



**STRONG PARTNERS.
TOUGH TRUCKS.™**

FORTENS™



DIESEL FORKLIFT TRUCKS

**H6.0-7.0FT FORTENS / FORTENS ADVANCE /
FORTENS ADVANCE+**



6 000-7 000 KG

FORTENS, FORTENS ADVANCE, FORTENS ADVANCE+ H6.0FT

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, fuel gas	
	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 Σ	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 wheels)	
	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, \uparrow	h ₂ (mm)
	4.4	Lift \uparrow	h ₃ (mm)
	4.5	Height, mast extended \blacksquare	h ₄ (mm)
	4.7	Height of overhead guard (cabin) \blacktriangleleft	h ₅ (mm)
	4.7.1	Cab height (open cab)	mm
	4.8	Seat height/stand height \bullet	h ₆ (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 /b ₂ (mm)
	4.22	Fork dimensions	s/e/l (mm)
	4.23	Fork carriage ISO 2328, class/type A, B	
	4.24	Fork carriage width \bullet	b ₃ (mm)
	4.31	Ground clearance, laden, below mast	m ₁ (mm)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)
	4.33	Aisle width for pallets 1000 x 1200 crossways \blacklozenge	A ₁ (mm)
	4.34	Aisle width for pallets 800 x 1200 lengthways \blacklozenge	A ₂ (mm)
	4.35	Turning radius	W ₃ (mm)
	4.36	Inner 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	5.1	Travel speed laden/unladen	km/h
	5.1.1	Travel speed, laden/unladen, backwards	km/h
	5.2	Lift speed, laden/unladen (2LFL)	m/sec
	5.3	Lowering speed, laden/unladen (2LFL)	m/sec
	5.5	Drawbar pull, laden/unladen @ 1.6 km/h	kN
	5.7	Gradeability, laden/unladen @ 1.6 km/h	%
	5.9	Acceleration time, laden/unladen	sec
	5.10	Service brake	

7.5	Fuel consumption according to VDI cycle	kg/h
-----	---	------

ADDITIONAL DATA	10.1	Operating pressure for attachments	bar
	10.2	Oil volume for attachments \blacklozenge	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 DIN 12053 (without / with cab) \bullet	dB(A) L _{PAZ}
	10.7.2	Sound power level during the drive cycle	dB(A) L _{WAZ}
	10.7.1	Guaranteed sound power 2001/14/EC	dB (A) L _{WAZ}
	10.8	Towing coupling, type DIN	

HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		HYSTER	
H6.0FT		H6.0FT		H6.0FT		H6.0FT		H6.0FT		H6.0FT	
Fortens		Fortens		Fortens Advance		Fortens Advance		Fortens Advance+		Fortens Advance+	
Kubota 3.8L 55kW Electronic Powershift, 2-Speed with Softshift Power Reversal		Kubota 3.8L 78kW Electronic Powershift, 2-Speed with Softshift Power Reversal		Kubota 3.8L 55kW DuraMatch™ 3, 3-Speed		Kubota 3.8L 78kW DuraMatch™ 3, 3-Speed		Kubota 3.8L 55kW DuraMatch™ Plus 3 3-Speed		Kubota 3.8L 78kW DuraMatch™ Plus 3 3-Speed	
Oil Immersed		Oil Immersed		Oil Immersed		Oil Immersed		Oil Immersed		Oil Immersed	
Diesel		Diesel		Diesel		Diesel		Diesel		Diesel	
Seated		Seated		Seated		Seated		Seated		Seated	
6.0		6.0		6.0		6.0		6.0		6.0	
600		600		600		600		600		600	
601		601		601		601		601		601	
2235		2235		2235		2235		2235		2235	

8543		8543		8543		8543		8543		8543	
13077	1466	13077	1466	13077	1466	13077	1466	13077	1466	13077	1466
3853	4690	3853	4690	3853	4690	3853	4690	3853	4690	3853	4690

L		L		L		L		L		L	
8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR	
8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR	
4X	2	4X	2	4X	2	4X	2	4X	2	4X	2
1846		1846		1846		1846		1846		1846	
1536		1536		1536		1536		1536		1536	

5	10	5	10	5	10	5	10	5	10	5	10
2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540
100	100	100	100	100	100	100	100	100	100	100	100
2940	2940	2940	2940	2940	2940	2940	2940	2940	2940	2940	2940
4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195
2531	2531	2531	2531	2531	2531	2531	2531	2531	2531	2531	2531
1540	1540	1540	1540	1540	1540	1540	1540	1540	1540	1540	1540
474	474	474	474	474	474	474	474	474	474	474	474
4805	4805	4805	4805	4805	4805	4805	4805	4805	4805	4805	4805
4805	4805	4805	4805	4805	4805	4805	4805	4805	4805	4805	4805
3605	3605	3605	3605	3605	3605	3605	3605	3605	3605	3605	3605
2082	2082	2082	2082	2082	2082	2082	2082	2082	2082	2082	2082
60	150	1200	60	150	1200	60	150	1200	60	150	1200
IVA		IVA		IVA		IVA		IVA		IVA	
1980		1980		1980		1980		1980		1980	
125		125		125		125		125		125	
253		253		253		253		253		253	
5163		5163		5163		5163		5163		5163	
5329		5329		5329		5329		5329		5329	
3320		3320		3320		3320		3320		3320	
230		230		230		230		230		230	
2823		2823		2823		2823		2823		2823	
321		321		321		321		321		321	
256		256		256		256		256		256	

19.7	21.4	19.7	21.4	21.3	23.2	21.3	23.2	21.3	23.2	21.3	23.2
19.7	21.4	19.7	21.4	21.3	23.2	21.3	23.2	21.3	23.2	21.3	23.2
0.47	0.48	0.47	0.48	0.47	0.48	0.47	0.48	0.47	0.48	0.47	0.48
0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53
35.9	24.4	35.9	24.4	44.5	24.4	48.3	24.4	44.5	24.4	48.3	24.4
24%	31%	24%	31%	33%	31%	36%	31%	33%	31%	36%	31%
TBC		TBC		TBC		TBC		TBC		TBC	
Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic	

6.3	6.3	6.6	7.1	6.6	7.1
-----	-----	-----	-----	-----	-----

155	155	155	155	155	155
83.3	83.3	83.3	83.3	83.3	83.3
71.7	71.7	71.7	71.7	71.7	71.7
74.8	74.8	74.8	74.8	74.8	74.8
77	77	77	77	77	77
101	101	101	101	101	101
105	105	105	105	105	105
Pin	Pin	Pin	Pin	Pin	Pin

Specification data is based on VDI 2198.

FORTENS, FORTENS ADVANCE, FORTENS ADVANCE+ H7.0FT

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, fuel gas	
	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 Σ	kg
	2.2	Axle loading laden, front/rear	kg
	2.3	Axle loading unladen, front/rear	kg

TYRES/CHASSIS	3.1	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 wheels)	
	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, \uparrow	h ₂ (mm)
	4.4	Lift \uparrow	h ₃ (mm)
	4.5	Height, mast extended \blacksquare	h ₄ (mm)
	4.7	Height of overhead guard (cabin) \blacktriangleleft	h ₆ (mm)
	4.7.1	Cab height (open cab)	mm
	4.8	Seat height/stand height \bullet	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 /b ₂ (mm)
	4.22	Fork dimensions	s/e/l (mm)
	4.23	Fork carriage ISO 2328, class/type A, B	
	4.24	Fork carriage width \bullet	b ₃ (mm)
	4.31	Ground clearance, laden, below mast	m ₁ (mm)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)
	4.33	Aisle width for pallets 1000 x 1200 crossways \blacklozenge	A ₁₀ (mm)
	4.34	Aisle width for pallets 800 x 1200 lengthways \blacklozenge	A ₁₁ (mm)
	4.35	Turning radius (outer)	W ₉ (mm)
	4.36	Inner 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	5.1	Travel speed laden/unladen	km/h
	5.1.1	Travel speed, laden/unladen, backwards	km/h
	5.2	Lift speed, laden/unladen (2LFL)	m/sec
	5.3	Lowering speed, laden/unladen (2LFL)	m/sec
	5.5	Drawbar pull, laden/unladen @ 1.6 km/h	kN
	5.7	Gradeability, laden/unladen @ 1.6 km/h	%
	5.9	Acceleration time, laden/unladen	sec
	5.10	Service brake	

7.5	Fuel consumption according to VDI cycle	kg/h
-----	---	------

ADDITIONAL DATA	10.1	Operating pressure for attachments (nominal relief pressure)	bar
	10.2	Oil volume for attachments (nominal) \blacklozenge	l/min
	10.3	Hydraulic oil tank, capacity	litres
	10.4	Fuel tank, capacity	litres
	10.7	Sound level at driver's ear according DIN 12053 (without / with cab) \blacklozenge	dB(A) L _{FAZ}
	10.7.2	Sound power level during the drive cycle	dB(A) L _{WAZ}
	10.7.1	Guaranteed sound power 2001/14/EC	dB (A) L _{WAZ}
	10.8	Towing coupling, type DIN	

HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		HYSTER	
H7.0FT		H7.0FT		H7.0FT		H7.0FT		H7.0FT		H7.0FT	
Fortens		Fortens		Fortens Advance		Fortens Advance		Fortens Advance+		Fortens Advance+	
Kubota 3.8L 55kW Electronic Powershift, 2-Speed with Softshift Power Reversal		Kubota 3.8L 78kW Electronic Powershift, 2-Speed with Softshift Power Reversal		Kubota 3.8L 55kW DuraMatch™ 3, 3-Speed		Kubota 3.8L 78kW DuraMatch™ 3, 3-Speed		Kubota 3.8L 55kW DuraMatch™ Plus 3, 3-Speed		Kubota 3.8L 78kW DuraMatch™ Plus 3, 3-Speed	
Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes	
Diesel		Diesel		Diesel		Diesel		Diesel		Diesel	
Seated		Seated		Seated		Seated		Seated		Seated	
7.0		7.0		7.0		7.0		7.0		7.0	
600		600		600		600		600		600	
601		601		601		601		601		601	
2235		2235		2235		2235		2235		2235	

9071		9071		9071		9071		9071		9071	
14477	1594	14477	1594	14477	1594	14477	1594	14477	1594	14477	1594
3717	5354	3717	5354	3717	5354	3717	5354	3717	5354	3717	5354

L		L		L		L		L		L	
8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR	
8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR	
4X	2	4X	2	4X	2	4X	2	4X	2	4X	2
1846		1846		1846		1846		1846		1846	
1536		1536		1536		1536		1536		1536	

5	10	5	10	5	10	5	10	5	10	5	10
2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540
100	100	100	100	100	100	100	100	100	100	100	100
2940	2940	2940	2940	2940	2940	2940	2940	2940	2940	2940	2940
4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195
2531	2531	2531	2531	2531	2531	2531	2531	2531	2531	2531	2531
1540	1540	1540	1540	1540	1540	1540	1540	1540	1540	1540	1540
474	474	474	474	474	474	474	474	474	474	474	474
4805	4805	4805	4805	4805	4805	4805	4805	4805	4805	4805	4805
4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869
3669	3669	3669	3669	3669	3669	3669	3669	3669	3669	3669	3669
2082	2082	2082	2082	2082	2082	2082	2082	2082	2082	2082	2082
60	150	1200	60	150	1200	60	150	1200	60	150	1200
IVA		IVA		IVA		IVA		IVA		IVA	
1980		1980		1980		1980		1980		1980	
125		125		125		125		125		125	
253		253		253		253		253		253	
5231		5231		5231		5231		5231		5231	
5397		5397		5397		5397		5397		5397	
3388		3388		3388		3388		3388		3388	
230		230		230		230		230		230	
2856		2856		2856		2856		2856		2856	
321		321		321		321		321		321	
256		256		256		256		256		256	

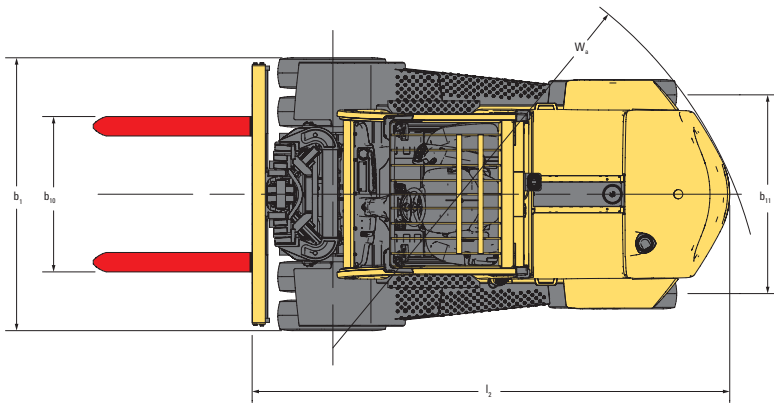
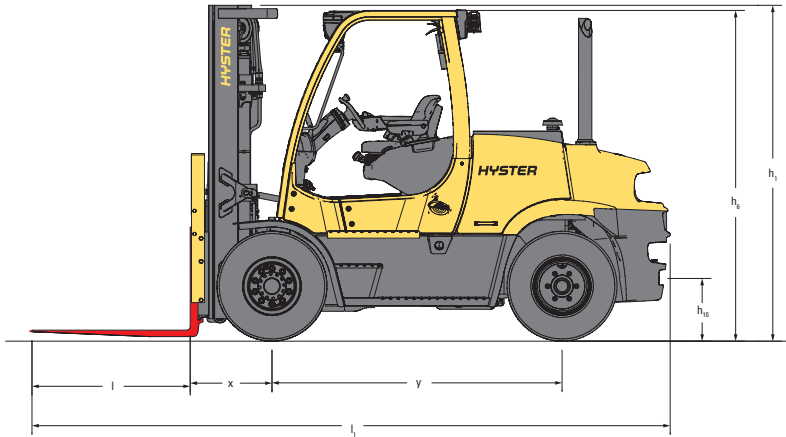
19.5	21.3	19.5	21.3	21.1	23.2	21.1	23.2	21.1	23.2	21.1	23.2
22.1	24.3	22.1	24.3	22.1	24.3	19.5	21.3	19.5	21.3	21.1	23.2
0.43	0.48	0.43	0.48	0.43	0.48	0.44	0.48	0.44	0.48	0.44	0.48
0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53
35.6	25.7	35.6	25.7	44.5	25.7	48.0	25.7	48.0	25.7	48.0	25.7
22%	30%	22%	30%	30%	30%	32%	30%	32%	30%	32%	30%
TBC		TBC		TBC		TBC		TBC		TBC	
Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic	

7.4	7.4	7.7	8.3	8.3	8.3
-----	-----	-----	-----	-----	-----

155	155	155	155	155	155
83.3	83.3	83.3	83.3	83.3	83.3
71.7	71.7	71.7	71.7	71.7	71.7
74.8	74.8	74.8	74.8	74.8	74.8
77	77	77	77	79	79
101	101	101	101	101	101
105	105	105	105	105	105
Pin	Pin	Pin	Pin	Pin	Pin

Specification data is based on VDI 2198.

TRUCK DIMENSIONS



= Centre of gravity of unladen truck

For $b_{12}/2 \leq b_{13}$: $Ast = W_a + x + l_g + a$

For $b_{12}/2 > b_{13}$: $AST = W_a + \sqrt{(l_g + x)^2 + (b_{12}/2 - b_{13})^2}$

Minimum operating clearance

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

l_g = Load length

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. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster Truck.

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

MAST TABLES:

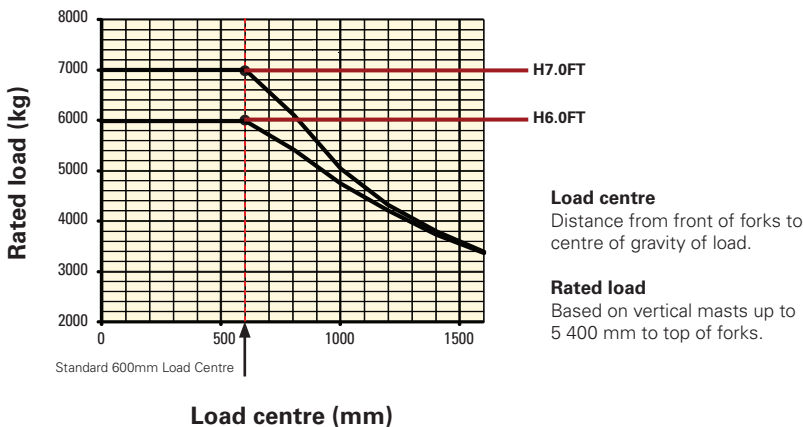
- ▽ Deduct 224 mm without load backrest
- ❖ Deduct 224 mm with load backrest

EQUIPMENT AND WEIGHT:

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

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

RATED CAPACITIES



NOTICE

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

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

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

Hyster products might be subject to change without notice.

Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

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 H6.0-7.0FT

Mast type	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	3000	10°	2540	4354❖	160
	3400	10°	2740	4754❖	160
	4400	10°	3240	5754❖	160
	5400	10°	3740	6754❖	160
	6000	6°	4165	7354❖	160
3-Stage Full Free Lift	4700	6°	2570	6054❖	1440 ▽
	5600	6°	2870	6954❖	1740 ▽
	6200	6°	3120	7554❖	1990 ▽

H6.0-7.0FT – Capacity Chart in kg @ 600mm Load Centre

Mast type	Maximum fork height (mm)	All Tyre Types					
		With standard carriage		With carriage + sideshift		With carriage + sideshifting fork positioner	
		H6.0FT	H7.0FT	H6.0FT	H7.0FT	H6.0FT	H7.0FT
2-Stage Limited Free Lift	3000	6000	7000	5760	6710	5690	6630
	3400	6000	7000	5750	6700	5680	6620
	4400	6000	7000	5700	6650	5630	6570
	5400	6000	7000	5670	6620	5600	6540
	6000	5810	6800	5480	6410	5410	6340
3-Stage Full Free Lift	4700	6000	7000	5560	6480	5490	6400
	5600	5910	6900	5450	6360	5380	6290
	6200	5720	6700	5260	6150	5190	6080

NOTES

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

The rated capacities shown are masts in a vertical position on trucks equipped with standard or sideshift carriage, and nominal length forks. Masts above the maximum fork heights shown in the mast table are classified as high lift, and depending on the tyre/tread configuration may require reduced capacity, restricted back tilt or wide tread.

Values shown are for standard equipment. When using non-standard equipment, these values may change. Please contact your Hyster dealer for information.

POWERTRAINS

1.3 Drive: electric (battery or mains), diesel, petrol, LPG		Diesel	Diesel
COMBUSTION-ENGINE	7.1 Engine manufacturer/type	Kubota 3.8L	Kubota 3.8L
	7.2 Engine power according to ISO 1585	55	78
	7.3 Rated speed	2200	2200
	7.3.1 Torque at 1/min	308.5 / 1400	373.1 / 1600
	7.4 Number of cylinders/displacement	4 / 3769	4 / 3769
	7.10 Battery voltage/nominal capacity ❖	12 / 210	12 / 210
DRIVE MECHANISM	8.1 Type of drive unit	Hydrodynamic	Hydrodynamic
	8.2 Manufacturer/type	DANA	DANA
	8.6 Wheel drive/drive axle manufacturer/type	DANA	DANA
	8.11 Service brake	Hydraulic	Hydraulic
	8.12 Parking brake	Hand Lever	Hand Lever

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

PRODUCT PACKAGES

The Hyster Fortens™ range been designed to match the vast range of application requirements and business objectives that customers demand. The H6.0-7.0FT Series is available in several truck packages, with multiple powertrain combinations to choose from, to best match operational demands. Each configuration offers improved efficiency, advanced dependability, lower cost of ownership and simple serviceability.

Model / Bundle	H6.0FT			H7.0FT		
DIESEL	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens	Kubota 3.8L 55kW	Electronic Powershift 2-speed with Soft Shift Power reversal	Wet	Kubota 3.8L 55kW	Electronic Powershift 2-speed with Soft Shift Power reversal	Wet
	Kubota 3.8L 78kW	Electronic Powershift 2-speed with Soft Shift Power reversal	Wet	Kubota 3.8L 78kW	Electronic Powershift 2-speed with Soft Shift Power reversal	Wet
Fortens Advance	Kubota 3.8L 55kW	DuraMatch™ 3, 3-Speed	Wet	Kubota 3.8L 55kW	DuraMatch™ 3-Speed	Wet
	Kubota 3.8L 78kW	DuraMatch™ 3, 3-Speed	Wet	Kubota 3.8L 78kW	DuraMatch™ 3-Speed	Wet
Fortens Advance+	Kubota 3.8L	DuraMatch™ Plus 3 3-speed	Wet	Kubota 3.8L 55kW	DuraMatch™ Plus 3, 3-Speed	Wet
	Kubota 3.8L 78kW	DuraMatch™ Plus 3 3-speed	Wet	Kubota 3.8L 78kW	DuraMatch™ Plus 3, 3-Speed	Wet

Please refer to the Price List for full option configurations.

PRODUCT FEATURES

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

THE KUBOTA 3800 SERIES ENGINES

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

The Kubota V3800 E4 55kW diesel engine is fully compliant with Stage IIIB requirements for regulated markets and is equipped with a DOC as standard. These engines meet the stringent emissions regulations by using a number of technologies including cooled exhaust gas recirculation, charge air cooling and a Diesel Oxidising Catalyst.



The Kubota V3800 E4 78kW Stage IV compliant diesel engine use familiar technologies like Exhaust Gas Recirculation (EGR) in combination with a Diesel Particulate Filter (DPF). For these engines we are currently using Selective Catalytic Reduction (SCR) technology to significantly reduce Nitrogen Oxide (NOx) emission levels. Using these technologies together achieves full emission compliance to Stage IV.



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

THE CHOICE OF TRANSMISSIONS

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

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

- **Auto Deceleration System (ADS)** automatically slows the truck when the accelerator pedal is released, and finally brings the truck to a stop, which helps to significantly extend brake life. In addition, this feature assists the driver to accurately position the truck in front of a load. There are 10 ADS settings, programmable via the dash display by a service technician, which deliver different braking characteristics, from very gradual to aggressive, to suit the needs of the application.
- **Controlled Power Reversal;** the Pacesetter 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.

PRODUCT FEATURES (2)

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

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

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

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

The standard Oil-immersed brakes offer reduced maintenance and repair time and costs, which results in extended truck dependability and uptime. These trucks are ideally suited to applications in wet, dirty or corrosive environments, and ensure consistent braking performance over the lifetime of the truck. This is thanks to the sealed unit that houses and protects the brakes, so preventing contaminants and damage. All powertrains are controlled, protected and managed by the **Pacesetter VSM™** industrial on-board computer, featuring a 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 features conveniently positioned hand-grips and three non-slip steps, with an initial step height of just **32.1cm**. The isolated operator compartment minimises the effect of powertrain vibration.
- The adjustable armrest that accompanies the E-hydraulic TouchPoint™ mini-levers moves with the seat and telescopes forward.
- The Rear grab handle with horn button facilitates reverse driving.
- An infinitely adjustable steering column, 30cm diameter steering wheel with spinner knob and full-suspension seat enhance driver comfort.

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

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

STRONG PARTNERS. TOUGH TRUCKS.™

FOR DEMANDING OPERATIONS, EVERYWHERE.

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

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

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



HYSTER EUROPE

Centennial House, Frimley Business Park, Frimley, Surrey, GU16 7SG, England.

Tel: +44 (0) 1276 538500



www.hyster.eu



infoeurope@hyster.com



[/HysterEurope](https://www.facebook.com/HysterEurope)




[@HysterEurope](https://twitter.com/HysterEurope)




[/HysterEurope](https://www.youtube.com/HysterEurope)



HYSTER-YALE UK LIMITED trading as Hyster Europe. Registered Address: Centennial House, Building 4.5, Frimley Business Park, Frimley, Surrey, GU16 7SG, United Kingdom. Registered in England and Wales. Company Registration Number: 02636775.

HYSTER,  and FORTENS are registered trademarks in the European Union and certain other jurisdictions.

MONOTROL® is a registered trademark, and DURAMATCH and  are trademarks in the United States and in certain other jurisdictions.

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