



**STRONG PARTNERS.
TOUGH TRUCKS.™**

FORTENS™



IC COUNTERBALANCED DIESEL LIFT TRUCKS

H2.0-3.5FT FORTENS / FORTENS ADVANCE

2000-3500 KG



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

DISTINGUISHING MARK	1.1	Manufacturer (abbreviation)	
	1.2	Manufacturer's type designation	
		Model	
		Engine / transmission	
		Brake Type	
	1.3	Drive: electric (battery or mains), diesel, petrol, LPG	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	
	1.5	Rated capacity/rated load	Q (t)
	1.6	Load centre distance	c (mm)
1.8	Load distance, centre of drive axle to fork	x (mm)	
1.9	Wheelbase	y (mm)	

WEIGHTS	2.1	Service weight	kg
	2.2	Axle loading laden, front/rear	kg
	2.3	Axle loading unladen, front/rear	kg

TYRES/CHASSIS	3.1	Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Number of wheels, front/rear (X = driven)	
	3.6	Tread, front	b ₁₀ (mm)
	3.7	Tread, rear	b ₁₁ (mm)

DIMENSIONS	4.1	Tilt of mast / fork carriage forward / backward	α/β (°)
	4.2	Height, mast lowered	h ₁ (mm)
	4.3	Free lift †	h ₂ (mm)
	4.4	Lift †	h ₃ (mm)
	4.5	Height, mast extended †	h ₄ (mm)
	4.7	Height of overhead guard (cabin) ■	h ₅ (mm)
	4.7.1	Cab height (open cab)	(mm)
	4.8	Seat height relating to SIP/stand height ○	h ₇ (mm)
	4.12	Coupling height	h ₁₀ (mm)
	4.19	Overall length	l ₁ (mm)
	4.20	Length to face of forks	l ₂ (mm)
	4.21	Overall width †	b ₁ (mm)
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)
	4.23	Fork carriage ISO 2328, class/type A, B	
	4.24	Fork carriage width ●	b ₂ (mm)
	4.31	Ground clearance, laden, below mast	m ₁ (mm)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)
	4.34.1	Aisle width for pallets 1000 × 1200 crossways ◆	A ₁ (mm)
	4.34.2	Aisle width for pallets 800 × 1200 lengthways ◆	A ₂ (mm)
	4.35	Turning radius	W (mm)
	4.36	Internal turning radius	b ₁₃ (mm)
	4.41	90° intersecting aisle (with pallet W = 1200mm, L = 1000mm)	(mm)
	4.42	Step height (from ground to running board)	(mm)
4.43	Step height (between intermediate steps between running board and floor)	(mm)	

PERFORMANCE DATA	5.1	Travel speed, laden/unladen	km/h
	5.1.1	Travel speed, laden/unladen, backwards	km/h
	5.2	Lift speed, laden/unladen	m/s
	5.3	Lowering speed, laden/unladen	m/s
	5.5	Drawbar pull, laden/unladen ■	N
	5.7	Gradeability, laden/unladen †	%
	5.9	Acceleration time, laden/unladen	s
	5.10	Service brake	

COMBUSTION ENGINE	7.1	Engine manufacturer / type	
	7.2	Engine power according to ISO 1585	kW
	7.3	Rated speed	min ⁻¹
	7.4	Number of cylinders/displacement	(-)/cm ³
	7.5	Fuel consumption according to VDI cycle ●	l/h or kg/h

ADDITIONAL DATA	8.1	Type of drive unit	
	10.1	Operating pressure for attachments	bar
	10.2	Oil volume for attachments †	l/min
	10.3	Hydraulic oil tank, capacity	litres
	10.4	Fuel tank, capacity	litres
	10.7	Sound pressure level at the driver's seat †	dB(A)
	10.7.1	Sound power level during the workcycle ◆	dB(A)
	10.7.2	Guaranteed sound power 2000/14/EC	dB(A)
	10.8	Towing coupling type	

HYSTER	HYSTER	HYSTER	HYSTER
H2.0FT	H2.5FT	H2.5FT	H3.0FT
Fortens	Fortens	Fortens	Fortens
Yanmar 2.6L	Yanmar 2.6L	Yanmar 3.3L	Yanmar 2.6L
Basic Powershift	Basic Powershift	Basic Powershift	Basic Powershift
1-Speed	1-Speed	1-Speed	1-Speed
Drum Brakes	Drum Brakes	Drum Brakes	Drum Brakes
Diesel	Diesel	Diesel	Diesel
Seated	Seated	Seated	Seated
2.0	2.5	2.5	3.0
500	500	500	500
471	471	471	483
1623	1623	1623	1623

3623	3961	3961	4437
5046	577	5775	686
1850	1773	1780	2181
1850	1773	1780	2181
1845	2592	1804	2950

SE	SE	SE	SE
7.00 x 12 - 12	7.00 x 12 - 12	7.00 x 12 - 12	28 x 9 - 15
6.00 x 9	6.00 x 9	6.00 x 9	6.50 x 10
2x	2	2x	2
965	965	965	965
967	967	967	967

6	5	6	5	6	5	6	5	
2170	2170	2170	2195	2170	2170	2170	2195	
140	140	140	140	140	140	140	140	
3250	3250	3250	3055	3250	3250	3250	3055	
3900	3900	3900	3805	3900	3900	3900	3805	
2160	2160	2160	2185	2160	2160	2160	2185	
2181	2181	2181	2206	2181	2181	2181	2206	
1061	1061	1061	1086	1061	1061	1061	1086	
365	365	365	390	365	365	365	390	
3486	3559	3559	3633	3486	3559	3559	3633	
2486	2559	2559	2633	2486	2559	2559	2633	
1157	1317	1601	1157	1317	1601	1186	1321	1601
40 x 100 x 1000	40 x 100 x 1000	40 x 100 x 1000	50 x 120 x 1000	40 x 100 x 1000	40 x 100 x 1000	40 x 100 x 1000	50 x 120 x 1000	
II A	II A	II A	III A	II A	II A	II A	III A	
1070	1070	1070	1070	1070	1070	1070	1070	
107	107	107	132	107	107	107	132	
160	160	160	185	160	160	160	185	
3820	3887	3887	3960	3820	3887	3887	3960	
4020	4087	4087	4160	4020	4087	4087	4160	
2149	2216	2216	2277	2149	2216	2216	2277	
629	629	629	618	629	629	629	618	
1987	2020	2020	2077	1987	2020	2020	2077	
707	707	707	727	707	707	707	727	
382	382	382	407	382	382	382	407	

16.9	18.0	16.9	18.0	18.2	19.3	18.2	19.1
16.9	18.0	16.9	18.0	18.2	19.3	18.2	19.1
0.66	0.71	0.61	0.71	0.68	0.68	0.47	0.62
0.58	0.50	0.58	0.50	0.58	0.50	0.53	0.47
17440	11570	17440	11450	19650	10800	16354	11708
21.3	34.2	21.0	29.3	23.8	28.7	15.0	26.6
5.5	4.9	6.0	5.0	5.5	4.4	6.2	5.3
Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic

Yanmar 4TNE92	Yanmar 4TNE92	Yanmar 4TNE98	Yanmar 4TNE92
33.9	33.9	43.0	33.9
2700	2700	2600	2700
4	2659	4	3319
2.7	3.0	3.3	3.3

Automatic	Automatic	Automatic	Automatic
0 - 155	0 - 155	0 - 155	0 - 155
75	75	75	75
45.8	45.8	45.8	45.8
52.8	52.8	52.8	52.8
79	79	79	79
99	99	99	99
102	102	102	102
Pin	Pin	Pin	Pin

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

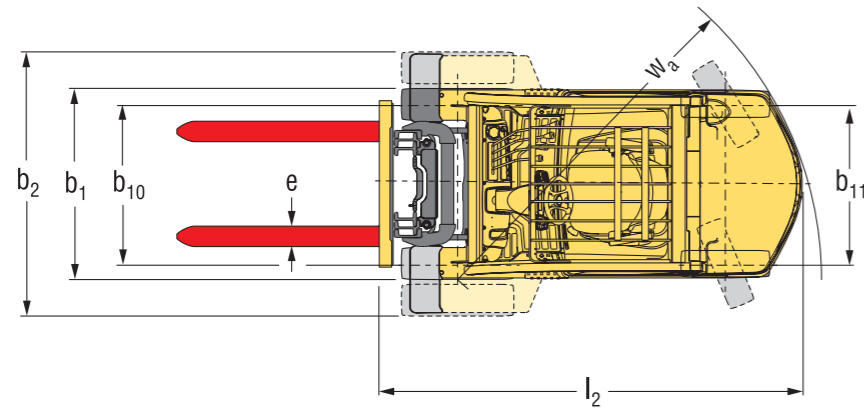
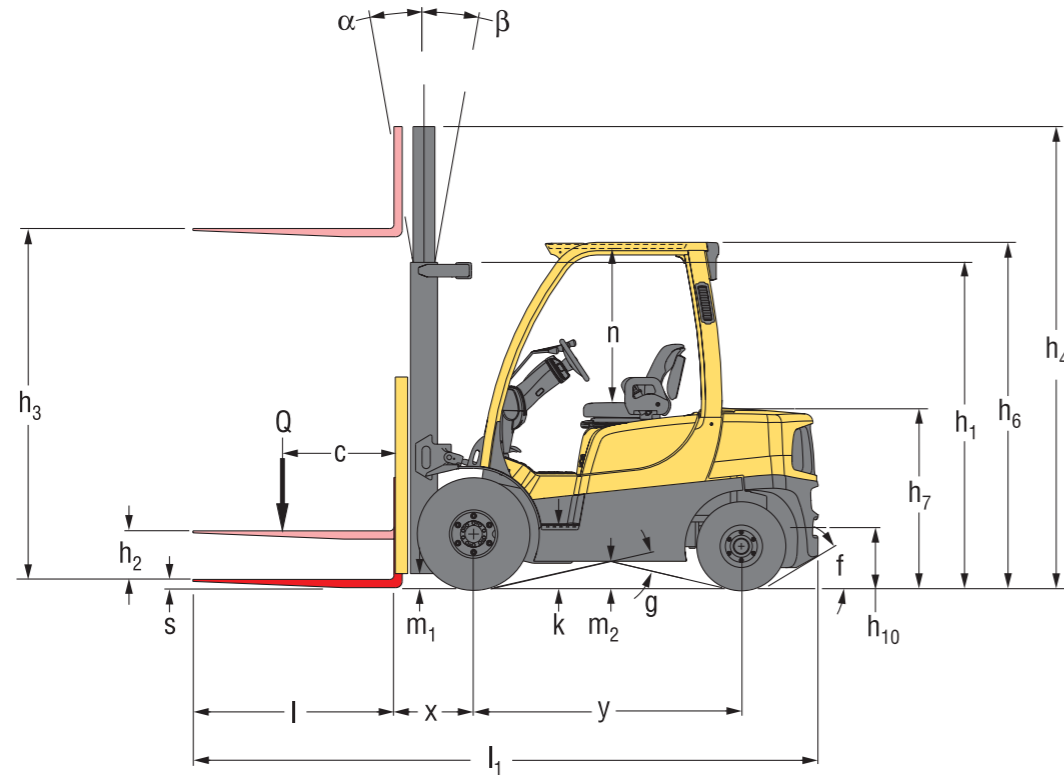
HYSTER	HYSTER	HYSTER	HYSTER	HYSTER	HYSTER	HYSTER	HYSTER	1.1
H3.0FT	H3.5FT	H2.0FT	H2.5FT	H2.5FT	H3.0FT	H3.0FT	H3.5FT	1.2
Fortens	Fortens	Fortens Advance	Fortens Advance	Fortens Advance	Fortens Advance	Fortens Advance	Fortens Advance	
Yanmar 3.3L	Yanmar 3.3L	Yanmar 2.6L	Yanmar 2.6L	Yanmar 3.3L	Yanmar 2.6L	Yanmar 3.3L	Yanmar 3.3L	
Basic Powershift	Basic Powershift	DuraMatch™	DuraMatch™	DuraMatch™	DuraMatch™	DuraMatch™	DuraMatch™	
1-Speed	1-Speed	1-Speed	1-Speed	1-Speed	1-Speed	1-Speed	1-Speed	
Drum Brakes	Drum Brakes	ADS Drum or Wet Brakes	ADS Drum or Wet Brakes	ADS Drum or Wet Brakes	ADS Drum or Wet Brakes	ADS Drum or Wet Brakes	ADS Drum or Wet Brakes	1.3
Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	1.4
Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	1.5
3.0	3.5	2.0	2.5	2.5	3.0	3.0	3.5	1.6
500	500	500	500	500	500	500	500	1.8
483	483	471	471	471	483	483	483	1.8
1623	1700	1623	1623	1623	1623	1623	1700	1.9

4437	4754	3623	3961	3961	4437	4437	4754	2.1								
6662	775	7336	928	5046	577	5775	686	5775	686	6662	775	7336	928	2.2		
1845	2592	1804	2950	1850	1773	1780	2181	1780	2181	1845	2592	1845	2592	1804	2950	2.3

SE	SE	SE	SE	SE	SE	SE	SE	3.1
28 x 9 - 15	28 x 9 - 15	7.00 x 12 - 12	7.00 x 12 - 12	7.00 x 12 - 12	28 x 9 - 15	28 x 9 - 15	28 x 9 - 15	3.2
6.50 x 10	6.50 x 10	6.00 x 9	6.00 x 9	6.00 x 9	6.50 x 10	6.50 x 10	6.50 x 10	3.3
2x	2	2x	2	2x	2	2x	2	3.5
965	965	965	965	965	965	965	965	3.6
967	967	967	967	967	967	967	967	3.7

6	5	6	5	6	5	6	5	6	5	6	5	6	5	6	5	4.1		
2195	2195	2170	2170	2170	2195	2195	2195	2195	2195	2195	2195	2195	2195	2195	2195	4.2		
140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	4.3		
3055	3055	3250	3250	3250	3055	3055	3055	3055	3055	3055	3055	3055	3055	3055	3055	4.4		
3805	3805	3900	3900	3900	3805	3805	3805	3805	3805	3805	3805	3805	3805	3805	3805	4.5		
2185	2185	2160	2160	2160	2185	2185	2185	2185	2185	2185	2185	2185	2185	2185	2185	4.7		
2206	2206	2181	2181	2181	2206	2206	2206	2206	2206	2206	2206	2206	2206	2206	2206	4.7.1		
1086	1086	1061	1061	1061	1086	1086	1086	1086	1086	1086	1086	1086	1086	1086	1086	4.8		
390	390	365	365	365	390	390	390	390	390	390	390	390	390	390	390	4.12		
3633	3734	3486	3559	3559	3633	3633	3633	3633	3633	3633	3633	3633	3633	3633	3633	4.19		
2633	2734	2486	2559	2559	2633	2633	2633	2633	2633	2633	2633	2633	2633	2633	2633	4.20		
1186	1321	1601	1186	1321	1601	1157	1317	1601	1157	1317	1601	1157	1317	1601	1186	1321	1601	4.21
50 x 120 x 1000	50 x 120 x 1000	40 x 100 x 1000	40 x 100 x 1000	40 x 100 x 1000	50 x 120 x 1000	50 x 120 x 1000	50 x 120 x 1000	50 x 120 x 1000	50 x 120 x 1000	50 x 120 x 1000	50 x 120 x 1000	50 x 120 x 1000	50 x 120 x 1000	50 x 120 x 1000	50 x 120 x 1000	4.22		
III A	III A	II A	II A	II A	III A	III A	III A	III A	III A	III A	III A	III A	III A	III A	III A	4.23		
1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	4.24		
132	132	107	107	107	132	132	132	132	132	132	132	132	132	132	132	4.31		
185	185	160	160	160	185	185	185	185	185	185	185	185	185	185	185	4.32		
3960	4063	3820	3887	3887	3960	3960	3960	3960	3960	3960	3960	3960	3960	3960	3960	4.34.1		
4160	4263	4020	4087	4087	4160	4160	4160	4160	4160	4160	4160	4160	4160	4160	4160	4.34.2		
2277	2380	2149	2216	2216	2277	2277	2277	2277	2277	2277	2277	2277	2277	2277	2277	4.35		
618	647	629	629	629	618	618	618	618	618	618	618	618	618	618	618	4.36		
2077	2111	1987	2020	2020	2077	2077	2077											

TRUCK DIMENSIONS



● = Centre of gravity of unladen truck

$$Ast = W_a + x + l_g + a \text{ (see lines 4.34.1 \& 4.34.2)}$$

a = Minimum operating clearance

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

l_g = 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

	Maximum fork height (mm)	Pneumatic Shaped Solid Tyres								
		Without sidseshift				With ISS & FP				
		H2.0FT	H2.5FT	H2.0FT	H2.5FT	Maximum fork height (mm)	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

	Maximum fork height (mm)	Pneumatic Shaped Solid Tyres								
		Without sidseshift				With ISS & FP				
		H2.0FT	H2.5FT	H2.0FT	H2.5FT	Maximum fork height (mm)	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

	Maximum fork height (mm)	Pneumatic Radial Tyres								
		Without sidseshift				With ISS & FP				
		H2.0FT	H2.5FT	H2.0FT	H2.5FT	Maximum fork height (mm)	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

	Maximum fork height (mm)	Pneumatic Radial Tyres								
		Without sidseshift				With ISS & FP				
		H2.0FT	H2.5FT	H2.0FT	H2.5FT	Maximum fork height (mm)	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	2400 ✦	2860 ✦	2290 ✦	2740 ✦

NOTES

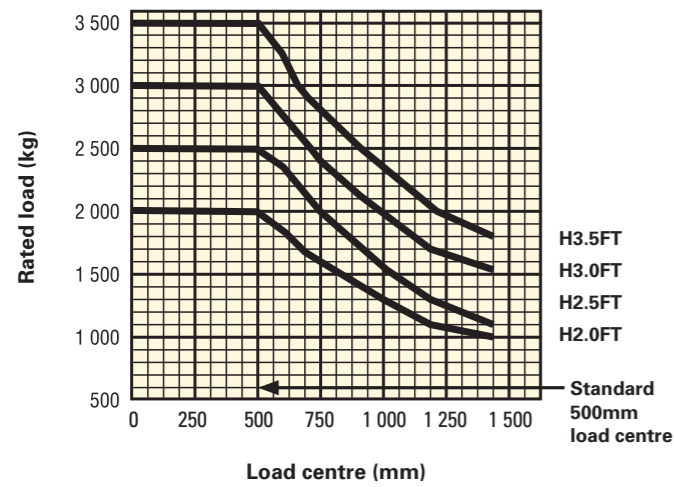
To calculate truck capacities with alternative truck specifications to the ones shown in the above tables, please use the Hy-Rater software.

The rated capacities shown are for masts in a vertical position on trucks equipped with standard or sidseshift 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

Standard carriage



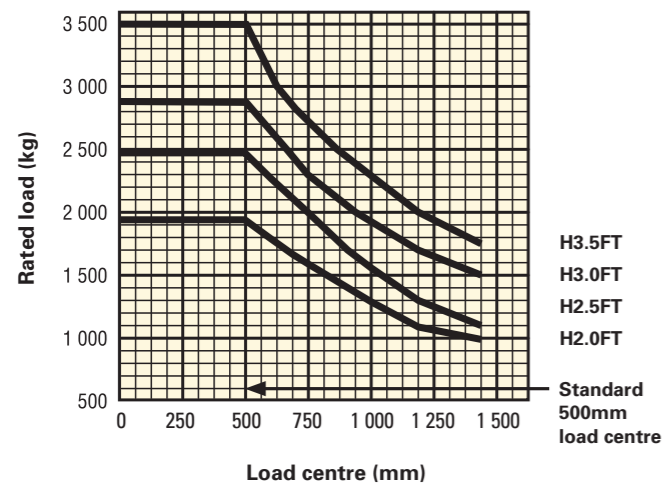
Load centre

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).

Integral side shift carriage



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_g 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		
	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens	Yanmar 2.6L	Basic Powershift 1 speed	Drum Brakes	Yanmar 2.6L	Basic Powershift 1 speed	Drum Brakes
	-	-	-	Yanmar 3.3L	Basic Powershift 1 speed	Drum Brakes
Fortens Advance	Yanmar 2.6L	DuraMatch™ 1 speed	ADS Drum or Wet Brakes	Yanmar 2.6L	DuraMatch™ 1 speed	Drum Brakes
	-	-	-	Yanmar 3.3L	DuraMatch™ 1 speed	Drum Brakes

Model / Bundle	H3.0FT			H3.5FT		
	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens	Yanmar 2.6L	Basic Powershift 1 speed	Drum Brakes	Yanmar 3.3L	Basic Powershift 1 speed	Drum Brakes
	Yanmar 3.3L	Basic Powershift 1 speed	Drum Brakes	-	-	-
Fortens Advance	Yanmar 2.6L	DuraMatch™ 1 speed	ADS Drum or Wet Brakes	Yanmar 3.3L	DuraMatch™ 1 speed	ADS Drum or Wet Brakes
	Yanmar 3.3L	DuraMatch™ 1 speed	ADS Drum or Wet Brakes	-	-	-

Please refer to the Price List for full option configurations.

PRODUCT FEATURES

This series of trucks is available in two 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.

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 3.3L 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.

TRANSMISSION

The Standard Fortens model features an Electronic Powershift Transmission.

The Fortens Advance models are available with the electronically controlled **DuraMatch™ 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.
- **DuraMatch™ transmissions** are available with **Autospeed Hydraulics**.

The transmissions are compatible with oil cooler and a superior counterweight tunnel design coupled with a “pusher” type fan, to provide the industry’s best cooling.

The available Oil-immersed brakes offer reduced maintenance & 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.

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 over the shift.
- **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**, 30 cm 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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