

FORTENS



DIESEL AND LPG FORKLIFT TRUCKS

S6.0-7.0FT FORTENS / FORTENS ADVANCE

6 000-7 000 KG



FORTENS, FORTENS ADVANCE, FORTENS ADVANCE+ S6.0FT, S7.0FT DIESEL

				IIV	TED		TED	IIVO	TED		TED
	1.1	Manufacturer (abbreviation)			STER		STER	HYS			STER OFT
	1.2	Manufacturer's type designation Model		S6.			OFT tens	S6. Fortens	Advance		.0FT Advance+
		Engine		Kubot			ta 3.8L	Kubot			ta 3.8L
				Basic Po	wershift	Basic Po	owershift		latch™	DuraMat	ch™ Plus3
2		Transmission		2-sp	eed		ed plus wer Reversal	3-sp	beed	3-sj	peed
DISTINGUISHING MARK	-	Brake type		Wet B	rakas		Brakes	Wet B	Brakes	Wat F	Brakes
BN	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Die			esel	Die			esel
ISI	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Sea	ted	Sea	ated	Sea	ated	Sea	ated
	1.5	Rated capacity/rated load	Q (t)	6.	-		.0		.0		i.O
	1.6 1.8	Load centre distance Load distance, centre of drive axle to fork	c (mm) x (mm)	60			00 98	60			00 98
	1.0	Wheelbase	y (mm)	18			130		130		330
100	_										
£	2.1	Service weight	kg	86			67		67		667
WEIGHTS	2.2 2.3	Axle loading laden, front/rear	kg	13144 3546	1523 5121	13144 3546	1523 5121	13144 3546	1523 5121	13144 3546	1523 5121
	2.3	Axle loading unladen, front/rear	kg	3040	5121	3340	5121	3040	5121	3040	5121
	3.1	Tyres: L = pneumatic, V = solid, SE = pneumatic-shaped solid		\	/	,	V	\ \	V		V
SIS	3.2	Tyre size, front		28 x 1	2 x 22	28 x 1	2 x 22	28 x 1	2 x 22	28 x 1	12 x 22
(end	3.3	Tyre size, rear		22 x 8			8 x 16	22 x			8 x 16
IVRES/CHASSIS	3.5 3.6	Wheels, number front/rear (x = driven wheels) Tread, front	b ₁₀ (mm)	2x	2	2x 11	2	2x 11	2	2x	2
F	3.7	Tread, rear	b ₁₀ (mm)	11			192		92		192
									1		
	4.1	Tilt of mast/fork carriage forward/backward	α / β (°)	6	10	6	10	6	10	6	10
	4.2 4.3	Height, mast lowered Free lift	h ₁ (mm) h ₂ (mm)	26			i97 00	26	i97 00		697 00
	4.4	Lift	h ₃ (mm)	33			40		40		340
	4.5	Height, mast extended	h ₄ (mm)	45	-		75		75		575
	4.7	Height of overhead guard (cabin)	h ₆ (mm)	23			02		02		302
	4.8 4.12	Seat height/stand height Coupling height	h ₇ (mm) h ₁₀ (mm)	13			135 88	13	135 88		335 88
	4.12	Overall length	l ₁₀ (mm)	41			28	-	28		128
	4.20	Length to face of forks	l ₂ (mm)	29	28	29	28	29	28	29	928
2	4.21	Overall width	b ₁ /b ₂ (mm)	14			38		38		138
SION	4.22 4.23	Fork dimensions ISO 2331 Fork carriage ISO 2328, class/type A, B	s/e/l (mm)	60 15 IV			50 1200 /A	60 1: IV	50 1200		50 1200 /A
DIMENSIONS	4.24	Fork carriage width	b ₃ (mm)	12			/ <u>0</u> !19		19		219
	4.31	Ground clearance, laden, below mast	m1 (mm)	11	3	1	13	1	13	1	13
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	18			88	18			88
	4.33 4.34	Load dimension b ₁₂ × I ₆ crossways Aisle width predetermined load dimensions	$b_{12} \times l_6 (mm)$ $A_{st} (mm)$	1200 >			x 1000 183		x 1000 83		x 1000 283
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	A _{st} (mm)	44			83		83		183
	4.34.2	Aisle width for pallets 800 × 1200 crossways	A _{st} (mm)	44	83	44	83		83	44	183
	4.35	Turning radius	W _a (mm)	25			85		85		585
	4.36 4.41	Internal turning radius 90° intersecting aisle (with pallet L = 1000mm x W = 1200mm)	b ₁₃ (mm) (mm)	22		7	92	7:	92		51 292
	4.42	Step height (from ground to running board)	(mm)	53	-		31	5			31
	4.43	Step height (between intermediate steps and floor)	(mm)	31	13	3	13	3	13	3	13
					00.7	05 -	05.5	00.5	00.5		
	5.1 5.1.1	Travel speed, laden/unladen Travel speed, laden/unladen, backwards	km/h km/h	20.7	20.0	20.7 20.7	20.0	20.9 18.3	20.2	20.9	20.2
N	5.2	Lift speed, laden/unladen	m/s	0.48	0.49	0.48	0.49	0.48	0.49	0.48	0.49
NGE	5.3	Lowering speed, laden/unladen	m/s	0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53
PERFORMANCE DATA	5.5	Drawbar pull, laden/unladen	N	37850	21450	37850	21450	44500	21450	44500	21450
l i	5.7 5.9	Gradeability, laden/unladen Acceleration time, laden/unladen	% S	16.1 5.8	24.8 5.0	16.1 5.8	24.8 5.0	17.1 6.1	24.8 5.7	17.1 6.1	24.8 5.7
	5.10	Service brake		Hydr			aulic	Hydr			raulic
		والباري والشادة ومور تتجمع ومحود والمراجع									
	7.1	Engine manufacturer/type		Kubota \			V3800 E4		V3800 E4		V3800 E4
COMBUSTION ENGINE	7.2 7.3	Engine power according to ISO 1585	kW	5			5 100		5 100		5
ē	7.3	Rated speed Torque at 1/min	min-1 Nm/min-1	300	1400	300	1400	300	1400	300	1400
BUST	7.4	Number of cylinders/displacement	(-)/cm ³	4	3796	4	3796	4	3796	4	3796
	7.5	Fuel consumption according to VDI cycle	l/h	6.4	-		47	6.			67
	7.10	Battery voltage/nominal capacity	(V)/(Ah)	12	105	12	105	12	105	12	105
	8.1	Type of drive unit		Hydrod	vnamic	Hydrod	ynamic	Hydrod	ynamic	Hydrod	lynamic
	10.1	Operating pressure for attachments	bar	15			53		53		53
E	10.2	Oil volume for attachments	l/min	83			3.3		3.3		3.3
ADDITIONAL DATA	10.3	Hydraulic oil tank, capacity	1	64			1.7	64			4.7
Ē	10.4	Fuel tank, capacity Sound pressure level at the driver's seat	dB (A)	65			5.8 11		5.8 1		5.8 31
	10.7		dB (A) dB (A)	10			DO		00		00
	10.7.2		dB (A)	10			D4	10			04
	10.8	Towing coupling, type DIN		Pi	in	Р	in	Р	in	P	'in
1		ian data is based on V/DI 2109									

Specification data is based on VDI 2198

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

Complete truck with 3 400 mm 2-stage limited free lift mast, standard carriage, 1 200 mm forks, e-hydraulics, overhead guard and standard cushion drive and steer tyres.

HYS	TER	uve	TER	uvo	STER	HYS	TER	
S7.0		S7.0			.OFT		OFT	1.1
Forte		Fort		-	Advance	Fortens A		1.2
Kubota		Kubot	0110		ta 3.8L	Kubot		-
Basic Po		Basic Po			/atch™		h™ Plus3	-
2-spe		2-spee Soft Shift Pov	ed plus		peed	3-sp		
Wet Br	akas	Wet B		Wat	Brakes	Wet B	rakos	-
Dies		Die			esel		sel	1.3
Seat		Sea			ated	Sea		1.4
7.0)	7.	0	7	7.0	7.	.0	1.5
60	0	60	0	6	00	60	00	1.6
49	8	49	8	4	98	49	38	1.8
183	0	18	30	18	830	18	30	1.9
953		95	-	-	531	95		2.1
14928 3730	1603 5801	14928 3730	1603 5801	14928 3730	1603 5801	14928 3730	1603 5801	2.2
3730	1060	3/30	0001	3730	1080	3730	1080	2.3
V		\	1		V	1	J	3.1
28 x 12		28 x 1			v 12 x 22		2 x 22	3.2
22 x 8		22 x 8			8x 16	-	3 x 16	3.3
2x	2	2x	2	2x	2	2x	2	3.5
113	3	11	33	1	133	11	33	3.6
119	2	11	92	1	192	11	92	3.7
6	10	6	10	6	10	6	10	4.1
269		26			697	26		4.2
10	-	10	-		00	10		4.3
334	-	33	-		340	33	-	4.4
457 230	-	45	-		575	45	-	4.5
133	-				302 335	23		4.7
38	-	13			330 188	38	35	4.8
412	-	41		-	128	41		4.12
292	-	29	-		928	29	-	4.13
143	-	14	-		438	14		4.20
60 15	-	60 15			50 1200	60 15		4.22
IV/		IV			VA	IV		4.23
121	9	12	19	12	219	12	19	4.24
11	3	11	3	1	13	11	13	4.31
18	8	18	8	1	88	18	38	4.32
1200 x	1000	1200 >	x 1000	1200	x 1000	1200 >	< 1000	4.33
428	3	42	83	42	283	42	83	4.34
448	3	44	83	44	483	44	83	4.34
448	-	44			483	44		4.34
258	-	25			585	25		4.35
75		75			'51 292	75		4.36
229		22	-		292 31	53		4.4
31		31		-	13		13	4.42
	-		-				-	
20.7	20.0	20.7	20.0	20.9	20.2	20.9	20.2	5.1
20.7	20.0	20.7	20.0	18.3	17.7	18.3	17.7	5.1.
0.45	0.49	0.45	0.49	0.45	0.49	0.45	0.49	5.2
0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53	5.3
37550	22640	37550	22640	44500	22640	44500	22640	5.4
14.1	23.9	14.1	23.9	15.1	23.9	15.1	23.9	5.7
6.1	5.1	6.1 Uuda	5.1	6.3	5.8	6.3	5.8	5.9
Hydra		Hydra	aulic	Hyd	raulic	Hydr	aulic	5.10
Kubata	2900 E4	Kubata	/2200 E4	V	V/2800 E4	Kubata	/2800 EA	71
Kubota V 55		Kubota \ 5			V3800 E4 55	Kubota \ 5		7.1
220		22	-		200	22		7.3
300	1400	300	1400	300	1400	300	1400	7.3.
4	3796	4	3796	4	3796	4	3796	7.4
6.9		- 6.9			.18	7.		7.5
12	105	12	105	12	105	12	105	7.10
Hydrody		Hydrod		-	dynamic	Hydrod	-	8.1
15		15			53	15		10.1
83.		83			3.3	83		10.2
		64			4.7	64		10.3
64.		65			5.8	65		10.4
64. 65.					B1	8	1	10.7
64. 65. 81		8			-			10-
64. 65. 81 10	D	10	10	1	00	10	00	10.7
64. 65. 81	D 4		10 14	1	-	10	00	10.7 10.7 10.8

NOTE:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster Truck.

- at 1.6 km/h
- □ at 4.8km/h
- + to 15m (per VDI 2198 December 2012)
- Battery ampere hour (Ah) nominal capacity ratings are estimated.
- With and without cab.

MAST TABLES:

- With load backrest
- ★ Without 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 must read, understand and follow the instructions contained in the Operating Manual.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Hyster products might be subject to change without notice.

Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

CE Safety:

This truck conforms to the current EU requirements.

FORTENS, FORTENS ADVANCE, FORTENS ADVANCE+ S6.0FT, S7.0FT LPG

	11	Manufacture (although they		HVS	TER	HVS	TER	HYS	TFR	HVS	STER
	1.1 1.2	Manufacturer (abbreviation) Manufacturer's type designation	_	S6.0		S6.		S6.			.0FT
		Model		Fort		Fort	-		Advance		Advance+
_		Engine		PSI	4.3L	PSI	4.3L	PSI	4.3L	PSI	l 4.3L
DISTINGUISHING MARK		Transmission		Basic Po 2-sp		Basic Po 2-spee Soft Shift Pov	ed plus	DuraN 3-sp	latch™ ieed		ch™ Plus3 peed
BUIS		Brake type		Wet B	rakes	Wet B	rakes	Wet E	rakes	Wet E	Brakes
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		LP		LF			G		PG
Ĩ	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Sea		Sea		Sea			ated
	1.5 1.6	Rated capacity/rated load Load centre distance	Q (t) c (mm)	6.		6.		6	.0		5.0 i00
	1.8	Load distance, centre of drive axle to fork	x (mm)	49	-	49			98		98
	1.9	Wheelbase	y (mm)	18	-	18			30		830
120											
£	2.1	Service weight	kg	86		86			16		616
NEIG	2.2 2.3	Axle loading laden, front/rear	kg	13124	1492 5090	13124	1492	13124	1492 5090	13124	1492 5090
	2.3	Axle loading unladen, front/rear	kg	3526	2090	3526	5090	3526	2090	3526	2090
	3.1	Tyres: L = pneumatic, V = solid, SE = pneumatic-shaped solid			/	1	/		/		V
IVRES/CHASSIS	3.2	Tyre size, front		28 x 1	2 x 22	28 x 1	2 x 22	28 x 1	2 x 22	28 x 1	12 x 22
GHÐ	3.3	Tyre size, rear		22 x 8			3 x 16		8x 16		8 x 16
BES/	3.5	Wheels, number front/rear (x = driven wheels)		2x	2	2x	2	2x	2	2x	2
Σ	3.6 3.7	Tread, front Tread, rear	b ₁₀ (mm) b ₁₁ (mm)	11		11	33 92		33 92		133 192
	3.1	11000,1001	U11 (IIIII)		v2		02		02		192
	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	6	10	6	10	6	10	6	10
	4.2	Height, mast lowered	h ₁ (mm)	26		26			97		697
	4.3	Free lift	h ₂ (mm)	10		10			0		00
	4.4 4.5	Lift Height, mast extended	h ₃ (mm)	33		33			40 75		340 575
	4.5	Height of overhead guard (cabin)	h₄ (mm) h₅ (mm)	23		43			02		302
	4.8	Seat height/stand height	h ₇ (mm)	13		13			35		335
	4.12	Coupling height	h ₁₀ (mm)	38	8	38	38	3	38	3	88
	4.19	Overall length	l ₁ (mm)	41		41	28		28		128
	4.20	Length to face of forks	I ₂ (mm)	29		29		29			928
¥	4.21 4.22	Overall width Fork dimensions ISO 2331	b ₁ /b ₂ (mm) s/e/l (mm)	60 15		14 60 15	38 50 1200	60 1	38 50 1200		438 50 1200
SIO	4.22	Fork carriage ISO 2328, class/type A, B	s/e/i (mm)	60 15 IV							50 1200 VA
DIMENSIONS	4.24	Fork carriage width	b ₃ (mm)	12		12			19		219
	4.31	Ground clearance, laden, below mast	m1 (mm)	11	3	11	13	1	13	1	13
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	18	8	18	38	1	38	1	88
	4.33	Load dimension $b_{12} \times l_6$ crossways	$b_{12} \times l_6 (mm)$	1200 x			c 1000		< 1000		x 1000
	4.34 4.34.1	Aisle width predetermined load dimensions Aisle width for pallets 1000 × 1200 crossways	A _{st} (mm) A _{st} (mm)	42		42			83 83		283 483
	4.34.1	Aisle width for pallets 800 × 1200 crossways	A _{st} (mm)	44		44			83		483
	4.35	Turning radius	W _a (mm)	25		25			85		585
	4.36	Internal turning radius	b ₁₃ (mm)	75	i1	75	51	7	51	7	'51
	4.41	90° intersecting aisle (with pallet L = 1000mm x W = 1200mm)	(mm)	22		22			92		292
	4.42	Step height (from ground to running board)	(mm)	53		53		5			31
	4.43	Step height (between intermediate steps and floor)	(mm)	31	3	3	13	3	13	3	13
	5.1	Travel speed, laden/unladen	km/h	20.1	19.4	20.1	19.4	20.8	20.4	20.8	20.4
E	5.1.1	Travel speed, laden/unladen, backwards	km/h	20.1	19.4	20.1	19.4	18.2	17.9	18.2	17.9
A H	5.2	Lift speed, laden/unladen	m/s	0.53	0.54	0.53	0.54	0.53	0.54	0.53	0.54
N	5.3	Lowering speed, laden/unladen	m/s	0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53
PERFORMANCE DATA	5.5 5.7	Drawbar pull, laden/unladen Gradeability, laden/unladen	N %	38440	21350 24.8	38440 16.6	21350 24.8	44500 20.2	21350 24.8	44500 20.2	21350 24.8
Ë	5.9	Acceleration time, laden/unladen	70 S	6.2	24.8 5.4	6.2	5.4	6.5	6.1	6.5	6.1
	5.10	Service brake		Hydra		Hydr		Hydr			raulic
				-	_						
¥	7.1	Engine manufacturer/type		PSI			4.3L		4.3L		4.3L
NG	7.2	Engine power according to ISO 1585	kW	7:			2		2		72
COMBUSTION ENGINE	7.3 7.3.1	Rated speed Torque at 1/min	min–1 Nm/min–1	24	2400	24	2400	24	00 2400	24	400 2400
IST	7.4	Number of cylinders/displacement	(-)/cm ³	6	4302	6	4302	6	4302	6	4302
	7.5	Fuel consumption according to VDI cycle	kg/h	5.4		5.4			60		.60
-	7.10	Battery voltage/nominal capacity	(V)/(Ah)	12	105	12	105	12	105	12	105
	8.1	Type of drive unit		Hydrod		Hydrod			ynamic 2		dynamic
4	10.1	Operating pressure for attachments Oil volume for attachments	bar I/min	15		83	53 - 3		i3 .3		53 3.3
	10.2	Hydraulic oil tank, capacity	1	64		64		64			4.7
IONAL DATA	10.4	Fuel tank, capacity	1	38		38			.6		8.6
TIDA	10.7	Sound pressure level at the driver's seat	dB (A)	8		8			3		83
8	10.7.1	Sound power level during the workcycle	dB (A)	10			03		03		03
	10.7.2	Guaranteed sound power 2000/14/EC	dB (A)	10 Pi)8 in		08 in		08 Pin
	10.0	Towing coupling, type DIN				P		<u> </u>		F	

HYS	TER	HYS	TER	HYS	TER	HYS	TER	1.1
S7.0	FT	\$7.0	DFT	\$7.	DFT	\$7.	DFT	1.2
Forte	ens	Fort	ens	Fortens /	Advance	Fortens A	dvance+	
PSI 4	1.3L	PSI	4.3L	PSI		PSI		
Basic Po			wershift	DuraM			h™ Plus3	
2-sp	eed	2-spee Soft Shift Pov		3-speed		3-sp	eed	
Wet B	rakas			Wet Brakes		Wet B	rakas	
LP		Wet Brakes LPG		LP		LF		1.3
Seat	-	Sea	-	Sea	-	Seated		1.4
7.0)	7.	0	7.	0	7	.0	1.5
60	0	60	00	60	00	60	00	1.6
49	-	49	-	49	-		98	1.8
210	00	21	00	21	00	21	00	1.9
948	20	94	00	94	00	94	00	2.1
14908	1572	14908	1572	14908	1572	14908	1572	2.1
3710	5770	3710	5770	3710	5770	3710	5770	2.2
3710	3110	3710	3770	3710	3770	3710	3//0	2.0
V		1	1		1	1	/	3.1
28 x 12	2 x 22	28 x 1	28 x 12 x 22 28 x 12		2 x 22	28 x 1	2 x 22	3.2
22 x 8	x 16	22 x 8	8 x 16	22 x 8x 16		22 x 8	3 x 16	3.3
2x	2	2x	2	2x 2		2x	2	3.5
113		11		1133			33	3.6
119	92	11	92	11	92	11	92	3.7
6	10		10	6	10	6	10	4.1
6 269	10 6 10 2697 2697		6 26	10	6 26	10 97	4.1 4.2	
203		20	-	20	-	-	97 00	4.2
334	-	33		33		33	~	4.4
457	-	45		45	-	45	-	4.5
230	-	23	-	23	-	23	-	4.7
133	35	13	35	13	35	13	35	4.8
38	8	38	8	38	8	38	38	4.12
412	28	41	28	4128		41	28	4.19
292		29	-	2928		29		4.20
1438		14		1438			38	4.21
60 15		60 150 1200 IVA		60 15	-		50 1200	4.22
IV	-			IV		IVA 1219		4.23
121	-	12		12	-		19	4.24 4.31
11	-	18	-	18	-		38	4.31
1200 x	-	1200 >	-	1200 >	-	1200 2		4.33
428		42		42		42		4.34
448	33	44	83	44	83	44	83	4.34.1
448	3	44	83	44	83	44	83	4.34.2
258	35	25	85	25	85	25	85	4.35
75		75		75		75		4.36
229		22		22	-	22	-	4.41
53		53		53		53		4.42
31	J	31	3	31	3	3	3	4.43
20.1	19.4	20.1	19.4	20.8	20.4	20.8	20.4	5.1
20.1	19.4	20.1	19.4	18.2	20.4	18.2	20.4	5.1.1
0.53	0.54	0.53	0.54	0.53	0.54	0.53	0.54	5.2
0.58	0.53	0.58	0.53	0.58	0.53	0.58	0.53	5.3
38100	22550	38100	22550	44500	22550	44500	22550	5.5
14.7	23.9	14.7	23.9	17.9	23.9	17.9	23.9	5.7
	5.5	6.5	5.5	6.7	6.2	6.7	6.2	5.9
6.5	ulic	Hydra	aulic	Hydr	aulic	Hydr	aulic	5.10
6.5 Hydra						_		
Hydra			4.3L	PSI		PSI		7.1
Hydra PSI 4			2	72		72		7.2 7.3
Hydra PSI 4 72	2	7.			nn	0.4		
Hydra PSI 4 72 240	2 10	7.	00	24		24		
Hydra PSI 4 72 240 285	2 00 2400	7. 24 285	00 2400	24 285	2400	285	2400	7.3.1
Hydra PSI 4 72 240	2 00 2400 4302	7.	00 2400 4302	24	2400 4302	285 6		7.3.1 7.4 7.5
Hydra PSI 4 72 240 285 6	2 00 2400 4302	7: 24 285 6	00 2400 4302	24 285 6	2400 4302	285 6	2400 4302	7.4
Hydra PSI 4 72 240 285 6 6 6.5 12	2 00 2400 4302 0 105	7: 24 285 6 6.5	00 2400 4302 50	24 285 6 6.8	2400 4302 30	285 6 6.	2400 4302 80	7.4 7.5
Hydra PSI 4 72 240 285 6 6	2 00 2400 4302 0 105	7: 24 285 6 6.5	00 2400 4302 50 105	24 285 6 6.8	2400 4302 30 105	285 6 6.	2400 4302 80 105	7.4 7.5
Hydra PSI 4 285 6 12 Hydrody 15	2 10 2400 4302 0 105 mamic 3	7 24 285 6 6. 12 Hydrod	00 2400 4302 50 105 ynamic i3	24 285 6 6. 12 Hydrod	2400 4302 30 105 ynamic i3	285 6 6. 12 Hydrod	2400 4302 80 105 ynamic i3	7.4 7.5 7.10 8.1 10.1
Hydra PSI 4 72 240 285 6 6.5 12 Hydrody 15 83.	2 00 4302 0 105 mamic 3 3	7. 24 285 6 6. 12 Hydrod 15 83	00 2400 4302 50 105 ynamic 33 .3	24 285 6 12 Hydrod 15 83	2400 4302 300 105 ynamic i3 .3	285 6 6. 12 Hydrod 15 83	2400 4302 30 105 ynamic i3 .3	7.4 7.5 7.10 8.1 10.1 10.2
Hydra PSI 4 285 6 12 Hydrody 15 83. 64.	2 00 2400 4302 0 105 7 7	7 24 285 6 6. 12 Hydrod 15 83 64	00 2400 4302 50 105 ynamic i3 .3 .7	24 285 6 6. 12 Hydrod 15 83 64	2400 4302 30 105 ynamic 33 .3 .7	285 6 6. 12 Hydrod 15 83 64	2400 4302 30 105 ynamic 33 .3 .7	7.4 7.5 7.10 8.1 10.1 10.2 10.3
Hydra PSI 4 72 240 285 6 6.5 12 Hydrody 15 83 83 64. 38.	2 00 2400 4302 0 105 7 3 3 7 6	7: 24 285 6 6. 12 Hydrod 15 83 64 38	00 2400 4302 50 105 ynamic i3 .3 .3 .7 .6	24 285 6 12 Hydrod 15 83 64 38	2400 4302 30 105 ynamic i3 .3 .3 .7 .6	285 6 12 Hydrod 11 83 64 38	2400 4302 30 105 ynamic 33 .3 .7 .6	7.4 7.5 7.10 8.1 10.1 10.2 10.3 10.7
Hydra PSI 4 285 6 6.5 12 Hydrody 15 833 64. 388	2 00 4302 0 105 7 3 3 7 6 6	7. 24 285 6 6. 12 Hydrod 15 83 64 38 64 38	00 2400 4302 50 105 ynamic i3 .3 .3 .7 .6 3	24 285 6 12 Hydrod 15 83 64 38 88 88	2400 4302 30 105 33 .3 .3 .7 .6 3	285 6 12 Hydrod 11 83 64 38 83 83 83	2400 4302 30 105 ynamic 33 .3 .7 .6 3	7.4 7.5 7.10 8.1 10.1 10.2 10.3 10.7 10.7
Hydra PSI 4 285 6 6.5 12 Hydrody 15 83. 64. 388 83. 10	2 2400 4302 0 105 mamic 3 3 7 7 6 3 3 3	7 24 285 6 6. 12 Hydrod 15 83 64 38 64 38 8	00 2400 4302 50 105 ynamic i3 .3 .7 .6 3 .3 .7 .6 .3 .3 .7 .6 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3	24 285 6 12 Hydrod 15 83 64 38 83 8 8	2400 4302 30 105 33 .3 .3 .7 .6 3 3 3	285 6 12 Hydrod 15 83 64 38 83 8 8 10	2400 4302 30 ynamic 33 3 7 6 3 3 3	7.4 7.5 7.10 8.1 10.1 10.2 10.3 10.7 10.7 10.7.1
Hydra PSI 4 72 240 285 6 6.5 12 Hydrody 15 833 64. 38. 83	2 10 2400 4302 0 105 105 3 3 7 6 8 3 8	7. 24 285 6 6. 12 Hydrod 15 83 64 38 64 38	00 2400 4302 50 105 9 9 9 9 9 9 9 9 9 9 9 9 9	24 285 6 12 Hydrod 15 83 64 38 88 88	2400 4302 30 105 ynamic 33 .3 .3 .7 .6 .6 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3 .3	285 6 12 Hydrod 15 83 64 38 83 8 8 10	2400 4302 30 105 33 .3 .7 .6 3 3 13 18	7.4 7.5 7.10 8.1 10.1 10.2 10.3 10.7 10.7

Specification data is based on VDI 2198

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

Complete truck with 3 400 mm 2-stage limited free lift mast, standard carriage, 1 200 mm forks, e-hydraulics, overhead guard and standard cushion drive and steer tyres.

NOTE:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster Truck.

- at 1.6 km/h
- □ at 4.8km/h
- + to 15m (per VDI 2198 December 2012)
- Battery ampere hour (Ah) nominal capacity ratings are estimated.
- With and without cab.

MAST TABLES:

- With load backrest
- ★ Without 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 must read, understand and follow the instructions contained in the Operating Manual.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Hyster products might be subject to change without notice.

Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

CE Safety:

This truck conforms to the current EU requirements.

5

MAST AND CAPACITY INFORMATION

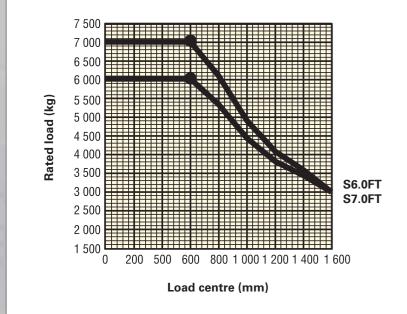
S6.0-7.0FT MASTS

Mast type	Maximum fork height (mm)	Back tilt	Overall lowered height (mm)	Overall Extended height (mm)	Free lift (top of forks) (mm)
2-Stage Limited Free Lift	2 400 3 400 4 400	10° 10° 10°	2 197 2 697 3 197	3 632 ▲ 4 632 ▲ 5 632 ▲	160 ¥ 160 ¥ 160 ¥
3-Stage Full Free Lift	3 800 4 700 5 600 6 200	6° 6° 6°	2 227 2 527 2 827 3 077	5 026 ▲ 5 926 ▲ 6 826 ▲ 7 426 ▲	995 ★ 1 295 ★ 1 595 ★ 1 845 ★

S6.0-7.0FT - Capacity Chart in kg @ 600mm Load Centre

				Cushion Tyres			
Mast type	Maximum fork height	With carr	iage only	With carriag	e + sideshift	With carriage + sides	hifting fork positioner
	(mm)	S6.0FT	S7.0FT	S6.0FT	S7.0FT	S6.0FT	\$7.0FT
2-Stage Limited Free Lift	2 400 3 400 4 400	6 000 6 000 6 000	7 000 7 000 7 000	5 730 5 700 5 650	6 580 6 550 6 490	5 680 5 650 5 600	6 530 6 500 6 440
3-Stage Full Free Lift	3 800 4 700 5 600	6 000 6 000 5 800	7 000 7 000 6 740	5 630 5 600 5 390	6 430 6 400 6 190	5 570 5 550 5 340	6 380 6 350 6 140

RATED CAPACITIES



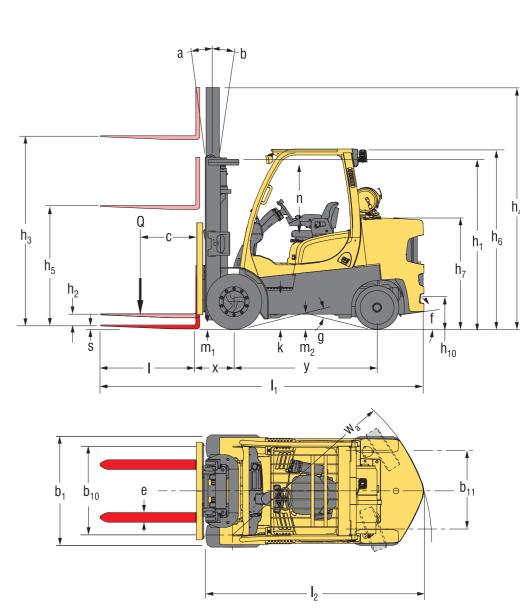
Load centre

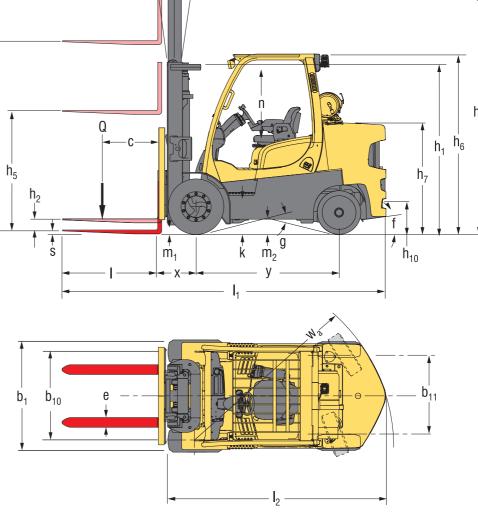
Distance from front of forks to centre of gravity of load.

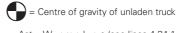
Rated load

Based on vertical masts up to 4 700 mm to top of forks.

TRUCK DIMENSIONS







Ast = W_a + x + I₆ + a (see lines 4.34.1 & 4.34.24) a = Minimum operating clearance (VDI standard = 200 mm BITA recommendation = 300 mm) I_e = Load length

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.

Dimensions (mm)	S6.0FT	S7.0FT
f	42%	42%
g	24.9°	24.9°
k	531	531
n	1 062	1 062

PRODUCT PACKAGES

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

The S6.0-7.0FT Series is available in several truck packages, with multiple powertrain combinations to choose from, to best match operational demands. Each configuration offers improved efficiency, advanced dependability, lower cost of ownership and simple serviceability.

Model / Bundle	S6.0FT			S7.0FT			
DIESEL	Engine	Transmission	Brakes	Engine	Transmission	Brakes	
Fortens	Kubota 3.8L	Electronic Powershift 2-speed	Wet brakes	Kubota 3.8L	Electronic Powershift 2-speed	Wet brakes	
Fortens Advance	Kubota 3.8L	Electronic Powershift with Soft Shift Power Reversal 2-speed	Wet brakes	Kubota 3.8L	Electronic Powershift with Soft Shift Power Reversal 2-speed	Wet brakes	
	Kubota 3.8L	DuraMatch™ 3-speed	Wet brakes	Kubota 3.8L	DuraMatch™ 3-speed	Wet brakes	
Fortens Advance +	Kubota 3.8L	DuraMatch™ Plus3 3-speed	Wet brakes	Kubota 3.8L	DuraMatch™ Plus3 3-speed	Wet brakes	

Model / Bundle	S6.0FT			\$7.0FT			
LPG	Engine	Transmission	Brakes	Engine	Transmission	Brakes	
Fortens	PSI 4.3L	Electronic Powershift 2-speed	Wet brakes	PSI 4.3L	Electronic Powershift 2-speed	Wet brakes	
Fortens Advance	PSI 4.3L	Electronic Powershift with Soft Shift Power Reversal 2-speed	Wet brakes	PSI 4.3L	Electronic Powershift with Soft Shift Power Reversal 2-speed	Wet brakes	
	PSI 4.3L	DuraMatch™ 3-speed	Wet brakes	PSI 4.3L	DuraMatch™ 3-speed	Wet brakes	
Fortens Advance +	PSI 4.3L	DuraMatch™ Plus3 3-speed	Wet brakes	PSI 4.3L	DuraMatch™ Plus3 3-speed	Wet brakes	

POWERTRAINS

1.3	Drive: electric (battery or mains), diesel, petrol, LPG	
7.1	Engine manufacturer/type	
	Engine power according to ISO 1585	kW
7.2 7.3 7.3.1 7.4 7.6 7.6	Rated speed	min–1
7.3.1	Torque at 1/min	Nm/min-1
7.4	Number of cylinders/displacement	CM ³
7.6	Turnover output	kWh/h @Nr of Cycles
I 7.7	Energy consumption at turnover output	t/h
7.10	Battery voltage/nominal capacity 🗇	(V)/(Ah)
-		
8.1	Type of drive unit	
8.2	Manufacturer/type	
₽ 8.6	Wheel drive/drive axle manufacturer/type	
8.1 8.2 8.6 8.11 8.11 8.12	Service brake	
8.12	Parking brake	

Diesel	LPG
Kubota V3800 E4	PSI 4.3L
55	72
2200	2400
300 / 1400	285 / 2400
4 / 3796	6 / 4302
TBA	TBA
TBA	TBA
12 / 105	12 / 105
Hydrodynamic	Hydrodynamic
NMHG/Electronic	NMHG/Electronic
Dana or NMHG/WBA	Dana or NMHG/WBA
Hydraulic	Hydraulic
Multi Disc Brake	Multi Disc Brake

Sattery ampere hour (Ah) nominal capacity ratings are estimated.

PRODUCT FEATURES

The Hyster Fortens S6.0-7.0FT Series represents a powerful, compact materials handling solution for heavy duty indoor applications such as paper roll storage.

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

Hyster Fortens S6.0-7.0FT models feature the Stage IIIB compatible Kubota V3800 E4 3.8L diesel engine for regulated markets or PSI 4.3L LPG engine.

Low emission engines from Kubota

The Stage IIIB Kubota V3800 E4 3.8L (55 kW@2 200rpm) diesel engine meets the stringent emissions regulations by using a number of technologies including cooled exhaust gas recirculation, charge air cooling and an active regenerating Diesel particulate filter (DPF) which reduces soot levels by 90% to 0.025g/kWh.

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



The Standard Fortens model features a 2-speed (2F/2R) Electronic Powershift Transmission, with an optionally available **Soft Shift Power Reversal** function for handling delicate loads, which inhibits direction changes at speeds of over 3.5km/h. The Fortens Advance models feature the electronically controlled 3-speed (3F/2R) Duramatch[™] 3 transmission, providing:

Auto Deceleration System (ADS) automatically

slows the truck when the accelerator pedal is released, and finally brings the truck to a stop, which helps to significantly extend brake life. In addition, this feature assists the driver to accurately position the truck in front of a load. There are 10 ADS settings, programmable via the dash display by a service technician, which deliver different braking characteristics, from very gradual to aggressive, to suit the needs of the application.

■ Controlled Power Reversal; the Pacesetter VSMTM controls the transmission to deliver smooth direction changes. The VSM reduces the throttle to slow the engine, initiates auto-deceleration to stop the truck, changes the transmission direction automatically and

increases the throttle to accelerate the truck. The system virtually eliminates tyre spin and shock loads on the transmission and significantly increases tyre life. As with ADS, the system is programmable via the dash display by a service technician, with settings from 1 to 10, to suit the needs of the application.

Controlled Roll-Back on Ramp; the transmission controls the rate of decent of the truck on a ramp, when the brake and throttle pedal are released, to provide maximum control on a grade and increase operator productivity.

First Gear offers Increased Drawbar Pull for use on gradients.

Second & Third Gears (when available) provide maximum engine efficiency in applications where longer travel distances are common.

The Fortens Advance+ models feature the electronically controlled three-speed extended function DuraMatch[™] Plus3 transmission. This transmission, in addition to the above, features:

Throttle Response Management allows the operator to manage his travel speed, according to the position of his foot on the accelerator pedal. For example, a certain speed can be maintained both on the flat and on a gradient, without the need to depress the pedal further. The system also compensates for hydraulic operation and drawbar pull.

■ Dynamic Auto Deceleration System; as with the DuraMatch[™]3, the operator can slow the truck down without using the brake and the rate of braking is determined by the dashboard settings 1-10. In addition, thanks to the Throttle Response Management feature, the rate of deceleration can be further fine-tuned according to the rate at which the driver releases his foot from the accelerator pedal.

Auto-Speed Hydraulics with Automatic Inching 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.

PRODUCT FEATURES

The transmissions are compatible with the combicooler radiator and a superior counterweight tunnel design coupled with a "pusher" type fan, to provide the industry's best cooling.

The standard Oil-immersed brakes offer reduced maintenance and repair time and costs, which results in extended truck dependability and uptime. These trucks are ideally suited to applications in wet, dirty or corrosive environments, and ensure consistent braking performance over the lifetime of the truck. This is thanks to the sealed unit that houses and protects the brakes, so preventing contaminants and damage.

All powertrains are controlled, protected and managed by **The Pacesetter VSM™** industrial 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 53.1 cm.
- The isolated drivetrain minimises the effect of powertrain vibration.
- The Full Suspension Seat together with the isolated powertrain provide best in class Whole-Body Vibration levels of 0.6m/s², ensuring that the operator remains comfortable throughout the shift and fatigue, aches and pains are kept to a minimum.
- The TouchPoint[™] mini-lever armrest features a new contoured design, and in addition to the hydraulic functions features a horn and direction switch, ensuring that all key truck functions are within constant, easy reach.
- The Rear grab handle with horn button facilitates reverse driving.
- An infinitely adjustable steering column, 30cm diameter steering wheel with spinner knob and full-suspension seat enhance driver comfort.

The Hyster Fortens is the fastest and easiest lift truck to service.

- 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."

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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