

FORTENS™

STRONG PARTNERS. TOUGH TRUCKS.

IC Counterbalanced Lift Trucks
H4.0-5.5FT Fortens / Fortens Advance / Fortens Advance+

4 000 – 5 500 kg



Fortens H4.0FT, H4.5FT, H5.0FT, H5.5FT

CHARACTERISTICS	1.1	Manufacturer	
	1.2	Model designation	
		Model - Manufacturer designation	
		Engine / transmission	
		Brake type	
	1.3	Power: battery, diesel, LPG, electric mains	
	1.4	Operation: manual, pedestrian, stand, seat, orderpicker	
	1.5	Load capacity	Q (kg)
	1.6	Load centre	c (mm)
1.8	Load distance	x (mm)	
1.9	Wheelbase	y (mm)	

HYSTER		HYSTER		HYSTER		HYSTER		HYSTER	
H4.0FT5		H4.0FT5		H4.0FT6		H4.0FT6		H4.5FTS5	
Fortens		Fortens		Fortens		Fortens		Fortens	
Cummins 3.3L DuraMatch		GM 4.3L DuraMatch		Cummins 3.3L DuraMatch		GM 4.3L DuraMatch		Cummins 3.3L DuraMatch	
ADS Drum		ADS Drum		ADS Drum		ADS Drum		ADS Drum	
Diesel		LPG		Diesel		LPG		Diesel	
Seat		Seat		Seat		Seat		Seat	
4 000		4 000		4 000		4 000		4 500	
500		500		600		600		500	
522,1		522,1		522,1		522,1		522,1	
1 830		1 830		1 830		1 830		1 830	

WEIGHTS	2.1	Unladen weight	kg
	2.2	Axle loading with load, front/rear	kg
	2.3	Axle loading without load, front/rear	kg

6 298		6 033		6 672		6 243		6 630	
8 849	1 077	8 464	1 198	8 910	1 390	8 999	1 243	9 496	1 216
2 923	3 375	2 603	3 429	3 003	3 669	2 561	3 682	2 829	3 801

WHEELS & TYRES	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	Track width, front	b ₁₀ (mm)
	3.7	Track width, rear	b ₁₁ (mm)

SE		SE		SE		SE		SE	
250 x 15		250 x 15		250 x 15		250 x 15		250 x 15	
7,00 x 12		7,00 x 12		7,00 x 12		7,00 x 12		7,00 x 12	
2X	2	2X	2	2X	2	2X	2	2X	2
1 152		1 152		1 152		1 152		1 152	
1 136		1 136		1 136		1 136		1 136	

DIMENSIONS	4.1	Mast tilt, α = forward/β = back	degrees
	4.2	Height of mast, lowered	h ₁ (mm)
	4.3	Free lift ↑	h ₂ (mm)
	4.4	Lift height ↑	h ₃ (mm)
	4.5	Height of mast, extended +	h ₄ (mm)
	4.7	Overhead guard height ■	h ₅ (mm)
	4.8	Seat height ○	h ₇ (mm)
	4.12	Towing 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, standard/wide/dual drive	b ₁ /b ₂ (mm)
	4.22	Fork dimensions	s/e/l (mm)
	4.23	Fork carriage DIN 15173, Class, A/B	
	4.24	Fork carriage width ●	b ₃ (mm)
	4.31	Ground clearance under mast, with load	m ₁ (mm)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)
4.33	Aisle width with pallets 1 000 mm x 1 200 mm wide ◆	Ast (mm)	
4.34	Aisle width with pallets 800 mm x 1 200 mm long ◆	Ast (mm)	
4.35	Outer turning radius	W _o (mm)	
4.36	Inner turning radius	b ₁₃ (mm)	

6		10		6		10		6		10		6		10	
2 175		2 175		2 175		2 175		2 175		2 175		2 215		2 215	
100		100		100		100		100		100		100		100	
3 000		3 000		3 000		3 000		3 000		3 000		2 740		2 740	
3 815		3 815		3 815		3 815		3 815		3 815		3 730		3 730	
2 258		2 258		2 258		2 258		2 258		2 258		2 258		2 258	
1 159		1 159		1 159		1 159		1 159		1 159		1 159		1 159	
429		429		429		429		429		429		429		429	
3 945		3 945		4 176		4 176		4 176		4 176		4 197		4 197	
2 945		2 945		2 976		2 976		2 976		2 976		2 997		2 997	
1 402	1 485	1 773	1 402	1 485	1 773	1 402	1 485	1 773	1 402	1 485	1 773	1 402	1 485	1 773	
50	125	1 000	50	125	1 000	50	125	1 200	50	125	1 200	60	150	1 200	
III A			III A			III A			III A			IV A			
1 219		1 219		1 219		1 219		1 219		1 219		1 219		1 219	
151		151		150		150		150		150		194		194	
194		194		194		194		194		194		194		194	
4 388		4 388		4 417		4 417		4 417		4 417		4 437		4 437	
4 527		4 527		4 556		4 556		4 556		4 556		4 576		4 576	
2 570		2 570		2 599		2 599		2 599		2 599		2 619		2 619	
50		50		50		50		50		50		50		50	

PERFORMANCE	5.1	Travel speed with/without load	km/h
	5.2	Lifting speed with/without load	m/sec
	5.3	Lowering speed with/without load	m/sec
	5.5	Drawbar pull with/without load @ 1,6 km/h	N
	5.6	Maximum drawbar pull with/without load	N
	5.7	Gradeability with/without load @ 4,8 km/h †	%
	5.8	Maximum gradeability with/without load @ 1,6 km/h †	%
	5.10	Service brake	

18,7		19,5		18,7		19,5		18,7		19,5		18,7		19,5	
0,60		0,66		0,61		0,62		0,60		0,66		0,61		0,62	
0,55		0,47		0,55		0,47		0,55		0,47		0,55		0,47	
25 500		17 500		24 800		16 800		25 400		18 000		24 700		16 500	
28 600		17 500		27 600		16 800		28 600		18 000		27 500		16 500	
20,2		29,6		20,9		29,6		19,0		28,7		19,5		28,1	
27,1		29,6		27,1		29,6		25,4		28,7		25,4		28,1	
Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic	

ENGINE	7.1	Engine manufacturer/type	
	7.2	Engine output, in accordance with ISO 1585	kW
	7.3	Governed speed	rpm
	7.4	Number of cylinders/displacements	cm ³

Cummins QSB3.3		GM 4.3L		Cummins QSB3.3		GM 4.3L		Cummins QSB3.3	
60		77		60		77		60	
2 200		2 400		2 200		2 400		2 200	
4	3 261	6	4 302	4	3 261	6	4 302	4	3 261

OTHER	8.1	Drive control	
	8.2	Working pressure for attachments	bar
	8.3	Oil flow for attachments ‡	l/min
	8.4	Average noise level at operator's ear no cab/cab (Lpaz) ◇	dB (A)
	8.4	Guaranteed sound power 2001/14/EC (Lwaz)	dB
8.5	Towing coupling type		

Automatic		Automatic		Automatic		Automatic		Automatic	
155		155		155		155		155	
83,3		83,3		83,3		83,3		83,3	
79	79	82	80	79	79	82	80	79	79
104		105		104		105		104	
Pin		Pin		Pin		Pin		Pin	

Specification Data is based on VDI 2198

Equipment and weight:

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

Complete truck with 3 050 mm (H4.0FT), 2 800 mm (H4.5-5.5FT) 2-stage limited free lift mast, standard carriage, 1 000 mm (H4.0FT) / 1 200 mm (H4.5-5.5FT) forks, e-hydraulics, overhead guard and standard pneumatic shaped solid drive and steer tyres.

HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		
H4,5FTS5		H4,5FT6		H4,5FT6		H5,0FT		H5,0FT		H5,5FT		H5,5FT		1.1
Fortens		Fortens		Fortens		Fortens		Fortens		Fortens		Fortens		1.2
GM 4.3L DuraMatch		Cummins 3.3L DuraMatch		GM 4.3L DuraMatch		Cummins 3.3L DuraMatch		GM 4.3L DuraMatch		Cummins 3.3L DuraMatch		GM 4.3L DuraMatch		
ADS Drum		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		
LPG		Diesel		LPG		Diesel		LPG		Diesel		LPG		1.3
Seat		Seat		Seat		Seat		Seat		Seat		Seat		1.4
4 500		4 500		4 500		5 000		5 000		5 500		5 500		1.5
500		600		600		600		600		600		600		1.6
522,1		590		590		590		590		590		590		1.8
1 830		2 100		2 100		2 100		2 100		2 100		2 100		1.9

CHARACTERISTICS

6 368		7 224		6 939		7 523		7 244		7 808		7 529		2.1
9 095		1 356		10 596		1 164		10 265		1 210		11 241		1 272
10 913		1 320		11 882		1 370		11 555		1 417		2.2		
2 526		3 842		3 473		3 751		3 152		3 787		3 406		4 117
3 089		4 155		3 335		4 474		3 016		4 513		2.3		

WEIGHTS

SE		SE		SE		SE		SE		SE		SE		
250 x 15		300 x 15		300 x 15		300 x 15		300 x 15		300 x 15		300 x 15		3.1
7,00 x 12		28 x 9 - 15		28 x 9 - 15		28 x 9 - 15		28 x 9 - 15		28 x 9 - 15		28 x 9 - 15		3.2
2X		2		2X		2		2X		2		2X		2
1 152		1 150		1 150		1 150		1 150		1 150		1 150		3.5
1 136		1 136		1 136		1 136		1 136		1 136		1 136		3.6
1 136		1 136		1 136		1 136		1 136		1 136		1 136		3.7

WHEELS & TYRES

6		10		6		10		6		10		6		10		
2 215		2 215		2 215		2 215		2 215		2 215		2 215		2 215		4.1
100		100		100		100		100		100		100		100		4.2
2 740		2 740		2 740		2 740		2 740		2 740		2 740		2 740		4.3
3 730		3 730		3 730		3 730		3 730		3 730		3 730		3 730		4.4
2 258		2 300		2 300		2 300		2 300		2 300		2 300		2 300		4.5
1 159		1 201		1 201		1 201		1 201		1 201		1 201		1 201		4.6
429		472		472		472		472		472		472		472		4.7
4 197		4 456		4 456		4 499		4 499		4 540		4 540		4 540		4.8
2 997		3 256		3 256		3 299		3 299		3 340		3 340		3 340		4.9
1 402		1 485		1 773		1 450		1 575		1 875		1 450		1 575		1 875
60		150		1 200		60		150		1 200		60		150		1 200
IV A		IV A		IV A		IV A		IV A		IV A		IV A		IV A		4.21
1 219		1 219		1 219		1 219		1 219		1 219		1 219		1 219		4.22
194		194		194		194		194		194		194		194		4.23
194		237		237		237		237		237		237		237		4.24
4 437		4 695		4 695		4 735		4 735		4 773		4 773		4 773		4.25
4 576		4 847		4 847		4 887		4 887		4 925		4 925		4 925		4.26
2 619		2 837		2 837		2 877		2 877		2 915		2 915		2 915		4.27
50		131		131		131		131		131		131		131		4.28

DIMENSIONS

18,7		19,5		18,1		18,4		18,2		18,5		18,1		18,4		18,2		18,5		5.1
0,56		0,57		0,48		0,53		0,56		0,57		0,48		0,53		0,56		0,57		5.2
0,51		0,42		0,51		0,42		0,51		0,42		0,51		0,42		0,51		0,42		5.3
24 700		16 300		25 900		21 300		25 100		20 200		25 700		20 900		25 000		20 000		25 600
27 500		16 300		29 200		21 300		28 100		20 200		29 100		20 900		28 000		20 000		29 000
19,0		27,1		17,0		28,1		17,5		31,1		15,9		26,6		16,3		29,4		14,9
24,8		27,1		23,0		31,5		22,9		31,1		21,5		29,6		21,3		29,4		20,1
Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		5.10

PERFORMANCE

GM 4.3L		Cummins QSB3.3		GM 4.3L		Cummins QSB3.3		GM 4.3L		Cummins QSB3.3		GM 4.3L		
77		60		77		60		77		60		77		7.1
2 400		2 200		2 400		2 200		2 400		2 200		2 400		7.2
6		4 302		4		3 261		6		4 302		4		3 261
6		4 302		4		3 261		6		4 302		4		3 261
6		4 302		4		3 261		6		4 302		4		3 261
6		4 302		4		3 261		6		4 302		4		3 261

ENGINE

Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		8.1
155		155		155		155		155		155		155		8.2
83,3		83,3		83,3		83,3		83,3		83,3		83,3		8.3
82		80		79		79		82		80		79		79
105		104		105		104		105		104		105		8.4
Pin		Pin		Pin		Pin		Pin		Pin		Pin		8.5

OTHER

Fortens Advance H4.0FT, H4.5FT, H5.0FT, H5.5FT

CHARACTERISTICS	1.1	Manufacturer	
	1.2	Model designation	
		Model - Manufacturer designation	
		Engine / transmission	
		Brake type	
	1.3	Power: battery, diesel, LPG, electric mains	
	1.4	Operation: manual, pedestrian, stand, seat, orderpicker	
	1.5	Load capacity	Q (kg)
	1.6	Load centre	c (mm)
	1.8	Load distance	x (mm)
1.9	Wheelbase	y (mm)	

HYSTER		HYSTER		HYSTER		HYSTER		HYSTER	
H4.0FT5		H4.0FT5		H4.0FT6		H4.0FT6		H4.5FTS5	
Fortens Advance		Fortens Advance		Fortens Advance		Fortens Advance		Fortens Advance	
Cummins 3.3L DuraMatch2		GM 4.3L DuraMatch2		Cummins 3.3L DuraMatch2		GM 4.3L DuraMatch2		Cummins 3.3L DuraMatch2	
ADS Drum or Wet Brakes		ADS Drum or Wet Brakes		ADS Drum or Wet Brakes		ADS Drum or Wet Brakes		ADS Drum or Wet Brakes	
Diesel		LPG		Diesel		LPG		Diesel	
Seat		Seat		Seat		Seat		Seat	
4 000		4 000		4 000		4 000		4 500	
500		500		600		600		500	
522,1		522,1		522,1		522,1		522,1	
1 830		1 830		1 830		1 830		1 830	

WEIGHTS	2.1	Unladen weight	kg
	2.2	Axle loading with load, front/rear	kg
	2.3	Axle loading without load, front/rear	kg

6 298		6 033		6 672		6 243		6 630	
8 849	1 077	8 464	1 198	8 910	1 390	8 999	1 243	9 496	1 216
2 923	3 375	2 603	3 429	3 003	3 669	2 561	3 682	2 829	3 801

WHEELS & TYRES	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	Track width, front	b ₁₀ (mm)
	3.7	Track width, rear	b ₁₁ (mm)

SE		SE		SE		SE		SE	
250 x 15		250 x 15		250 x 15		250 x 15		250 x 15	
7,00 x 12		7,00 x 12		7,00 x 12		7,00 x 12		7,00 x 12	
2X	2	2X	2	2X	2	2X	2	2X	2
1 152		1 152		1 152		1 152		1 152	
1 136		1 136		1 136		1 136		1 136	

DIMENSIONS	4.1	Mast tilt, α = forward/β = back	degrees
	4.2	Height of mast, lowered	h ₁ (mm)
	4.3	Free lift ↑	h ₂ (mm)
	4.4	Lift height ↑	h ₃ (mm)
	4.5	Height of mast, extended +	h ₄ (mm)
	4.7	Overhead guard height ■	h ₅ (mm)
	4.8	Seat height ○	h ₇ (mm)
	4.12	Towing 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, standard/wide/dual drive	b ₁ /b ₂ (mm)
	4.22	Fork dimensions	s/e/l (mm)
	4.23	Fork carriage DIN 15173, Class, A/B	
	4.24	Fork carriage width ●	b ₃ (mm)
	4.31	Ground clearance under mast, with load	m ₁ (mm)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)
4.33	Aisle width with pallets 1 000 mm x 1 200 mm wide ◆	Ast (mm)	
4.34	Aisle width with pallets 800 mm x 1 200 mm long ◆	Ast (mm)	
4.35	Outer turning radius	W _o (mm)	
4.36	Inner turning radius	b ₁₃ (mm)	

6		10		6		10		6		10		6		10			
2 175		2 175		2 175		2 175		2 175		2 175		2 215		2 215			
100		100		100		100		100		100		100		100			
3 000		3 000		3 000		3 000		3 000		3 000		2 740		2 740			
3 815		3 815		3 815		3 815		3 815		3 815		3 730		3 730			
2 258		2 258		2 258		2 258		2 258		2 258		2 258		2 258			
1 159		1 159		1 159		1 159		1 159		1 159		1 159		1 159			
429		429		429		429		429		429		429		429			
3 945		3 945		4 176		4 176		4 176		4 176		4 197		4 197			
2 945		2 945		2 976		2 976		2 976		2 976		2 997		2 997			
1 402	1 485	1 773	1 402	1 485	1 773	1 402	1 485	1 773	1 402	1 485	1 773	1 402	1 485	1 773	1 402	1 485	1 773
50	125	1 000	50	125	1 000	50	125	1 200	50	125	1 200	60	150	1 200	60	150	1 200
III A			III A			III A			III A			IV A					
1 219		1 219		1 219		1 219		1 219		1 219		1 219		1 219			
151		151		150		150		150		150		194		194			
194		194		194		194		194		194		194		194			
4 388		4 388		4 417		4 417		4 417		4 417		4 437		4 437			
4 527		4 527		4 556		4 556		4 556		4 556		4 576		4 576			
2 570		2 570		2 599		2 599		2 599		2 599		2 619		2 619			
50		50		50		50		50		50		50		50			

PERFORMANCE	5.1	Travel speed with/without load	km/h
	5.2	Lifting speed with/without load	m/sec
	5.3	Lowering speed with/without load	m/sec
	5.5	Drawbar pull with/without load @ 1,6 km/h	N
	5.6	Maximum drawbar pull with/without load	N
	5.7	Gradeability with/without load @ 4,8 km/h †	%
	5.8	Maximum gradeability with/without load @ 1,6 km/h †	%
	5.10	Service brake	

20,7	21,6	23,3	24,4	20,7	21,6	23,3	24,4	20,7	21,6
0,60	0,66	0,61	0,62	0,60	0,66	0,61	0,62	0,48	0,53
0,55	0,47	0,55	0,47	0,55	0,47	0,55	0,47	0,51	0,42
32 900	17 500	29 400	16 800	32 800	18 000	29 300	16 500	32 800	17 000
38 900	17 500	33 500	16 800	38 700	18 000	33 400	16 500	38 700	17 000
24,6	29,6	23,4	29,6	23,6	28,7	21,8	28,1	22,6	27,1
35,9	29,6	32,7	29,6	34,4	28,7	30,5	28,1	32,8	27,1
Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic	

ENGINE	7.1	Engine manufacturer/type	
	7.2	Engine output, in accordance with ISO 1585	kW
	7.3	Governed speed	rpm
	7.4	Number of cylinders/displacements	cm ³

Cummins QSB3.3		GM 4.3L		Cummins QSB3.3		GM 4.3L		Cummins QSB3.3	
60		77		60		77		60	
2 200		2 400		2 200		2 400		2 200	
4	3 261	6	4 302	4	3 261	6	4 302	4	3 261

OTHER	8.1	Drive control	
	8.2	Working pressure for attachments	bar
	8.3	Oil flow for attachments †	l/min
	8.4	Average noise level at operator's ear no cab/cab (Lpaz) ◇	dB (A)
		Guaranteed sound power 2001/14/EC (Lwaz)	dB
8.5	Towing coupling type		

Automatic		Automatic		Automatic		Automatic		Automatic	
155		155		155		155		155	
83,3		83,3		83,3		83,3		83,3	
79	79	82	80	79	79	82	80	79	79
104		105		104		105		104	
Pin		Pin		Pin		Pin		Pin	

Specification Data is based on VDI 2198

Equipment and weight:

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

Complete truck with 3 050 mm (H4.0FT), 2 800 mm (H4.5-5.5FT) 2-stage limited free lift mast, standard carriage, 1 000 mm (H4.0FT) / 1 200 mm (H4.5-5.5FT) forks, e-hydraulics, overhead guard and standard pneumatic shaped solid drive and steer tyres.

HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		
H4,5FTS5		H4,5FT6		H4,5FT6		H5,0FT		H5,0FT		H5,5FT		H5,5FT		1.1
Fortens Advance		Fortens Advance		Fortens Advance		Fortens Advance		Fortens Advance		Fortens Advance		Fortens Advance		1.2
GM 4.3L DuraMatch2		Cummins 3.3L DuraMatch2		GM 4.3L DuraMatch2		Cummins 3.3L DuraMatch2		GM 4.3L DuraMatch2		Cummins 3.3L DuraMatch2		GM 4.3L DuraMatch2		
ADS Drum or Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		
LPG		Diesel		LPG		Diesel		LPG		Diesel		LPG		1.3
Seat		Seat		Seat		Seat		Seat		Seat		Seat		1.4
4 500		4 500		4 500		5 000		5 000		5 500		5 500		1.5
500		600		600		600		600		600		600		1.6
522,1		590		590		590		590		590		590		1.8
1 830		2 100		2 100		2 100		2 100		2 100		2 100		1.9

CHARACTERISTICS

6 368		7 224		6 939		7 523		7 244		7 808		7 529		2.1	
9 095		1 356		10 596		1 164		10 265		1 210		11 241		1 272	2.2
2 526		3 842		3 473		3 751		3 152		3 787		3 406		4 117	2.3

WEIGHTS

SE		SE		SE		SE		SE		SE		SE			
250 x 15		300 x 15		300 x 15		300 x 15		300 x 15		300 x 15		300 x 15		3.1	
7,00 x 12		28 x 9 - 15		28 x 9 - 15		28 x 9 - 15		28 x 9 - 15		28 x 9 - 15		28 x 9 - 15		3.2	
2X		2		2X		2		2X		2		2X		2	3.3
1 152		1 150		1 150		1 150		1 150		1 150		1 150		3.5	
1 136		1 136		1 136		1 136		1 136		1 136		1 136		3.6	
1 136		1 136		1 136		1 136		1 136		1 136		1 136		3.7	

WHEELS & TYRES

6		10		6		10		6		10		6		10			
2 215		2 215		2 215		2 215		2 215		2 215		2 215		2 215		4.1	
100		100		100		100		100		100		100		100		4.2	
2 740		2 740		2 740		2 740		2 740		2 740		2 740		2 740		4.3	
3 730		3 730		3 730		3 730		3 730		3 730		3 730		3 730		4.4	
2 258		2 300		2 300		2 300		2 300		2 300		2 300		2 300		4.5	
1 159		1 201		1 201		1 201		1 201		1 201		1 201		1 201		4.6	
429		472		472		472		472		472		472		472		4.7	
4 197		4 456		4 456		4 499		4 499		4 540		4 540		4 540		4.8	
2 997		3 256		3 256		3 299		3 299		3 340		3 340		3 340		4.9	
1 402		1 485		1 773		1 450		1 575		1 875		1 450		1 575		1 875	4.12
60		150		1 200		60		150		1 200		60		150		1 200	4.21
IV A		IV A		IV A		IV A		IV A		IV A		IV A		IV A		4.22	
1 219		1 219		1 219		1 219		1 219		1 219		1 219		1 219		4.23	
194		194		194		194		194		194		194		194		4.24	
194		237		237		237		237		237		237		237		4.31	
4 437		4 695		4 695		4 735		4 735		4 773		4 773		4 773		4.32	
4 576		4 847		4 847		4 887		4 887		4 925		4 925		4 925		4.33	
2 619		2 837		2 837		2 877		2 877		2 915		2 915		2 915		4.34	
50		131		131		131		131		131		131		131		4.35	
50		131		131		131		131		131		131		131		4.36	

DIMENSIONS

23,3		24,4		22,6		23,1		22,7		23,2		22,6		23,1		22,7		23,2		5.1				
0,56		0,57		0,48		0,53		0,56		0,57		0,48		0,53		0,56		0,57		5.2				
0,51		0,42		0,51		0,42		0,51		0,42		0,51		0,42		0,51		0,42		5.3				
29 300		16 300		30 500		21 300		29 800		20 200		30 400		20 900		29 700		20 000		30 200	20 600	29 700	19 700	5.5
33 400		16 300		35 500		21 300		34 100		20 200		35 400		20 900		34 000		20 000		35 200	20 600	34 000	19 700	5.6
21,8		27,1		19,4		31,5		19,6		31,1		18,1		29,6		18,3		29,4		16,9	27,9	18,6	27,7	5.7
29,8		27,1		27,4		31,5		27,5		31,1		25,5		29,6		25,5		29,4		23,9	27,9	26,1	27,7	5.8
Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		5.10

PERFORMANCE

GM 4.3L		Cummins QSB3.3		GM 4.3L		Cummins QSB3.3		GM 4.3L		Cummins QSB3.3		GM 4.3L		Cummins QSB3.3		7.1
77		60		77		60		77		60		77		60		7.2
2 400		2 200		2 400		2 200		2 400		2 200		2 400		2 200		7.3
6		4 302		4		3 261		6		4 302		4		3 261		7.4

ENGINE

Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		8.1
155		155		155		155		155		155		155		155		8.2
83,3		83,3		83,3		83,3		83,3		83,3		83,3		83,3		8.3
82		80		79		79		82		80		79		79		8.4
105		104		105		104		105		104		105		104		8.5
Pin		Pin		Pin		Pin		Pin		Pin		Pin		Pin		8.5

OTHER

Fortens Advance+ H4.0FT, H4.5FT, H5.0FT, H5.5FT

CHARACTERISTICS	1.1	Manufacturer	
	1.2	Model designation	
		Model - Manufacturer designation	
		Engine / transmission	
		Brake type	
	1.3	Power: battery, diesel, LPG, electric mains	
	1.4	Operation: manual, pedestrian, stand, seat, orderpicker	
	1.5	Load capacity	Q (kg)
	1.6	Load centre	c (mm)
1.8	Load distance	x (mm)	
1.9	Wheelbase	y (mm)	

WEIGHTS	2.1	Unladen weight	kg
	2.2	Axle loading with load, front/rear	kg
	2.3	Axle loading without load, front/rear	kg

WHEELS & TYRES	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	Track width, front	b ₁₀ (mm)
	3.7	Track width, rear	b ₁₁ (mm)

DIMENSIONS	4.1	Mast tilt, α = forward/β = back	degrees
	4.2	Height of mast, lowered	h ₁ (mm)
	4.3	Free lift \uparrow	h ₂ (mm)
	4.4	Lift height \uparrow	h ₃ (mm)
	4.5	Height of mast, extended +	h ₄ (mm)
	4.7	Overhead guard height ■	h ₅ (mm)
	4.8	Seat height ○	h ₇ (mm)
	4.12	Towing 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, standard/wide/dual drive	b ₁ /b ₂ (mm)
	4.22	Fork dimensions	s/e/l (mm)
	4.23	Fork carriage DIN 15173, Class, A/B	
	4.24	Fork carriage width ●	b ₃ (mm)
	4.31	Ground clearance under mast, with load	m ₁ (mm)
4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	
4.33	Aisle width with pallets 1 000 mm x 1 200 mm wide ◆	Ast (mm)	
4.34	Aisle width with pallets 800 mm x 1 200 mm long ◆	Ast (mm)	
4.35	Outer turning radius	W _o (mm)	
4.36	Inner turning radius	b ₁₃ (mm)	

PERFORMANCE	5.1	Travel speed with/without load	km/h
	5.2	Lifting speed with/without load	m/sec
	5.3	Lowering speed with/without load	m/sec
	5.5	Drawbar pull with/without load @ 1.6 km/h	N
	5.6	Maximum drawbar pull with/without load	N
	5.7	Gradeability with/without load @ 4.8 km/h †	%
	5.8	Maximum gradeability with/without load @ 1.6 km/h †	%
	5.10	Service brake	

ENGINE	7.1	Engine manufacturer/type	
	7.2	Engine output, in accordance with ISO 1585	kW
	7.3	Governed speed	rpm
	7.4	Number of cylinders/displacements	cm ³

OTHER	8.1	Drive control	
	8.2	Working pressure for attachments	bar
	8.3	Oil flow for attachments ∇	l/min
	8.4	Average noise level at operator's ear no cab/cab (Lpaz) ◇	dB (A)
	8.5	Guaranteed sound power 2001/14/EC (Lwaz)	dB

HYSTER		HYSTER		HYSTER		HYSTER		HYSTER	
H4.0FT5		H4.0FT5		H4.0FT6		H4.0FT6		H4.5FTS5	
Fortens Advance +		Fortens Advance +		Fortens Advance +		Fortens Advance +		Fortens Advance +	
Cummins 3.3L DuraMatch Plus2		GM 4.3L DuraMatch Plus2		Cummins 3.3L DuraMatch Plus2		GM 4.3L DuraMatch Plus2		Cummins 3.3L DuraMatch Plus2	
Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes	
Diesel		LPG		Diesel		LPG		Diesel	
Seat		Seat		Seat		Seat		Seat	
4 000		4 000		4 000		4 000		4 500	
500		500		600		600		500	
522,1		522,1		522,1		522,1		522,1	
1 830		1 830		1 830		1 830		1 830	

6 298		6 033		6 672		6 243		6 630	
8 849	1 077	8 464	1 198	8 910	1 390	8 999	1 243	9 496	1 216
2 923	3 375	2 603	3 429	3 003	3 669	2 561	3 682	2 829	3 801

SE		SE		SE		SE		SE	
250 x 15		250 x 15		250 x 15		250 x 15		250 x 15	
7,00 x 12		7,00 x 12		7,00 x 12		7,00 x 12		7,00 x 12	
2X	2	2X	2	2X	2	2X	2	2X	2
1 152		1 152		1 152		1 152		1 152	
1 136		1 136		1 136		1 136		1 136	

6		10		6		10		6		10		6		10		6		10		
2 175		2 175		2 175		2 175		2 175		2 175		2 175		2 175		2 175		2 215		
100		100		100		100		100		100		100		100		100		100		
3 000		3 000		3 000		3 000		3 000		3 000		3 000		3 000		3 000		2 740		
3 815		3 815		3 815		3 815		3 815		3 815		3 815		3 815		3 815		3 730		
2 258		2 258		2 258		2 258		2 258		2 258		2 258		2 258		2 258		2 258		
1 159		1 159		1 159		1 159		1 159		1 159		1 159		1 159		1 159		1 159		
429		429		429		429		429		429		429		429		429		429		
3 945		3 945		4 176		4 176		4 176		4 176		4 176		4 176		4 176		4 197		
2 945		2 945		2 976		2 976		2 976		2 976		2 976		2 976		2 976		2 997		
1 402	1 485	1 773	1 402	1 485	1 773	1 402	1 485	1 773	1 402	1 485	1 773	1 402	1 485	1 773	1 402	1 485	1 773	1 402	1 485	1 773
50	125	1 000	50	125	1 000	50	125	1 200	50	125	1 200	50	125	1 200	60	150	1 200	60	150	1 200
III A		III A		III A		III A		III A		III A		III A		IV A		IV A		IV A		
1 219		1 219		1 219		1 219		1 219		1 219		1 219		1 219		1 219		1 219		
151		151		150		150		150		150		150		150		150		150		
194		194		194		194		194		194		194		194		194		194		
4 388		4 388		4 417		4 417		4 417		4 417		4 417		4 437		4 437		4 437		
4 527		4 527		4 556		4 556		4 556		4 556		4 556		4 576		4 576		4 576		
2 570		2 570		2 599		2 599		2 599		2 599		2 599		2 619		2 619		2 619		
50		50		50		50		50		50		50		50		50		50		

19,6		20,4		21,8		22,8		19,6		20,4		21,8		22,8		19,6		20,4	
0,60		0,66		0,61		0,62		0,60		0,66		0,61		0,62		0,48		0,53	
0,55		0,47		0,55		0,47		0,55		0,47		0,55		0,47		0,51		0,42	
26 700		17 500		36 700		16 800		26 700		18 000		36 600		16 500		26 700		17 000	
26 700		17 500		44 200		16 800		26 700		18 000		44 100		16 500		26 700		17 000	
25,6		29,6		26,4		29,6		24,6		28,7		25,0		28,1		22,5		27,1	
28,5		29,6		42,0		29,6		27,4		28,7		39,1		28,1		26,6		27,1	
Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic	

Cummins QSB3.3		GM 4.3L		Cummins QSB3.3		GM 4.3L		Cummins QSB3.3	
60		77		60		77		60	
2 200		2 400		2 200		2 400		2 200	
4	3 261	6	4 302	4	3 261	6	4 302	4	3 261

Automatic		Automatic		Automatic		Automatic		Automatic	
155		155		155		155		155	
83,3		83,3		83,3		83,3		83,3	
79	79	82	80	79	79	82	80	79	79
104		105		104		105		104	
Pin		Pin		Pin		Pin		Pin	

Specification Data is based on VDI 2198

Equipment and weight:

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

Complete truck with 3 050 mm (H4.0FT), 2 800 mm (H4.5-5.5FT) 2-stage limited free lift mast, standard carriage, 1 000 mm (H4.0FT) / 1 200 mm (H4.5-5.5FT) forks, e-hydraulics, overhead guard and standard pneumatic shaped solid drive and steer tyres.

HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		
H4,5FTS5		H4,5FT6		H4,5FT6		H5,0FT		H5,0FT		H5,5FT		H5,5FT		1.1
Fortens Advance +		Fortens Advance +		Fortens Advance +		Fortens Advance +		Fortens Advance +		Fortens Advance +		Fortens Advance +		1.2
GM 4,3L DuraMatch Plus2		Cummins 3,3L DuraMatch Plus2		GM 4,3L DuraMatch Plus2		Cummins 3,3L DuraMatch Plus2		GM 4,3L DuraMatch Plus2		Cummins 3,3L DuraMatch Plus2		GM 4,3L DuraMatch Plus2		
Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		
LPG		Diesel		LPG		Diesel		LPG		Diesel		LPG		1.3
Seat		Seat		Seat		Seat		Seat		Seat		Seat		1.4
4 500		4 500		4 500		5 000		5 000		5 500		5 500		1.5
500		600		600		600		600		600		600		1.6
522,1		590		590		590		590		590		590		1.8
1 830		2 100		2 100		2 100		2 100		2 100		2 100		1.9

CHARACTERISTICS

6 368		7 224		6 939		7 523		7 244		7 808		7 529		2.1
9 095		1 356		10 596		1 164		10 265		1 210		11 241		1 272
10 913		1 320		11 882		1 370		11 555		1 417		2.2		
2 526		3 842		3 473		3 751		3 152		3 787		3 406		4 117
3 089		4 155		3 335		4 474		3 016		4 513		2.3		

WEIGHTS

SE		SE		SE		SE		SE		SE		SE		
250 x 15		300 x 15		300 x 15		300 x 15		300 x 15		300 x 15		300 x 15		3.1
7,00 x 12		28 x 9 - 15		28 x 9 - 15		28 x 9 - 15		28 x 9 - 15		28 x 9 - 15		28 x 9 - 15		3.2
2X		2		2X		2		2X		2		2X		2
1 152		1 150		1 150		1 150		1 150		1 150		1 150		3.5
1 136		1 136		1 136		1 136		1 136		1 136		1 136		3.6
1 136		1 136		1 136		1 136		1 136		1 136		1 136		3.7

WHEELS & TYRES

6		10		6		10		6		10		6		10		
2 215		2 215		2 215		2 215		2 215		2 215		2 215		2 215		4.1
100		100		100		100		100		100		100		100		4.2
2 740		2 740		2 740		2 740		2 740		2 740		2 740		2 740		4.3
3 730		3 730		3 730		3 730		3 730		3 730		3 730		3 730		4.4
2 258		2 300		2 300		2 300		2 300		2 300		2 300		2 300		4.5
1 159		1 201		1 201		1 201		1 201		1 201		1 201		1 201		4.6
429		472		472		472		472		472		472		472		4.7
4 197		4 456		4 456		4 499		4 499		4 540		4 540		4 540		4.8
2 997		3 256		3 256		3 299		3 299		3 340		3 340		3 340		4.9
1 402		1 485		1 773		1 450		1 575		1 875		1 450		1 575		1 875
60		150		1 200		60		150		1 200		60		150		1 200
IV A		IV A		IV A		IV A		IV A		IV A		IV A		IV A		4.21
1 219		1 219		1 219		1 219		1 219		1 219		1 219		1 219		4.22
194		194		194		194		194		194		194		194		4.23
194		237		237		237		237		237		237		237		4.24
4 437		4 695		4 695		4 735		4 735		4 773		4 773		4 773		4.25
4 576		4 847		4 847		4 887		4 887		4 925		4 925		4 925		4.26
2 619		2 837		2 837		2 877		2 877		2 915		2 915		2 915		4.27
50		131		131		131		131		131		131		131		4.28

DIMENSIONS

21,8		22,8		20,4		20,8		22,7		23,2		20,4		20,8		22,7		23,2		5.1
0,56		0,57		0,48		0,53		0,56		0,57		0,48		0,53		0,56		0,57		5.2
0,51		0,42		0,51		0,42		0,51		0,42		0,51		0,42		0,51		0,42		5.3
36 500		16 300		25 800		21 300		32 300		20 200		25 800		20 900		32 300		20 000		25 800
44 100		16 300		25 800		21 300		39 400		20 200		25 800		20 900		39 400		20 600		39 400
24,4		27,1		20,0		31,5		21,7		31,1		19,0		29,6		20,1		29,4		17,5
38,2		27,1		23,0		31,5		30,1		31,1		21,5		29,6		28,1		29,4		20,3
Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		Hydraulic		5.10

PERFORMANCE

GM 4,3L		Cummins QSB3.3		GM 4,3L		Cummins QSB3.3		GM 4,3L		Cummins QSB3.3		GM 4,3L		
77		60		77		60		77		60		77		7.1
2 400		2 200		2 400		2 200		2 400		2 200		2 400		7.2
6		4 302		4		3 261		6		4 302		4		3 261
6		4 302		6		4 302		6		4 302		6		4 302

ENGINE

Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		Automatic		8.1
155		155		155		155		155		155		155		8.2
83,3		83,3		83,3		83,3		83,3		83,3		83,3		8.3
82		80		79		79		82		80		79		80
105		104		105		104		105		104		105		8.4
Pin		Pin		Pin		Pin		Pin		Pin		Pin		8.5

OTHER

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 H4.0FT5/FT6

	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	3 050	10°	2 175	4 300 ✦	150 ▽
	3 650	10°	2 475	4 900 ✦	150 ▽
	4 250	10°	2 775	5 500 ✦	150 ▽
	4 950	6°	3 225	6 200 ✦	150 ▽
2-Stage full free lift	3 075	10°	2 175	4 325 ✦	1 355 ▽
	3 675	10°	2 475	4 925 ✦	1 655 ▽
3-Stage full free lift	4 415	6°	2 175	5 665 ✦	1 355 ▽
	4 950	6°	2 375	6 200 ✦	1 555 ▽
	5 250	6°	2 475	6 500 ✦	1 655 ▽
	5 550	6°	2 575	6 800 ✦	1 755 ▽
	6 000	6°	2 775	7 250 ✦	1 955 ▽

Masts H4.5FTS5-H5.5FT

	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	2 800	10°	2 215	4 065 ✦	160 ▽
	3 400	10°	2 515	4 665 ✦	160 ▽
	4 000	10°	2 815	5 265 ✦	160 ▽
	4 700	6°	3 265	5 965 ✦	160 ▽
	5 300	6°	3 665	6 565 ✦	160 ▽
	5 900	6°	4 065	7 165 ✦	160 ▽
2-Stage full free lift	2 825	10°	2 215	4 090 ✦	1 230 ▽
	3 425	10°	2 515	4 690 ✦	1 530 ▽
3-Stage full free lift	4 145	6°	2 215	5 415 ✦	1 230 ▽
	5 000	6°	2 515	6 265 ✦	1 530 ▽
	5 300	6°	2 615	6 565 ✦	1 630 ▽

H4.0FT5-H4.0FT6 - Capacity chart in kg @ 500 mm (a) or 600 mm (b) load centre

	Pneumatic Shaped Solid Tyres				
	Maximum fork height (mm)	Without sideshift		With integral sideshift	
		H4.0FT5 (a)	H4.0FT6 (b)	H4.0FT5 (a)	H4.0FT6 (b)
2-Stage limited free lift	3 050	4 000	4 000	4 000	4 000
	3 650	4 000	4 000	4 000	4 000
	4 250	4 000	4 000	4 000	4 000
	4 950	3 890	3 890	3 890	3 890
2-Stage full free lift	3 075	4 000	4 000	4 000	4 000
	3 675	4 000	4 000	4 000	4 000
3-Stage full free lift	4 415	4 000	4 000	4 000	4 000
	4 950	3 880	3 880	3 880	3 870
	5 250	3 810	3 810	3 810	3 790
	5 550	3 730	3 740	3 730	3 710
	6 000	3 610	3 620	3 590	3 580

H4.0FT5-H4.0FT6 - Capacity chart in kg @ 500 mm (a) or 600 mm (b) load centre

	Michelin (Radial) tyres				
	Maximum fork height (mm)	Without sideshift		With integral sideshift	
		H4.0FT5 (a)	H4.0FT6 (b)	H4.0FT5 (a)	H4.0FT6 (b)
2-Stage limited free lift	3 050	4 000	4 000	4 000	4 000
	3 650	4 000	4 000	4 000	4 000
	4 250	4 000	4 000	4 000	4 000
	4 950	3 880	3 890	3 880	3 890
2-Stage full free lift	3 075	4 000	4 000	4 000	4 000
	3 675	4 000	4 000	4 000	4 000
3-Stage full free lift	4 415	4 000	4 000	4 000	4 000
	4 950	3 880 ◀	3 880 ◀	3 880 ◀	3 870 ◀
	5 250	3 800 ◀	3 810 ◀	3 800 ◀	3 790 ◀
	5 550	3 730 ✦	3 740 ✦	3 730 ✦	3 710 ✦
	6 000	3 610 ✦	3 620 ✦	3 590 ✦	3 580 ✦

H4.0FTS5-H5.5FT - Capacity chart in kg @ 500 mm (a) or 600 mm (b) load centre

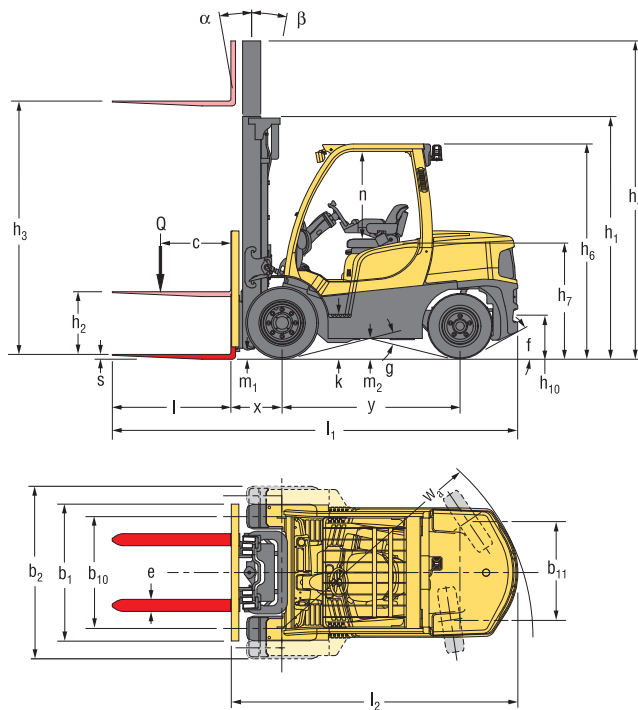
	Pneumatic Shaped Solid Tyres									
	Maximum fork height (mm)	Without sideshift		Without sideshift		Maximum fork height (mm)	With integral sideshift		With integral sideshift	
		H4.5FTS5 (a)	H4.5FT6 (b)	H5.0FT (b)	H5.5FT (b)		H4.5FTS5 (a)	H4.5FT6 (b)	H5.0FT (b)	H5.5FT (b)
2-Stage limited free lift	2 800	4 500	4 500	5 000	5 500	2 800	4 500	4 500	5 000	5 500
	3 400	4 500	4 500	5 000	5 500	3 400	4 500	4 500	5 000	5 500
	4 000	4 500	4 500	5 000	5 500	4 000	4 480	4 500	5 000	5 500
	4 700	4 390	4 390	4 890	5 380	4 700	4 340	4 390	4 890	5 380
	5 300	4 240	4 250	4 740	5 230	5 300	4 160	4 250	4 740	5 230
	5 900	4 070	4 100	4 580	5 050	5 900	3 970	4 100	4 580	5 050
2-Stage full free lift	2 825	4 500	4 500	5 000	5 500	2 825	4 480	4 500	5 000	5 500
	3 425	4 500	4 500	5 000	5 500	3 425	4 460	4 500	5 000	5 500
3-Stage full free lift	4 145	4 500	4 500	5 000	5 500	4 145	4 420	4 500	5 000	5 500
	5 000	4 300	4 310	4 800	5 290	5 000	4 200	4 310	4 800	5 290
	5 300	4 230	4 240	4 730	5 210	5 300	4 120	4 240	4 730	5 210

H4.0FTS5-H5.5FT - Capacity chart in kg @ 500 mm (a) or 600 mm (b) load centre

	Michelin (Radial) tyres									
	Maximum fork height (mm)	Without sideshift		Without sideshift		Maximum fork height (mm)	With integral sideshift		With integral sideshift	
		H4.5FTS5 (a)	H4.5FT6 (b)	H5.0FT (b)	H5.5FT (b)		H4.5FTS5 (a)	H4.5FT6 (b)	H5.0FT (b)	H5.5FT (b)
2-Stage limited free lift	2 800	4 500	4 500	5 000	5 500	2 800	4 500	4 500	5 000	5 500
	3 400	4 500	4 500	5 000	5 500	3 400	4 500	4 500	5 000	5 500
	4 000	4 500	4 500	5 000	5 500	4 000	4 480	4 500	5 000	5 500
	4 700	4 380	4 390	4 880	5 380 ◀	4 700	4 340	4 390	4 880	5 380 ◀
	5 300	4 230 ◀	4 250 ◀	4 730 ◀	5 220 ◀	5 300	4 160 ◀	4 250 ◀	4 730 ◀	5 220 ◀
	5 900	4 070 ✦	4 090 ◀	4 570 ✦	5 050 ✦	5 900	3 970 ✦	4 090 ◀	4 570 ✦	5 050 ✦
2-Stage full free lift	2 825	4 500	4 500	5 000	5 500	2 825	4 480	4 500	5 000	5 500
	3 425	4 500	4 500	5 000	5 500	3 425	4 460	4 500	5 000	5 500
3-Stage full free lift	4 145	4 500	4 500	5 000	5 500	4 145	4 420	4 500	5 000	5 500
	5 000	4 270 ◀	4 310 ◀	4 800 ◀	5 290 ◀	5 000	4 200 ◀	4 310 ◀	4 800 ◀	5 290 ◀
	5 300	4 220 ✦	4 240 ◀	4 730 ✦	5 210 ✦	5 300	4 120 ✦	4 240 ◀	4 730 ✦	5 210 ✦

Note: 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.

Truck dimensions



 = Centre of gravity of unladen truck

$Ast = W_a + x + l_6 + a$ (see lines 4.33 & 4.34)

a = Minimum operating clearance

(V.D.I. standard = 200 mm BITA recommendation = 300 mm)

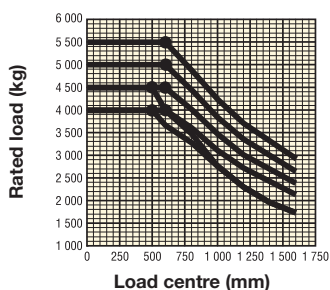
l_6 = Load length

Model

Dimensions (mm)

	H4.0FT5	H4.0FT6	H4.5FT5	H4.5FT6	H5.0FT	H5.5FT
f	37%	27.5%	33%	32%	32%	28%
g	28°	28°	28°	30°	30°	30°
k	441	441	441	484	484	484
n	1 062	1 062	1 062	1 062	1 062	1 062

Rated capacities



Load centre

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

Rated load

Based on vertical masts up to 4 250 mm (H4.0FT) and 4 000 mm (H4.5-5.5FT).

NOTE:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your dealer.

- ¶ Bottom of forks
 - ✦ Without load backrest
 - h_6 subject to +/- 5 mm tolerance
 - Full-suspension seat in depressed position
 - Subtract 32 mm without load backrest
 - ◆ Stacking aisle width (lines 4.33 & 4.34) is based on the V.D.I. 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 (lines 5.7 & 5.8) 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
 - ☎ Consult your Hyster lift truck dealer
- Mast tables:**
- ❖ With load backrest
 - ▽ Without load backrest
 - ⦿ Wide tread or Dual Drive Wheels required
 - * Dual Drive Wheels required

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.

Product Packages

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

The H4.0-5.5FT Series is available in several truck packages, with multiple powertrain combinations to choose from, to best match operational demands. Each configuration offers improved efficiency, advanced dependability, lower cost of ownership and simple serviceability.

Model / Bundle	H4.0FT5			H4.0FT6		
DIESEL	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens	Cummins 3.3L Turbo	DuraMatch™ Electronic 1 speed	ADS Drum	Cummins 3.3L Turbo	DuraMatch™ Electronic 1 speed	ADS Drum
Fortens Advance	Cummins 3.3L Turbo	DuraMatch™ Electronic 2 speed	ADS Drum	Cummins 3.3L Turbo	DuraMatch™ Electronic 2 speed	ADS Drum
	Cummins 3.3L Turbo	DuraMatch™ Electronic 2 speed	Wet	Cummins 3.3L Turbo	DuraMatch™ Electronic 2 speed	Wet
Fortens Advance+	Cummins 3.3L Turbo	DuraMatch™ Plus 2 speed	Wet	Cummins 3.3L Turbo	DuraMatch™ Plus 2 speed	Wet

Model / Bundle	H4.5FTS5			H4.5FT6		
DIESEL	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens	Cummins 3.3L Turbo	DuraMatch™ Electronic 1 speed	ADS Drum	Cummins 3.3L Turbo	DuraMatch™ Electronic 1 speed	Wet
Fortens Advance	Cummins 3.3L Turbo	DuraMatch™ Electronic 2 speed	ADS Drum	Cummins 3.3L Turbo	DuraMatch™ Electronic 2 speed	Wet
	Cummins 3.3L Turbo	DuraMatch™ Electronic 2 speed	Wet	-	-	-
Fortens Advance+	Cummins 3.3L Turbo	DuraMatch™ Plus 2 speed	Wet	Cummins 3.3L Turbo	DuraMatch™ Plus 2 speed	Wet

Model / Bundle	H5.0FT			H5.5FT		
DIESEL	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens	Cummins 3.3L Turbo	DuraMatch™ Electronic 1 speed	Wet	Cummins 3.3L Turbo	DuraMatch™ Electronic 1 speed	Wet
Fortens Advance	Cummins 3.3L Turbo	DuraMatch™ Electronic 2 speed	Wet	Cummins 3.3L Turbo	DuraMatch™ Electronic 2 speed	Wet
Fortens Advance+	Cummins 3.3L Turbo	DuraMatch™ Plus 2 speed	Wet	Cummins 3.3L Turbo	DuraMatch™ Plus 2 speed	Wet

Model / Bundle	H4.0FT5			H4.0FT6		
LPG	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens	GM 4.3L V6	DuraMatch™ Electronic 1 speed	ADS Drum	GM 4.3L V6	DuraMatch™ Electronic 1 speed	ADS Drum
Fortens Advance	GM 4.3L V6	DuraMatch™ Electronic 2 speed	ADS Drum	GM 4.3L V6	DuraMatch™ Electronic 2 speed	ADS Drum
	GM 4.3L V6	DuraMatch™ Electronic 2 speed	Wet	GM 4.3L V6	DuraMatch™ Electronic 2 speed	Wet
Fortens Advance+	GM 4.3L V6	DuraMatch™ Plus 2 speed	Wet	GM 4.3L V6	DuraMatch™ Plus 2 speed	Wet

Model / Bundle	H4.5FTS5			H4.5FT6		
LPG	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens	GM 4.3L V6	DuraMatch™ Electronic 1 speed	ADS Drum	GM 4.3L V6	DuraMatch™ Electronic 1 speed	Wet
Fortens Advance	GM 4.3L V6	DuraMatch™ Electronic 2 speed	ADS Drum	GM 4.3L V6	DuraMatch™ Electronic 2 speed	Wet
	GM 4.3L V6	DuraMatch™ Electronic 2 speed	Wet	-	-	-
Fortens Advance+	GM 4.3L V6	DuraMatch™ Plus 2 speed	Wet	GM 4.3L V6	DuraMatch™ Plus 2 speed	Wet

Model / Bundle	H5.0FT			H5.5FT		
LPG	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens	GM 4.3L V6	DuraMatch™ Electronic 1 speed	Wet	GM 4.3L V6	DuraMatch™ Electronic 1 speed	Wet
Fortens Advance	GM 4.3L V6	DuraMatch™ Electronic 2 speed	Wet	GM 4.3L V6	DuraMatch™ Electronic 2 speed	Wet
Fortens Advance+	GM 4.3L V6	DuraMatch™ Plus 2 speed	Wet	GM 4.3L V6	DuraMatch™ Plus 2 speed	Wet

Product Features

The Fortens & Fortens Advance models both feature the electronically controlled **DuraMatch™ transmission**, with one and two speeds respectively, 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.

The Fortens Advance+ models feature the electronically controlled two-speed extended function **DuraMatch™ Plus2 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™, 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.
- **First Gear** offers **Increased Drawbar Pull** for use on gradients.
- **Second Gear** provides maximum engine efficiency in applications where longer travel distances are common.

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 available Oil-immersed brakes offer reduced maintenance & repair time and costs, which results in extended truck dependability and uptime.

Trucks fitted with Oil-immersed brakes are ideally suited to applications in wet, dirty or corrosive environments, and ensure consistent braking performance over the lifetime of the truck. This is thanks to the sealed unit that houses and protects the brakes, so preventing contaminants and damage.

All powertrains are 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.

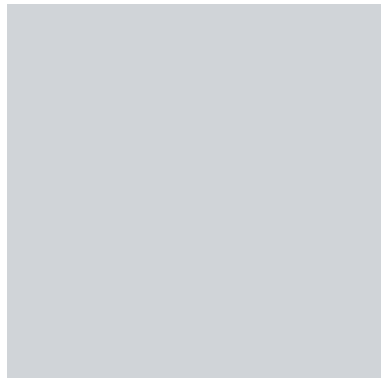
Non-mechanical, Hall-Effect sensors and switches have been fitted and are designed to outlast the life of the truck.

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

- Operator space is optimised, thanks to a new overhead guard design and significantly more floor space.
- The Easy-to-use 3-point entry design of operator compartment has an open non-slip step with a height of just 42.5 cm.
- The isolated drivetrain minimises the effect of powertrain vibration.
- The adjustable armrest that accompanies the TouchPoint™ or TouchControl™ E-hydraulic configurations 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**.

- Complete cowl-to-counterweight service access 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 product range, including Warehouse trucks, 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 materials 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 materials handling needs so you can focus on the success of your business today and in the future.




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