HYSTER™

FORTENS™

STRONG PARTNERS. TOUGH TRUCKS.

IC Counterbalanced Lift Trucks
S2.0-3.5FT **Fortens** Advance / **Fortens** Advance+

2 000 – 3 500 kg

Fortens Advance **S2.0FT, S2.5FT, S3.0FT, S3.5FT**

CHARACTERISTICS	1.1	Manufacturer		HYSTER			HYSTER			HYSTER			HYSTER			1.1
	1.2	Model designation		S2.0FT			S2.5FT			S3.0FT			S3.5FT			1.2
		Model - Manufacturer designation		Fortens Advance			Fortens Advance			Fortens Advance			Fortens Advance			
		Engine / transmission		Mazda 2.2L DuraMatch			Mazda 2.2L DuraMatch			Mazda 2.2L DuraMatch			Mazda 2.2L DuraMatch			
		Brake type		ADS Drum Brakes			ADS Drum Brakes			ADS Drum Brakes			ADS Drum Brakes			
	1.3	Power: battery, diesel, LPG, electric mains		LPG			LPG			LPG			LPG			1.3
	1.4	Operation: manual, pedestrian, stand, seat, orderpicker		Seat			Seat			Seat			Seat			1.4
	1.5	Load capacity	Q (kg)	2 000			2 500			3 000			3 500			1.5
	1.6	Load centre	c (mm)	500			500			500			500			1.6
	1.8	Load distance	x (mm)	378			378			385			385			1.8
	1.9	Wheelbase	y (mm)	1 430			1 430			1 430			1 430			1.9
WEIGHTS	2.1	Unladen weight	kg	3 555			3 910			4 462			4 810			2.1
	2.2	Axle loading with load, front/rear	kg	4 682	688		5 371	807		6 213	971		6 890	1 095		2.2
	2.3	Axle loading without load, front/rear	kg	1 618	1 937		1 542	2 369		1 595	2 868		1 501	3 309		2.3
WHEELS & TYRES	3.1	Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid		V			V			V			V			3.1
	3.2	Tyre size, front		21,00 x 8 - 15			21,00 x 8 - 15			21,00 x 8 - 15			21,00 x 9 - 15			3.2
	3.3	Tyre size, rear		16,00 x 6 - 10,5			16,00 x 6 - 10,5			16,00 x 6 - 10,5			16,00 x 6 - 10,5			3.3
	3.5	Number of wheels, front/rear (X = driven)		2X	2		2X	2		2X	2		2X	2		3.5
	3.6	Track width, front	b_{10} (mm)	929			929			929			929			3.6
	3.7	Track width, rear	b_{11} (mm)	914			914			914			914			3.7
DIMENSIONS	4.1	Mast tilt, α = forward/β = back	degrees	5	5		5	5		5	5		5	5		4.1
	4.2	Height of mast, lowered	h_1 (mm)	2 135			2 135			2 185			2 185			4.2
	4.3	Free lift ¶	h_2 (mm)	100			100			100			100			4.3
	4.4	Lift height ¶	h_3 (mm)	3 250			3 250			3 155			3 155			4.4
	4.5	Height of mast, extended ✦	h_4 (mm)	3 845			3 845			3 850			3 850			4.5
	4.7	Overhead guard height ■	h_6 (mm)	2 128			2 128			2 128			2 128			4.7
	4.8	Seat height ○	h_7 (mm)	1 024			1 024			1 024			1 024			4.8
	4.12	Towing coupling height	h_{10} (mm)	300			300			300			300			4.12
	4.19	Overall length	l_1 (mm)	3 226			3 280			3 356			3 406			4.19
	4.20	Length to face of forks	l_2 (mm)	2 226			2 280			2 356			2 406			4.20
	4.21	Overall width, standard/wide	b_1/b_2 (mm)	1 070	1 242		1 070	1 242		1 108	1 242		1 158	1 242		4.21
	4.22	Fork dimensions	s/e/l (mm)	40	100	1 000	40	100	1 000	50	125	1 000	50	125	1 000	4.22
	4.23	Fork carriage DIN 15173. Class, A/B		II A			II A			III A			III A			4.23
	4.24	Fork carriage width ●	b_3 (mm)	980			980			980			980			4.24
	4.31	Ground clearance under mast, with load	m_1 (mm)	89			89			89			89			4.31
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	125			125			125			125			4.32
	4.33	Aisle width with pallets 1 000 mm x 1 200 mm wide ◆	Ast (mm)	3 633			3 683			3 763			3 825			4.33
	4.34	Aisle width with pallets 800 mm x 1 200 mm long ◆	Ast (mm)	3 766			3 816			3 893			3 952			4.34
	4.35	Outer turning radius	W_a (mm)	1 950			2 000			2 066			2 119			4.35
	4.36	Inner turning radius	b_{13} (mm)	52			52			33			8			4.36
PERFORMANCE	5.1	Travel speed with/without load	km/h	16,9	16,6		16,9	16,6		16,9	16,6		16,9	16,6		5.1
	5.2	Lifting speed with/without load	m/sec	0,56	0,57		0,56	0,57		0,49	0,50		0,49	0,50		5.2
	5.3	Lowering speed with/without load	m/sec	0,50	0,44		0,50	0,44		0,52	0,45		0,52	0,45		5.3
	5.5	Drawbar pull with/without load @ 1,6 km/h	N	17 800	9 600		17 600	8 800		17 400	8 400		20 100	7 600		5.5
	5.6	Maximum drawbar pull with/without load	N	21 280	9 600		21 100	8 800		21 000	8 400		20 800	7 600		5.6
	5.7	Gradeability with/without load @ 4,8 km/h †	%	23,0	23,0		18,0	18,0		16,0	16,0		14,0	14,0		5.7
	5.8	Maximum gradeability with/without load @ 1,6 km/h †	%	35,0	29,3		29,0	23,5		24,7	19,9		21,8	16,5		5.8
	5.10	Service brake		Hydraulic			Hydraulic			Hydraulic			Hydraulic			5.10
ENGINE	7.1	Engine manufacturer/type		Mazda F2			Mazda F2			Mazda F2			Mazda F2			7.1
	7.2	Engine output, in accordance with ISO 1585 / DIN 6271	kW	38,0			38,0			38,0			38,0			7.2
	7.3	Governed speed	rpm	2 700			2 700			2 700			2 700			7.3
	7.4	Number of cylinders/displacements	cm^3	4	2 184		4	2 184		4	2 184		4	2 184		7.4
OTHER	8.1	Drive control		Automatic			Automatic			Automatic			Automatic			8.1
	8.2	Working pressure for attachments	bar	0-155			0-155			0-155			0-155			8.2
	8.3	Oil flow for attachments ⌑	l/min	62			62			62			62			8.3
	8.4	Average noise level at operator's ear (Lpaz) ◇	dB (A)	82			82			82			82			8.4
		Guaranteed sound power 2001/14/EC (Lwaz)	dB	105			105			105			105			
	8.5	Towing coupling type		Pin			Pin			Pin			Pin			8.5

Specification Data is based on VDI 2198

Equipment and weight:

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

Complete truck with 3 290mm (S2.0-2.5FT) / 3 205mm (S3.0-3.5FT) 2-stage limited free lift mast, standard carriage, 1000mm forks, e-hydraulics, overhead guard and standard cushion drive and steer tyres.

Product Packages

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

The S2.0-3.5FT 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	**S2.0FT**			**S2.5FT**		
LPG	**Engine**	**Transmission**	**Brakes**	**Engine**	**Transmission**	**Brakes**
Fortens Advance	Mazda 2.2l	DuraMatch™ Electronic 1 speed	ADS Drum	Mazda 2.2l	DuraMatch™ Electronic 1 speed	ADS Drum
Fortens Advance+	GM 2.4l	DuraMatch™ Electronic 1 speed	ADS Drum	GM 2.4l	DuraMatch™ Electronic 1 speed	ADS Drum
	GM 2.4l	DuraMatch™ Plus 2 speed	ADS Drum	GM 2.4l	DuraMatch™ Plus 2 speed	ADS Drum
Model / Bundle	**S3.0FT**			**S3.5FT**		
LPG	**Engine**	**Transmission**	**Brakes**	**Engine**	**Transmission**	**Brakes**
Fortens Advance	Mazda 2.2l	DuraMatch™ Electronic 1 speed	ADS Drum	Mazda 2.2l	DuraMatch™ Electronic 1 speed	ADS Drum
Fortens Advance+	GM 2.4l	DuraMatch™ Electronic 1 speed	ADS Drum	GM 2.4l	DuraMatch™ Electronic 1 speed	ADS Drum
	GM 2.4l	DuraMatch™ Plus 2 speed	ADS Drum	GM 2.4l	DuraMatch™ Plus 2 speed	ADS Drum

Please refer to the Price List for full option configurations.

Fortens Advance+ **S2.0FT, S2.5FT, S3.0FT, S3.5FT**

			HYSTER	HYSTER	HYSTER	HYSTER
CHARACTERISTICS	1.1	Manufacturer				
	1.2	Model designation	S2.0FT	S2.0FT	S2.5FT	S2.5FT
		Model - Manufacturer designation	Fortens Advance +	Fortens Advance +	Fortens Advance +	Fortens Advance +
		Engine / transmission	GM 2.4L DuraMatch	GM 2.4L DuraMatch Plus2	GM 2.4L DuraMatch	GM 2.4L DuraMatch Plus2
		Brake type	ADS Drum Brakes	ADS Drum Brakes	ADS Drum Brakes	ADS Drum Brakes
	1.3	Power: battery, diesel, LPG, electric mains	LPG	LPG	LPG	LPG
	1.4	Operation: manual, pedestrian, stand, seat, orderpicker	Seat	Seat	Seat	Seat
	1.5	Load capacity Q (kg)	2 000	2 000	2 500	2 500
	1.6	Load centre c (mm)	500	500	500	500
	1.8	Load distance x (mm)	378	378	378	378
	1.9	Wheelbase y (mm)	1 430	1 430	1 430	1 430
WEIGHTS	2.1	Unladen weight kg	3 555	3 555	3 910	3 910
	2.2	Axle loading with load, front/rear kg	4 682 / 688	4 682 / 688	5 371 / 807	5 371 / 807
	2.3	Axle loading without load, front/rear kg	1 618 / 1 937	1 618 / 1 937	1 542 / 2 369	1 542 / 2 369
WHEELS & TYRES	3.1	Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid	V	V	V	V
	3.2	Tyre size, front	21,00 x 8 - 15	21,00 x 8 - 15	21,00 x 8 - 15	21,00 x 8 - 15
	3.3	Tyre size, rear	16,00 x 6 - 10,5	16,00 x 6 - 10,5	16,00 x 6 - 10,5	16,00 x 6 - 10,5
	3.5	Number of wheels, front/rear (X = driven)	2X / 2	2X / 2	2X / 2	2X / 2
	3.6	Track width, front b_{10} (mm)	929	929	929	929
	3.7	Track width, rear b_{11} (mm)	914	914	914	914
DIMENSIONS	4.1	Mast tilt, α = forward/β = back degrees	5 / 5	5 / 5	5 / 5	5 / 5
	4.2	Height of mast, lowered h_1 (mm)	2 135	2 135	2 135	2 135
	4.3	Free lift ¶ h_2 (mm)	100	100	100	100
	4.4	Lift height ¶ h_3 (mm)	3 250	3 250	3 250	3 250
	4.5	Height of mast, extended ✦ h_4 (mm)	3 845	3 845	3 845	3 845
	4.7	Overhead guard height ■ h_6 (mm)	2 128	2 128	2 128	2 128
	4.8	Seat height ○ h_7 (mm)	1 024	1 024	1 024	1 024
	4.12	Towing coupling height h_{10} (mm)	300	300	300	300
	4.19	Overall length l_1 (mm)	3 226	3 226	3 280	3 280
	4.20	Length to face of forks l_2 (mm)	2 226	2 226	2 280	2 280
	4.21	Overall width, standard/wide b_1/b_2 (mm)	1 070 / 1 242	1 070 / 1 242	1 070 / 1 242	1 070 / 1 242
	4.22	Fork dimensions s/e/l (mm)	40 / 100 / 1 000	40 / 100 / 1 000	40 / 100 / 1 000	40 / 100 / 1 000
	4.23	Fork carriage DIN 15173. Class, A/B	II A	II A	II A	II A
	4.24	Fork carriage width ● b_3 (mm)	980	980	980	980
	4.31	Ground clearance under mast, with load m_1 (mm)	89	89	89	89
	4.32	Ground clearance, centre of wheelbase m_2 (mm)	125	125	125	125
	4.33	Aisle width with pallets 1 000 mm x 1 200 mm wide ◆ Ast (mm)	3 633	3 633	3 683	3 683
	4.34	Aisle width with pallets 800 mm x 1 200 mm long ◆ Ast (mm)	3 766	3 766	3 816	3 816
	4.35	Outer turning radius W_a (mm)	1 950	1 950	2 000	2 000
	4.36	Inner turning radius b_{13} (mm)	52	52	52	52
PERFORMANCE	5.1	Travel speed with/without load km/h	17,2 / 16,9	18,4 / 18,1	17,2 / 16,9	18,4 / 18,1
	5.2	Lifting speed with/without load m/sec	0,60 / 0,61	0,60 / 0,61	0,60 / 0,61	0,60 / 0,61
	5.3	Lowering speed with/without load m/sec	0,50 / 0,44	0,50 / 0,44	0,50 / 0,44	0,50 / 0,44
	5.5	Drawbar pull with/without load @ 1,6 km/h N	20 600 / 8 820	21 800 / 9 600	20 400 / 8 820	21 800 / 8 820
	5.6	Maximum drawbar pull with/without load N	24 000 / 8 820	21 800 / 9 600	24 000 / 8 820	21 800 / 8 820
	5.7	Gradeability with/without load @ 4,8 km/h † %	27,0 / 29,3	32,0 / 29,3	23,0 / 23,0	26,0 / 23,5
	5.8	Maximum gradeability with/without load @ 1,6 km/h † %	41,5 / 29,3	44,3 / 29,3	34,2 / 23,5	36,8 / 23,5
	5.10	Service brake	Hydraulic	Hydraulic	Hydraulic	Hydraulic
ENGINE	7.1	Engine manufacturer/type	GM 2.4L	GM 2.4L	GM 2.4L	GM 2.4L
	7.2	Engine output, in accordance with ISO 1585 / DIN 6271 kW	46,2	46,2	46,2	46,2
	7.3	Governed speed rpm	2 700	2 700	2 700	2 700
	7.4	Number of cylinders/displacements cm^3	4 / 2 400	4 / 2 400	4 / 2 400	4 / 2 400
OTHER	8.1	Drive control	Automatic	Automatic	Automatic	Automatic
	8.2	Working pressure for attachments bar	0-155	0-155	0-155	0-155
	8.3	Oil flow for attachments ¤ l/min	66	66	66	66
	8.4	Average noise level at operator's ear (Lpaz) ◇ dB (A)	82	82	82	82
		Guaranteed sound power 2001/14/EC (Lwaz) dB	105	105	105	105
	8.5	Towing coupling type	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 290mm (S2.0-2.5FT) / 3 205mm (S3.0-3.5FT) 2-stage limited free lift mast, standard carriage, 1000mm forks, e-hydraulics, overhead guard and standard cushion drive and steer tyres.

HYSTER	HYSTER	HYSTER	HYSTER	1.1	CHARACTERISTICS
S3.0FT	S3.0FT	S3.5FT	S3.5FT	1.2	
Fortens Advance +	Fortens Advance +	Fortens Advance +	Fortens Advance +		
GM 2.4L DuraMatch	GM 2.4L DuraMatch Plus2	GM 2.4L DuraMatch	GM 2.4L DuraMatch Plus2		
ADS Drum Brakes	ADS Drum Brakes	ADS Drum Brakes	ADS Drum Brakes		
LPG	LPG	LPG	LPG	1.3	
Seat	Seat	Seat	Seat	1.4	
3 000	3 000	3 500	3 500	1.5	
500	500	500	500	1.6	
385	385	385	385	1.8	
1 430	1 430	1 430	1 430	1.9	

4 462		4 462		4 810		4 810		2.1	WEIGHTS
6 213	971	6 213	971	6 890	1 095	6 890	1 095	2.2	
1 595	2 868	1 595	2 868	1 501	3 309	1 501	3 309	2.3	

V		V		V		V		3.1	WHEELS & TYRES
21,00 x 8 - 15		21,00 x 8 - 15		21,00 x 9 - 15		21,00 x 9 - 15		3.2	
16,00 x 6 - 10,5		16,00 x 6 - 10,5		16,00 x 6 - 10,5		16,00 x 6 - 10,5		3.3	
2X	2	2X	2	2X	2	2X	2	3.5	
929		929		929		929		3.6	
914		914		914		914		3.7	

5	5	5	5	5	5	5	5	4.1	DIMENSIONS
2 185		2 185		2 185		2 185		4.2	
100		100		100		100		4.3	
3 155		3 155		3 155		3 155		4.4	
3 850		3 850		3 850		3 850		4.5	
2 128		2 128		2 128		2 128		4.7	
1 024		1 024		1 024		1 024		4.8	
300		300		300		300		4.12	
3 356		3 356		3 406		3 406		4.19	
2 356		2 356		2 406		2 406		4.20	
1 108	1 242	1 108	1 242	1 158	1 242	1 158	1 242	4.21	
50	125 1 000	50	125 1 000	50	125 1 000	50	125 1 000	4.22	
III A		III A		III A		III A		4.23	
980		980		980		980		4.24	
89		89		89		89		4.31	
125		125		125		125		4.32	
3 763		3 763		3 825		3 825		4.33	
3 893		3 893		3 952		3 952		4.34	
2 066		2 066		2 119		2 119		4.35	
33		33		8		8		4.36	

17,2	16,9	18,4	18,1	17,2	16,9	18,4	18,1	5.1	PERFORMANCE
0,53	0,54	0,53	0,54	0,53	0,54	0,53	0,54	5.2	
0,52	0,45	0,52	0,45	0,52	0,45	0,52	0,45	5.3	
20 300	8 400	21 800	8 400	20 500	7 600	21 800	7 600	5.5	
23 800	8 400	21 800	8 400	24 000	7 600	21 800	7 600	5.6	
20,0	19,9	24,0	19,9	17,0	16,5	21,0	16,5	5.7	
29,1	19,9	31,5	19,9	25,7	16,5	28,0	16,5	5.8	
Hydraulic		Hydraulic		Hydraulic		Hydraulic		5.10	

GM 2.4L		GM 2.4L		GM 2.4L		GM 2.4L		7.1	ENGINE
46,2		46,2		46,2		46,2		7.2	
2 700		2 700		2 700		2 700		7.3	
4	2 400	4	2 400	4	2 400	4	2 400	7.4	

Automatic		Automatic		Automatic		Automatic		8.1	OTHER
0-155		0-155		0-155		0-155		8.2	
66		66		66		66		8.3	
82		82		82		82		8.4	
105		105		105		105			
Pin		Pin		Pin		Pin		8.5	

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) are 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 the 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 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.

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

Mast and capacity information

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

Masts S2.0-2.5FT

	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	**3 290** **4 830**	5° 5°	2 135 2 985	4 515 ❖ 6 055 ❖	140 ▽ 140 ▽
2-Stage full free lift	**3 300**	5°	2 135	4 525 ❖	1 575 ▽
3-Stage full free lift	**4 950** **5 550** **6 000**	5° 5° 5°	2 135 2 385 2 585	6 170 ❖ 6 770 ❖ 7 220 ❖	1 595 ▽ 1 845 ▽ 2 045 ▽

Masts S3.0-3.5FT

	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	**3 205**	5°	2 185	4 435 ❖	150 ▽
2-Stage full free lift	**3 310**	5°	2 235	4 535 ❖	1 590 ▽
3-Stage full free lift	**4 765** **4 915** **5 965**	5° 5° 5°	2 235 2 285 2 735	5 995 ❖ 6 145 ❖ 7 195 ❖	1 605 ▽ 1 655 ▽ 2 105 ▽

S2.0-3.5FT - Capacity chart in kg @ 500 mm load centre

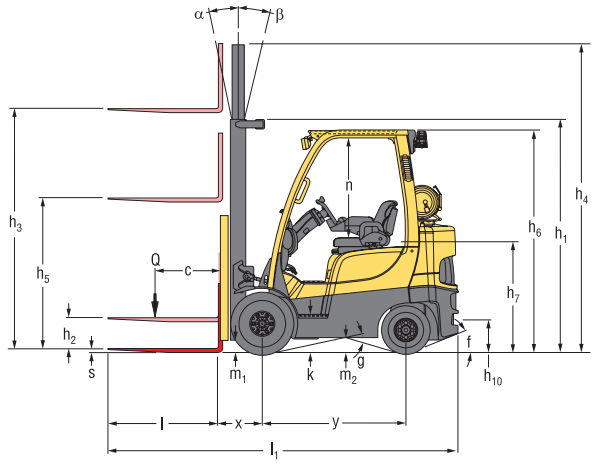
	Cushion tyres								
	Maximum fork height (mm)	Without sideshift		With integral sideshift		Maximum fork height (mm)	Without sideshift		With integral sideshift	
		S2.0FT	S2.5FT	S2.0FT	S2.5FT		S3.0FT	S3.5FT	S3.0FT	S3.5FT
2-Stage limited free lift	**3 290** **4 830**	2 000 1 920	2 500 2 410	2 000 1 910	2 500 2 400	**3 205** **3 705**	3 000 3 000	3 360 3 310	2 990 2 970	3 310 3 270
2-Stage full free lift	**3 300**	2 000	2 500	2 000	2 500	**3 310**	3 000	3 360	2 980	3 310
3-Stage full free lift	**4 950** **5 550** **6 000**	1 900 1 800 1 710	2 390 2 270 2 180 ◖	1 890 1 770 1 680	2 370 2 240 2 140	**4 765** **4 915** **5 965**	2 890 2 860 2 110 ◖	3 380 3 350 ◖ 1 870 ◖	2 840 2 810 2 160 ◖	3 330 3 300 ◖ 1 910 ◖

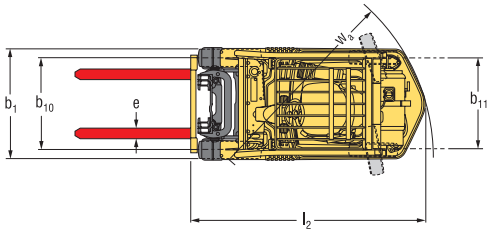
S2.0-3.5FT - Capacity chart in kg @ 600 mm load centre

	Cushion tyres								
	Maximum fork height (mm)	Without sideshift		With integral sideshift		Maximum fork height (mm)	Without sideshift		With integral sideshift	
		S2.0FT	S2.5FT	S2.0FT	S2.5FT		S3.0FT	S3.5FT	S3.0FT	S3.5FT
2-Stage limited free lift	**3 290** **4 830**	1 900 1 800	2 350 2 250	1 820 1 720	2 260 2 160	**3 205** **3 705**	2 820 2 810	3 280 3 270	2 700 2 680	3 140 3 120
2-Stage full free lift	**3 300**	1 890	2 350	1 810	2 250	**3 310**	2 810	3 280	2 690	3 140
3-Stage full free lift	**4 950** **5 550** **6 000**	1 780 1 670 1 580	2 220 2 100 2 010	1 700 1 600 1 510	2 130 2 020 1 930	**4 765** **4 915** **5 965**	2 680 2 650 2 110 ◖	3 140 3 110 ◖ 1 870 ◖	2 560 2 530 2 160 ◖	3 000 2 980 ◖ 1 910 ◖

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

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) are 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 the 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:

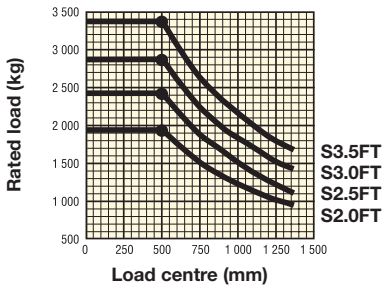
❖ With load backrest

▽ Without load backrest

◖ Wide tread required

Model	S2.0FT	S2.5FT	S3.0FT	S3.5FT
Dimensions (mm)				
f	50%	45%	39%	39%
g	33,3°	33,3°	33,3°	33,3°
k	350	350	350	350
n	1 067	1 067	1 067	1 067

Rated capacities



Load centre

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

Rated load

Based on vertical masts up to 4 350 mm (S2.0-2.5FT) and 4 170 mm (S3.0-3.5FT).

Notice

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

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

CE **Safety:**

This truck conforms to the current EU requirements.

Product Features

The Fortens Advance & Fortens Advance+ models are available with the electronically controlled **DuraMatch™ transmission**, providing:

- **Auto Deceleration System** automatically slows the truck when the accelerator pedal is released, which significantly extends brake life. This feature is programmable through the dash display, to match application needs from delicate to more aggressive settings for maximum productivity.
- **Controlled Power Reversal** controls direction changes through the transmission, virtually eliminating tyre spin and significantly increasing tyre life.
- **Controlled Roll-Back on Ramp;** the transmission controls the rate of decent of the truck on a ramp, when the brake and throttle pedal are released, to provide maximum control on a grade and reduce driver fatigue.

The Fortens Advance+ models are also available with the electronically controlled two-speed extended function **DuraMatch™ Plus2 transmission**, as an option. 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 on a gradient, without the need to depress the pedal further.
- **Extended Auto Deceleration System;** as with the DuraMatch™, allows the operator to slow the truck down without using the brake. However, thanks to the Throttle Response Management feature, the rate of deceleration is dependent on the rate at which the driver releases his foot from the accelerator pedal. On this model, the ADS is not adjustable through the dash display.
- **Auto-Speed Hydraulics with Automatic Inching Control;** the engine speed is automatically increased to provide full hydraulic power, while travel speed remains constant.
- **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 2 available aluminium core radiators and a superior counterweight tunnel design coupled with a "pusher" type fan, to provide the industry's best cooling.

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 the operator compartment has an open non-slip step with a height of just 35 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 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 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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