

FORTENS

STAGE IV

STAGE III



DIESEL AND LPG FORKLIFT TRUCKS

H8.0-9.0FT FORTENS ADVANCE / FORTENS ADVANCE+

8 000–9 000 KG

FORTENS ADVANCE & FORTENS ADVANCE+ H8.0FT, H9.0FT

	1.1	Manufacturer (abbreviation)		HYS	STER	HYS	TER	HYS	TER	HYS	TER	
	1.2	Manufacturer's type designation		H8.0)FT6	H8.0	FT6	H8.	OFT6	H8.0	FT9	
		Model		FORTENS		FORTENS™			MAdvance /	FORTENS™		
×				FORTENS™	Advance+	FORTENS™	Advance+	FORTENS"	MAdvance+	FORTENS™	Advance+	
DISTINGUISHING MARK		Engine / transmission		Kubota 3	.8L 55kW	Kubota 3.8L 55kW		GM 5.7L V8,		Kubota 3.8L 55kW		
E S				E4, Stage IIIB, DuraMatch™3, 3-speed /		E4, Stage IV,		DuraMatch™3, 3-speed /				
IS I						DuraMatch™3, 3-speed / DuraMatch™ Plus3, 3-speed		DuraMatch™ Plus3, 3-speed		DuraMatch [™] DuraMatch [™]		
		Brake type		DuraMatch™ Plus3, 3-speed Wet Brakes		Wet Brakes		d Wet Brakes			rakes	
ISI	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	(battery or mains), diesel, petrol, fuel gas				Diesel		PG	Die		
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Die		Sea			ated	Sea		
	1.5	Rated capacity/rated load	Q. (t)	8	.0	8.	.0	8	.0	9.	.0	
	1.6	Load centre distance	distance c (mm)				00	6	00	90	00	
	1.8	Load distance, centre of drive axle to fork	x (mm)		3.5	613			3.5	61		
	1.9	Wheelbase	y (mm)	24	50	2 4	50	24	450	2 4	50	
_	_									_		
E ST	2.1	Service weight ▲	kg	114			487	114	-		117	
WEIGHTS	2.2 2.3	Axle loading laden, front/rear	kg	17452 2035	5489 5998	17452 2035	5489 5998	17452 2035	5489 5998	18470 1947	5365 7052	
	2.3	Axle loading unladen, front/rear	kg	2035	2339	2030	2998	2030	2999	1947	7052	
	3.1	Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid					L	L		1		
ŝ	3.1	Tyre size, front		8.25x15		8.25x15		8.25x15		8.25x15		
N N	3.3	Tyre size, rear		8.25x15		8.25x15		8.25x15		8.25x15		
TYRES/CHASSIS	3.5	Number of wheels, front/rear (x = driven)		4X	2 ¹	4X	2 1	4X	2 ¹	4X	21	
	3.6	Tread, front	b ₁₀ (mm)	20	03	20	03	20	03	20	03	
	3.7	Tread, rear	b ₁₁ (mm)	15	35	15	535	15	35	15	35	
_				_								
	4.1	Tilt of mast/fork carriage forward/backward	α /β (°)	5	9 ²	5	9 ²	5	9 ²	5	9 ²	
	4.2	Height of mast, lowered	h ₁ (mm)	2712			/12	2712 105 3065		27		
	4.3 4.4	Free lift, ¶	h ₂ (mm)		105 3065		05			105 3065		
	4.4	Lift ¶ Height of mast, extended +	h ₃ (mm) h ₄ (mm)	42			165 139	4239		4239		
	4.7	Height of overhead guard (cabin)	h ₆ (mm)	25		2531			2531		2531	
	4.8	Seat height/stand height O	h ₇ (mm)	1558			58		58	15		
	4.12	Coupling height	h ₁₀ (mm)	4	74	4	74	47	74	47	14	
	4.19	Overall length	l ₁ (mm)	50	97	50	197	50	97	52	38	
5	4.20	Length to face of forks	l ₂ (mm)	38			197	38	-	40		
DIMENSIONS	4.21	Overall width \$	b ₁ /b ₂ (mm)	22			39	22		22		
Ä	4.22 4.23	Fork dimensions Fork carriage to DIN 15173. Class, A/B	s/e/l (mm)	65 20	0 1200		00 1200 / A	65 20 IV		65 20 IV		
	4.23	Fork carriage width •	b ₃ (mm)		A 30 ³		30 ³	2 03		2 03		
	4.31	Ground clearance, laden, below mast	m ₁ (mm)		13		73	17		17		
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	2!	53	2	53	25	53	25	53	
	4.34.1	Aisle width with pallets 1 000 long x 1 200 wide ◆	A _{st} (mm)	54	87	54	87	54	87	56	08	
	4.34.2	Aisle width with pallets 800 wide x 1 200 long ◆	A _{st} (mm)	56			87	56		58		
	4.35	Turning radius	W _a (mm)	36			673	36	-	37	-	
	4.36 4.41	Internal turning radius 90° intersecting aisle (With pallet W = 1200mm, L = 1000mm)	b ₁₃ (mm)	30	62 46		62 146	36	46	36		
	4.41	Step Height (from ground to running board)	mm		40		21	30		31		
	4.43	Step Height (between intermediate steps between running board and floor)	mm		56		56	25			56	
			_	-							_	
	5.1	Travel speed, laden/unladen	km/h	19.2	20.3	21.5	22.5	21.5	22.5	19.0	20.3	
A	5.1.1	Travel speed, laden/unladen, backwards	km/h	17.2	18.0	19.1	19.8	19.1	19.8	17.2	18.0	
Ë,	5.2	Lift speed, laden/unladen (2LFL)	m/sec	0.34	0.34	0.45	0.45	0.45	0.45	0.32	0.34	
	5.3	Lowering speed, laden/unladen (2LFL)	m/sec	0.41	0.37	0.41	0.37	0.41	0.37	0.41	0.37	
PERFORMANCE DATA	5.5	Drawbar pull, laden/unladen @ 1.6 km/h	kN	52836	32297	53379	32297	53379	32297	52570	31568	
	5.7	Gradeability, laden/unladen @ 1.6 km/h †	%	28	29	28	29	28	29	26	26	
			10 1 1									
	7.5	Fuel consumption according to VDI cycle ^	l/h or kg/h	9	.9	1	D.6	-		10).4	
	10.1				-				-			
	10.1 10.2	Working pressure for attachments	bar I/min	9	2		55 13	15	3 3	15		
	10.2	Oil volume for attachments Hydraulic oil tank, capacity	l/min litres	71			13 1.7	9		9		
	10.3	Fuel tank, capacity	litres	74			1.7	74		74		
	10.4.1	DEF tank, capacity	litres				9					
ADDITIONAL DATA	10.7	Sound pressure level at the driver's seat (without / with cab) $\rm L_{PAZ}\diamondsuit$	dB(A)	79	79	79	79	82	79	79	79	
8	10.7.2	Sound power level during the drive cycle $L_{WAZ}\diamond$	dB	9			D1	10		9		
	10.7.1	Guaranteed sound power 2000/14/EC L _{WAZ}	dB		02		05	10			02	
	10.8	Towing coupling, type DIN		P	in	Р	in	Pi	in	P	in	

HYSTER HYSTER HYSTER HYSTER H8.0FT9 H8.0FT9 H9 OFT6 H9 0FT6 Fortens Advance / Fortens Advance / Fortens Advance / Fortens Advance / Forte Fortens Advance+ Fortens Advance+ Fortens Advance+ Fortens Advance+ Forte Kubota 3.8L 55kW GM 5.7L V8. Kubota 3.8L 55kW Kubota 3.8L 55kW)) DuraMatch™3, 3-speed E4, Stage IIIB, E4, Stage IV, DuraMa E4, Stage IV, raMatch™ Plus3, 3-speed DuraMatch™3, 3-speed / DuraMat DuraMatch™3, 3-speed / DuraMatch™3, 3-speed / DuraMatch™ Plus3, 3-speed DuraMatch™ Plus3, 3-speed DuraMatch™ Plus3, 3-speed Wet Brakes Wet Brakes Wet Brakes Wet Brakes Diesel LPG Diesel Diesel Seated Seated Seated Seated 9.0 9.0 9.0 9.0 900 900 900 900 613.5 613.5 613.5 613.5 2 450 2 450 2 450 2 450 12417 12417 11956 11956 18470 5365 18470 5365 18798 5340 18798 5340 1879 1947 7052 1947 7052 2158 6616 2158 6616 2158 8.25 x 15 -14PR 8.25 x 15 -14PR ¹ 8.25 x 15 -14PR 8.25 x 15 - 14PR 1 8 8.25 x 15 -14PR 1 8.25 x 15 -14PR 1 8.25 x 15 - 14PR 8.25 x 15 - 14PR 1 8.3 4X 2 ¹ 4X 4X 2 1 4X 2 1 4X 21 2003 2003 2003 2003 1535 1535 1535 1535 5 9 5 9 2 5 92 5 92 5 2712 2712 2712 2712 105 105 105 105 3065 3065 3065 3065 4239 4239 4239 4239 2531 2531 2531 2531 1558 1558 1558 1558 474 474 474 474 5238 5238 5238 5238 4038 4038 4038 4038 2239 2239 2239 2239 65 200 1200 65 200 1200 65 200 1200 65 200 1200 65 IV A IV A IV A IV A 2 030 3 2 030 ³ 2 030 ³ 2 030 173 173 173 173 253 253 253 253 5608 5608 5608 5608 5808 5808 5808 5808 3794 3794 3794 3794 362 362 362 362 3116 3116 3116 3116 321 321 321 321 256 256 256 256 21.4 22.4 21.4 22.4 19.1 20.2 21.4 22.4 21.4 19.0 19.8 19.0 19.8 17.1 17.9 19.0 19.8 19.0 0.44 0.45 0.44 0.45 0.27 0.34 0.40 0.45 0.40 0.41 0.37 0.41 0.37 0.41 0.37 0.41 0.37 0.41 53379 31568 53379 31568 52668 31421 53379 31421 5337 27 26 27 26 25 27 27 27 27 11.2 10.4 107 11.5 155 155 155 155 93 93 93 93 71.7 71.7 71.7 71.7 74.8 74.8 74.8 74.8 19 19 79 79 82 79 79 79 79 79 82 101 103 101 98 105 107 102 105

Pin

Pin

Pin

Pin

Specification data is based on VDI 2198.

			_
HYS	TER	1.1	
H9.0	FT6	1.2	
	dvance /		
	dvance+		
	7L V8, ^M 3, 3-speed /		STIN
	Plus3, 3-speed /		GUIS
Net P	rokoc		N.
Vet B LP	rakes G	1.3	
Sea		1.3	₹
9.		1.5	
90		1.6	
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98	5340	2.2	
8	6616	2.3	SL
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	9 ²	4.1	
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25		4.7	
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	73 53	4.31 4.32	
56		4.34.1	
58	08	4.34.2	
37		4.35	
30		4.36	
31		4.41 4.42	
	56	4.43	
4	22.4	5.1	3
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1 79	0.37 31421	5.3 5.5	GE
	27	5.5	
	-	7.5	
	55	10.1	
	3	10.2 10.3	
	. <i>1</i> I.8	10.3	
		10.4.1	
	79	10.7	E I
)3	10.7.2	8
	07 in	10.7.1 10.8	

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,
- forks, etc.
- ¶ Top of forks
- Without load backrest
- h6 subject to +/- 5 mm tolerance, 2 549 mm for cab option.
- O Relative to full suspension seat SIP
- Add 32 mm with load backrest
- ♦ 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
- \diamond Measured according to the test cycles and based on the weighting values contained in EN12053.
- 1 Other tyre options are available
- 2 Backtilt limited to 6 degrees with some mast options
- 3 Carriage is 2 030mm wide, load backrest is 2 080mm wide

EOUIPMENT AND WEIGHT:

Single tyre option requires application survey special quotation to be submitted to sped for approval prior to order.

Weights and axle loadings (lines 2.1, 2.2, 2.3) are based on the following specifications: 8.0T-6: Complete truck with with 5500 mm BOF (5565 mm TOF) 2-stage limited free lift mast, 2030 mm wide standard carriage and 1 200 mm long forks. 8.0T-9: Complete truck with with 4500 mm BOF (4565 mm TOF) 2-stage limited free lift mast, 2030 mm wide standard carriage and 1800 mm long forks. 9.0T-6: Complete truck with with 4500 mm BOF (4565 mm TOF) 2-stage limited free lift mast, 2030

mm wide standard carriage and 1200 mm long forks.

MAST TABLES:

- Deduct 125 mm without load backrest
- Deduct 125 mm with load backrest
- No capacity deration when single drive tyres fitted
- ▲ Single Drive Tyres available on H8.0FT6 only
- ✓ If forks longer than 1800mm are required then a hook type standard carriage option will need to be selected and a third party ISS/FP will need to be procured locally.

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

MASTS H8.0FT6 AND H9.0FT6

	Maximum fork height Top of Forks mm (h ₃ +s)	Back tilt	Overall lowered height (mm)	Overall Extended height (mm)	Free lift (top of forks) (mm)
	3 065	9°	2 712	4 350 🛠	0
2-Stage	3 565	9°	2 962	4 850 💠	0
Limited	4 565	9°	3 462	5 850 💠	0
Free Lift	5 565	9°	3 962	6 850 🔹	0
	6 065	9°	4 212	7 350 🛠	0
	4 615	6°	2 702	6 077 🛠	1 565 4
3-Stage	5 515	6°	3 002	6 977 💠	1 865
Full Free Lift	5 965	6°	3 152	7 427 🛠	2 015

MASTS H8.0FT9

	Maximum fork height Top of Forks mm (h ₃ +s)	Back tilt	Overall lowered height (mm)	Overall Extended height (mm)	Free lift (top of forks) (mm)
2-Stage Limited Free Lift	3 065 3 565 4 565 5 565 6 065	9° 9° 9° 9°	2 712 2 962 3 462 3 962 4 212	4 398 * 4 898 * 5 898 * 6 898 * 7 398 *	0 0 0 0 0
3-Stage Full Free Lift	4 615 5 515 5 965 6 565	6° 6° 6°	2 712 3 012 3 162 3 362	6 077 * 6 977 * 7 475 * 8 027 *	1 405 1 705 1 855 2 055

H8.0FT6-H8.0FT9 - Capacity Chart in kg, Dual Pneumatic Tyres

		With carriage only									
	Maximum fork	H8.	.0FT6 mast 🔺	Н	8.0FT9 mast	H9.0FT mast					
	height mm (h ₃ +s)	Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height				
2-Stage Limited Free Lift	3 065 3 565 4 565 5 565 6 065	8 000 8 000 8 000 8 000 7 710	8 000kg to 5 815mm	8 000 8 000 8 000 7 920 7 770	8000 kg to 5265 mm 8000 kg to 5265 mm	8 500 8 490 8 470 8 190 7 620	9 000kg to 5 315mm 9 000kg to 5 315mm				
3-Stage 4 615 8 000 Limited 5 515 8 000 Free Lift 5 965 7 940		8 000kg to 5 915mm	8 000 7 770 7 650	8000 kg to 4615 mm 8000 kg to 4615 mm	8 500 8 320 7 810	9 000kg to 5 365mm 9 000kg to 5 365mm					

		With carriage + sideshift									
	Maximum fork	H8.	.OFT6 mast 🔺	H	8.0FT9 mast	H9.0FT mast					
	height mm (h ₃ +s)	Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height				
	3 065	7 580		7 580		8 500					
2 Change	3 565	7 570		7 560		8 490					
2-Stage Limited	4 565	7 540		7 530		8 470					
Free Lift	5 565	7 520		7 420	7 500kg to 5 265mm	8 190	8 450kg to 5 315mm				
	6 065	7 240	7 510kg to 5 815mm	7 270	7 480kg to 5 265mm	7 620	8 440kg to 5 315mm				
3-Stage	4 615	7 560		7 560		8 500					
Limited	5 515	7 540		7 320	7 530kg to 4 615mm	8 320	8 480kg to 5 365mm				
Free Lift	5 965	7 480	7 530kg to 5 915mm	7 180	7 510kg to 4 615mm	7 810	8 470kg to 5 365mm				

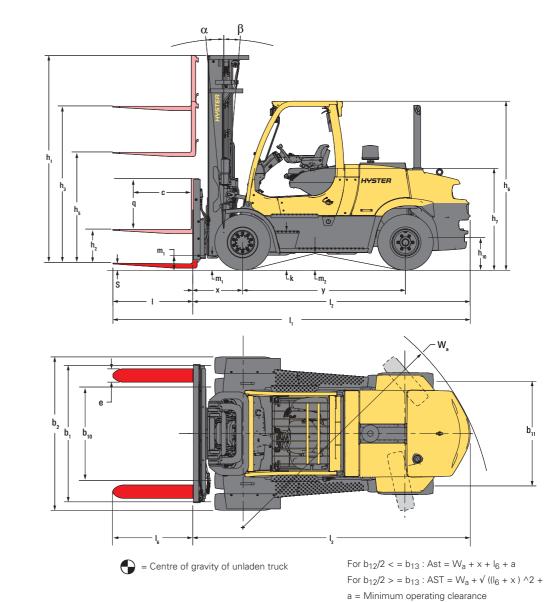
			With	carriage + sideshiftiı	ng fork positioner 🗸			
	Maximum fork H8.0		.OFT6 mast 🔺	H	8.0FT9 mast	H9.0FT mast		
	height mm (h ₃ +s)	Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height	
	3 065	7 530		7 550		8 460		
2-Stage	3 565	7 520		7 530		8 440		
Limited	4 565	7 500		7 500		8 420		
Free Lift	5 565	7 470		7 390	7460 kg to 5265 mm	8 140	8 400kg to 5 315mm	
	6 065	7 200	7 460kg to 5 815mm	7 240	7440 kg to 5265 mm	7 570	8 390kg to 5 315mm	
3-Stage	4 615	7 530		7 530		8 470		
Limited	5 515	7 510		7 290	7500 kg to 4615 mm	8 290	8 450kg to 5 365mm	
Free Lift	5 965	7 450	7 500kg to 5 915mm	7 150	7480 kg to 4615 mm	7 780	8 430kg to 5 365mm	

POWERTRAINS

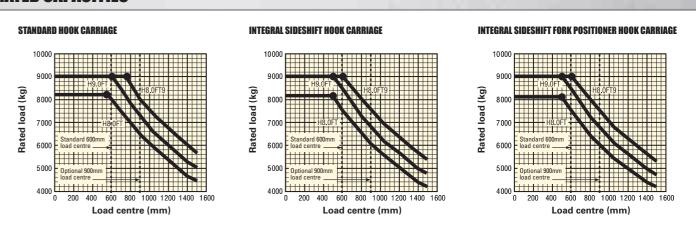
	1.1	Manufacturer (abbreviation)	10	HYS	TER	HYS	TER	HYS	STER	
GENERAL	1.2	Manufacturer's type designation		H8.0-	9.0FT	H8.0-	9.0FT	H8.0-9.0FT		
뜅	1.3	Drive: electric (battery or mains), diesel, petrol, LPG		Die	sel	Diesel		L	PG	
-				-						
	7.1	Engine manufacturer/type		Kubota 3	.8L 55kW	Kubota 3	.8L 82kW	GM	5.7L V8	
	7.1.1	EPA / CE Tier compliance		Tier 4i / S	Stage IIIB	Tier 4f /	Stage IV		-	
COMBUSTION ENGINE	7.2	ingine power according to ISO1585 kW		5	5	82		99		
É	7.3	Rated speed at max. power	m	22	2200		2400		2400	
S alar	7.3.1	Torque at 1/min Nm/mi	-1	308	1400	373	1600	422	1600	
	7.4	Number of cylinders/displacement (-)/	m ³	4	3769	4	3769	8	5735	
	7.10	Battery voltage/nominal capacity (V)/	lh)	12	210	12	210	12	132	
_										
S	8.1	Type of drive unit		Hydrody	ynamic	Hydrod	ynamic	Hydrod	dynamic	
	8.2	Manufacturer/type		DA	NA	DA	NA	DA	NA	
	8.6	Wheel drive/drive axle manufacturer/type		DANA		DA	NA	DA	NA	
DRIVE MECHANISM	8.11	Service brake		Hydraulic		Hydraulic		Hydraulic		
	8.12	Parking brake		Hand	Hand Lever		Hand Lever		Hand Lever	

NOTES: To calculate truck capacities with alternative truck specifications to the ones shown in the above tables, please consult your Hyster dealer. The rated capacities shown are for masts in a vertical position on trucks equipped with standard or sideshift carriage, and nominal length forks. Masts above the maximum fork heights shown in the mast table are classified as high lift, and depending on the tyre/tread configuration may require reduced capacity, restricted back tilt or wide tread. Values shown are for standard equipment. When using non-standard equipment, these values may change. Please contact your Hyster dealer for information.

TRUCK DIMENSIONS



RATED CAPACITIES



Load centre: Distance from front of forks to centre of gravity of load. Rated load: Based on vertical 2-stage masts up to 5065 to 5565 mm, depending on model.

For $b_{12}/2 < b_{13}$: Ast = $W_a + x + l_6 + a$ For $b_{12}/2 > b_{13}$: AST = $W_a + \sqrt{(l_6 + x)^2 + (b_{12}/2 - b_{13})^2)}$ a = Minimum operating clearance (VDI standard = 200 mm BITA recommendation = 300 mm) l_6 = Load length

Rated load: Based on vertical 2-stage masts up to 5065 to 5565 mm, depending on model. Special forks with higher load ratings may be needed to obtain full rating with load centres > 1100 mm

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PRODUCT PACKAGES

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

The H8.0-9.0FT 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 operations and simple serviceability.

Model / Bundle	H8.0FT6			H8.0FT9			H9.0FT6			
DIESEL	Engine Transmission		Brakes	Engine	Transmission	Brakes	Engine	Transmission	Brakes	
Fortens Advance	Kubota 3.8L, 55kW	DuraMatch™3, 3-speed	Wet Brakes	Kubota 3.8L, 55kW	DuraMatch™3, 3-speed	Wet Brakes	Kubota 3.8L, 55kW	DuraMatch™3, 3-speed	Wet Brakes	
Fortens Advance	Kubota 3.8L, DuraMatch™3, 82kW 3-speed		Wet Brakes		DuraMatch™3, 3-speed	Wet Brakes	Kubota 3.8L, 82kW	DuraMatch™3, 3-speed	Wet Brakes	
Fortens Advance+	Kubota 3.8L, 55kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	Kubota 3.8L, 55kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	Kubota 3.8L, 55kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	
Fortens Advance+	Kubota 3.8L, 82kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	Kubota 3.8L, 82kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	Kubota 3.8L, 82kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	

Model / Bundle	H8.0FT			H8.0FT9			H9.0FT			
LPG	Engine Transmission		Brakes	Engine	Transmission	Brakes	Engine	Transmission	Brakes	
Fortens Advance	GM 5.7L V8	DuraMatch™3, 3-speed	Wet Brakes	1	DuraMatch™3, 3-speed	Wet Brakes	GM 5.7L V8	DuraMatch™3, 3-speed	Wet Brakes	
Fortens Advance+	GM 5.7L V8	DuraMatch™ Plus3, 3-speed	Wet Brakes		DuraMatch™ Plus3, 3-speed	Wet Brakes	GM 5.7L V8	DuraMatch™ Plus3, 3-speed	Wet Brakes	

Please refer to the Price List for full option configurations.

PRODUCT FEATURES

The Hyster Fortens H8.0-9.0FT Series represents a powerful, compact materials handling solution for a wide range of demanding applications.

These trucks are ideally suited to match the a variety of application needs, including those with attachment usage in the paper, manufacturing, recycling, beverage, metals or construction industries or where space is tight.

It's compact design ensures that space and on-site efficiency can be maximised to maintain low operating costs.

Fortens Advance & Advance+ models feature the electronically controlled Kubota V3800 E4 55kW or 82kW diesel engines or GM 5 .7L V8 LPG engine.

LOW EMISSION ENGINES FORM KUBOTA

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 82kW 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 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 VSMTM 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 descent 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 provide maximum engine efficiency in applications where longer travel distances are common

PRODUCT FEATURES continued

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 & 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.

The powertrain is controlled, protected and managed by the Pacesetter VSM[™] industrial onboard computer, featuring a CANbus communications network.

This system permits adjustment and optimisation of the truck's performance, in addition to monitoring key functions. It enables quick, easy diagnostics, minimizing repair downtime and unnecessary parts swapping.

Hassle-Free Hydraulic systems, featuring Leak-free O-ring face seal fittings reduce leaks for enhanced reliability.

Non-mechanical, Hall-Effect sensors and switches have been fitted and are designed to outlast the life of the truck.

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



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STAGE IIIB



- Operator space is optimised, thanks to the modern 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, 30 cm diameter steering wheel with spinner knob and full-suspension seat enhance driver comfort.

THE HYSTER FORTENS IS THE FASTEST AND EASIEST LIFT TRUCK TO SERVICE.

- 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."

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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