



FORTENS™



**STRONG PARTNERS.
TOUGH TRUCKS.™**



IC COUNTERBALANCED LIFT TRUCKS

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



8 000–9 000 KG

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

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 (kg)				
	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 of mast, lowered	h ₁ (mm)				
4.3		Free lift, ¶	h ₂ (mm)				
4.4		Lift ¶	h ₃ (mm)				
4.5		Height of mast, extended ✚	h ₄ (mm)				
4.7		Height of overhead guard (cabin) ■	h ₆ (mm)				
4.7.1		Cab height (open cab)	mm				
4.8		Seat height/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 ₇ /b ₂ (mm)				
4.22		Fork dimensions	s/e/l (mm)				
4.23		Fork carriage to DIN 15173. Class, A/B					
4.24		Fork carriage width ●	b ₃ (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 with pallets 1 000 long x 1 200 wide ◆	A _{st} (mm)				
4.34.2		Aisle width with pallets 800 wide x 1 200 long ◆	A _{sl} (mm)				
4.35		Turning radius	W _t (mm)				
4.36		Internal turning radius	b ₁₃ (mm)				
4.41		90° intersecting aisle (With pallet W = 1200mm, L = 1000mm)					
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				
		Stage IIIA diesel engine	km/h				
		Stage IIIB diesel engine □	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				
		Stage IIIA diesel engine	kN				
		Stage IIIB diesel engine □	kN				
	5.7	Gradeability, laden/unladen @ 1.6 km/h †	%				
		Stage IIIA diesel engine	%				
		Stage IIIB diesel engine □	%				
	5.10	Service brake					
COMBUSTION-ENGINE	7.1	Engine manufacturer/type					
	7.2	Engine power according to ISO 1 585	kW				
	7.3	Rated speed	rpm				
	7.4	Number of cylinders/displacement	cm³				
	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 tank, capacity	l				
	10.4	Fuel tank, capacity	l				
	10.7	Average noise level at operator's ear L _{pAZ} ◇	dB(A)				
	10.7.1	Sound power level during the workcycle L _{wAZ}	dB				
	10.8	Towing coupling, type DIN					
HYSTER		HYSTER		HYSTER		HYSTER	
H8.0FT6		H8.0FT6		H8.0FT6		H8.0FT9	
Fortens		Fortens Advance / Fortens Advance+		Fortens Advance / Fortens Advance+		Fortens	
Cummins 3.3L DuraMatch™ 3-speed		Kubota 3.8L DuraMatch™ 3-speed / DuraMatch™ Plus 3-speed		GM 5.7L DuraMatch™ 3-speed / DuraMatch™ Plus 3-speed		Cummins 3.3L DuraMatch™ 3-speed	
Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes	
Diesel		Diesel		LPG		Diesel	
Seated		Seated		Seated		Seated	
8 000		8 000		8 000		8 000	
600		600		600		900	
613,5		613,5		613,5		664,5	
2 450		2 450		2 450		2 450	
11 259		11 259		11 340		12 169	
17 416	1 844	17 416	1 844	17 434	1 907	18 418	1 751
5 453	5 806	5 453	5 806	5 471	5 869	5 310	6 859
P		P		P		P	
8.25 x 15 -14PR ¹		8.25 x 15 -14PR ¹		8.25 x 15 -14PR ¹		8.25 x 15 -14PR ¹	
8.25 x 15 -14PR ¹		8.25 x 15 -14PR ¹		8.25 x 15 -14PR ¹		8.25 x 15 -14PR ¹	
4X	2 ¹	4X	2 ¹	4X	2 ¹	4X	2 ¹
2 003		2 003		2 003		2 003	
1 535,6		1 535,6		1 535,6		1 535,6	
5		5		5		5	
g ²		g ²		g ²		g ²	
3 962		3 962		3 962		3 962	
0		0		0		0	
5 500	5 565	5 500	5 565	5 500	5 565	5 500	5 565
6 725		6 725		6 725		6 725	
2 531		2 531		2 531		2 531	
2 549		2 549		2 549		2 549	
1 540		1 540		1 540		1 540	
476		476		476		476	
5 096,5		5 096,5		5 096,5		5 238	
3 896,5		3 896,5		3 896,5		4 089	
2 239		2 239		2 239		2 239	
65	200 1 200	65	200 1 200	65	200 1 200	65	200 1 200
IV A		IV A		IV A		IV A	
2 030 ³		2 030 ³		2 030 ³		2 030 ³	
173		173		173		173	
253		253		253		253	
5 486,5		5 486,5		5 486,5		5 658,5	
5 686,5		5 686,5		5 686,5		5 858,5	
3 673		3 673		3 673		3 794	
1 482		1 482		1 482		1 482	
3 045		3 045		3 045		3 115	
321		321		321		321	
256		256		256		256	
—		—		22,9		23,5	
23,2	23,8	—	—	—		23,2	23,8
—		23,2		—		—	
0,43	0,45	0,43	0,45	0,35	0,42	0,42	0,45
0,41	0,37	0,41	0,37	0,41	0,37	0,41	0,37
—		—		53		32	
53,4	32,2	—		—		53,4	30,6
—		53,4		—		—	
—		—		30		31	
29,5	30,5	—		—		28,1	26,6
—		29,5		—		—	
Hydraulic		Hydraulic		Hydraulic		Hydraulic	
Cummins QSB3.3		Kubota 3.8L		GM 5.7L		Cummins QSB3.3	
82 @ 2 400		82 @ 2 400		97 @ 2 400		82 @ 2 400	
2 430		2 400		2 400		2 430	
4	3 261	4	3 769	8	5 735	4	3 261
9,4		9,1		19,8		9,8	
Electronically Controlled Powershift		Electronically Controlled Powershift		Electronically Controlled Powershift		Electronically Controlled Powershift	
155		155		155		155	
93		93		93		93	
70,9		70,9		70,9		70,9	
74,8		74,8		—		74,8	
79	79	79	79	82	79	79	79
106		105		107		106	
Pin		Pin		Pin		Pin	

Specification data is based on VDI 2198.

NOTES:

Kubota V3.8L Diesel engine must run on Ultra Low Sulphur Diesel (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.

HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		1.1	DISTINGUISHING MARK
H8.0FT9		H8.0FT9		H9.0FT6		H9.0FT6		H9.0FT6		1.2	
Fortens Advance / Fortens Advance+		Fortens Advance / Fortens Advance+		Fortens		Fortens Advance / Fortens Advance+		Fortens Advance / Fortens Advance+			
Kubota 3.8L		GM 5.7L		Cummins 3.3L		Kubota 3.8L		GM 5.7L			
DuraMatch™ 3-speed / DuraMatch™ Plus 3-speed		DuraMatch™ 3-speed / DuraMatch™ Plus 3-speed		DuraMatch™ 3-speed		DuraMatch™ 3-speed / DuraMatch™ Plus 3-speed		DuraMatch™ 3-speed / DuraMatch™ Plus 3-speed			
Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes			
Diesel		LPG		Diesel		Diesel		LPG		1.3	
Seated		Seated		Seated		Seated		Seated		1.4	
8 000		8 000		9 000		9 000		9 000		1.5	
900		900		600		600		600		1.6	
664,5		664,5		613,5		613,5		613,5		1.8	
2 450		2 450		2 450		2 450		2 450		1.9	
12 169		12 352		11 624		11 624		11 809		2.1	WEIGHTS
18 418	1 751	18 281	2 042	18 762	1 967	18 762	1 967	18 780	2 030	2.2	
5 310	6 859	5 385	6 967	5 304	6 424	5 304	6 424	5 322	6 487	2.3	
P		P		P		P		P		3.1	TYRES/CHASSIS
8.25 x 15 -14PR ¹		8.25 x 15 -14PR ¹		8.25 x 15 -14PR ¹		8.25 x 15 -14PR ¹		8.25 x 15 -14PR		3.2	
8.25 x 15 -14PR ¹		8.25 x 15 -14PR ¹		8.25 x 15 -14PR ¹		8.25 x 15 -14PR ¹		8.25 x 15 -14PR		3.3	
4X	2 ¹	4X	2 ¹	4X	2 ¹	4X	2 ¹	4X	2 ¹	3.5	
2 003		2 003		2 003		2 003		2 003		3.6	
1 535,6		1 535,6		1 535,6		1 535,6		1 535,6		3.7	
5		5		5		5		5		4.1	DIMENSIONS
3 962		3 962		3 962		3 962		3 962		4.2	
0		0		0		0		0		4.3	
5 500	5 565	5 500	5 565	5 500	5 565	5 500	5 565	5 500	5 565	4.4	
6 725		6 725		6 725		6 725		6 725		4.5	
2 531		2 531		2 531		2 531		2 531		4.7	
2 549		2 549		2 549		2 549		2 549		4.7.1	
1 540		1 540		1 540		1 540		1 540		4.8	
476		476		476		476		476		4.12	
5 238		5 238		5 158,1		5 158,1		5 158,1		4.19	
4 089		4 089		3 958,1		3 958		3 958,1		4.20	
2 239		2 239		2 239		2 239		2 239		4.21	
65	200 1 200	65	200 1 200	65	200 1 200	65	200 1 200	65	200 1 200	4.22	
IV A		IV A		IV A		IV A		IV A		4.23	
2 030 ³		2 030 ³		2 030 ³		2 030 ³		2 030 ³		4.24	
173		173		173		173		173		4.31	
253		253		253		253		253		4.32	
5 658,5		5 658,5		5 536,5		5 536,5		5 536,5		4.33	
5 858,5		5 858,5		5 736,5		5 736,5		5 736,5		4.34	
3 794		3 794		3 723		3 723		3 723		4.35	
1 482		1 482		1 482		1 482		1 482		4.36	
3 115		3 115		3 074		3 074		3 074		4.41	
321		321		321		321		321		4.42	
256		256		256		256		256		4.43	
—		22,9	23,5	—	—	—	—	22,9	23,5	5.1	PERFORMANCE DATA
—		—	—	23,2	23,8	—	—	—	—		
23,2	23,8	—	—	—	—	23,2	23,8	—	—		
0,42	0,45	0,36	0,44	0,42	0,45	0,42	0,45	0,35	0,42	5.2	
0,41	0,37	0,41	0,37	0,41	0,37	0,41	0,37	0,41	0,37	5.3	
—	—	53	31	—	—	—	—	53	31	5.5	
—	—	—	—	53,4	31,4	—	—	—	—		
53,4	30,6	—	—	—	—	53,4	31,4	—	—		
—	—	28	27	—	—	—	—	27	28	5.7	
—	—	—	—	27,2	28,4	—	—	—	—		
28,1	26,6	—	—	—	—	27,2	28,4	—	—		
Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		5.10	
Kubota 3.8L		GM 5.7L		Cummins QSB3.3		Kubota 3.8L		GM 5.7L		7.1	COMBUSTION-ENGINE
82 @ 2 400		97 @ 2 400		82 @ 2 400		82 @ 2 400		97 @ 2 400		7.2	
2 400		2 400		2 430		2 400		2 400		7.3	
4	3 769	8	5 735	4	3 261	4	3 679	8	5 735	7.4	
9,4		20,8		10,4		9,8		20,8		7.5	
Electronically Controlled Powershift		Electronically Controlled Powershift		Electronically Controlled Powershift		Electronically Controlled Powershift		Electronically Controlled Powershift		8.1	ADDITIONAL DATA
155		155		155		155		155		10.1	
93		93		93		93		93		10.2	
70,9		70,9		70,9		70,9		70,9		10.3	
74,8		—		74,8		74,8		—		10.4	
79	79	82	79	79	79	79	79	82	79	10.7	
105		107		106		105		107		10.7.1	
Pin		Pin		Pin		Pin		Pin		10.8	

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)
2-Stage Limited Free Lift	3 065	9°	2 712	4 350 ❖	0
	3 565	9°	2 962	4 850 ❖	0
	4 565	9°	3 462	5 850 ❖	0
	5 565	9°	3 962	6 850 ❖	0
	6 065	9°	4 212	7 350 ❖	0
3-Stage Full Free Lift	4 615	6°	2 702	6 077 ❖	1 565 ⬅
	5 515	6°	3 002	6 977 ❖	1 865 ⬅
	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	9°	2 712	4 398 ❖	0
	3 565	9°	2 962	4 898 ❖	0
	4 565	9°	3 462	5 898 ❖	0
	5 565	9°	3 962	6 898 ❖	0
	6 065	9°	4 212	7 398 ❖	0
3-Stage Full Free Lift	4 615	6°	2 712	6 125 ❖	1 405 ⬅
	5 515	6°	3 012	7 025 ❖	1 705 ⬅
	5 965	6°	3 162	7 475 ❖	1 855 ⬅

H8.0FT6-H8.0FT9 – Capacity Chart in kg

Dual Pneumatic Tyres							
	With carriage only						
	Maximum fork height mm (h ₃ +s)	H8.0FT6 mast		H8.0FT9 mast		H9.0FT mast	
		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	8 000	8 000kg to 5 815mm	8 000	8 000kg to 5 265mm 8 000kg to 5 265mm	9 000	9 000kg to 5 315mm 9 000kg to 5 315mm
	3 565	8 000		8 000		9 000	
	4 565	8 000		8 000		9 000	
	5 565	8 000		7 920		8 720	
	6 065	7 710		7 770		8 120	
3-Stage Limited Free Lift	4 615	8 000	8 000kg to 5 915mm	8 000	8 000kg to 4 615mm 8 000kg to 4 615mm	9 000	9 000kg to 5 365mm 9 000kg to 5 365mm
	5 515	8 000		7 770		8 830	
	5 965	7 940		7 650		8 300	

Dual Pneumatic Tyres							
	With carriage + sideshift						
	Maximum fork height mm (h ₃ +s)	H8.0FT6 mast		H8.0FT9 mast		H9.0FT mast	
		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	7 580	7 510kg to 5 815mm	7 540	7 500kg to 5 265mm 7 480kg to 5 265mm	8 500	8 450kg to 5 315mm 8 440kg to 5 315mm
	3 565	7 570		7 530		8 490	
	4 565	7 540		7 400		8 470	
	5 565	7 520		6 560		8 190	
	6 065	7 240		6 070		7 620	
3-Stage Limited Free Lift	4 615	7 560	7 530kg to 5 915mm	7 410	7 530kg to 4 615mm 7 510kg to 4 615mm	8 500	8 480kg to 5 365mm 8 470kg to 5 365mm
	5 515	7 540		6 650		8 320	
	5 965	7 480		6 220		7 810	

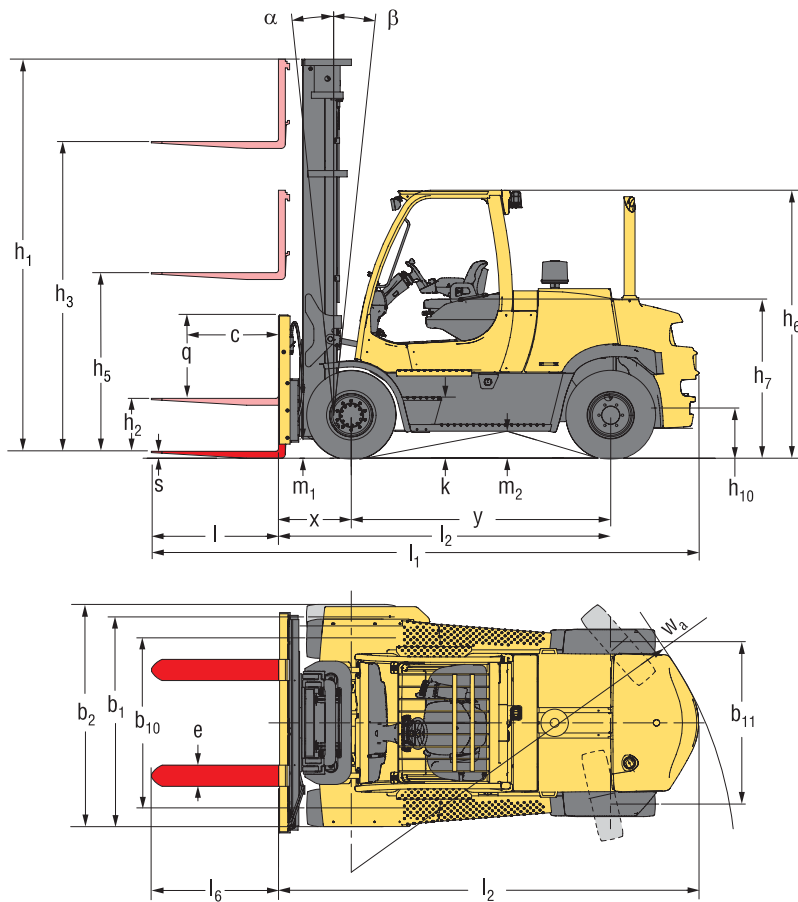
Dual Pneumatic Tyres							
	With carriage + sideshifting fork positioner						
	Maximum fork height mm (h ₃ +s)	H8.0FT6 mast		H8.0FT9 mast		H9.0FT mast	
		Capacity at Max height	Capacity to lift height	Capacity at Max height	Capacity to lift height	Capacity at Max height	Capacity to lift height
2-Stage Limited Free Lift	3 065	7 530	7 460kg to 5 815mm	7 550	7 460kg to 5 265mm 7 440kg to 5 265mm	8 460	8 400kg to 5 315mm 8 390kg to 5 315mm
	3 565	7 520		7 530		8 440	
	4 565	7 500		7 500		8 420	
	5 565	7 470		7 390		8 140	
	6 065	7 200		7 240		7 570	
3-Stage Limited Free Lift	4 615	7 530	7 500kg to 5 915mm	7 530	7 500kg to 4 615mm 7 480kg to 4 615mm	8 470	8 450kg to 5 365mm 8 430kg to 5 365mm
	5 515	7 510		7 290		8 290	
	5 965	7 450		7 150		7 780	

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



= Centre of gravity of unladen truck

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

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

a = 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.

- ¶ Bottom of forks/top of forks
- ✦ Without load backrest
- h_6 subject to ± 5 mm tolerance, 2 549 mm for cab option.
- Full-suspension seat in depressed position
- Add 50 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
- ◇ 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

EQUIPMENT AND WEIGHT:

Weights and axle loadings (lines 2.1, 2.2, 2.3) are based on the following specifications:

8.0T-6: Complete truck with with 5 500 mm BOF (5 565 mm TOF) 2-stage limited free lift mast, 2 030 mm wide standard carriage and 1 200 mm long forks.

8.0T-9: Complete truck with with 4 500 mm BOF (4 565 mm TOF) 2-stage limited free lift mast, 2 030 mm wide standard carriage and 1 800 mm long forks.

9.0T-6: Complete truck with with 4 500 mm BOF (4 565 mm TOF) 2-stage limited free lift mast, 2 030 mm wide standard carriage and 1 200 mm long forks.

MAST TABLES:

- ❖ Deduct 125 mm without load backrest
- ❖ Deduct 125 mm with load backrest

NOTICE

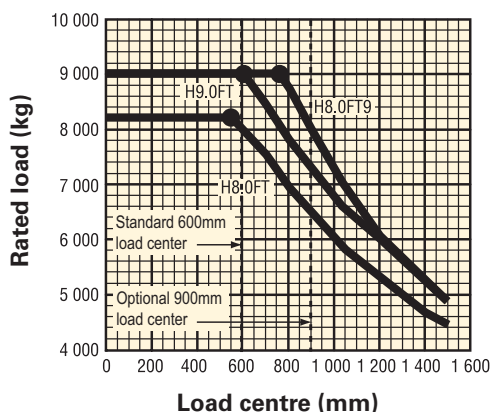
Care must be exercised when handling elevated loads. When the carriage and/or load is elevated, truck stability is reduced. It is important that mast tilt in either direction be kept to a minimum when loads are elevated. Operators must be trained and adhere to the instructions contained in the Operating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

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



This truck conforms to the current EU requirements.

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 5 065 to 5 565 mm, depending on model. Special forks with higher load ratings may be needed to obtain full rating with load centers $> 1\ 100$ mm

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	Cummins 3.3L Turbo	DuraMatch™ 3 Speed	Wet Brakes	Cummins 3.3L Turbo	DuraMatch™ 3 Speed	Wet Brakes	Cummins 3.3L Turbo	DuraMatch™ 3 Speed	Wet Brakes
Fortens Advance	Kubota V3.8L ☐ Turbo	DuraMatch™ 3 Speed	Wet Brakes	Kubota V3.8L ☐ Turbo	DuraMatch™ 3 Speed	Wet Brakes	Kubota V3.8L ☐ Turbo	DuraMatch™ 3 Speed	Wet Brakes
Fortens Advance+	Kubota V3.8L ☐ Turbo	DuraMatch™ Plus 3 Speed	Wet Brakes	Kubota V3.8L ☐ Turbo	DuraMatch™ Plus 3 Speed	Wet Brakes	Kubota V3.8L ☐ Turbo	DuraMatch™ Plus 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 Speed	Wet Brakes	GM 5.7L V8	DuraMatch™ 3 Speed	Wet Brakes	GM 5.7L V8	DuraMatch™ 3 Speed	Wet Brakes
Fortens Advance+	GM 5.7L V8	DuraMatch™ Plus 3 Speed	Wet Brakes	GM 5.7L V8	DuraMatch™ Plus 3 Speed	Wet Brakes	GM 5.7L V8	DuraMatch™ Plus 3 Speed	Wet Brakes

Please refer to the Price List for full option configurations.

NOTES

☐ 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.

PRODUCT FEATURES

The new 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 models feature the Stage IIIA certified Cummins QSB3.3L (**82 kW@2 400rpm**) diesel engine and is available for unregulated markets. Fortens Advance & Advance+ models feature the new Stage IIIB compatible Kubota V3800 E4 3.8L diesel engine or GM 5.7L V8 LPG engine for regulated markets.

LOW EMISSION ENGINES FORM KUBOTA

The Stage IIIB Kubota V3800 E4 3.8L (**82 kW@2 400rpm**) 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 recognizable by the Stage IIIB 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 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 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. 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.

- 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.™

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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