

FORTENS™



**STRONG PARTNERS.
TOUGH TRUCKS.™**



IC COUNTERBALANCED LIFT TRUCKS

\$2.0-3.5FT FORTENS ADVANCE / FORTENS ADVANCE+



2000-3500 KG

FORTENS ADVANCE S2.0FT, S2.5FT, S3.0FT, S3.5FT

DISTINGUISHING MARK	1.1	Manufacturer (abbreviation)	
	1.2	Manufacturer's type designation	
		Model	
		Engine / transmission	
		Brake type	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	
	1.5	Rated capacity/rated load	Q (t)
	1.6	Load centre distance	c (mm)
	1.8	Load distance, centre of drive axle to fork	x (mm)
	1.9	Wheelbase	y (mm)
WEIGHTS	2.1	Service weight	kg
	2.2	Axle loading laden, front/rear	kg
	2.3	Axle loading unladen, front/rear	kg
TYRES/CHASSIS	3.1	Tyres: L = pneumatic, V = solid, SE = pneumatic-shaped solid	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Number of wheels, front/rear (X = driven)	
	3.6	Tread, front	b _f (mm)
	3.7	Tread, rear	b _r (mm)
DIMENSIONS	4.1	Tilt of mast/fork carriage forward/backward	α/β (°)
	4.2	Height of mast, lowered	h ₁ (mm)
	4.3	Free lift, ¶	h ₂ (mm)
	4.4	Lift ¶	h ₃ (mm)
	4.5	Height of mast, extended +	h ₄ (mm)
	4.7	Height of overhead guard (cabin) ■	h ₅ (mm)
	4.8	Seat height relating to SIP/stand height ○	h ₇ (mm)
	4.12	Coupling height	h ₁₀ (mm)
	4.19	Overall length	l ₁ (mm)
	4.20	Length to face of forks	l ₂ (mm)
	4.21	Overall width ⇄	b ₁ /b ₂ (mm)
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)
	4.23	Fork carriage ISO 2328, class/type A, B	
	4.24	Fork carriage width ●	b ₃ (mm)
	4.31	Ground clearance, laden, below mast	m ₁ (mm)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)
	4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast (mm)
	4.35	Turning radius	W ₉ (mm)
	4.36	Internal turning radius	b ₁₃ (mm)
	4.41	90° intersecting aisle (with pallet W = 1200mm, L = 1000mm)	
	4.42	Step height (from ground to running board)	
	4.43	Step height (between intermediate steps between running board and floor)	
PERFORMANCE DATA	5.1	Travel speed, laden/unladen	km/h
	5.2	Lift speed, laden/unladen	m/s
	5.3	Lowering speed, laden/unladen	m/s
	5.5	Drawbar pull, laden/unladen †	N
	5.7	Gradeability, laden/unladen ††	%
	5.9	Acceleration time, laden/unladen	sec
	5.10	Service brake	
COMBUSTION ENGINE	7.1	Engine manufacturer/type	
	7.2	Engine power according to ISO 1585	kW
	7.3	Rated speed	rpm
	7.4	Number of cylinders/displacement	cm ³
	7.5	Fuel consumption according to VDI cycle †††	l/h or kg/h
	7.10	Battery voltage/nominal capacity	(V)/(Ah)
ADDITIONAL DATA	8.1	Type of drive unit	
	10.1	Operating pressure for attachments	bar
	10.2	Oil volume for attachments ◇	l/min
	10.3	Hydraulic oil tank, capacity	litres
	10.7	Sound pressure level at the driver's seat ◇	dB(A)
	10.7.2	Guaranteed sound power 2000/14/EC	
	10.8	Towing coupling type	

HYSTER		HYSTER		HYSTER		HYSTER	
S2.0FT		S2.5FT		S3.0FT		S3.5FT	
Fortens Advance		Fortens Advance		Fortens Advance		Fortens Advance	
PSI 2.4L		PSI 2.4L		PSI 2.4L		PSI 2.4L	
DuraMatch™		DuraMatch™		DuraMatch™		DuraMatch™	
1 Speed		1 Speed		1 Speed		1 Speed	
ADS Drum Brakes		ADS Drum Brakes		ADS Drum Brakes		ADS Drum Brakes	
LPG		LPG		LPG		LPG	
Seated		Seated		Seated		Seated	
2.0		2.5		3.0		3.5	
500		500		500		500	
390		390		402		402	
1430		1430		1430		1430	

3555		3910		4462		4810	
4682	688	5371	807	6213	971	6890	1095
1618	1937	1542	2369	1595	2868	1501	3309

V		V		V		V	
21 x 8 - 15		21 x 8 - 15		21 x 8 - 15		21 x 9 - 15	
16 x 6 - 10.5		16 x 6 - 10.5		16 x 6 - 10.5		16 x 6 - 10.5	
2x	2	2x	2	2x	2	2x	2
929		929		929		929	
914		914		914		914	

5	5	5	5	5	5	5	5
2135		2135		2185		2185	
100		100		100		100	
3250		3250		3155		3155	
3845		3845		3850		3850	
2128		2128		2128		2128	
1024		1024		1024		1024	
300		300		300		300	
3226		3280		3356		3406	
2226		2280		2356		2406	
1108	1242	1108	1242	1108	1242	1158	1242
40 x 100 x 1000		40 x 100 x 1000		50 x 125 x 1000		50 x 125 x 1000	
II A		II A		III A		III A	
980		980		980		980	
89		89		89		89	
125		125		125		125	
3540		3590		3668		3721	
3740		3790		3868		3921	
1950		2000		2066		2119	
586		586		586		586	
1839		1863		1914		1959	
350		350		350		350	
295		295		295		295	

17.6	18.2	17.6	18.2	17.0	18.0	17.0	18.0
0.61	0.63	0.61	0.63	0.53	0.55	0.53	0.55
0.58	0.50	0.58	0.51	0.53	0.47	0.53	0.47
19820	7850	19660	7440	19450	8100	19220	7600
26.3	24.4	22.5	20.8	18.7	19.3	16.6	16.6
5.1	4.4	5.3	4.5	5.4	4.7	5.6	4.8
Hydraulic		Hydraulic		Hydraulic		Hydraulic	

PSI 2.4L		PSI 2.4L		PSI 2.4L		PSI 2.4L	
44.0		44.0		44.0		44.0	
2700		2700		2700		2700	
4	2351	4	2351	4	2351	4	2351
2.6		2.8		3.0		3.2	
12	65	12	65	12	65	12	65

Automatic		Automatic		Automatic		Automatic	
0 - 155		0 - 155		0 - 155		0 - 155	
62		62		62		62	
36.1		36.1		36.1		36.1	
77		77		77		77	
101		101		101		101	
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, 1 000mm forks, e-hydraulics, overhead guard and standard cushion drive and steer tyres.

FORTENS ADVANCE+ S2.0FT, S2.5FT, S3.0FT, S3.5FT

DISTINGUISHING MARK	1.1	Manufacturer (abbreviation)
	1.2	Manufacturer's type designation
		Model
		Engine / transmission
		Brake type
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker
	1.5	Rated capacity/rated load Q (t)
	1.6	Load centre distance c (mm)
	1.8	Load distance, centre of drive axle to fork x (mm)
	1.9	Wheelbase y (mm)

WEIGHTS	2.1	Service weight	kg
	2.2	Axle loading laden, front/rear	kg
	2.3	Axle loading unladen, front/rear	kg

TYRES/CHASSIS	3.1	Tyres: L = pneumatic, V = solid, SE = pneumatic-shaped solid
	3.2	Tyre size, front
	3.3	Tyre size, rear
	3.5	Number of wheels, front/rear (X = driven)
	3.6	Tread, front b ₁ (mm)
	3.7	Tread, rear b ₁ (mm)

DIMENSIONS	4.1	Tilt of mast/fork carriage forward/backward α/β (°)
	4.2	Height of mast, lowered h ₁ (mm)
	4.3	Free lift, ¶ h ₂ (mm)
	4.4	Lift ¶ h ₃ (mm)
	4.5	Height of mast, extended + h ₄ (mm)
	4.7	Height of overhead guard (cabin) ■ h ₅ (mm)
	4.8	Seat height relating to SIP/stand height ○ h ₇ (mm)
	4.12	Coupling height h ₁₀ (mm)
	4.19	Overall length l ₁ (mm)
	4.20	Length to face of forks l ₂ (mm)
	4.21	Overall width ≡ b ₁ /b ₂ (mm)
	4.22	Fork dimensions DIN ISO 2331 s/e/l (mm)
	4.23	Fork carriage ISO 2328, class/type A, B
	4.24	Fork carriage width ● b ₃ (mm)
	4.31	Ground clearance, laden, below mast m ₁ (mm)
	4.32	Ground clearance, centre of wheelbase m ₂ (mm)
	4.34.1	Aisle width for pallets 1000 × 1200 crossways Ast (mm)
	4.34.2	Aisle width for pallets 800 × 1200 lengthways Ast (mm)
	4.35	Turning radius W ₈ (mm)
	4.36	Internal turning radius b ₁₃ (mm)
	4.41	90° intersecting aisle (with pallet W = 1200mm, L = 1000mm)
	4.42	Step height (from ground to running board) (mm)
	4.43	Step height (between intermediate steps between running board and floor) (mm)

PERFORMANCE DATA	5.1	Travel speed, laden/unladen	km/h
	5.2	Lift speed, laden/unladen	m/s
	5.3	Lowering speed, laden/unladen	m/s
	5.5	Drawbar pull, laden/unladen †	N
	5.6	Maximum drawbar pull, laden/unladen	N
	5.7	Gradeability, laden/unladen ††	%
	5.9	Acceleration time, laden/unladen	
	5.10	Service brake	

COMBUSTION ENGINE	7.1	Engine manufacturer/type
	7.2	Engine power according to ISO 1585 kW
	7.3	Rated speed rpm
	7.4	Number of cylinders/displacement cm ³
	7.5	Fuel consumption according to VDI cycle ††† l/h or kg/h
	7.1	Battery voltage/nominal capacity (V)/(Ah)

ADDITIONAL DATA	8.1	Type of drive unit
	10.1	Operating pressure for attachments bar
	10.2	Oil volume for attachments ✧ l/min
	10.3	Hydraulic oil tank, capacity litres
	10.7	Sound pressure level at the driver's seat ◇ dB(A)
	10.7.2	Guaranteed sound power 2000/14/EC
	10.8	Towing coupling type

HYSTER		HYSTER		HYSTER		HYSTER	
S2.0FT		S2.5FT		S3.0FT		S3.5FT	
Fortens Advance+		Fortens Advance+		Fortens Advance+		Fortens Advance+	
Kubota 2.5L DuraMatch™ 1 Speed		Kubota 2.5L DuraMatch™ 1 Speed		Kubota 2.5L DuraMatch™ 1 Speed		Kubota 2.5L DuraMatch™ 1 Speed	
ADS Drum Brakes		ADS Drum Brakes		ADS Drum Brakes		ADS Drum Brakes	
LPG		LPG		LPG		LPG	
Seated		Seated		Seated		Seated	
2.0		2.5		3.0		3.5	
500		500		500		500	
390		390		402		402	
1430		1430		1430		1430	

3555		3910		4462		4810	
4682	688	5371	807	6213	971	6890	1095
1618	1937	1542	2369	1595	2868	1501	3309

V		V		V		V	
21 x 8 - 15		21 x 8 - 15		21 x 8 - 15		21 x 9 - 15	
16 x 6 - 10.5		16 x 6 - 10.5		16 x 6 - 10.5		16 x 6 - 10.5	
2x	2	2x	2	2x	2	2x	2
929		929		929		929	
914		914		914		914	

5	5	5	5	5	5	5	5
2135		2135		2185		2185	
100		100		100		100	
3250		3250		3155		3155	
3845		3845		3850		3850	
2128		2128		2128		2128	
1024		1024		1024		1024	
300		300		300		300	
3226		3280		3356		3406	
2226		2280		2356		2406	
1108	1242	1108	1242	1108	1242	1158	1242
40 x 100 x 1000		40 x 100 x 1000		50 x 125 x 1000		50 x 125 x 1000	
II A		II A		III A		III A	
980		980		980		980	
89		89		89		89	
125		125		125		125	
3540		3590		3668		3721	
3740		3790		3868		3921	
1950		2000		2066		2119	
586		586		586		586	
1839		1863		1914		1959	
350		350		350		350	
295		295		295		295	

17.8	18.0	17.8	18.0	17.8	18.0	17.8	18.0
0.62	0.64	0.62	0.64	0.55	0.56	0.55	0.56
0.58	0.50	0.58	0.50	0.53	0.47	0.53	0.49
18010	8820	17853	8820	17650	8400	17490	7600
20825	8820	20660	8820	20450	8400	20280	7600
25.4	24.4	21.7	20.8	18.1	19.3	16.1	16.6
4.5	4.1	4.7	4.1	4.8	4.3	5.0	4.3
Hydraulic		Hydraulic		Hydraulic		Hydraulic	

Kubota 2.5L		Kubota 2.5L		Kubota 2.5L		Kubota 2.5L	
43.9		43.9		43.9		43.9	
2500		2500		2500		2500	
4	2491	4	2491	4	2491	4	2491
2.7		3.0		3.2		3.4	
12	65	12	65	12	65	12	65

Automatic		Automatic		Automatic		Automatic	
0 - 155		0 - 155		0 - 155		0 - 155	
66		66		66		66	
36.1		36.1		36.1		36.1	
78		78		78		78	
101		101		101		101	
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, 1 000mm forks, e-hydraulics, overhead guard and standard cushion drive and steer tyres.

MAST AND CAPACITY INFORMATION

S2.0-2.5FT MASTS

	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	3290 4830	5° 5°	2135 2985	4515 ❖ 6055 ❖	140 ▽ 140 ▽
2-stage Full Free Lift	3300	5°	2135	4525 ❖	1575 ▽
3-stage Full Free Lift	4950 5550 6000	5° 5° 5°	2135 2385 2585	6170 ❖ 6770 ❖ 7220 ❖	1595 ▽ 1845 ▽ 2045 ▽

S3.0-3.5FT MASTS

	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	3205	5°	2185	4435 ❖	150 ▽
2-stage Full Free Lift	3310	5°	2235	435 ❖	1590 ▽
3-stage Full Free Lift	4765 4915 5965	5° 5° 5°	2235 2285 2735	5995 ❖ 6145 ❖ 7195 ❖	1605 ▽ 1655 ▽ 2015 ▽

S2.0-3.5FT - Capacity Chart in kg @ 500mm Load Centre

Cushion Tyres										
	Maximum fork height (mm)	Without sideshift		With ISS & FP		Maximum fork height (mm)	Without sideshift		With ISS & FP	
		S2.0FT	S2.5FT	S2.0FT	S2.5FT		S3.0FT	S3.5FT	S3.0FT	S3.5FT
2-stage Limited Free Lift	3290 4830	2000 1920	2500 2410	2000 1910	2500 2400	3205 3705	3000 3000	3360 3310	2990 2970	3310 3270
2-stage Full Free Lift	3300	2000	2500	2000	2500	3310	3000	3310	2980	3310
3-stage Full Free Lift	4950 5550 6000	1900 1800 1710	2390 2270 2180 ⚡	1890 1770 1680	2370 2240 2140	4765 4915 5965	2890 2860 2110 ⚡	3380 3350 ⚡ 1870 ⚡	2840 2810 2160 ⚡	3330 3300 ⚡ 1910 ⚡

S2.0-3.5FT - Capacity Chart in kg @ 600mm Load Centre

Cushion Tyres										
	Maximum fork height (mm)	Without sideshift		With ISS & FP		Maximum fork height (mm)	Without sideshift		With ISS & FP	
		S2.0FT	S2.5FT	S2.0FT	S2.5FT		S3.0FT	S3.5FT	S3.0FT	S3.5FT
2-stage Limited Free Lift	3290 4830	1900 1800	2350 2250	1820 1720	2260 2160	3205 3705	2820 2810	3280 3270	2700 2680	3140 3120
2-stage Full Free Lift	3300	1890	2350	1810	2250	3310	2810	3280	2690	3140
3-stage Full Free Lift	4950 5550 6000	1780 1670 1580	2220 2100 2010	1700 1600 1510	2130 2020 1930	4765 4915 5965	2680 2650 2110 ⚡	3140 3110 ⚡ 1870 ⚡	2560 2530 2160 ⚡	3000 2980 ⚡ 1910 ⚡

NOTES

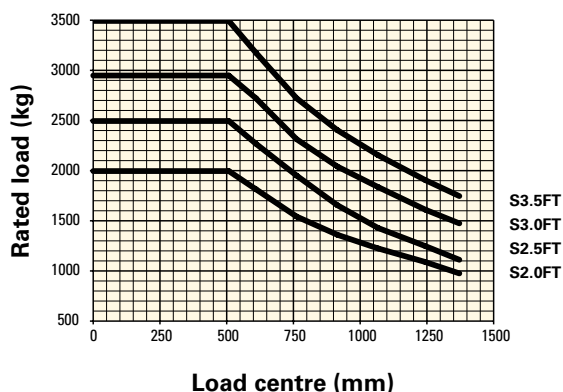
To calculate truck capacities with alternative truck specifications to the ones shown in the above tables, please consult your Hyster dealer.

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.

RATED CAPACITIES

STANDARD CARRIAGE



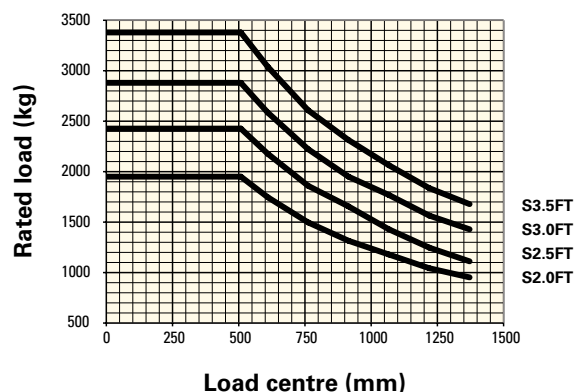
Load centre

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

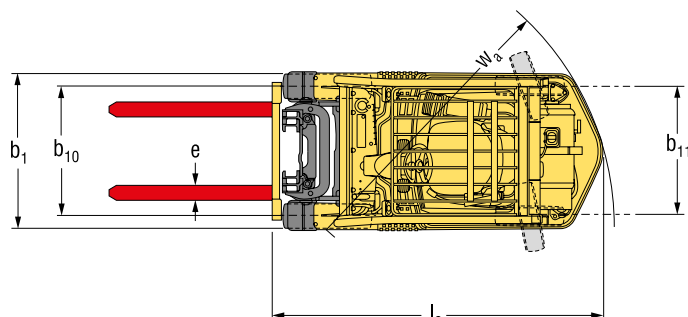
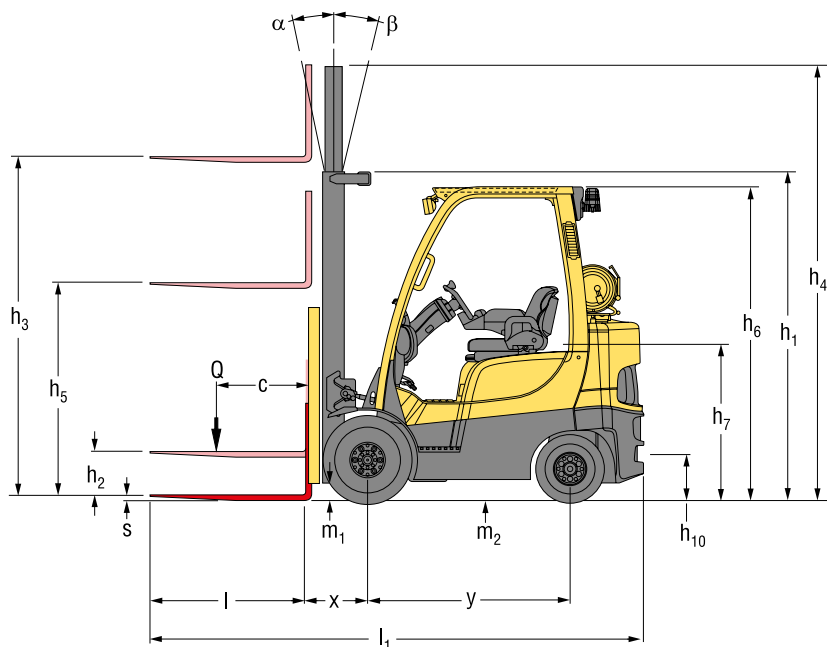
Rated load

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

INTEGRAL SIDESHIFT AND FORK POSITIONING CARRIAGE



TRUCK DIMENSIONS



= Centre of gravity of unladen truck

$Ast = W_a + x + l_g + a$ (see lines 4.34.1 & 4.34.2)

a = Minimum operating clearance

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

l_g = 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. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster Truck.

▣ Standard/Wide

¶ Bottom of forks

○ Full suspension seat in depressed position

◆ Without load backrest

● Add 31 mm with load backrest

■ h_6 subject to +/- 5 mm tolerance

* at 1.6km/h

** at 4.8km/h

◇ Variable

◇ Measured according to the test cycles and based on the weighting values contained in EN12053

◆ Stacking aisle width (lines 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.

† 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.

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 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.

PRODUCT PACKAGES

The Hyster Fortens™ range has 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	PSI 2.4L	DuraMatch™ 1 speed	ADS Drum	PSI 2.4L	DuraMatch™ 1 speed	ADS Drum
Fortens Advance+	Kubota 2.5L	DuraMatch™ 1 speed	ADS Drum	Kubota 2.5L	DuraMatch™ 1 speed	ADS Drum

Model / Bundle	S3.0FT			S3.5FT		
LPG	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens Advance	PSI 2.4L	DuraMatch™ 1 speed	ADS Drum	PSI 2.4L	DuraMatch™ 1 speed	ADS Drum
Fortens Advance+	Kubota 2.5L	DuraMatch™ 1 speed	ADS Drum	Kubota 2.5L	DuraMatch™ 1 speed	ADS Drum

Please refer to the Price List for full option configurations.

PRODUCT FEATURES

THIS SERIES OF TRUCKS IS AVAILABLE IN TWO CONFIGURATIONS.

The Fortens™ Advance truck provides excellent performance for standard and medium-duty applications, optimised for lowest hourly operation cost.

The Fortens™ Advance+ truck delivers maximum performance for medium to heavy-duty applications with state-of-the art features and industry leading power.

Designed to support specialised applications with optional traction speed limiter, impact sensor and power-train protection, plus options supporting use of attachments including hydraulic accumulator and memory tilt.

MASTS

The Fortens™ trucks are equipped with new mast which provides excellent visibility both through the mast and all around. They are manufactured without compromise to provide robust and reliable performance, with minimal maintenance cost over the lifetime of the product. The mast has a robust design and offers excellent rigidity particularly at full lift height.

ENGINES

The Fortens™ trucks are powered by a range of heavy duty industrial engines, designed to deliver power efficiently over a 20,000 hour design life with 500 hour service intervals. All engines feature Cast Iron Blocks and a 5 main bearing design; engines are fully isolated from the frame and axle to prevent direct transmission of noise and vibration, resulting in low vehicle noise and vibration levels.

Variations in LPG fuel and its higher burning temperatures present challenges for converted Gasoline Engines and Hyster has developed state of the art electronic fuel injection systems, which use closed loop control to maintain proper fuelling in all operating conditions. These advanced Industrial Engines feature coil over plug spark designs, and especially hardened intake and exhaust valve seats to ensure long operating life.

The new PSI 2.4L LPG engine is designed with fuel economy and low cost of ownership in mind. With cast iron cylinder block and cylinder head manufactured from aluminium it has 5 main bearings.

The high performance Kubota 2.5L LPG engine maximises performance and productivity for intensive operations, and with Cast Iron head and special 9.5 Litre Oil capacity is designed to do so reliably for the life of the truck. Advanced engine controls allow fuel mapping to be optimised to allow highly efficient operation in ECO-eLo mode, with minimum loss of performance.

All stainless steel exhaust system and intake valve seat inserts are used to provide long valve and seat life with LPG fuel.

The full pressure lubrication system has a spin-on, full flow oil filter with a relief valve to ensure engine lubrication even if the filter becomes clogged. Latest technology LPG fuel system allows offering new engine modes. Password protected under a supervisor password, 3 engine modes allows the performance of the truck to be set to match application needs with minimum fuel usage.

PRODUCT FEATURES

TRANSMISSIONS

The Fortens™ Advance & Fortens™ Advance+ models are available with the electronically controlled **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.
- **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 transmission is 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 Oring 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.

Load Sensing Hydraulics (LSH) deliver increased operational efficiency, providing a 15% reduction in fuel consumption on the VDI cycle, with no loss in productivity*. Variable displacement piston pumps match the flow rate and lifting speed continuously to the demands of the duty cycle. The engine therefore supplies only power to the hydraulic pumps when required, so more power is available for driving. This provides increased responsiveness and acceleration, which increases productivity and lowers fuel consumption, reducing overall operating costs.

With LSH Hyster also offers an ECO-eLo (Fuel Efficiency) mode, reducing engine speed by 20% and optimising throttle response, so that the truck operates in the most economical power range. This results in a reduction in fuel consumption of a further 5%*, but has a limited effect on overall truck productivity under application conditions. The ECO-eLo mode also delivers lower noise levels by up to 3dB(A). If a faster work rate, or higher productivity is required, the truck can easily be reprogrammed to HiP (High Performance) mode of operation through the dash display, with access secured by a unique customer password.

(*Hyster Productivity Test Cycle: Load Sensing Hydraulics is available on trucks with TouchPoint mini-levers. The ECO-eLo function is only available on trucks with DuraMatch™ transmissions).

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 35cm.
- 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 armrest that accompanies the TouchPoint™ E-hydraulic configurations moves with the seat and telescopes forward and is adjustable for height and 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.
- Optional swing out and drop down LPG tank bracket.

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