FORTENS™

HYSTER

STRONG PARTNERS.
TOUGH TRUCKS.™

IC COUNTERBALANCED LIFT TRUCKS

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

6 000-7 000 KG

STAGE IIIB

FORTENS, FORTENS ADVANCE & FORTENS ADVANCE+ H6.0FT, H7.0FT – DIESEL

DISTINGUISHING MARK	1.1	Manufacturer (abbreviation)		HYSTER		HYSTER		HYSTER		HYSTER		HYSTER	
	1.2	Manufacturer's type designation		H6.0FT		H6.0FT		H6.0FT		H7.0FT		H7.0FT	
		Model		Fortens		Fortens		Fortens Advance Fortens Advance+		Fortens		Fortens	
		Engine / transmission		Kubota 3.6L Electronic Powershift 2-Speed		Kubota 3.8L Electronic Powershift 2-Speed with Soft Shift		Kubota 3.8L DuraMatch™ 3-speed / DuraMatch™ Plus 3-Speed		Kubota 3.6L Electronic Powershift 2-Speed		Kubota 3.8L Electronic Powershift 2-Speed with Soft Shift		Kubota 3.8L DuraMatch™ 3-speed / DuraMatch™ Plus 3-speed	
		Brake type		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel		Diesel		Diesel		Diesel		Diesel		Diesel	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated		Seated		Seated		Seated		Seated		Seated	
	1.5	Rated capacity/rated load	Q (kg)	6000		6000		6000		7000		7000		7000	
	1.6	Load centre distance	c (mm)	600		600		600		600		600		600	
	1.8	Load distance, centre of drive axle to fork	x (mm)	601		601		601		601		601		601	
	1.9	Wheelbase	y (mm)	-2235		2235		2235		2235		2235		2235	
WEIGHTS	2.1	Service weight	kg	8950		8950		8950		9462		9462		9462	
	2.2	Axle loading laden, front/rear	kg	13888	1185	13888	1185	13888	1185	15166	1327	15166	1327	15166	1327
	2.3	Axle loading unladen, front/rear	kg	4354	4596	4354	4596	4354	4596	4219	5243	4219	5243	4219	5243
TYRES/CHASSIS	3.1	Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid		P		P		P		P		P		P	
	3.2	Tyre size, front		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR	
	3.3	Tyre size, rear		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR	
	3.5	Number of wheels, front/rear (X = driven)		4X	2	4X	2	4X	2	4X	2	4X	2	4X	2
	3.6	Tread, front	b_{10} (mm)	1846		1846		1846		1846		1846		1846	
	3.7	Tread, rear	b_{11} (mm)	1536		1536		1536		1536		1536		1536	
DIMENSIONS	4.1	Tilt of mast/fork carriage forward/backward	α /β (°)	5F	10B	5F	10B	5F	0B	5F	10B	5F	10B	5F	10B
	4.2	Height of mast, lowered	h_1 (mm)	2740		2740		2740		2740		2740		2740	
	4.3	Free lift, ¶	h_2 (mm)	100		100		100		100		100		100	
	4.4	Lift ¶	h_3 (mm)	3340		3340		3340		3340		3340		3340	
	4.5	Height of mast, extended ■	h_4 (mm)	4530		4530		4530		4530		4530		4530	
	4.7	Height of overhead guard (cabin) ✦	h_6 (mm)	2531		2531		2531		2531		2531		2531	
	4.7.1	Cab height (open cab)	mm	2549		2549		2549		2549		2549		2549	
	4.8	Seat height/stand height ✪	h_7 (mm)	1540		1540		1540		1540		1540		1540	
	4.12	Coupling height	h_{10} (mm)	474		474		474		474		474		474	
	4.19	Overall length	l_1 (mm)	4805		4805		4805		4869		4869		4869	
	4.20	Length to face of forks	l_2 (mm)	3605		3605		3605		3669		3669		3669	
	4.21	Overall width	b_1/b_2 (mm)	2082		2082		2082		2082		2082		2082	
	4.22	Fork dimensions	s/e/l (mm)	60	150 1200	60	150 1200	60	150 1200	60	50 1200	60	150 1200	60	150 1200
	4.23	Fork carriage to DIN 15173. Class, A/B		IVA		IVA		IVA		IVA		IVA		IVA	
	4.24	Fork carriage width ●	b_3 (mm)	1981		1981		1981		1981		1981		1981	
	4.31	Ground clearance, laden, below mast	m_1 (mm)	125		125		125		125		125		125	
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	253		253		253		253		253		253	
	4.34.1	Aisle width with pallets 1 000 long x 1 200 wide	A_{st} (mm)	5121		5121		5121		5189		5189		5189	
	4.34.2	Aisle width with pallets 800 wide x 1 200 long	A_{st} (mm)	5321		5321		5321		5389		5389		5389	
	4.35	Turning radius	W_a (mm)	3320		3320		3320		3388		3388		3388	
	4.36	Internal turning radius	b_{13} (mm)	1271		1271		1271		1271		1271		1271	
	4.41	90° intersecting aisle (With pallet W = 1200mm, L = 1000mm)		2823		2823		2823		2823		2823		2823	
	4.42	Step Height (from ground to running board)	mm	321		321		321		321		321		321	
	4.43	Step Height (between intermediate steps between running board and fl oor)	mm	256		256		256		256		256		256	
PERFORMANCE DATA	5.1	Travel speed, laden/unladen - Stage IIIA diesel engine	km/h	23.2	23.8	–	–	–	–	23.2	23.8	–	–	–	–
		Travel speed, laden/unladen - Stage IIIB diesel engine ⌘	km/h	–	–	21.1	21.6	23.0	23.7	–	–	21.1	21.6	23.0	23.7
	5.2	Lift speed, laden/unladen	m/s	0.52	0.55	0.48	0.49	0.48	0.49	0.49	0.55	0.48	0.49	0.48	0.49
	5.3	Lowering speed, laden/unladen	m/s	0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53
	5.5	Drawbar pull, laden/unladen @ 1.6 km/h - Stage IIIA diesel engine	kN	39269	26950	–	–	–	–	39029	26620	–	–	–	–
		Drawbar pull, laden/unladen @ 1.6 km/h - Stage IIIB diesel engine ⌘	kN	–	–	42147	26950	44480	26950	–	–	41907	26220	44480	26220
	5.7	Gradeability, laden/unladen @ 1.6 km/h - Stage IIIA diesel engine	%	27.6	31.9	–	–	–	–	24.9	29.1	–	–	–	–
		Gradeability, laden/unladen @ 1.6 km/h - Stage IIIB diesel engine ⌘	%	–	–	29.9	31.9	31.3	31.9	–	–	26.9	29.1	28.4	29.1
	5.10	Service brake		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic	
COMBUSTION-ENGINE	7.1	Engine manufacturer/type		Kubota 3.6L		Kubota 3.8L		Kubota 3.8L		Kubota 3.6L		Kubota 3.8L		Kubota 3.8L	
	7.2	Engine power according to ISO 1585	kW	62		70		70		62		70		70	
	7.3	Rated speed	rpm	2400		2200		2200		2400		2200		2200	
	7.4	Number of cylinders/displacement	cm^3	4	3620	4	3769	4	3769	4	3620	4	3769	4	3769
	7.5	Fuel consumption according to VDI cycle ^	l/h or kg/h	6.80		6.40		7.41		7.46		7.06		8.35	
ADDITIONAL DATA	8.1	Type of drive unit		Hydrodynamic		Hydrodynamic		Hydrodynamic		Hydrodynamic		Hydrodynamic		Hydrodynamic	
	10.1	Operating pressure for attachments	bar	155		155		155		155		155		155	
	10.2	Oil volume for attachments ✧	l/min	83.3		83.3		83.3		83.3		83.3		83.3	
	10.3	Hydraulic oil tank, capacity	l	70.9		70.9		70.9		70.9		70.9		70.9	
	10.4	Fuel tank, capacity	l	74.8		74.8		74.8		74.8		74.8		74.8	
	10.7	Average noise level at operator's ear L_{PAZ} ◇	dB(A)	80/80		79/79		79/79		80/80		79/79		79/79	
	10.7.1	Sound power level during the workcycle L_{WAZ}	dB	106		105		105		106		105		105	
	10.8	Towing coupling, type DIN		Pin		Pin		Pin		Pin		Pin		Pin	

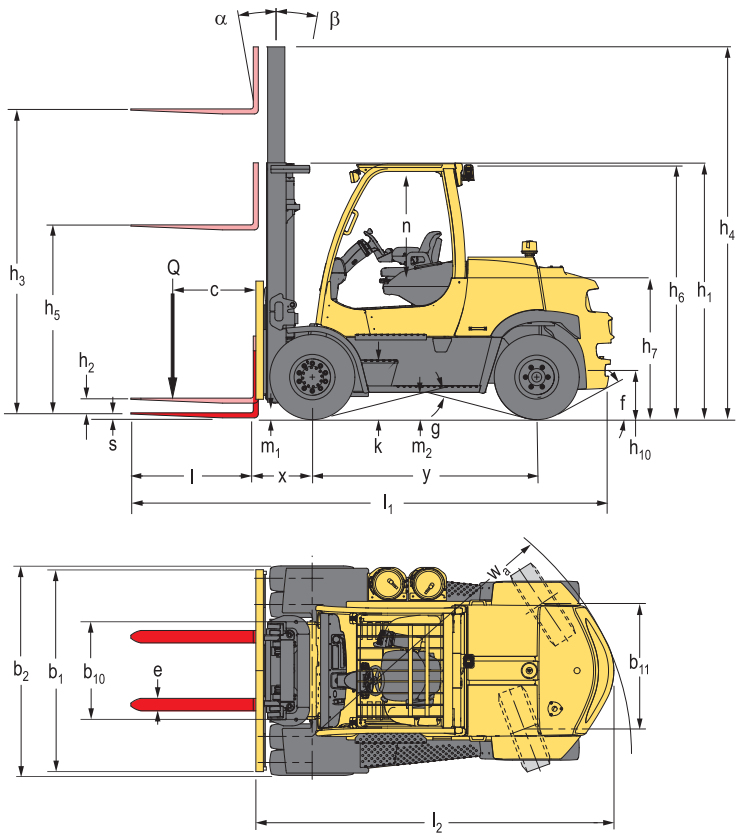
Specification data is based on VDI 2198.

FORTENS, FORTENS ADVANCE & FORTENS ADVANCE+ H6.0FT, H7.0FT – LPG

DISTINGUISHING MARK	1.1	Manufacturer (abbreviation)		HYSTER		HYSTER		HYSTER		HYSTER		HYSTER	
	1.2	Manufacturer's type designation		H6.0FT		H6.0FT		H6.0FT		H7.0FT		H7.0FT	
		Model		Fortens		Fortens		Fortens Advance Fortens Advance+		Fortens		Fortens	
		Engine / transmission		GM 4.3L Electronic Powershift 2-Speed		GM 4.3L Electronic Powershift 2-Speed with Soft Shift		GM 4.3L DuraMatch™ 3-speed / DuraMatch™ Plus 3-Speed		GM 4.3L Electronic Powershift 2-Speed		GM 4.3L Electronic Powershift 2-Speed with Soft Shift	
		Brake type		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		LPG		LPG		LPG		LPG		LPG	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated		Seated		Seated		Seated		Seated	
	1.5	Rated capacity/rated load	Q (kg)	6000		6000		6000		7000		7000	
	1.6	Load centre distance	c (mm)	600		600		600		600		600	
	1.8	Load distance, centre of drive axle to fork	x (mm)	601		601		601		601		601	
	1.9	Wheelbase	y (mm)	2235		2235		2235		2235		2235	
WEIGHTS	2.1	Service weight	kg	8900		8900		8900		9410		9410	
	2.2	Axle loading laden, front/rear	kg	13862	1347	13862	1347	13862	1347	15140	1301	15140	1301
	2.3	Axle loading unladen, front/rear	kg	4328	4572	4328	4572	4328	4572	4193	5217	4193	5217
TYRES/CHASSIS	3.1	Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid		P		P		P		P		P	
	3.2	Tyre size, front		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR	
	3.3	Tyre size, rear		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR		8.25x15 14PR	
	3.5	Number of wheels, front/rear (X = driven)		4X	2	4X	2	4X	2	4X	2	4X	2
	3.6	Tread, front	b_{10} (mm)	1846		1846		1846		1846		1846	
	3.7	Tread, rear	b_{11} (mm)	1536		1536		1536		1536		1536	
DIMENSIONS	4.1	Tilt of mast/fork carriage forward/backward	α /β (°)	5F	10B	5F	10B	5F	0B	5F	10B	5F	10B
	4.2	Height of mast, lowered	h_1 (mm)	2740		2740		2740		2740		2740	
	4.3	Free lift, ¶	h_2 (mm)	100		100		100		100		100	
	4.4	Lift ¶	h_3 (mm)	3340		3340		3340		3340		3340	
	4.5	Height of mast, extended ■	h_4 (mm)	4530		4530		4530		4530		4530	
	4.7	Height of overhead guard (cabin) ✦	h_6 (mm)	2531		2531		2531		2531		2531	
	4.7.1	Cab height (open cab)	mm	2549		2549		2549		2549		2549	
	4.8	Seat height/stand height ✪	h_7 (mm)	1540		1540		1540		1540		1540	
	4.12	Coupling height	h_{10} (mm)	474		474		474		474		474	
	4.19	Overall length	l_1 (mm)	4805		4805		4805		4869		4869	
	4.20	Length to face of forks	l_2 (mm)	3605		3605		3605		3669		3669	
	4.21	Overall width	b_1/b_2 (mm)	2082		2082		2082		2082		2082	
	4.22	Fork dimensions	s/e/l (mm)	60	150 1200	60	150 1200	60	150 1200	60	50 1200	60	150 1200
	4.23	Fork carriage to DIN 15173. Class, A/B		IVA		IVA		IVA		IVA		IVA	
	4.24	Fork carriage width ●	b_3 (mm)	1980		1980		1980		1980		1980	
	4.31	Ground clearance, laden, below mast	m_1 (mm)	125		125		125		125		125	
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	253		253		253		253		253	
	4.34.1	Aisle width with pallets 1 000 long x 1 200 wide	A_{st} (mm)	5121		5121		5121		5189		5189	
	4.34.2	Aisle width with pallets 800 wide x 1 200 long	A_{st} (mm)	5321		5321		5321		5389		5389	
	4.35	Turning radius	W_a (mm)	3320		3320		3320		3388		3388	
	4.36	Internal turning radius	b_{13} (mm)	1271		1271		1271		1271		1271	
	4.41	90° intersecting aisle (With pallet W = 1200mm, L = 1000mm)		2823		2823		2823		2823		2823	
	4.42	Step Height (from ground to running board)	mm	321		321		321		321		321	
	4.43	Step Height (between intermediate steps between running board and fl oor)	mm	256		256		256		256		256	
PERFORMANCE DATA	5.1	Travel speed, laden/unladen - Stage IIIA diesel engine	km/h	22.0	22.5	22.0	22.5	25.1	25.7	22.0	22.5	22.0	22.5	25.1	25.7
	5.2	Lift speed, laden/unladen	m/s	0.53	0.54	0.53	0.54	0.53	0.54	0.53	0.54	0.53	0.54	0.53	0.54
	5.3	Lowering speed, laden/unladen	m/s	0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53
	5.5	Drawbar pull, laden/unladen @ 1.6 km/h	kN	35500	27176	35500	27176	44500	27176	35253	26476	35253	26476	44500	26476
	5.7	Gradeability, laden/unladen @ 1.6 km/h	%	24.5	31.9	24.5	31.9	31.2	31.9	22.1	29.1	22.1	29.1	28.3	29.1
	5.10	Service brake		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic	
COMBUSTION-ENGINE	7.1	Engine manufacturer/type		GM 4.3L		GM 4.3L		GM 4.3L		GM 4.3L		GM 4.3L		GM 4.3L	
	7.2	Engine power according to ISO 1585	kW	75		75		75		75		75		75	
	7.3	Rated speed	rpm	2400		2400		2400		2400		2400		2400	
	7.4	Number of cylinders/displacement	cm^3	6	4302	6	4302	6	4302	6	4302	6	4302	6	4302
	7.5	Fuel consumption according to VDI cycle ^	l/h or kg/h	14.35		14.35		14.35		14.35		14.35		14.35	
ADDITIONAL DATA	8.1	Type of drive unit		Hydrodynamic		Hydrodynamic		Hydrodynamic		Hydrodynamic		Hydrodynamic		Hydrodynamic	
	10.1	Operating pressure for attachments	bar	155		155		155		155		155		155	
	10.2	Oil volume for attachments ✧	l/min	83.3		83.3		83.3		83.3		83.3		83.3	
	10.3	Hydraulic oil tank, capacity	l	70.9		70.9		70.9		70.9		70.9		70.9	
	10.4	Fuel tank, capacity	l	–		–		–		–		–		–	
	10.7	Average noise level at operator's ear L_{PAZ} ◇	dB(A)	82 / 78		82 / 78		82 / 78		82 / 78		82 / 78		82 / 78	
	10.7.1	Sound power level during the workcycle L_{WAZ}	dB	107		107		107		107		107		107	
	10.8	Towing coupling, type DIN		Pin		Pin		Pin		Pin		Pin		Pin	

Specification data is based on VDI 2198.

TRUCK DIMENSIONS



= Centre of gravity of unladen truck

For $b_{12}/2 < = b_{13}$: Ast = $W_a + x + l_6 + a$

For $b_{12}/2 > = b_{13}$: AST = $W_a + \sqrt{((l_6 + x)^2 + (b_{12}/2 - b_{13})^2)}$

Minimum operating clearance

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

l_6 = 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. If these specifications are critical, the proposed application should be discussed with your dealer.

- ● Add 32 mm with load backrest
- ¶ Bottom of forks
- ■ Without load backrest
- ◘ Full suspension seat in depressed position
- ✦ h_6 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.
- ✂ Kubota V3.8L Diesel engine must run on Ultra Low SulphurDiesel (ULSD) fuel, with a maximum of 15 ppm sulphur content. Diesel fuel with a higher sulphur content than 15ppm will compromise the emissions performance of the Stage IIIB engine and may result in damage to components.
- ✧ Variable
- ✪ Measured according to the test cycles and based on the weighting values contained in EN12053
- ☎ Consult your Hyster lift truck dealer

MAST TABLES:

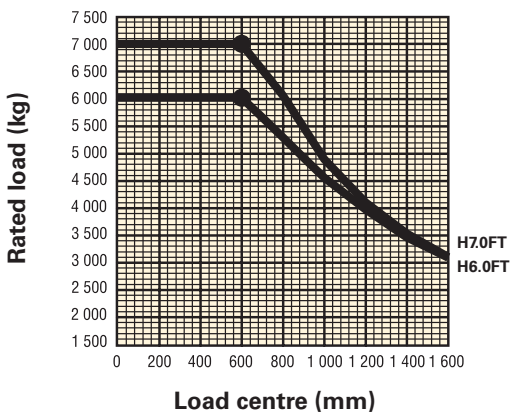
- ▽ Deduct 224 mm without load backrest
- ❖ Deduct 224 mm with load backrest

EQUIPMENT AND WEIGHT:

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

Complete truck with 3400mm 2-stage limited free lift mast, 1980mm carriage, 1200mm forks, e-hydraulics, overhead guard and standard pneumatic drive and steer tyres

RATED CAPACITIES



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

Rated load
Based on vertical masts up to 5 400 mm to top of forks.

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

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

CE
Safety:
This truck conforms to the current EU requirements.

MAST AND CAPACITY INFORMATION

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

MASTS 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

All Tyre Types							
Mast type	Maximum fork height (mm)	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.

PRODUCT PACKAGES

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

Model / Bundle	H6.0FT			H7.0FT		
DIESEL	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens	Kubota 3.6L	Electronic Powershift 2-speed	Wet	Kubota 3.6L	Electronic Powershift 2-speed	Wet
Fortens	Kubota 3.8L	Electronic Powershift 2-speed with Soft Shift Power Reversal	Wet	Kubota 3.8L	Electronic Powershift 2-speed with Soft Shift Power Reversal	Wet
Fortens Advance	Kubota 3.8L	DuraMatch™ 3-Speed / DuraMatch™ Plus 3-speed	Wet	Kubota 3.8L	DuraMatch™ 3-Speed / DuraMatch™ Plus 3-Speed	Wet
Fortens Advance+	Kubota 3.8L	DuraMatch™ 3-speed / DuraMatch™ Plus 3-speed	Wet	Kubota 3.8L	DuraMatch™ 3-Speed / DuraMatch™ Plus 3-Speed	Wet

Model / Bundle	H6.0FT			H7.0FT		
DIESEL	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens	GM 4.3L	Electronic Powershift 2-speed	Wet	GM 4.3L	Electronic Powershift 2-speed	Wet
Fortens	GM 4.3L	Electronic Powershift 2-speed with Soft Shift Power Reversal	Wet	GM 4.3L	Electronic Powershift 2-speed with Soft Shift Power Reversal	Wet
Fortens Advance	GM 4.3L	DuraMatch™ 3-Speed / DuraMatch™ Plus 3-speed	Wet	GM 4.3L	DuraMatch™ 3-Speed / DuraMatch™ Plus 3-Speed	Wet
Fortens Advance+	GM 4.3L	DuraMatch™ 3-speed / DuraMatch™ Plus 3-speed	Wet	GM 4.3L	DuraMatch™ 3-Speed / DuraMatch™ Plus 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.

Fortens models feature Kubota V3600 IDI-T 3.6 L and new Kubota V3800 E4 3.8L diesel engines or GM 4.3 L V6 engine. Fortens Advance & Advance+ models feature the new Kubota V3800 E4 3.8L diesel engine or GM 4.3 L V6 LPG engine.

LOW EMISSION ENGINES FORM KUBOTA

Kubota turbo charged diesel engines deliver outstanding reliability. The Kubota V3600 IDI-T 3.6 L (**62kW@2400rpm**) engine is available for unregulated markets and Kubota V3800 E4 3.8L (**70 kW@2200rpm**) engine is available for regulated markets.

The Stage IIIB Kubota 3.8L diesel engine meets the stringent emissions regulations by using a number of technologies including cooled exhaust gas recirculation, charge air cooling and an active regenerating Diesel particulate filter (DPF) which reduces soot levels by 90% to 0.025g/kWh.

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

STAGE IIIB

THE CHOICE OF TRANSMISSIONS

The Standard Fortens Stage IIIA model features a 2-speed (2F/2R) Electronic Powershift Transmission and Stage IIIB 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.
- **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 Contro**l; 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.

PRODUCT FEATURES (2)

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.

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