
| | 4.41 | 90° intersecting aisle (with pallet W = 1200mm, L = 1000mm) | | 1987 | | 1987 | | 2020 | | 2020 | | | | | | |
| | 4.42 | Step height (from ground to running board) | (mm) | 702 | | 702 | | 702 | | 702 | | | | | | |
| | 4.43 | Step height (between intermediate steps between running board and floor) | (mm) | 382 | | 382 | | 382 | | 382 | | | | | | |
| PERFORMANCE DATA | 5.1 | Travel speed, laden/unladen | km/h | 16.9 | 18.0 | 19.1 | 19.8 | 16.9 | 18.0 | 19.1 | 19.8 | 18.2 | 19.1 | 21.1 | 21.4 | 21.1 | 21.4 | |
| | 5.1.1 | Travel speed, laden/unladen, backwards | km/h | 16.9 | 18.0 | 14.7 | 15.2 | 16.9 | 18.0 | 14.7 | 15.2 | 18.2 | 19.1 | 16.2 | 16.6 | 16.2 | 16.6 | |
| | 5.2 | Lift speed, laden/unladen | m/s | 0.62 | 0.65 | 0.61 | 0.64 | 0.59 | 0.65 | 0.61 | 0.64 | 0.51 | 0.57 | 0.52 | 0.56 | 0.52 | 0.56 | |
| | 5.3 | Lowering speed, laden/unladen | m/s | 0.58 | 0.50 | 0.58 | 0.50 | 0.58 | 0.50 | 0.58 | 0.50 | 0.53 | 0.47 | 0.53 | 0.47 | 0.53 | 0.47 | |
| | 5.5 | Drawbar pull, laden/unladen ■ | N | 17440 | 11570 | 21900 | 11450 | 17440 | 11450 | 21750 | 11450 | 16354 | 11708 | 19850 | 11400 | 19700 | 11400 | |
| | 5.7 | Gradeability, laden/unladen † | % | 21.3 | 34.2 | 25.5 | 32.7 | 21.0 | 29.3 | 22.3 | 28.7 | 15.0 | 26.6 | 18.2 | 26.5 | 16.1 | 24.3 | |
| | 5.9 | Acceleration time, laden/unladen | s | 5.5 | 4.9 | 5.4 | 4.8 | 6.0 | 5.0 | 5.7 | 5.0 | 6.2 | 5.3 | 5.9 | 5.2 | 6.2 | 5.3 | |
| | 5.10 | Service brake | | Hydraulic | | Hydraulic | | Hydraulic | | Hydraulic | | Hydraulic | | Hydraulic | | Hydraulic | | |
| COMBUSTION ENGINE | 7.1 | Engine manufacturer / type | | Yanmar 4TNE92 | | Yanmar 4TNE94L | | Yanmar 4TNE92 | | Yanmar 4TNE94L | | Yanmar 4TNE92 | | Yanmar 4TNE94L | | Yanmar 4TNE94L | | |
| | 7.2 | Engine power according to ISO 1585 | kW | 33.9 | | 34.2 | | 33.9 | | 34.2 | | 33.9 | | 34.2 | | 34.2 | | |
| | 7.3 | Rated speed | min–1 | 2700 | | 2450 | | 2700 | | 2450 | | 2700 | | 2450 | | 2450 | | |
| | 7.4 | Number of cylinders/displacement | (-)/cm³ | 4 | 2659 | 4 | 3054 | 4 | 2659 | 4 | 3054 | 4 | 2659 | 4 | 3054 | 4 | 3054 | |
| | 7.5 | Fuel consumtion according to VDI cycle ◉ | l/h or kg/h | 2.7 | | 2.9 | | 3.0 | | 2.9 | | 3.3 | | 3.5 | | 3.8 | | |
| ADDITIONAL DATA | 8.1 | Type of drive unit | | Automatic | | Automatic | | Automatic | | Automatic | | Automatic | | Automatic | | Automatic | | |
| | 10.1 | Operating pressure for attachments | bar | 0 - 155 | | 0 - 155 | | 0 - 155 | | 0 - 155 | | 0 - 155 | | 0 - 155 | | 0 - 155 | | |
| | 10.2 | Oil volume for attachments ✧ | l/min | 75 | | 75 | | 75 | | 75 | | 75 | | 75 | | 75 | | |
| | 10.3 | Hydraulic oil tank, capacity | litres | 45.8 | | 45.8 | | 45.8 | | 45.8 | | 45.8 | | 45.8 | | 45.8 | | |
| | 10.4 | Fuel tank, capacity | litres | 52.8 | | 52.8 | | 52.8 | | 52.8 | | 52.8 | | 52.8 | | 52.8 | | |
| | 10.7 | Sound pressure level at the driver's seat ◇ | dB(A) | 79 | | 79 | | 79 | | 79 | | 79 | | 79 | | 79 | | |
| | 10.7.1 | Sound power level during the workcycle ◈ | dB(A) | 99 | | 99 | | 99 | | 99 | | 99 | | 99 | | 99 | | |
| | 10.7.2 | Guaranteed sound power 2000/14/EC | dB(A) | 102 | | 102 | | 102 | | 102 | | 102 | | 102 | | 102 | | |
| | 10.8 | Towing coupling type | | Pin | | Pin | | Pin | | Pin | | Pin | | Pin | | Pin | | |

Specification data is based on VDI 2198.

**EQUIPMENT AND WEIGHT:**
Weights (line 2.1) are based on the following specifications: 3290mm(H 2.0-2.5 FT) / 3105mm(H 3.0-3.5 FT) tof 2 stage LFL mast with standard carriage, 1000mm forks with e-hydraulics. For Fortens Advance trucks fitted with manual levers, the values for lines 5.2 and 7.5 are as on the Fortens VDI table.

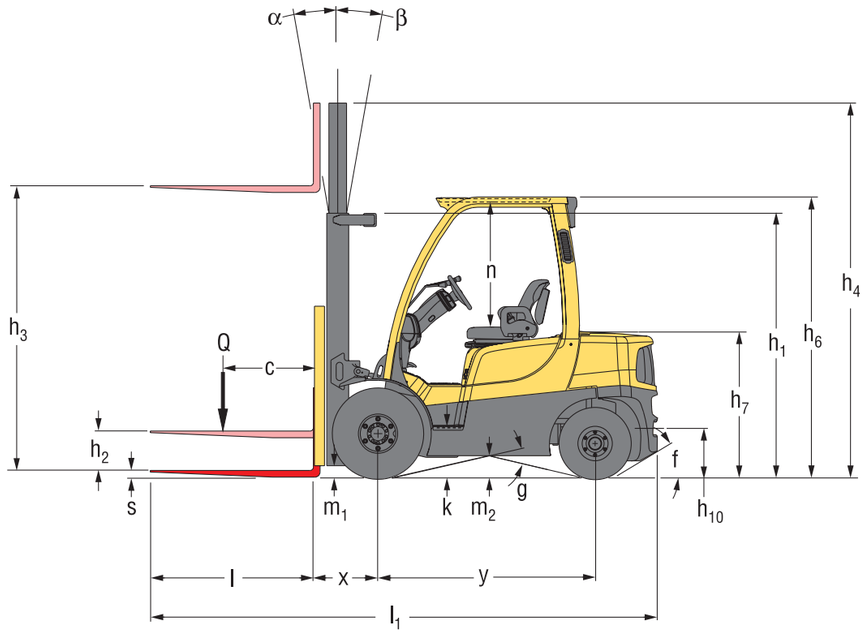
# FORTENS ADVANCE+ H2.0FT, H2.5FT, H3.0FT, H3.5FT

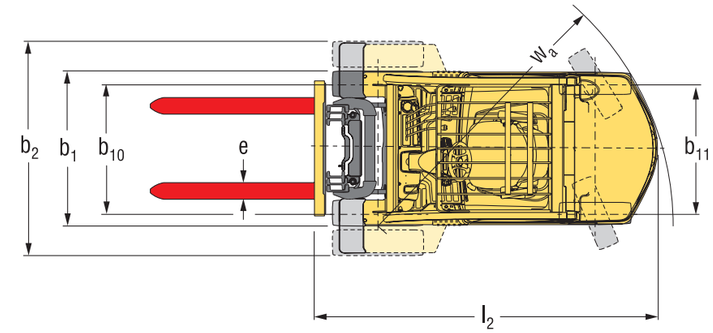
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DISTINGUISHING MARK | 1.1 | Manufacturer (abbreviation) | HYSTER | | HYSTER | | HYSTER | | HYSTER | |
| | 1.2 | Manufacturer's type designation | H2.0FT | | H2.5FT | | H3.0FT | | H3.5FT | |
| | | Model | Fortens Advance + | | Fortens Advance + | | Fortens Advance + | | Fortens Advance + | |
| | | Engine / transmission | Kubota 2.4L DuraMatch™ 2 | | Kubota 2.4L DuraMatch™ 2 | | Kubota 2.4L DuraMatch™ 2 | | Kubota 2.4L DuraMatch™ 2 | |
| | | Brake Type | 2-Speed Wet Brakes | | 2-Speed Wet Brakes | | 2-Speed Wet Brakes | | 2-Speed Wet Brakes | |
| | 1.3 | Drive: electric (battery or mains), diesel, petrol, LPG | Diesel | | Diesel | | Diesel | | Diesel | |
| | 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | Seated | | Seated | | Seated | | Seated | |
| | 1.5 | Rated capacity/rated load Q (t) | 2.0 | | 2.5 | | 3.0 | | 3.5 | |
| | 1.6 | Load centre distance c (mm) | 500 | | 500 | | 500 | | 500 | |
| | 1.8 | Load distance, centre of drive axle to fork x (mm) | 471 | | 471 | | 483 | | 483 | |
| | 1.9 | Wheelbase y (mm) | 1623 | | 1623 | | 1623 | | 1700 | |
| WEIGHTS | 2.1 | Service weight kg | 3563 | | 3902 | | 4612 | | 4799 | |
| | 2.2 | Axle loading laden, front/rear kg | 5048 | 516 | 5778 | 624 | 6640 | 972 | 7319 | 980 |
| | 2.3 | Axle loading unladen, front/rear kg | 1851 | 1712 | 1782 | 2120 | 1823 | 2789 | 1797 | 3002 |
| TYRES/CHASSIS | 3.1 | Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid | SE | | SE | | SE | | SE | |
| | 3.2 | Tyre size, front | 7.00 x 12 - 12 | | 7.00 x 12 - 12 | | 28 x 9 - 15 | | 28 x 9 - 15 | |
| | 3.3 | Tyre size, rear | 6.00 x 9 | | 6.00 x 9 | | 6.50 x 10 | | 6.50 x 10 | |
| | 3.5 | Number of wheels, front/rear (X = driven ) | 2x | 2 | 2x | 2 | 2x | 2 | 2x | 2 |
| | 3.6 | Tread, front $b_{10}$ (mm) | 965 | | 965 | | 965 | | 965 | |
| | 3.7 | Tread, rear $b_{11}$ (mm) | 967 | | 967 | | 967 | | 967 | |
| DIMENSIONS | 4.1 | Tilt of mast / fork carriage forward / backward α /β (°) | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 5 |
| | 4.2 | Height, mast lowered $h_1$ (mm) | 2170 | | 2170 | | 2195 | | 2195 | |
| | 4.3 | Free lift ¶ $h_2$ (mm) | 140 | | 140 | | 140 | | 140 | |
| | 4.4 | Lift ¶ $h_3$ (mm) | 3250 | | 3250 | | 3055 | | 3055 | |
| | 4.5 | Height, mast extended ✦ $h_4$ (mm) | 3900 | | 3900 | | 3805 | | 3805 | |
| | 4.7 | Height of overhead guard (cabin) ■ $h_6$ (mm) | 2160 | | 2160 | | 2185 | | 2185 | |
| | 4.7.1 | Cab height (open cab) mm | 2181 | | 2181 | | 2206 | | 2206 | |
| | 4.8 | Seat height relating to SIP/stand height ○ $h_7$ (mm) | 1061 | | 1061 | | 1086 | | 1086 | |
| | 4.12 | Coupling height $h_{10}$ (mm) | 365 | | 365 | | 390 | | 390 | |
| | 4.19 | Overall length $l_1$ (mm) | 3486 | | 3559 | | 3633 | | 3734 | |
| | 4.20 | Length to face of forks $l_2$ (mm) | 2486 | | 2559 | | 2633 | | 2734 | |
| | 4.21 | Overall width ✧ $b_1$ (mm) | 1157 | 1317 1601 | 1157 | 1317 1601 | 1186 | 1321 1601 | 1186 | 1321 1601 |
| | 4.22 | Fork dimensions DIN ISO 2331 s/e/l (mm) | 40 x 100 x 1000 | | 40 x 100 x 1000 | | 50 x 120 x 1000 | | 50 x 120 x 1000 | |
| | 4.23 | Fork carriage ISO 2328, class/type A, B | II A | | II A | | III A | | III A | |
| | 4.24 | Fork carriage width ● $b_3$ (mm) | 1070 | | 1070 | | 1070 | | 1070 | |
| | 4.31 | Ground clearance, laden, below mast $m_1$ (mm) | 107 | | 107 | | 132 | | 132 | |
| | 4.32 | Ground clearance, centre of wheelbase $m_2$ (mm) | 160 | | 160 | | 185 | | 185 | |
| | 4.34.1 | Aisle width for pallets 1000 × 1200 crossways ◆ $A_{st}$ (mm) | 3820 | | 3820 | | 3960 | | 4063 | |
| | 4.34.2 | Aisle width for pallets 800 × 1200 lengthways ◆ $A_{st}$ (mm) | 4020 | | 4020 | | 4160 | | 4263 | |
| | 4.35 | Turning radius $W_a$ (mm) | 2149 | | 2149 | | 2277 | | 2380 | |
| | 4.36 | Internal turning radius $b_{13}$ (mm) | 629 | | 629 | | 618 | | 647 | |
| | 4.41 | 90° intersecting aisle (with pallet W = 1200mm, L = 1000mm) | 1987 | | 2020 | | 2077 | | 2111 | |
| | 4.42 | Step height (from ground to running board) (mm) | 702 | | 702 | | 727 | | 727 | |
| | 4.43 | Step height (between intermediate steps between running board and floor) (mm) | 382 | | 382 | | 407 | | 407 | |
| PERFORMANCE DATA | 5.1 | Travel speed, laden/unladen km/h | 20.4 | 20.4 | 20.4 | 20.4 | 21.6 | 22.0 | 21.6 | 22.0 |
| | 5.1.1 | Travel speed, laden/unladen, backwards km/h | 15.7 | 15.9 | 15.7 | 15.9 | 16.9 | 17.1 | 16.9 | 17.1 |
| | 5.2 | Lift speed, laden/unladen m/s | 0.62 | 0.64 | 0.61 | 0.64 | 0.54 | 0.56 | 0.53 | 0.56 |
| | 5.3 | Lowering speed, laden/unladen m/s | 0.58 | 0.50 | 0.58 | 0.50 | 0.53 | 0.47 | 0.53 | 0.47 |
| | 5.5 | Drawbar pull, laden/unladen ■ N | 21800 | 11450 | 21800 | 11450 | 21800 | 10800 | 21800 | 10600 |
| | 5.7 | Gradeability, laden/unladen † % | 37.1 | 32.7 | 31.4 | 28.7 | 24.9 | 26.1 | 22.4 | 23.9 |
| | 5.9 | Acceleration time, laden/unladen s | 5.9 | 5.5 | 6.1 | 5.5 | 6.4 | 5.6 | 6.7 | 5.7 |
| | 5.10 | Service brake | Hydraulic | | Hydraulic | | Hydraulic | | Hydraulic | |
| COMBUSTION ENGINE | 7.1 | Engine manufacturer / type | Kubota FKBXL02.4EMD | | Kubota FKBXL02.4EMD | | Kubota FKBXL02.4EMD | | Kubota FKBXL02.4EMD | |
| | 7.2 | Engine power according to ISO 1585 kW | 43.2 | | 43.2 | | 43.2 | | 43.2 | |
| | 7.3 | Rated speed min–1 | 2400 | | 2400 | | 2400 | | 2400 | |
| | 7.4 | Number of cylinders/displacement (-)/cm³ | 4 | 2434 | 4 | 2434 | 4 | 2434 | 4 | 2434 |
| | 7.5 | Fuel consumtion according to VDI cycle ◉ l/h or kg/h | 2.3 | | 2.6 | | 3.1 | | 3.4 | |
| ADDITIONAL DATA | 8.1 | Type of drive unit | Automatic | | Automatic | | Automatic | | Automatic | |
| | 10.1 | Operating pressure for attachments bar | 0 - 155 | | 0 - 155 | | 0 - 155 | | 0 - 155 | |
| | 10.2 | Oil volume for attachments ✧ l/min | 75 | | 75 | | 75 | | 75 | |
| | 10.3 | Hydraulic oil tank, capacity litres | 45.8 | | 45.8 | | 45.8 | | 45.8 | |
| | 10.4 | Fuel tank, capacity litres | 52.8 | | 52.8 | | 52.8 | | 52.8 | |
| | 10.7 | Sound pressure level at the driver's seat ◇ dB(A) | 78 | | 78 | | 78 | | 78 | |
| | 10.7.1 | Sound power level during the workcycle ◈ dB(A) | 97 | | 97 | | 97 | | 97 | |
| | 10.7.2 | Guaranteed sound power 2000/14/EC dB(A) | 101 | | 101 | | 101 | | 101 | |
| | 10.8 | 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: 3290mm(H 2.0-2.5 FT) / 3105mm(H 3.0-3.5 FT) tof 2 stage LFL mast with standard carriage, 1000mm forks with e-hydraulics.

# TRUCK DIMENSIONS




= Centre of gravity of unladen truck

Ast = $W_a$ + x + $l_6$ + a (see lines 4.34.1 & 4.34.2)

a = Minimum operating clearance

(VDI standard = 200 mm BITA recommendation = 300 mm)

$l_6$ = Load length

| Dimensions (mm) | H2.0FT | H2.5FT | H3.0FT | H3.5FT |
|---|---|---|---|---|
| f | 47% | 47% | 47% | 47% |
| g | 20.9' | 20.9' | 20.9' | 20.9' |
| k | 371 | 371 | 371 | 371 |
| n | 1041 | 1041 | 1041 | 1041 |

# MAST AND CAPACITY INFORMATION

## H2.0-2.5FT MASTS

| | 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 | **3290** | 5° | 2170 | 4515 ❖ | 140 ▽ |
| | **3790** | 5° | 2420 | 5015 ❖ | 140 ▽ |
| | **4330** | 5° | 2770 | 5555 ❖ | 140 ▽ |
| | **4830** | 5° | 3020 | 6055 ❖ | 140 ▽ |
| 2-stage Full Free Lift | **3300** | 5° | 2170 | 4525 ❖ | 1555 ▽ |
| 3-stage Full Free Lift | **4350** | 5° | 1970 | 5570 ❖ | 1380 ▽ |
| | **4950** | 5° | 2170 | 6170 ❖ | 1580 ▽ |
| | **5550** | 5° | 2420 | 6770 ❖ | 1830 ▽ |
| | **6000** | 5° | 2620 | 7220 ❖ | 2030 ▽ |

## H3.0-3.5FT MASTS

| | 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 | **3105** | 5° | 2195 | 4335 ❖ | 150 ▽ |
| | **3605** | 5° | 2445 | 4835 ❖ | 150 ▽ |
| | **4105** | 5° | 2795 | 5335 ❖ | 150 ▽ |
| | **4605** | 5° | 3045 | 5835 ❖ | 150 ▽ |
| 2-stage Full Free Lift | **3110** | 5° | 2195 | 4335 ❖ | 1495 ▽ |
| 3-stage Full Free Lift | **4015** | 5° | 1995 | 5245 ❖ | 1315 ▽ |
| | **4615** | 5° | 2195 | 5845 ❖ | 1515 ▽ |
| | **4915** | 5° | 2345 | 6145 ❖ | 1665 ▽ |
| | **5215** | 5° | 2445 | 6445 ❖ | 1765 ▽ |
| | **5815** | 5° | 2695 | 7045 ❖ | 2015 ▽ |

**H2.0-3.5FT** - Capacity Chart in kg @ 500mm Load Centre

| Pneumatic Shaped Solid Tyres | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Maximum fork height (mm) | Without sideshift | | With ISS & FP | | Maximum fork height (mm) | Without sideshift | | With ISS & FP | |
| | | H2.0FT | H2.5FT | H2.0FT | H2.5FT | | H3.0FT | H3.5FT | H3.0FT | H3.5FT |
| 2-stage Limited Free Lift | **3290** | 2000 | 2500 | 2000 | 2500 | **3105** | 3000 | 3500 | 2970 | 3490 |
| | **3790** | 2000 | 2500 | 2000 | 2500 | **3605** | 3000 | 3500 | 2950 | 3480 |
| | **4330** | 2000 | 2500 | 1990 | 2480 | **4105** | 3000 | 3500 | 2940 | 3460 |
| | **4830** | 1910 | 2400 | 1890 | 2370 | **4605** | 2890 | 3390 | 2830 | 3340 |
| 2-stage Full Free Lift | **3300** | 2000 | 2500 | 2000 | 2500 | **3110** | 3000 | 3500 | 2960 | 3490 |
| 3-stage Full Free Lift | **4350** | 2000 | 2500 | 1970 | 2500 | **4015** | 3000 | 3500 | 2930 | 3460 |
| | **4950** | 1890 | 2370 | 1850 | 2370 | **4615** | 2900 | 3400 | 2830 | 3350 |
| | **5550** | 1760 | 2240 ◖ | 1720 | 2220 ◖ | **4915** | 2840 | 3320 ◖ | 2760 | 3260 |
| | **6000** | 1660 | 2120 ◖ | 1600 | 2090 ◖ | **5215** | 2740 | 3250 ◖ | 2680 | 3180 ◖ |
| | | | | | | **5815** | 2610 ◖ | 2950 ◖ | 2510 ◖ | 2970 ◖ |

**H2.0-3.5FT** - Capacity Chart in kg @ 600mm Load Centre

| Pneumatic Shaped Solid Tyres | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Maximum fork height (mm) | Without sideshift | | With ISS & FP | | Maximum fork height (mm) | Without sideshift | | With ISS & FP | |
| | | H2.0FT | H2.5FT | H2.0FT | H2.5FT | | H3.0FT | H3.5FT | H3.0FT | H3.5FT |
| 2-stage Limited Free Lift | **3290** | 1920 | 2370 | 1840 | 2280 | **3105** | 2820 | 3310 | 2700 | 3180 |
| | **3790** | 1910 | 2360 | 1830 | 2270 | **3605** | 2810 | 3300 | 2690 | 3170 |
| | **4330** | 1890 | 2350 | 1810 | 2250 | **4105** | 2790 | 3290 | 2670 | 3150 |
| | **4830** | 1800 | 2240 | 1720 | 2150 | **4605** | 2690 | 3170 | 2570 | 3040 |
| 2-stage Full Free Lift | **3300** | 1920 | 2380 | 1840 | 2280 | **3110** | 2820 | 3310 | 2700 | 3180 |
| 3-stage Full Free Lift | **4350** | 1880 | 2380 | 1790 | 2280 | **4015** | 2800 | 3290 | 2670 | 3150 |
| | **4950** | 1760 | 2250 | 1690 | 2160 | **4615** | 2700 | 3190 | 2580 | 3050 |
| | **5550** | 1630 | 2110 ◖ | 1570 | 2020 ◖ | **4915** | 2630 | 3110 ◖ | 2510 | 2980 |
| | **6000** | 1530 | 1990 ◖ | 1460 | 1900 ◖ | **5215** | 2560 | 3030 ◖ | 2440 | 2900 ◖ |
| | | | | | | **5815** | 2400 ◖ | 2860 ◖ | 2290 ◖ | 2730 ◖ |

**H2.0-3.5FT** - Capacity Chart in kg @ 500mm Load Centre

| Pneumatic Radial Tyres | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Maximum fork height (mm) | Without sideshift | | With ISS & FP | | Maximum fork height (mm) | Without sideshift | | With ISS & FP | |
| | | H2.0FT | H2.5FT | H2.0FT | H2.5FT | | H3.0FT | H3.5FT | H3.0FT | H3.5FT |
| 2-stage Limited Free Lift | **3290** | 2000 | 2500 | 2000 | 2500 | **3105** | 3000 | 3500 | 2970 | 3490 |
| | **3790** | 2000 | 2500 | 2000 | 2500 | **3605** | 3000 | 3500 | 2950 | 3480 |
| | **4330** | 2000 | 2500 | 1990 | 2480 | **4105** | 3000 | 3500 | 2940 | 3460 |
| | **4830** | 1900 | 2390 ◖ | 1890 | 2360 ◖ | **4605** | 2890 | 3340 | 2820 | 3340 |
| 2-stage Full Free Lift | **3300** | 2000 | 2500 | 2000 | 2500 | **3110** | 3000 | 3500 | 2960 | 3490 |
| 3-stage Full Free Lift | **4350** | 2000 | 2500 ◖ | 1970 | 2500 ◖ | **4015** | 3000 | 3500 ◖ | 2930 | 3430 |
| | **4950** | 1880 ◖ | 2370 ◖ | 1850 ◖ | 2370 ◖ | **4615** | 2900 ◖ | 3400 ◖ | 2830 ◖ | 3350 ◖ |
| | **5550** | 1760 ◖ | 2240 ✖ | 1710 ◖ | 2220 ✖ | **4915** | 2830 ◖ | 3330 ✖ | 2750 ◖ | 3270 ✖ |
| | **6000** | 1650 ◖ | 2130 ✖ | 1600 ◖ | 2100 ✖ | **5215** | 2760 ◖ | 3250 ✖ | 2680 ◖ | 3190 ✖ |
| | | | | | | **5815** | 2610 ✖ | 3080 ✖ | 2510 ✖ | 3000 ✖ |

**H2.0-3.5FT** - Capacity Chart in kg @ 600mm Load Centre

| Pneumatic Radial Tyres | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Maximum fork height (mm) | Without sideshift | | With ISS & FP | | Maximum fork height (mm) | Without sideshift | | With ISS & FP | |
| | | H2.0FT | H2.5FT | H2.0FT | H2.5FT | | H3.0FT | H3.5FT | H3.0FT | H3.5FT |
| 2-stage Limited Free Lift | **3290** | 1920 | 2370 | 1840 | 2280 | **3105** | 2820 | 3310 | 2700 | 3180 |
| | **3790** | 1910 | 2360 | 1830 | 2270 | **3605** | 2810 | 3300 | 2690 | 3170 |
| | **4330** | 1890 | 2350 | 1810 | 2250 | **4105** | 2790 | 3290 | 2670 | 3150 |
| | **4830** | 1790 | 2240 ◖ | 1720 | 2150 ◖ | **4605** | 2690 | 3170 | 2570 | 3040 |
| 2-stage Full Free Lift | **3300** | 1920 | 2380 | 1840 | 2280 | **3110** | 2820 | 3310 | 2700 | 3180 |
| 3-stage Full Free Lift | **4350** | 1880 | 2380 ◖ | 1790 | 2280 ◖ | **4015** | 2800 | 3290 ◖ | 2670 | 3150 |
| | **4950** | 1760 ◖ | 2250 ◖ | 1680 ◖ | 2150 ◖ | **4615** | 2700 ◖ | 3190 ◖ | 2580 ◖ | 3050 ◖ |
| | **5550** | 1630 ◖ | 2110 ✖ | 1560 ◖ | 2020 ✖ | **4915** | 2630 ◖ | 3110 ✖ | 2510 ◖ | 2980 ✖ |
| | **6000** | 1520 ◖ | 1990 ✖ | 1450 ◖ | 1910 ✖ | **5215** | 2550 ◖ | 3040 ✖ | 2440 ◖ | 2900 ✖ |
| | | | | | | **5815** | 240 0 ✖ | 2860 ✖ | 2290 ✖ | 2740 ✖ |

**NOTES**

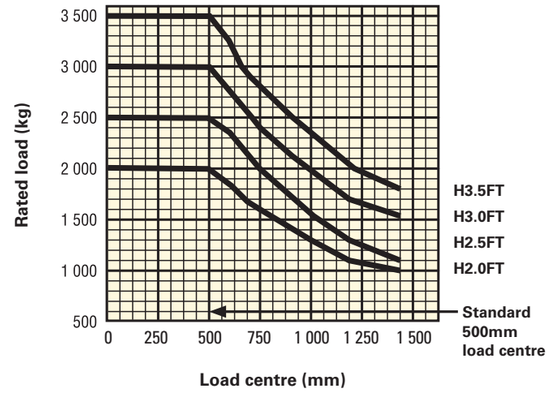
To calculate truck capacities with alternative truck specifications to the ones shown in the above tables, please use the Hy-Rater software.

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.

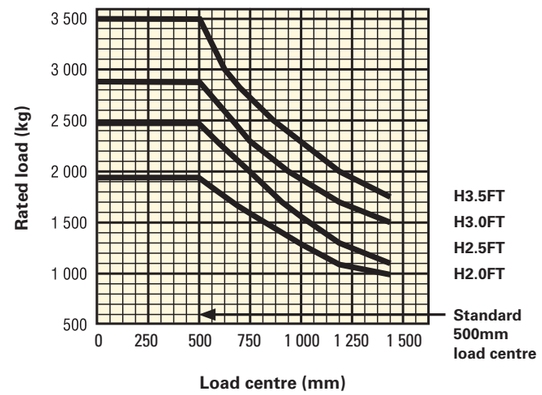


# RATED CAPACITIES




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

**Rated load**
Based on vertical masts up to 4350 mm (H2.0-2.5FT) and 4170 mm (H3.0-3.5FT).




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

**Rated load**
Based on vertical masts up to 4350 mm (H2.0-2.5FT) and 4170 mm (H3.0-3.5FT).

**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.

¶ Top of forks

✦ Without load backrest

■ h 6 subject to +/- 5 mm tolerance. H2.0FT - H2.5FT add 25mm when front tyre size 28X9-15 is selected

○ Full suspension seat in depressed position

✧ Standard/Wide/Dual.

● add 32mm with load backrest

◆ Stacking aisle width (lines 4.34.1 & 4.34.2) are 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 the truck.

❑ For Fortens Advance models supplied with manual levers, the values for lifting speeds (line 5.2) and fuel consumption (line 7.5) are as stated on the Fortens VDI table.

■ at 1.6km/h Drawbar pull performance figure (line 5.5) is only indicative for comparison purpose. These performances are only possible for a short period of time.

† at 4.8km/h. 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.

◉ with Load Sensing Hydraulics

✧ Variable.

◇ $L_{PAZ}$, measured according to the test cycles and based on the weighting values contained in EN12053

◈ $L_{WAZ}$, measured according to the test cycles and based on the weighting values contained in EN12053

**MAST TABLES**

❖ With load backrest

▽ Without load backrest

◖ Wide tread or Dual Drive Wheels required for this rating

✖ Dual Drive Wheels required for this rating

**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.

# PRODUCT PACKAGES

The Hyster Fortens™ range has been designed to match the vast range of application requirements and business objectives that customers demand. The H2.0-3.5FT 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 | H2.0FT | | | H2.5FT | | |
|---|---|---|---|---|---|---|
| **Diesel** | **Engine** | **Transmission** | **Brakes** | **Engine** | **Transmission** | **Brakes** |
| **Fortens** | Yanmar 2.6L | Basic Powershift<br>1 speed | Drum Brakes | Yanmar 2.6L | Basic Powershift<br>1 speed | Drum Brakes |
| **Fortens Advance** | Yanmar 2.6L | DuraMatch™<br>1 speed | ADS Drum or<br>Wet Brakes | Yanmar 2.6L | DuraMatch™<br>1 speed | ADS Drum or<br>Wet Brakes |
| | Yanmar 3.0L | DuraMatch™ 2<br>2 speed | Wet Brakes | Yanmar 3.0L | DuraMatch™ 2<br>2 speed | Wet Brakes |
| **Fortens** Advance+ | Kubota 2.4L | DuraMatch™ 2<br>2 speed | Wet Brakes | Kubota 2.4L | DuraMatch™ 2<br>2 speed | Wet Brakes |

| Model / Bundle | H3.0FT | | | H3.5FT | | |
|---|---|---|---|---|---|---|
| **Diesel** | **Engine** | **Transmission** | **Brakes** | **Engine** | **Transmission** | **Brakes** |
| **Fortens** | Yanmar 2.6L | Basic Powershift<br>1 speed | Drum Brakes | Yanmar 3.0L | Basic Powershift<br>1 speed | Drum Brakes |
| **Fortens** Advance | Yanmar 2.6L | DuraMatch™<br>1 speed | ADS Drum or<br>Wet Brakes | Yanmar 3.0L | DuraMatch™ 2<br>2 speed | Wet Brakes |
| | Yanmar 3.0L | DuraMatch™ 2<br>2 speed | Wet Brakes | - | - | - |
| **Fortens** Advance+ | Kubota 2.4L | DuraMatch™ 2<br>2 speed | Wet Brakes | Kubota 2.4L | DuraMatch™ 2<br>2 speed | Wet Brakes |

Please refer to the Price List for full option configurations.

# PRODUCT FEATURES

## THIS SERIES OF TRUCKS IS AVAILABLE IN THREE CONFIGURATIONS.

This series of trucks is available in three configurations.

The Fortens™ truck offers first-rate performance for many applications, geared to minimise cost of acquisition without compromising performance.

The Fortens Advance truck provides excellent performance for applications, optimised for lowest hourly operating cost.

The Fortens Advance+ truck delivers maximum performance for medium to heavy-duty applications with state-of-the art features and industry leading power.

## MASTS

The Fortens™ trucks are equipped with a mast, which provides excellent visibility both through the mast and all around. They are manufactured without compromise to provide robust and reliable performance, with minimal maintenance cost over the lifetime of the product. The mast has a robust design and offers excellent rigidity particularly at full lift height.

## ENGINES & FUEL SYSTEM

The Fortens truck is powered by a range of heavy duty industrial engines, designed to deliver power efficiently over a 20,000 hour design life with 500 hour service intervals. All engines feature Cast Iron Blocks and a 5 main bearing design; engines are fully isolated from the frame and axle to prevent direct transmission of noise and vibration, resulting in low vehicle noise and vibration levels. These advanced Industrial Engines feature coil over plug ignition designs, and especially hardened intake and exhaust valve seats to ensure long operating life.

Fortens and Fortens Advance models feature Yanmar 2.6L and 3.0L Diesel Engines. Heavy Duty Diesel Engines from Yanmar have super quick glow plugs allowing the engine to start quickly and reliably under cold conditions, the cold start device delivering a cleaner exhaust by advancing the fuel injection timing based on water temperature. Emissions have been reduced by controlling fuel injection timing according to engine load.

Fortens Advance+ models feature high performance Kubota 2.4L Diesel Engine. The Kubota 2.4L diesel engine is fully compliant with Stage IIIB requirements for regulated markets and is equipped with a Diesel Oxidation catalyst. as standard. This engine uses a sophisticated high-pressure common rail fuel system with full electronic control.

Hyster Stage IIIB trucks stand for profitable low emissions through intelligent design.

They are recognisable by the Stage IIIB symbol.

STAGE IIIB

## TRANSMISSION

The Standard Fortens model features an Electronic Powershift Transmission.

The Fortens Advance & Fortens Advance+ models are available with the electronically controlled **DuraMatch™ transmission**, with one or two speeds 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.

This transmission, in addition to the above features:

- **First Gear offers increased Drawbar Pull** for use on gradients
- **Second Gear provides maximum engine efficiency** in applications where longer travel distances are common
- **DuraMatch™ transmissions** are available with **Autospeed Hydraulics**.

The available Oil-immersed brakes offer reduced maintenance and repair time and costs, which results in extended truck dependability and uptime.

Trucks fitted with Oil-immersed brakes 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.

# PRODUCT FEATURES (2)

## AUTOSPEED HYDRAULICS

If the Autospeed Hydraulics option is selected 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 the operator steps on the accelerator. No operator inching is required and productivity and efficiency is increased by simplifying operator actions.

All powertrains are controlled, protected and managed by the **Pacesetter™ VSM** industrial on-board 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, minimising 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.

Load Sensing Hydraulics (LSH) deliver increased operational efficiency, providing a 15% reduction in fuel consumption on the VDI cycle, with no loss in productivity*. Variable displacement piston pumps match the flow rate and lifting speed continuously to the demands of the duty cycle. The engine therefore supplies only power to the hydraulic pumps when required, so more power is available for driving. This provides increased responsiveness and acceleration, which increases productivity and lowers fuel consumption, reducing overall operating costs.

With LSH Hyster also offers an ECO-eLo (Fuel Efficiency) mode, reducing engine speed by 20% and optimising throttle response, so that the truck operates in the most economical power range. This results in a reduction in fuel consumption of a further 5%*, but has a limited effect on overall truck productivity under application conditions. The ECO-eLo mode also delivers lower noise levels by up to 3dB(A). If a faster work rate, or higher productivity is required, the truck can easily be reprogrammed to HiP (High Performance) mode of operation through the dash display, with access secured by a unique customer password.

(*Hyster Productivity Test Cycle: Load Sensing Hydraulics is available on trucks with TouchPoint™ mini-levers. The ECO-eLo function is only available on trucks with DuraMatch™ transmissions).

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

- **Operator space** is optimised by an overhead guard design that achieves a generous floor space.
- **A full range of Cabs** with heating and optional Air Conditioning are available, including lowered cab for operation in containers etc.
- **The Easy-to-use 3-point entry** design of operator compartment has an open non-slip step with a height of just 38.0 cm.
- **The Full Suspension Seat** together with the isolated powertrain provide best in class Whole-Body Vibration levels of 0.6m/s2, ensuring that the operator remains comfortable throughout the shift and minimising the operator's exposure to vibration.
- **The TouchPoint™ Mini-lever Armrest** features a 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 and optional swivel seat facilitates reverse driving.
- **An infinitely adjustable steering column,** 30cm diameter steering wheel with spinner knob.

The Hyster Fortens™ is the fastest and easiest lift truck to **Service**.

- **Complete cowl-to-counterweight service access** and simplified layout of wiring and hydraulics offers greater access to components, which in turn decreases service time for un-scheduled repairs and regular maintenance.
- **Fast, colour-coded daily checks and diagnostic systems** can be managed via the dash display.
- **An Engine coolant, oil 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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