FORTENS™

HYSTER

STRONG PARTNERS.
TOUGH TRUCKS.™

LPG FORKLIFT TRUCKS

S4.0-5.5FT FORTENS ADVANCE / FORTENS ADVANCE+

4 000-5 500 KG

FORTENS ADVANCE S4.0FT, S4.5FT, S5.5FT, S5.5FTS

DISTINGUISHING MARK	1.1	Manufacturer (abbreviation)		HYSTER				HYSTER				HYSTER				HYSTER		
	1.2	Manufacturer's type designition		S4.0FT				S4.5FT				S5.5FT				S5.5FTS		
		Model		Fortens Advance				Fortens Advance				Fortens Advance				Fortens Advance		
		Engine		Kubota 3.8L				Kubota 3.8L				Kubota 3.8L				Kubota 3.8L		
		Transmission		DuraMatch				DuraMatch				DuraMatch				DuraMatch		
				1-speed				1-speed				1-speed				1-speed		
		Brake type		Premium Wet Brakes				Premium Wet Brakes				Premium Wet Brakes				Premium Wet Brakes		
	1.3	Drive: electric (battery or mains), diesel, petrol, LPG		LPG				LPG				LPG				LPG		
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated				Seated				Seated				Seated		
	1.5	Rated capacity/rated load	Q (t)	4.0				4.5				5.5				5.5		
	1.6	Load centre distance	c (mm)	500				600				600				600		
	1.8	Load distance, centre of drive axle to fork	x (mm)	447				462				462				462		
	1.9	Wheelbase	y (mm)	1570				1790				1790				1790		
WEIGHTS	2.1	Service weight	kg	5795				6977				7595				7618		
	2.2	Axle loading laden, front/rear	kg	8607	1188			10085	1392			11523	1572			11729	1389	
	2.3	Axle loading unladen, front/rear	kg	2194	3601			2916	4061			2760	4835			2966	4652	
TYRES/CHASSIS	3.1	Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid		V				V				V				V		
	3.2	Tyre size, front		22x9x16				22x12x16				22x12x16				22x12x16		
	3.3	Tyre size, rear		18x7x12.1				18x8x12.1				18x8x12.1				18x8x12.1		
	3.5	Wheels, number front/rear (x = driven wheels)		2x	2			2x	2			2x	2			2x	2	
	3.6	Tread, front	b_{10} (mm)	941				1015				1015				1015		
	3.7	Tread, rear	b_{11} (mm)	978				1004				1004				1004		
DIMENSIONS	4.1	Tilt of mast/fork carriage forward/backward	α /β (°)	5	6			5	6			5	6			5	6	
	4.2	Height, mast lowered	h_1 (mm)	2130				2135				2135				2135		
	4.3	Free lift ¶	h_2 (mm)	100				100				100				100		
	4.4	Lift ¶	h_3 (mm)	3000				2740				2740				2740		
	4.5	Height, mast extended ●	h_4 (mm)	3780				3665				3665				3665		
	4.7	Height of overhead guard (cabin)	h_6 (mm)	2171				2175				2175				2175		
	4.8	Seat height/stand height ✪	h_7 (mm)	1221				1339				1339				1339		
	4.12	Coupling height	h_{10} (mm)	367				371				371				371		
	4.19	Overall length	l_1 (mm)	3630				3969				4061				3899		
	4.20	Length to face of forks	l_2 (mm)	2630				2769				2861				2699		
	4.21	Overall width	b_1 (mm)	1170	1270			1320	1420			1320	1420			1320	1420	
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	50	125	1000		60	150	1200		60	150	1200		60	150	1200
	4.23	Fork carriage ISO 2328, class/type A, B		IIIA				IVA				IVA				IVA		
	4.24	Fork carriage width ■	b_3 (mm)	1070				1070				1070				1070		
	4.31	Ground clearance, laden, below mast	m_1 (mm)	114				118				118				118		
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	152				156				156				156		
	4.33	Load dimension $b_{12} \times l_6$ crossways	$b_{12} \times l_6$ (mm)	1200 x 1000				1200 x 1000				1200 x 1000				1200 x 1000		
	4.34	Aisle width predetermined load dimensions ◆	A_{st} (mm)	3945				4109				4196				4037		
	4.34.1	Aisle width for pallets 1000 × 1200 crossways ◆	A_{st} (mm)	4145				4309				4396				4237		
	4.34.2	Aisle width for pallets 800 × 1200 crossways ◆	A_{st} (mm)	4145				4309				4396				4237		
	4.35	Turning radius	W_a (mm)	2298				2447				2534				2375		
	4.36	Internal turning radius	b_{13} (mm)	675				762				762				762		
	4.41	90° intersecting aisle (with pallet L = 1000mm x W = 1200mm)	(mm)	2051				2164				2211				2161		
	4.42	Step Height (from ground to running board)	(mm)	392				396				396				396		
	4.43	Step Height (between intermediate steps and floor)	(mm)	322				322				322				322		
PERFORMANCE DATA	5.1	Travel speed, laden/unladen	km/h	18.1	18.3			17.8	18.1			17.7	18.1			17.7	18.1	
	5.1.1	Travel speed, laden/unladen, backwards	km/h	18.1	18.3			17.8	18.1			17.7	18.1			17.7	18.1	
	5.2	Lift speed, laden/unladen	m/s	0.61	0.62			0.56	0.57			0.56	0.57			0.56	0.57	
	5.3	Lowering speed, laden/unladen	m/s	0.55	0.47			0.51	0.42			0.51	0.42			0.51	0.42	
	5.5	Drawbar pull, laden/unladen †	N	31725	12804			34923	16916			34626	15999			34626	15999	
	5.7	Gradeability, laden/unladen ✶	%	36.8	14.1			32.6	18.7			28.2	17.7			28.2	17.7	
	5.9	Acceleration time, laden/unladen ⇆	s	4.3	4.9			4.2	4.9			4.3	5.1			4.3	5.1	
	5.10	Service brake		Hydraulic				Hydraulic				Hydraulic				Hydraulic		
	7.5	Fuel consumption according to VDI cycle	l/h or kg/h	4.0				4.5				4.9				4.9		
	8.1	Type of drive unit		Hydrodynamic				Hydrodynamic				Hydrodynamic				Hydrodynamic		
ADDITIONAL DATA	10.1	Operating pressure for attachments	bar	155				155				155				155		
	10.2	Oil volume for attachments ✧	l/min	83.3				83.3				83.3				83.3		
	10.3	Hydraulic oil tank, capacity	l	76.6				76.6				76.6				76.6		
	10.4	Fuel tank, capacity	l	38.6				38.6				38.6				38.6		
	10.7	Sound pressure level at the driver's seat ◎ ◇	dB (A)	84				84				84				84		
	10.7.1	Sound power level during the workcycle ◈	dB (A)	102				102				102				102		
	10.7.2	Guaranteed sound power 2000/14/EC	dB (A)	106				106				106				106		
	10.8	Towing coupling, type DIN		Pin				Pin				Pin				Pin		

Specification data is per VDI 2198 December 2012

EQUIPMENT AND WEIGHT: Specification data based on 3050mm (S4.0FT) / 2800mm (S4.5FT - S5.5FTS) TOF 2 stage LFL mast with standard carriage, 1000mm (S4.0FT) / 1200mm (S4.5FT - S5.5FTS) forks with e-hydraulics.

FORTENS ADVANCE+ S4.0FT, S4.5FT, S5.5FT, S5.5FTS

DISTINGUISHING MARK	1.1	Manufacturer (abbreviation)		HYSTER				HYSTER				HYSTER				HYSTER			
	1.2	Manufacturer's type designition		S4.0FT				S4.5FT				S5.5FT				S5.5FTS			
		Model		Fortens Advance+				Fortens Advance+				Fortens Advance+				Fortens Advance+			
		Engine		Kubota 3.8L				Kubota 3.8L				Kubota 3.8L				Kubota 3.8L			
		Transmission		DuraMatch 2				DuraMatch 2				DuraMatch 2				DuraMatch 2			
				2-speed				2-speed				2-speed				2-speed			
		Brake type		Premium Wet Brakes				Premium Wet Brakes				Premium Wet Brakes				Premium Wet Brakes			
	1.3	Drive: electric (battery or mains), diesel, petrol, LPG		LPG				LPG				LPG				LPG			
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated				Seated				Seated				Seated			
	1.5	Rated capacity/rated load	Q (t)	4.0				4.5				5.5				5.5			
	1.6	Load centre distance	c (mm)	500				600				600				600			
	1.8	Load distance, centre of drive axle to fork	x (mm)	447				462				462				462			
	1.9	Wheelbase	y (mm)	1570				1790				1790				1790			
WEIGHTS	2.1	Service weight	kg	5795				6977				7595				7618			
	2.2	Axle loading laden, front/rear	kg	8607	1188			10085	1392			11523	1572			11729	1389		
	2.3	Axle loading unladen, front/rear	kg	2194	3601			2916	4061			2760	4835			2966	4652		
TYRES/CHASSIS	3.1	Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid		V				V				V				V			
	3.2	Tyre size, front		22x9x16				22x12x16				22x12x16				22x12x16			
	3.3	Tyre size, rear		18x7x12.1				18x8x12.1				18x8x12.1				18x8x12.1			
	3.5	Wheels, number front/rear (x = driven wheels)		2x	2			2x	2			2x	2			2x	2		
	3.6	Tread, front	b_{10} (mm)	941				1015				1015				1015			
	3.7	Tread, rear	b_{11} (mm)	978				1004				1004				1004			
DIMENSIONS	4.1	Tilt of mast/fork carriage forward/backward	α /β (°)	5	6			5	6			5	6			5	6		
	4.2	Height, mast lowered	h_1 (mm)	2130				2135				2135				2135			
	4.3	Free lift ¶	h_2 (mm)	100				100				100				100			
	4.4	Lift ¶	h_3 (mm)	3000				2740				2740				2740			
	4.5	Height, mast extended ●	h_4 (mm)	3780				3665				3665				3665			
	4.7	Height of overhead guard (cabin)	h_6 (mm)	2171				2175				2175				2175			
	4.8	Seat height/stand height ❍	h_7 (mm)	1221				1339				1339				1339			
	4.12	Coupling height	h_{10} (mm)	367				371				371				371			
	4.19	Overall length	l_1 (mm)	3630				3969				4061				3899			
	4.20	Length to face of forks	l_2 (mm)	2630				2769				2861				2699			
	4.21	Overall width	b_1 (mm)	1170	1270			1320	1420			1320	1420			1320	1420		
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	50	125	1000		60	150	1200		60	150	1200		60	150	1200	
	4.23	Fork carriage ISO 2328, class/type A, B		IIIA				IVA				IVA				IVA			
	4.24	Fork carriage width ■	b_3 (mm)	1070				1070				1070				1070			
	4.31	Ground clearance, laden, below mast	m_1 (mm)	114				118				118				118			
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	152				156				156				156			
	4.33	Load dimension $b_{12} \times l_6$ crossways	$b_{12} \times l_6$ (mm)	1200 x 1000				1200 x 1000				1200 x 1000				1200 x 1000			
	4.34	Aisle width predetermined load dimensions ◆	A_{st} (mm)	3945				4109				4196				4037			
	4.34.1	Aisle width for pallets 1000 × 1200 crossways ◆	A_{st} (mm)	4145				4309				4396				4237			
	4.34.2	Aisle width for pallets 800 × 1200 crossways ◆	A_{st} (mm)	4145				4309				4396				4237			
	4.35	Turning radius	W_a (mm)	2298				2447				2534				2375			
	4.36	Internal turning radius	b_{13} (mm)	675				762				762				762			
	4.41	90° intersecting aisle (with pallet L = 1000mm x W = 1200mm)	(mm)	2051				2164				2211				2161			
	4.42	Step Height (from ground to running board)	(mm)	392				396				396				396			
	4.43	Step Height (between intermediate steps and floor)	(mm)	322				322				322				322			
PERFORMANCE DATA	5.1	Travel speed, laden/unladen	km/h	22.1	22.5			21.7	22.1			21.6	22.1			21.6	22.1		
	5.1.1	Travel speed, laden/unladen, backwards	km/h	18.1	18.3			17.8	18.1			17.7	18.1			17.7	18.1		
	5.2	Lift speed, laden/unladen	m/s	0.61	0.62			0.56	0.57			0.56	0.57			0.56	0.57		
	5.3	Lowering speed, laden/unladen	m/s	0.55	0.47			0.51	0.42			0.51	0.42			0.51	0.42		
	5.5	Drawbar pull, laden/unladen †	N	38091	12804			41944	16916			41649	15999			41649	15999		
	5.7	Gradeability, laden/unladen ✶	%	45.6	14.1			40.1	18.7			34.5	17.7			34.5	17.7		
	5.9	Acceleration time, laden/unladen ⇆	s	4.4	5			4.2	5			4.3	5.2			4.3	5.2		
	5.10	Service brake		Hydraulic				Hydraulic				Hydraulic				Hydraulic			
	7.5	Fuel consumption according to VDI cycle	l/h or kg/h	4.0				4.5				4.9				4.9			
	8.1	Type of drive unit		Hydrodynamic				Hydrodynamic				Hydrodynamic				Hydrodynamic			
ADDITIONAL DATA	10.1	Operating pressure for attachments	bar	155				155				155				155			
	10.2	Oil volume for attachments ✧	l/min	83.3				83.3				83.3				83.3			
	10.3	Hydraulic oil tank, capacity	l	76.6				76.6				76.6				76.6			
	10.4	Fuel tank, capacity	l	38.6				38.6				38.6				38.6			
	10.7	Sound pressure level at the driver's seat ◎ ◇	dB (A)	84				84				84				84			
	10.7.1	Sound power level during the workcycle ◈	dB (A)	102				102				102				102			
	10.7.2	Guaranteed sound power 2000/14/EC	dB (A)	106				106				106				106			
	10.8	Towing coupling, type DIN		Pin				Pin				Pin				Pin			

Specification data is per VDI 2198 December 2012.

EQUIPMENT AND WEIGHT: Specification data based on 3050mm (S4.0FT) / 2800mm (S4.5FT - S5.5FTS) TOF 2 stage LFL mast with standard carriage, 1000mm (S4.0FT) / 1200mm (S4.5FT - S5.5FTS) forks with e-hydraulics.

MAST AND CAPACITY INFORMATION

MASTS S4.0FT

	Maximum fork height (mm)	Tilt F	Tilt B	Overall lowered height (mm)	Overall Extended height (mm) ▽	Overall Extended height (mm) ❖	Free lift (top of forks) (mm)
2-Stage Limited Free Lift	**3050**	5°	6°	2135	3785 ▽	4285 ❖	150
	3650	5°	6°	2435	4385 ▽	4885 ❖	150
	4250	5°	6°	2735	4985 ▽	5485 ❖	150
2-Stage Full Free Lift	**3075**	5°	6°	2153	3860 ▽	4130 ❖	1355
3-Stage Full Free Lift	**4415**	5°	6°	2135	5200 ▽	5650 ❖	1355
	4950	5°	6°	2335	5735 ▽	6185 ❖	1555
	5550	5°	6°	2535	6335 ▽	6785 ❖	1755
	6000	5°	6°	2735	6785 ▽	7235 ❖	1955

MASTS S4.5-5.5FTS

	Maximum fork height (mm)	Tilt F	Tilt B	Overall lowered height (mm)	Overall Extended height (mm)	Overall Extended height (mm) ❖	Free lift (top of forks) (mm)
2-Stage Limited Free Lift	2800	5°	6°	2140	3660 ▽	4035 ❖	160
	3400	5°	6°	2440	4260 ▽	4635 ❖	160
	4000	5°	6°	2740	4860 ▽	5235 ❖	160
2-Stage Full Free Lift	2825	5°	6°	2140	3735 ▽	4060 ❖	1235
3-Stage Full Free Lift	4145	5°	6°	2140	5060 ▽	5380 ❖	1230
	4700	5°	6°	2340	5615 ▽	5935 ❖	1430
	5300	5°	6°	2540	6215 ▽	6535 ❖	1630

S4.0FT – CAPACITY CHART in kg @ 500 mm load centre

	Cushion Tyres		
	Maximum fork height (mm) ❖	Without sideshift	With sideshift
		S4.0FT	S4.0FT
2-Stage Limited Free Lift	3050	4000	4000
	3650	4000	4000
	4250	4000	4000
2-Stage Full Free Lift	3075	4000	4000
3-Stage Full Free Lift	4415	4000 ◗	3860 ◗
	4950	3890 ◗	3750 ◗
	5550	3760 ◗	3600 ◗
	6000	3640 ◗	3480 ◗

S4.5-5.5FTS – CAPACITY CHART in kg @ 600 mm load centre

	Cushion Tyres						
	Maximum fork height (mm) ❖	Without sideshift			With integral sideshift		
		S4.5FT	S5.5FT	S5.5FTS	S4.5FT	S5.5FT	S5.5FTS
2-Stage Limited Free Lift	**2800**	4500	5500	5500	4500	5500	5440 ◗
	3400	4500	5500	5500	4500	5500	5420 ◗
	4000	4500	5500	5500	4500	5500	5410 ◗
2-Stage Full Free Lift	**2825**	4500	5500	5500	4500	5480	5420
3-Stage Full Free Lift	4145	4500 ◗	5500 ◗	5500 ◗	4400 ◗	5290 ◗	5240 ◗
	4700	4500 ◗	5500 ◗	5490 ◗	4390 ◗	5280 ◗	5220 ◗
	5300	4380 ◗	5370 ◗	5290 ◗	4260 ◗	5140 ◗	5060 ◗

NOTES

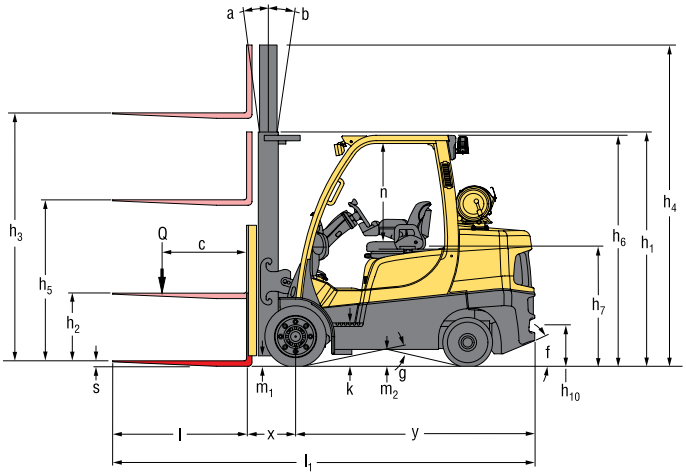
To calculate truck capacities with alternative truck specifications to the ones shown in the above tables, please use the Hy-Rater software.

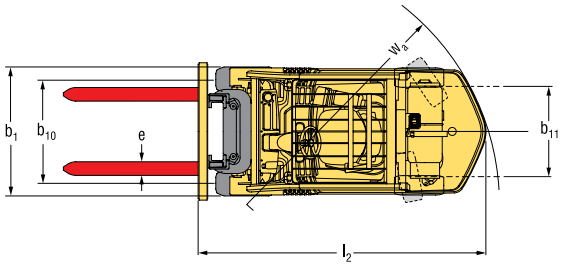
Specification data based on standard carriage, load backrest, and 1000mm (S4.0FT) / 1200mm (S4.5FT - S5.5FTS) forks.

The rated capacities shown are for masts in a vertical position on trucks equipped with standard or sideshift carriage, and nominal length forks. Masts above the maximum fork heights shown in the mast table are classified as high lift, and depending on the tyre/tread configuration may require reduced capacity, restricted back tilt or wide tread.

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

TRUCK DIMENSIONS





= Centre of gravity of unladen truck

$A_{st} = W_a + x + l_6 + a$ (see lines 4.34.1 & 4.34.2)

a = Minimum operating clearance

(VDI standard = 200 mm BITA recommendation = 300 mm)

l_6 = Load length

Dimensions (mm)	S4.0FT	S4.5FT	S5.5FT	S5.5FTS
f	40%	32%	32%	32%
g	22.7°	22°	21°	21°
k	391.5	395.5	395.5	395.5
n	1 062	1 062	1 062	1 062

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.

¶ Top of forks

■ W/o load backrest, add 32mm with load backrest

⭘ Full suspension seat in depressed position

◗ Standard / Wide

● Add 32 mm with load backrest

◆ Stacking aisle width (lines 4.34 & 4.34.1 & 4.34.2) 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.

† at 1.6 km/h

✶ at 4.8km/h. Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of the vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.

⇆ to 15m (per VDI 2198 December 2012)

⬟ Battery ampere hour (Ah) nominal capacity ratings are estimated.

✧ Variable

◎ With and without cab.

◇ L_{PAZ}, Measured according to the test cycles and based on the weighting values contained in EN12053

◈ L_{WAZ}, Measured according to the test cycles and based on the weighting values contained in EN12053

MAST TABLES:

▽ Without load backrest

❖ With load backrest

◗ Wide tread required

POWERTRAINS TABLE:

⬟ Battery ampere hour (Ah) nominal capacity ratings are estimated.

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 the mast tilt in either direction is 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.

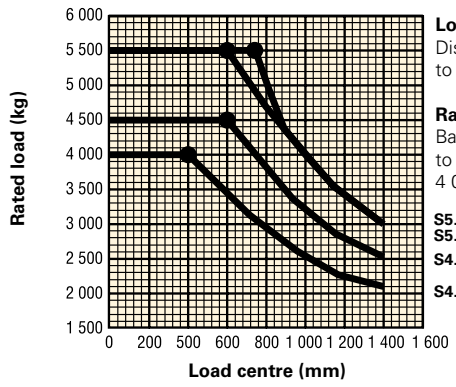
All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Hyster products are 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.

RATED CAPACITIES

Standard carriage

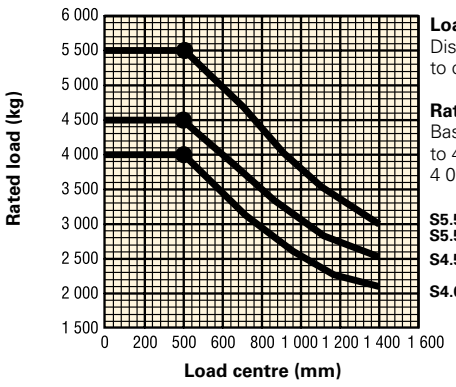


Load centre
Distance from front of forks to centre of gravity of load.

Rated load
Based on vertical masts up to 4 250mm (S4.0FT) and 4 000mm (S4.5-5.5FT)

S5.5FT
S5.5FTS
S4.5FT
S4.0FT

Integral sideshift carriage



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

Rated load
Based on vertical masts up to 4 250mm (S4.0FT) and 4 000mm (S4.5-5.5FT)

S5.5FT
S5.5FTS
S4.5FT
S4.0FT

POWERTRAINS

	1.3	Drive: electric (battery or mains), diesel, petrol, LPG	LPG SWB	LPG LWB
COMBUSTION-ENGINE	7.1	Engine manufacturer/type	Kubota WG3800	Kubota WG3800
	7.2	Engine power according to ISO 1585 kW	54.9	67.8
	7.3	Rated speed min–1	1800	2200
	7.3.1	Torque at 1/min Nm/min–1	300 /1000	300 /1000
	7.4	Number of cylinders/displacement (-)/cm³	4 / 3769	4 / 3769
	7.10	Battery voltage/nominal capacity ⬟ (V)/(Ah)	12 / 88	12 / 88
DRIVE MECHANISM	8.1	Type of drive unit	Hydrodynamic	Hydrodynamic
	8.2	Manufacturer/type	NMHG/Electronic	NMHG/Electronic
	8.6	Wheel drive/drive axle manufacturer/type	Dana or NMHG/WBA	Dana or NMHG/WBA
	8.11	Service brake	Hydraulic	Hydraulic
	8.12	Parking brake	Multi Disc Brake	Multi Disc Brake

PRODUCT PACKAGES

Model / Bundle	S4.0FT			S4.5FT		
LPG	**Engine**	**Transmission**	**Brakes**	**Engine**	**Transmission**	**Brakes**
Fortens Advance	Kubota 3.8L	DuraMatch™ 1 speed	Premium Wet Brakes	Kubota 3.8L	DuraMatch™ 1 speed	Premium Wet Brakes
Fortens Advance+	Kubota 3.8L	DuraMatch™ 2 2 speed	Premium Wet Brakes	Kubota 3.8L	DuraMatch™ 2 2 speed	Premium Wet Brakes

Model / Bundle	S5.5FT			S5.5FTS		
LPG	**Engine**	**Transmission**	**Brakes**	**Engine**	**Transmission**	**Brakes**
Fortens Advance	Kubota 3.8L	DuraMatch™ 1 speed	Premium Wet Brakes	Kubota 3.8L	DuraMatch™ 1 speed	Premium Wet Brakes
Fortens Advance+	Kubota 3.8L	DuraMatch™ 2 2 speed	Premium Wet Brakes	Kubota 3.8L	DuraMatch™ 2 2 speed	Premium Wet Brakes

PRODUCT FEATURES

The Fortens Advance and Fortens Advance+ trucks provide excellent performance for the most demanding of applications and are engineered for the lowest hourly operating cost. The mainframe, mast and powertrain are designed, tested and built for intensive heavy duty tasks either with forks or attachments.

- **The Kubota 3800 series engines**

  The Fortens Advance and Fortens Advance+ models feature the electronically controlled Kubota WG3800 LPG engine with 54.9 or 67.8kW.
- **The LPG Engine (WG 3800)** is derived from the diesel version and shares many of its operational characteristics that make it an ideal match for use in forklift trucks (high levels of torque at low rpm, low max rated speed, low noise and heavy duty robust construction).

The maximum engine power depends on the truck series and load centre:

Truck	Engine power	Fuel type
S4.0FT	54.9kw@2200rpm	LPG
S4.5FT – S5.5FTS	67.8kw@2200rpm	LPG

Transmission

The Fortens Fortens Advance models feature the electronically controlled single-speed DuraMatch™ transmission, providing:

- **Auto Deceleration System (ADS)** automatically slows the truck when the accelerator pedal is released, and finally brings the truck to a stop, which helps to significantly extend brake life. In addition, this feature assists the driver to accurately position the truck in front of a load. There are 10 ADS settings, programmable via the dash display by a service technician, which deliver different braking characteristics, from very gradual to aggressive, to suit the needs of the application.
- **Controlled Power Reversal;** the **Pacesetter VSM™** controls the transmission to deliver smooth direction changes. The VSM reduces the throttle to slow the engine, initiates auto-deceleration to stop the truck, changes the transmission direction automatically and increases the throttle to accelerate the truck. The system virtually eliminates tyre spin and shock loads on the transmission and significantly increases tyre life. As with ADS, the system is programmable via the dash display by a service technician, with settings from 1 to 10, to suit the needs of the application.

PRODUCT FEATURES (2)

- **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.

  The **Fortens Advance+** models are available with the electronically controlled two-speed transmission. This transmission, in addition to the above features:-
- **First Gear offers increased Drawbar Pull** for use on gradients
- **Second Gear provides maximum engine efficiency** in applications where longer travel distances are common.

DuraMatch™ transmissions are available with **Auto-speed Hydraulics** which automatically increases engine speed on activation of the hydraulics, eliminating the need for inching when lifting the load.

All Fortens S4.0-5.5FT Series models are equipped with Oil-immersed brakes offering reduced maintenance and repair time and costs, which results in extended truck dependability and uptime.

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 by an overhead guard design that achieves a generous floor space.
- **A full range of Cabs** with heating and optional Air Conditioning are available, including lowered cab for operation in containers etc.
- **The Easy-to-use 3-point entry** design of operator compartment has an open non-slip step with a height of just 39,5cm.
- The isolated drivetrain minimises the effect of powertrain vibration.
- The adjustable armrest that accompanies the TouchPoint™ **mini-lever module** features a 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 and optional swivel seat 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:**-

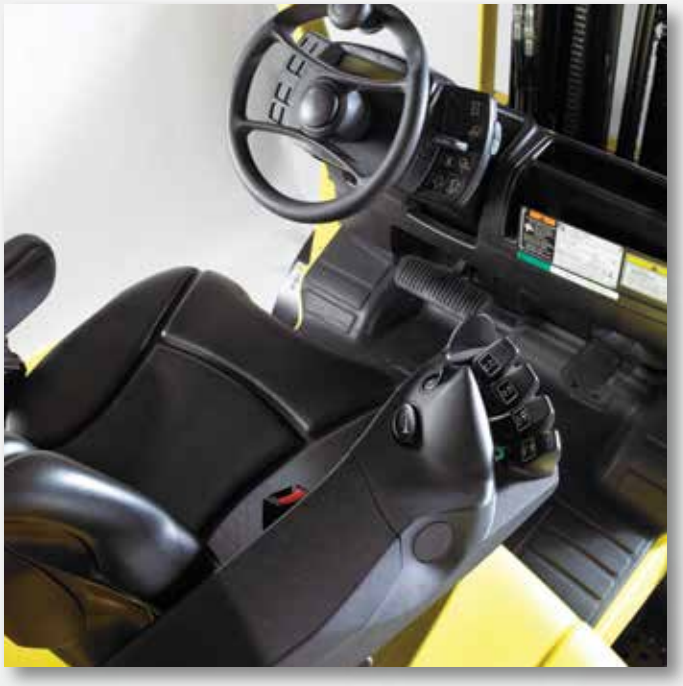
- **Complete cowl-to-counterweight service access** and simplified layout of wiring and hydraulics offers greater access to components, which in turn decreases service time for un-scheduled repairs and regular maintenance.
- **Fast, colour-coded daily checks and diagnostic systems** can be managed via the dash display.
- **An Engine coolant, oil change and Hydraulic oil change** interval of 4,000 hours also contributes to reduced downtime.

STRONG PARTNERS. TOUGH TRUCKS.™
FOR DEMANDING OPERATIONS, EVERYWHERE.

Hyster supplies a complete range of warehouse equipment, IC and electric counterbalanced trucks, container handlers and reach stackers. Hyster is committed to being much more than a lift truck supplier.

Our aim is to offer a complete partnership capable of responding to the full spectrum of material handling issues: Whether you need professional consultancy on your fleet management, fully qualified service support, or reliable parts supply, you can depend on Hyster.

Our network of highly trained dealers provides expert, responsive local support. They can offer cost-effective finance packages and introduce effectively managed maintenance programmes to ensure that you get the best possible value. Our business is dealing with your material handling needs so you can focus on the success of your business today and in the future.



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