VX series

6,000kg / 7,000kg / 8,000kg

Yale®

People. Products. Productivity.™

LPG Forklift Trucks

- Intellix Vehicle Management System
- CAN bus technology
- Oil Immersed Brakes
- Yale AccuTouch Mini Levers, PalmTech joystick and manual levers
- Pneumatic, supercushion and Michelin XZM radial tyres

VDI 2198 - General Specifications GLP 60VX, GLP 70VX

Distinguishing mark	1.1	Manufacturer (abbreviation)		Yale	Yale	Yale	Yale
	1.2	Manufacturer's type designation		GLP 60VX			
		Engine, Transmission		PSI 4.3L Electronic 2 Speed Powershift	PSI 4.3L Electronic 2 Speed Powershift with Soft Shift Power Reversal	PSI 4.3L Techtronix 332 3 Speed	PSI 4.3L Techtronix 332+ 3 Speed
		Model		Base	Base	Value	Productivity
		Brake Type		Wet Brakes	Wet Brakes	Wet Brakes	Wet Brakes
	1.3	Drive: electric (battery or mains), diesel, petrol, LPG		LPG	LPG	LPG	LPG
	1.4	Operator type: hand, pedestrian, standing, seated, orderpicker		Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (t)	6.0	6.0	6.0	6.0
	1.6	Load centre distance	c (mm)	600	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	609	609	609	609
	1.9	Wheelbase	y (mm)	2235	2235	2235	2235
Weights	2.1	Service weight (w/std. equipment: mast, carriage, forks, etc.)	kg	8944	8944	8944	8944
	2.2	Axle loading, laden front/rear	kg	13703 / 1443	13703 / 1443	13703 / 1443	13703 / 1443
	2.3	Axle loading, unladen front/rear	kg	4147 / 4797	4147 / 4797	4147 / 4797	4147 / 4797
Tyres/chassis	3.1	Tyres: P = pneumatic, V = solid, SE = Superelastic		P	P	P	P
	3.2	Tyre size, front		8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR
	3.3	Tyre size, rear		8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR
	3.5	Number of wheels, front/rear (x = driven wheels)		4X / 2	4X / 2	4X / 2	4X / 2
	3.6	Tread, front	b_{10} (mm)	1847	1847	1847	1847
	3.7	Tread, rear	b_{11} (mm)	1536	1536	1536	1536
Dimensions	4.1	Tilt of mast/fork carrige, forward α /backward β	α / β (°)	5 / 10	5 / 10	5 / 10	5 / 10
	4.2	Height, mast lowered	h_1 (mm)	2540	2540	2540	2540
	4.3	Free lift▼	h_2 (mm)	100	100	100	100
	4.4	Lift▼	h_3 (mm)	2940	2940	2940	2940
	4.5	Height, mast extended ✚	h_4 (mm)	4040	4040	4040	4040
	4.7	Height of overhead guard (cabin) ❍	h_6 (mm)	2549	2549	2549	2549
	4.7.1	Cab height (open cab)	mm	2531	2531	2531	2531
	4.8	Seat height/stand height ✘	h_7 (mm)	1547	1547	1547	1547
	4.12	Coupling height	h_{10} (mm)	467	467	467	467
	4.19	Overall length	l_1 (mm)	4813	4813	4813	4813
	4.20	Length to face of forks	l_2 (mm)	3613	3613	3613	3613
	4.21	Overall width	b_1/b_2 (mm)	2082	2082	2082	2082
	4.22	Fork dimensions	s/e/l (mm)	60 / 150 / 1200	60 / 150 / 1200	60 / 150 / 1200	60 / 150 / 1200
	4.23	Fork carriage DIN 15173, class/type A/B		IVA	IVA	IVA	IVA
	4.24	Fork carriage width ◗	b_3 (mm)	1980	1980	1980	1980
	4.31	Ground clearance, laden, below mast	m_1 (mm)	125	125	125	125
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	253	253	253	253
	4.34.1	Aisle width with pallets 1000 long x 1200 crossways	Ast (mm)	5129	5129	5129	5129
	4.34.2	Aisle width with pallets 800 wide x 1200 crossways	Ast (mm)	5329	5329	5329	5329
	4.35	Turning radius (outer)	Wa (mm)	3320	3320	3320	3320
	4.36	Inner turning radius	b_{13} (mm)	1271	1271	1271	1271
	4.41	90° intersecting aisle (With pallet W = 1200mm, L = 1000mm)	mm	2872	2872	2872	2872
	4.42	Step Height (from ground to running board)	mm	321	321	321	321
	4.43	Step Height (between intermediate steps between running board and floor)	mm	256	256	256	256
Performance data	5.1	Travel speed laden/unladen	km/h	22.2 / 23.2	22.2 / 23.2	24.7 / 26.0	24.7 / 26.0
	5.1.1	Travel speed, laden/unladen, backwards	km/h	22.2 / 23.2	22.2 / 23.2	22.2 / 23.2	22.2 / 23.2
	5.2	Lift speed, laden/unladen (2LFL)	m/sec	0.52 / 0.52	0.52 / 0.52	0.52 / 0.52	0.52 / 0.52
	5.3	Lowering speed, laden/unladen (2LFL)	m/sec	0.58 / 0.53	0.58 / 0.53	0.58 / 0.53	0.58 / 0.53
	5.5	Drawbar pull, laden/unladen @ 1.6 km/h	kN	33.9 / 24.4	33.9 / 24.4	44.5 / 24.4	44.5 / 24.4
	5.7	Gradeability, laden/unladen @ 1.6 km/h	%	23 / 29	23 / 29	31 / 29	31 / 29
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic
Combustion engine	7.1	Engine manufacturer/type		PSI 4.3L	PSI 4.3L	PSI 4.3L	PSI 4.3L
	7.2	Engine power according to ISO1585	kW	71.6	71.6	71.6	71.6
	7.3	Rated speed at max. power	rpm	2400	2400	2400	2400
	7.3.1	Torque at 1/min	Nm/min-1	285 / 2400	285 / 2400	285 / 2400	285 / 2400
	7.4	Number of cylinders/displacement	(-)/cm^3	6 / 4302	6 / 4302	6 / 4302	6 / 4302
	7.5	Fuel consumption according VDI cycle	l/hr	6.7	6.7	6.9	6.9
	7.10	Battery voltage/nominal capacity	(V)/(Ah)	12 / 132	12 / 132	12 / 132	12 / 132
Drive Mechanism	8.1	Type of drive unit		Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic
	8.2	Manufacturer/Type		DANA	DANA	DANA	DANA
	8.6	Wheel drive/drive axle manufacturer/type		DANA	DANA	DANA	DANA
	8.12	Parking brake		Hand Lever	Hand Lever	Hand Lever	Hand Lever
Additional data	10.1	Operating pressure for attachments (nominal relief pressure)	bar	155	155	155	155
	10.2	Oil volume for attachments (nominal) ◊	l/min	83.3	83.3	83.3	83.3
	10.3	Hydraulic Tank - capacity (drain & refill)	litres	71.7	71.7	71.7	71.7
	10.7	Sound level at driver's ear according DIN 12053 (without / with cab ★	dB(A) L_{PAZ}	82 / 78	82 / 78	82 / 78	82 / 78
	10.7.2	Sound power level during the drive cycle	dB(A) L_{WAZ}	103	103	103	103
	10.7.1	Guaranteed sound power 2001/14/EC	dB(A) L_{WA}	107	107	107	107
	10.8	Towing coupling, type DIN		Pin	Pin	Pin	Pin

★ Measured according to the test cycles and based on the weighting values contained in EN12053
▼ Bottom of forks
✘ Full suspension seat in depressed position
✚ Without load backrest
◗ Add 32mm with load backrest
❍ h_6 subject to +/- 5 mm tolerance. 2549mm for Cab option.
◊ Variable

Spec sheet truck based on :-
3000mm top of forks 2 stage LFL mast with standard 1980mm carriage and 1200mm forks.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.
Yale products might be subject to change without notice.

Yale	Yale	Yale	Yale		Manufacturer (abbreviation)	1.1	
GLP 70VX					Manufacturer's type designation	1.2	
PSI 4.3L Electronic 2 Speed Powershift	PSI 4.3L Electronic 2 Speed Powershift with Soft Shift Power Reversal	PSI 4.3L Techtronix 332 3 Speed	PSI 4.3L Techtronix 332+ 3 Speed		Engine, Transmission		Distinguishing mark
Base	Base	Value	Productivity		Model		
Wet Brakes	Wet Brakes	Wet Brakes	Wet Brakes		Brake Type		
LPG	LPG	LPG	LPG		Drive: electric (battery or mains), diesel, petrol, LPG	1.3	
Seated	Seated	Seated	Seated		Operator type: hand, pedestrian, standing, seated, orderpicker	1.4	
7.0	7.0	7.0	7.0	Q (t)	Rated capacity/rated load	1.5	
600	600	600	600	c (mm)	Load centre distance	1.6	
609	609	609	609	x (mm)	Load distance, centre of drive axle to fork	1.8	
2235	2235	2235	2235	y (mm)	Wheelbase	1.9	
9455	9455	9455	9455	kg	Service weight (w/std. equipment: mast, carriage, forks, etc.)	2.1	Weights
14803 / 1652	14803 / 1652	14803 / 1652	14803 / 1652	kg	Axle loading, laden front/rear	2.2	
4016 / 5439	4016 / 5439	4016 / 5439	4016 / 5439	kg	Axle loading, unladen front/rear	2.3	
P	P	P	P		Tyres: P = pneumatic, V = solid, SE = Superelastic	3.1	Tyres/chassis
8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR		Tyre size, front	3.2	
8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR		Tyre size, rear	3.3	
4X / 2	4X / 2	4X / 2	4X / 2		Number of wheels, front/rear (x = driven wheels)	3.5	
1847	1847	1847	1847	b_{10} (mm)	Tread, front	3.6	
1536	1536	1536	1536	b_{11} (mm)	Tread, rear	3.7	
5 / 10	5 / 10	5 / 10	5 / 10	α / β (°)	Tilt of mast/fork carrige, forward α /backward β	4.1	Dimensions
2540	2540	2540	2540	h_1 (mm)	Height, mast lowered	4.2	
100	100	100	100	h_2 (mm)	Free lift▼	4.3	
2940	2940	2940	2940	h_3 (mm)	Lift▼	4.4	
4040	4040	4040	4040	h_4 (mm)	Height, mast extended ✚	4.5	
2549	2549	2549	2549	h_6 (mm)	Height of overhead guard (cabin) ❍	4.7	
2531	2531	2531	2531	mm	Cab height (open cab)	4.7.1	
1547	1547	1547	1547	h_7 (mm)	Seat height/stand height ✘	4.8	
467	467	467	467	h_{10} (mm)	Coupling height	4.12	
4877	4877	4877	4877	l_1 (mm)	Overall length	4.19	
3677	3677	3677	3677	l_2 (mm)	Length to face of forks	4.20	
2082	2082	2082	2082	b_1/b_2 (mm)	Overall width	4.21	
60 / 150 / 1200	60 / 150 / 1200	60 / 150 / 1200	60 / 150 / 1200	s/e/l (mm)	Fork dimensions	4.22	
IVA	IVA	IVA	IVA		Fork carriage DIN 15173, class/type A/B	4.23	
1980	1980	1980	1980	b_3 (mm)	Fork carriage width ◗	4.24	
125	125	125	125	m_1 (mm)	Ground clearance, laden, below mast	4.31	
253	253	253	253	m_2 (mm)	Ground clearance, centre of wheelbase	4.32	
5197	5197	5197	5197	Ast (mm)	Aisle width with pallets 1000 long x 1200 crossways	4.34.1	
5397	5397	5397	5397	Ast (mm)	Aisle width with pallets 800 wide x 1200 crossways	4.34.2	
3388	3388	3388	3388	Wa (mm)	Turning radius (outer)	4.35	
1271	1271	1271	1271	b_{13} (mm)	Inner turning radius	4.36	
2903	2903	2903	2903	mm	90° intersecting aisle (With pallet W = 1200mm, L = 1000mm)	4.41	
321	321	321	321	mm	Step Height (from ground to running board)	4.42	
256	256	256	256	mm	Step Height (between intermediate steps between running board and floor)	4.43	
22.1 / 23.2	22.1 / 23.2	24.5 / 26.0	24.5 / 26.0	km/h	Travel speed laden/unladen	5.1	Performance data
22.1 / 23.2	22.1 / 23.2	22.1 / 23.2	22.1 / 23.2	km/h	Travel speed, laden/unladen, backwards	5.1.1	
0.46 / 0.52	0.46 / 0.52	0.46 / 0.52	0.46 / 0.52	m/sec	Lift speed, laden/unladen (2LFL)	5.2	
0.58 / 0.53	0.58 / 0.53	0.58 / 0.53	0.58 / 0.53	m/sec	Lowering speed, laden/unladen (2LFL)	5.3	
33.6 / 23.6	33.6 / 23.6	44.5 / 23.6	44.5 / 23.6	kN	Drawbar pull, laden/unladen @ 1.6 km/h	5.5	
21 / 26	21 / 26	29 / 26	29 / 26	%	Gradeability, laden/unladen @ 1.6 km/h	5.7	
Hydraulic	Hydraulic	Hydraulic	Hydraulic		Service brake	5.10	
PSI 4.3L	PSI 4.3L	PSI 4.3L	PSI 4.3L		Engine manufacturer/type	7.1	Combustion engine
71.6	71.6	71.6	71.6	kW	Engine power according to ISO1585	7.2	
2400	2400	2400	2400	rpm	Rated speed at max. power	7.3	
285 / 2400	285 / 2400	285 / 2400	285 / 2400	Nm/min-1	Torque at 1/min	7.3.1	
6 / 4302	6 / 4302	6 / 4302	6 / 4302	(-)/cm^3	Number of cylinders/displacement	7.4	
7.6	7.6	7.8	7.8	l/hr	Fuel consumption according VDI cycle	7.5	
12 / 132	12 / 132	12 / 132	12 / 132	(V)/(Ah)	Battery voltage/nominal capacity	7.10	
Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic		Type of drive unit	8.1	Drive Mechanism
DANA	DANA	DANA	DANA		Manufacturer/Type	8.2	
DANA	DANA	DANA	DANA		Wheel drive/drive axle manufacturer/type	8.6	
Hand Lever	Hand Lever	Hand Lever	Hand Lever		Parking brake	8.12	
155	155	155	155	bar	Operating pressure for attachments (nominal relief pressure)	10.1	Additional data
83.3	83.3	83.3	83.3	l/min	Oil volume for attachments (nominal) ◊	10.2	
71.7	71.7	71.7	71.7	litres	Hydraulic Tank - capacity (drain & refill)	10.3	
82 / 78	82 / 78	82 / 78	82 / 78	dB(A) L_{PAZ}	Sound level at driver's ear according DIN 12053 (without/with cab ★	10.7	
103	103	103	103	dB(A) L_{WAZ}	Sound power level during the drive cycle	10.7.2	
107	107	107	107	dB(A) L_{WA}	Guaranteed sound power 2001/14/EC	10.7.1	
Pin	Pin	Pin	Pin		Towing coupling, type DIN	10.8	

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

VDI 2198 - General Specifications GLP 70SVX, GLP 70SVX9

Distinguishing mark	1.1	Manufacturer (abbreviation)		Yale	Yale	Yale	Yale
	1.2	Manufacturer's type designation		GLP 70SVX			
		Engine, Transmission		PSI 4.3L Electronic 2 Speed Powershift	PSI 4.3L Electronic 2 Speed Powershift with Soft Shift Power Reversal	PSI 4.3L Techtronix 332 3 Speed	PSI 4.3L Techtronix 332+ 3 Speed
		Model		Base	Base	Value	Productivity
		Brake Type		Wet Brakes	Wet Brakes	Wet Brakes	Wet Brakes
	1.3	Drive: electric (battery or mains), diesel, petrol, LPG		LPG	LPG	LPG	LPG
	1.4	Operator type: hand, pedestrian, standing, seated, orderpicker		Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (t)	7.0	7.0	7.0	7.0
	1.6	Load centre distance	c (mm)	600	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	609	609	609	609
	1.9	Wheelbase	y (mm)	2235	2235	2235	2235
Weights	2.1	Service weight (w/std. equipment: mast, carriage, forks, etc.)	kg	10141	10141	10141	10141
	2.2	Axle loading, laden front/rear	kg	14884 / 2257	14884 / 2257	14884 / 2257	14884 / 2257
	2.3	Axle loading, unladen front/rear	kg	4097 / 6044	4097 / 6044	4097 / 6044	4097 / 6044
Tyres/chassis	3.1	Tyres: P = pneumatic, V = solid, SE = Superelastic		P	P	P	P
	3.2	Tyre size, front		8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR
	3.3	Tyre size, rear		8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR
	3.5	Number of wheels, front/rear (x = driven wheels)		4X / 2	4X / 2	4X / 2	4X / 2
	3.6	Tread, front	b_{10} (mm)	1847	1847	1847	1847
	3.7	Tread, rear	b_{11} (mm)	1536	1536	1536	1536
Dimensions	4.1	Tilt of mast/fork carrige, forward α /backward β	α / β (°)	5 / 10	5 / 10	5 / 10	5 / 10
	4.2	Height, mast lowered	h_1 (mm)	2540	2540	2540	2540
	4.3	Free lift▼	h_2 (mm)	100	100	100	100
	4.4	Lift▼	h_3 (mm)	2940	2940	2940	2940
	4.5	Height, mast extended ✚	h_4 (mm)	4040	4040	4040	4040
	4.7	Height of overhead guard (cabin) ❍	h_6 (mm)	2549	2549	2549	2549
	4.7.1	Cab height (open cab)	mm	2531	2531	2531	2531
	4.8	Seat height/stand height ✘	h_7 (mm)	1547	1547	1547	1547
	4.12	Coupling height	h_{10} (mm)	467	467	467	467
	4.19	Overall length	l_1 (mm)	4695	4695	4695	4695
	4.20	Length to face of forks	l_2 (mm)	3495	3495	3495	3495
	4.21	Overall width	b_1/b_2 (mm)	2082	2082	2082	2082
	4.22	Fork dimensions	s/e/l (mm)	60 / 150 / 1200	60 / 150 / 1200	60 / 150 / 1200	60 / 150 / 1200
	4.23	Fork carriage DIN 15173, class/type A/B		IVA	IVA	IVA	IVA
	4.24	Fork carriage width ◗	b_3 (mm)	1980	1980	1980	1980
	4.31	Ground clearance, laden, below mast	m_1 (mm)	125	125	125	125
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	253	253	253	253
	4.34.1	Aisle width with pallets 1000 long x 1200 crossways	Ast (mm)	4889	4889	4889	4889
	4.34.2	Aisle width with pallets 800 wide x 1200 crossways	Ast (mm)	5089	5089	5089	5089
	4.35	Turning radius (outer)	Wa (mm)	3080	3080	3080	3080
	4.36	Inner turning radius	b_{13} (mm)	951	951	951	951
	4.41	90° intersecting aisle (With pallet W = 1200mm, L = 1000mm)	mm	2883	2883	2883	2883
	4.42	Step Height (from ground to running board)	mm	321	321	321	321
	4.43	Step Height (between intermediate steps between running board and floor)	mm	256	256	256	256
Performance data	5.1	Travel speed laden/unladen	km/h	22.0 / 23.1	22.0 / 23.1	24.5 / 25.9	24.5 / 25.9
	5.1.1	Travel speed, laden/unladen, backwards	km/h	22.0 / 23.1	22.0 / 23.1	22.0 / 23.1	22.0 / 23.1
	5.2	Lift speed, laden/unladen (2LFL)	m/sec	0.46 / 0.52	0.46 / 0.52	0.46 / 0.52	0.46 / 0.52
	5.3	Lowering speed, laden/unladen (2LFL)	m/sec	0.58 / 0.53	0.58 / 0.53	0.58 / 0.53	0.58 / 0.53
	5.5	Drawbar pull, laden/unladen @ 1.6 km/h	kN	33.5 / 24.1	33.5 / 24.1	44.5 / 24.1	44.5 / 24.1
	5.7	Gradeability, laden/unladen @ 1.6 km/h	%	20 / 25	20 / 25	27 / 25	27 / 25
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic
Combustion engine	7.1	Engine manufacturer/type		PSI 4.3L	PSI 4.3L	PSI 4.3L	PSI 4.3L
	7.2	Engine power according to ISO1585	kW	71.6	71.6	71.6	71.6
	7.3	Rated speed at max. power	rpm	2400	2400	2400	2400
	7.3.1	Torque at 1/min	Nm/min-1	285 / 2400	285 / 2400	285 / 2400	285 / 2400
	7.4	Number of cylinders/displacement	(-)/cm^3	6 / 4302	6 / 4302	6 / 4302	6 / 4302
	7.5	Fuel consumption according VDI cycle	l/hr	8.0	8.0	8.3	8.3
	7.10	Battery voltage/nominal capacity	(V)/(Ah)	12 / 132	12 / 132	12 / 132	12 / 132
Drive Mechanism	8.1	Type of drive unit		Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic
	8.2	Manufacturer/Type		DANA	DANA	DANA	DANA
	8.6	Wheel drive/drive axle manufacturer/type		DANA	DANA	DANA	DANA
	8.12	Parking brake		Hand Lever	Hand Lever	Hand Lever	Hand Lever
Additional data	10.1	Operating pressure for attachments (nominal relief pressure)	bar	155	155	155	155
	10.2	Oil volume for attachments (nominal) ◊	l/min	83.3	83.3	83.3	83.3
	10.3	Hydraulic Tank - capacity (drain & refill)	litres	71.7	71.7	71.7	71.7
	10.7	Sound level at driver's ear according DIN 12053 (without / with cab ★	dB(A) L_{PAZ}	82 / 78	82 / 78	82 / 78	82 / 78
	10.7.2	Sound power level during the drive cycle	dB(A) L_{WAZ}	103	103	103	103
	10.7.1	Guaranteed sound power 2001/14/EC	dB(A) L_{WA}	107	107	107	107
	10.8	Towing coupling, type DIN		Pin	Pin	Pin	Pin

★ Measured according to the test cycles and based on the weighting values contained in EN12053
▼ Bottom of forks
✘ Full suspension seat in depressed position
✚ Without load backrest
◗ Add 32mm with load backrest
❍ h_6 subject to +/- 5 mm tolerance. 2549mm for Cab option.
◊ Variable

Spec sheet truck based on :-
3000mm top of forks 2 stage LFL mast with standard 1980mm carriage and 1200mm forks.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.
Yale products might be subject to change without notice.

Yale	Yale	Yale	Yale		Manufacturer (abbreviation)	1.1	
GLP 70SVX9					Manufacturer's type designation	1.2	
PSI 4.3L Electronic 2 Speed Powershift	PSI 4.3L Electronic 2 Speed Powershift with Soft Shift Power Reversal	PSI 4.3L Techtronix 332 3 Speed	PSI 4.3L Techtronix 332+ 3 Speed		Engine, Transmission		Distinguishing mark
Base	Base	Value	Productivity		Model		
Wet Brakes	Wet Brakes	Wet Brakes	Wet Brakes		Brake Type		
Diesel	Diesel	Diesel	Diesel		Drive: electric (battery or mains), diesel, petrol, LPG	1.3	
Seated	Seated	Seated	Seated		Operator type: hand, pedestrian, standing, seated, orderpicker	1.4	
6.0	6.0	6.0	6.0	Q (t)	Rated capacity/rated load	1.5	
900	900	900	900	c (mm)	Load centre distance	1.6	
609	609	609	609	x (mm)	Load distance, centre of drive axle to fork	1.8	
2235	2235	2235	2235	y (mm)	Wheelbase	1.9	
11884	11884	11884	11884	kg	Service weight (w/std. equipment: mast, carriage, forks, etc.)	2.1	Weights
16639 / 2337	16639 / 2337	16639 / 2337	16639 / 2337	kg	Axle loading, laden front/rear	2.2	
4783 / 7101	4783 / 7101	4783 / 7101	4783 / 7101	kg	Axle loading, unladen front/rear	2.3	
P	P	P	P		Tyres: P = pneumatic, V = solid, SE = Superelastic	3.1	Tyres/chassis
8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR		Tyre size, front	3.2	
8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR		Tyre size, rear	3.3	
4X / 2	4X / 2	4X / 2	4X / 2		Number of wheels, front/rear (x = driven wheels)	3.5	
1847	1847	1847	1847	b_{10} (mm)	Tread, front	3.6	
1536	1536	1536	1536	b_{11} (mm)	Tread, rear	3.7	
5 / 10	5 / 10	5 / 10	5 / 10	α / β (°)	Tilt of mast/fork carrige, forward α /backward β	4.1	Dimensions
2540	2540	2540	2540	h_1 (mm)	Height, mast lowered	4.2	
100	100	100	100	h_2 (mm)	Free lift▼	4.3	
2940	2940	2940	2940	h_3 (mm)	Lift▼	4.4	
4225	4225	4225	4225	h_4 (mm)	Height, mast extended ✚	4.5	
2549	2549	2549	2549	h_6 (mm)	Height of overhead guard (cabin) ❍	4.7	
2531	2531	2531	2531	mm	Cab height (open cab)	4.7.1	
1547	1547	1547	1547	h_7 (mm)	Seat height/stand height ✘	4.8	
467	467	467	467	h_{10} (mm)	Coupling height	4.12	
4770	4770	4770	4770	l_1 (mm)	Overall length	4.19	
3570	3570	3570	3570	l_2 (mm)	Length to face of forks	4.20	
2082	2082	2082	2082	b_1/b_2 (mm)	Overall width	4.21	
60 / 150 / 1200	60 / 150 / 1200	60 / 150 / 1200	60 / 150 / 1200	s/e/l (mm)	Fork dimensions	4.22	
IVA	IVA	IVA	IVA		Fork carriage DIN 15173, class/type A/B	4.23	
1980	1980	1980	1980	b_3 (mm)	Fork carriage width ◗	4.24	
125	125	125	125	m_1 (mm)	Ground clearance, laden, below mast	4.31	
253	253	253	253	m_2 (mm)	Ground clearance, centre of wheelbase	4.32	
4959	4959	4959	4959	Ast (mm)	Aisle width with pallets 1000 long x 1200 crossways	4.34.1	
5159	5159	5159	5159	Ast (mm)	Aisle width with pallets 800 wide x 1200 crossways	4.34.2	
3145	3145	3145	3145	Wa (mm)	Turning radius (outer)	4.35	
951	951	951	951	b_{13} (mm)	Inner turning radius	4.36	
2883	2883	2883	2883	mm	90° intersecting aisle (With pallet W = 1200mm, L = 1000mm)	4.41	
321	321	321	321	mm	Step Height (from ground to running board)	4.42	
256	256	256	256	mm	Step Height (between intermediate steps between running board and floor)	4.43	
21.9 / 23.1	21.9 / 23.1	24.3 / 25.8	24.3 / 25.8	km/h	Travel speed laden/unladen	5.1	Performance data
21.9 / 23.1	21.9 / 23.1	21.9 / 23.1	21.9 / 23.1	km/h	Travel speed, laden/unladen, backwards	5.1.1	
0.36 / 0.36	0.36 / 0.36	0.36 / 0.36	0.36 / 0.36	m/sec	Lift speed, laden/unladen (2LFL)	5.2	
0.41 / 0.37	0.41 / 0.37	0.41 / 0.37	0.41 / 0.37	m/sec	Lowering speed, laden/unladen (2LFL)	5.3	
33.1 / 28.1	33.1 / 28.1	44.5 / 28.1	44.5 / 28.1	kN	Drawbar pull, laden/unladen @ 1.6 km/h	5.5	
18 / 25	18 / 25	25 / 25	25 / 25	%	Gradeability, laden/unladen @ 1.6 km/h	5.7	
Hydraulic	Hydraulic	Hydraulic	Hydraulic		Service brake	5.10	
PSI 4.3L	PSI 4.3L	PSI 4.3L	PSI 4.3L		Engine manufacturer/type	7.1	Combustion engine
71.6	71.6	71.6	71.6	kW	Engine power according to ISO1585	7.2	
2400	2400	2400	2400	rpm	Rated speed at max. power	7.3	
285 / 2400	285 / 2400	285 / 2400	285 / 2400	Nm/min-1	Torque at 1/min	7.3.1	
6 / 4302	6 / 4302	6 / 4302	6 / 4302	(-)/cm^3	Number of cylinders/displacement	7.4	
6.8	6.8	8.1	6.7	l/hr	Fuel consumption according VDI cycle	7.5	
12 / 132	12 / 132	12 / 132	12 / 132	(V)/(Ah)	Battery voltage/nominal capacity	7.10	
Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic		Type of drive unit	8.1	Drive Mechanism
DANA	DANA	DANA	DANA		Manufacturer/Type	8.2	
DANA	DANA	DANA	DANA		Wheel drive/drive axle manufacturer/type	8.6	
Hand Lever	Hand Lever	Hand Lever	Hand Lever		Parking brake	8.12	
155	155	155	155	bar	Operating pressure for attachments (nominal relief pressure)	10.1	Additional data
83.3	83.3	83.3	83.3	l/min	Oil volume for attachments (nominal) ◊	10.2	
71.7	71.7	71.7	71.7	litres	Hydraulic Tank - capacity (drain & refill)	10.3	
80 / 80	80 / 80	80 / 80	77 / 77	dB(A) L_{PAZ}	Sound level at driver's ear according DIN 12053 (without / with cab ★	10.7	
102	102	101	101	dB(A) L_{WAZ}	Sound power level during the drive cycle	10.7.2	
106	106	106	105	dB(A) $_{LWA}$	Guaranteed sound power 2001/14/EC	10.7.1	
Pin	Pin	Pin	Pin		Towing coupling, type DIN	10.8	

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

VDI 2198 - General Specifications GLP 80SVX

Distinguishing mark	1.1	Manufacturer (abbreviation)		Yale	Yale	Yale	Yale
	1.2	Manufacturer's type designation		GLP 80SVX			
		Engine, Transmission		PSI 4.3L Electronic 2 Speed Powershift	PSI 4.3L Electronic 2 Speed Powershift with Soft Shift Power Reversal	PSI 4.3L Electronic 2 Speed Powershift	PSI 4.3L Electronic 2 Speed Powershift
		Model		Base	Base	Value	Productivity
		Brake Type		Wet Brakes	Wet Brakes	Wet Brakes	Wet Brakes
	1.3	Drive: electric (battery or mains), diesel, petrol, LPG		LPG	LPG	LPG	LPG
	1.4	Operator type: hand, pedestrian, standing, seated, orderpicker		Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (t)	8.0	8.0	8.0	8.0
	1.6	Load centre distance	c (mm)	600	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	609	609	609	609
	1.9	Wheelbase	y (mm)	2235	2235	2235	2235
Weights	2.1	Service weight (w/ std equipment: mast, carriage, forks, etc.)	kg	11466	11466	11466	11466
	2.2	Axle loading, laden front/rear	kg	16955 / 2511	16955 / 2511	16955 / 2511	16955 / 2511
	2.3	Axle loading, unladen front/rear	kg	4654 / 6812	4654 / 6812	4654 / 6812	4654 / 6812
Tyres/chassis	3.1	Tyres: P = pneumatic, V = solid, SE = Superelastic		P	P	P	P
	3.2	Tyre size, front		8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR
	3.3	Tyre size, rear		8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR	8.25 x 15 14PR
	3.5	Number of wheels, front/rear (x = driven wheels)		4X / 2	4X / 2	4X / 2	4X / 2
	3.6	Tread, front	b_{10} (mm)	1847	1847	1847	1847
	3.7	Tread, rear	b_{11} (mm)	1536	1536	1536	1536
Dimensions	4.1	Tilt of mast/fork carrige, forward α /backward β	α / β (°)	5 / 10	5 / 10	5 / 10	5 / 10
	4.2	Height, mast lowered	h_1 (mm)	2540	2540	2540	2540
	4.3	Free lift ▼	h_2 (mm)	100	100	100	100
	4.4	Lift ▼	h_3 (mm)	2940	2940	2940	2940
	4.5	Height, mast extended ✚	h_4 (mm)	4225	4225	4225	4225
	4.7	Height of overhead guard (cabin) ❍	h_6 (mm)	2549	2549	2549	2549
	4.7.1	Cab height (open cab)	mm	2531	2531	2531	2531
	4.8	Seat height/stand height ✘	h_7 (mm)	1547	1547	1547	1547
	4.12	Coupling height	h_{10} (mm)	467	467	467	467
	4.19	Overall length	l_1 (mm)	4770	4770	4770	4770
	4.20	Length to face of forks	l_2 (mm)	3570	3570	3570	3570
	4.21	Overall width	b_1/b_2 (mm)	2082	2082	2082	2082
	4.22	Fork dimensions	s/e/l (mm)	60 / 150 / 1200	60 / 150 / 1200	60 / 150 / 1200	60 / 150 / 1200
	4.23	Fork carriage DIN 15173, class/type A/B		IVA	IVA	IVA	IVA
	4.24	Fork carriage width ◗	b_3 (mm)	1980	1980	1980	1980
	4.31	Ground clearance, laden, below mast	m_1 (mm)	125	125	125	125
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	253	253	253	253
	4.34.1	Aisle width with pallets 1000 long x 1200 crossways	Ast (mm)	4959	4959	4959	4959
	4.34.2	Aisle width with pallets 800 wide x 1200 crossways	Ast (mm)	5154	5154	5154	5154
	4.35	Turning radius (outer)	Wa (mm)	3145	3145	3145	3145
	4.36	Inner turning radius	b_{13} (mm)	951	951	951	951
	4.41	90° intersecting aisle (With pallet W = 1200mm, L = 1000mm)	mm	2883	2883	2883	2883
	4.42	Step Height (from ground to running board)	mm	321	321	321	321
	4.43	Step Height (between intermediate steps between running board and floor)	mm	256	256	256	256
Performance data	5.1	Travel speed laden/unladen	km/h	21.9 / 23.1	21.9 / 23.1	24.3 / 25.8	24.3 / 25.8
	5.1.1	Travel speed, laden/unladen, backwards	km/h	21.9 / 23.1	21.9 / 23.1	21.9 / 23.1	21.9 / 23.1
	5.2	Lift speed, laden/unladen (2LFL)	m/sec	0.36 / 0.36	0.36 / 0.36	0.36 / 0.36	0.36 / 0.36
	5.3	Lowering speed, laden/unladen (2LFL)	m/sec	0.41 / 0.37	0.41 / 0.37	0.41 / 0.37	0.41 / 0.37
	5.5	Drawbar pull, laden/unladen @ 1.6 km/h	kN	33.1 / 27.4	33.1 / 27.4	44.5 / 27.4	44.5 / 27.4
	5.7	Gradeability, laden/unladen @ 1.6 km/h	%	18 / 25	18 / 25	24 / 25	24 / 25
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic
Combustion engine	7.1	Engine manufacturer/type		PSI 4.3L	PSI 4.3L	PSI 4.3L	PSI 4.3L
	7.2	Engine power according to ISO1585	kW	71.6	71.6	71.6	71.6
	7.3	Rated speed at max. power	rpm	2400	2400	2400	2400
	7.3.1	Torque at 1/min	Nm/min-1	285 / 2400	285 / 2400	285 / 2400	285 / 2400
	7.4	Number of cylinders/displacement	(-)/cm^3	6 / 4302	6 / 4302	6 / 4302	6 / 4302
	7.5	Fuel consumption according VDI cycle	l/hr	9.6	9.6	9.9	9.9
	7.10	Battery voltage/nominal capacity	(V)/(Ah)	12 / 132	12 / 132	12 / 132	12 / 132
Drive Mechanism	8.1	Type of drive unit		Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic
	8.2	Manufacturer/Type		DANA	DANA	DANA	DANA
	8.6	Wheel drive/drive axle manufacturer/type		DANA	DANA	DANA	DANA
	8.12	Parking brake		Hand Lever	Hand Lever	Hand Lever	Hand Lever
Additional data	10.1	Operating pressure for attachments (nominal relief pressure)	bar	155	155	155	155
	10.2	Oil volume for attachments (nominal) ◊	l/min	83.3	83.3	83.3	83.3
	10.3	Hydraulic Tank - capacity (drain & refill)	litres	71.7	71.7	71.7	71.7
	10.7	Sound level at driver's ear according DIN 12053 (without/with cab) ★	dB(A) L_{PAZ}	82 / 78	82 / 78	82 / 78	82 / 78
	10.7.2	Sound power level during the drive cycle	dB(A) L_{WAZ}	103	103	103	103
	10.7.1	Guaranteed sound power 2001/14/EC	dB(A) L_{WA}	107	107	107	107
	10.8	Towing coupling, type DIN		Pin	Pin	Pin	Pin

★ Measured according to the test cycles and based on the weighting values contained in EN12053
▼ Bottom of forks
✘ Full suspension seat in depressed position
✚ Without load backrest
◗ Add 32mm with load backrest
❍ h_6 subject to +/- 5 mm tolerance. 2549mm for Cab option.
◊ Variable

Spec sheet truck based on :- 3000mm top of forks 2 stage LFL mast with standard 1980mm carriage and 1200mm forks.

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

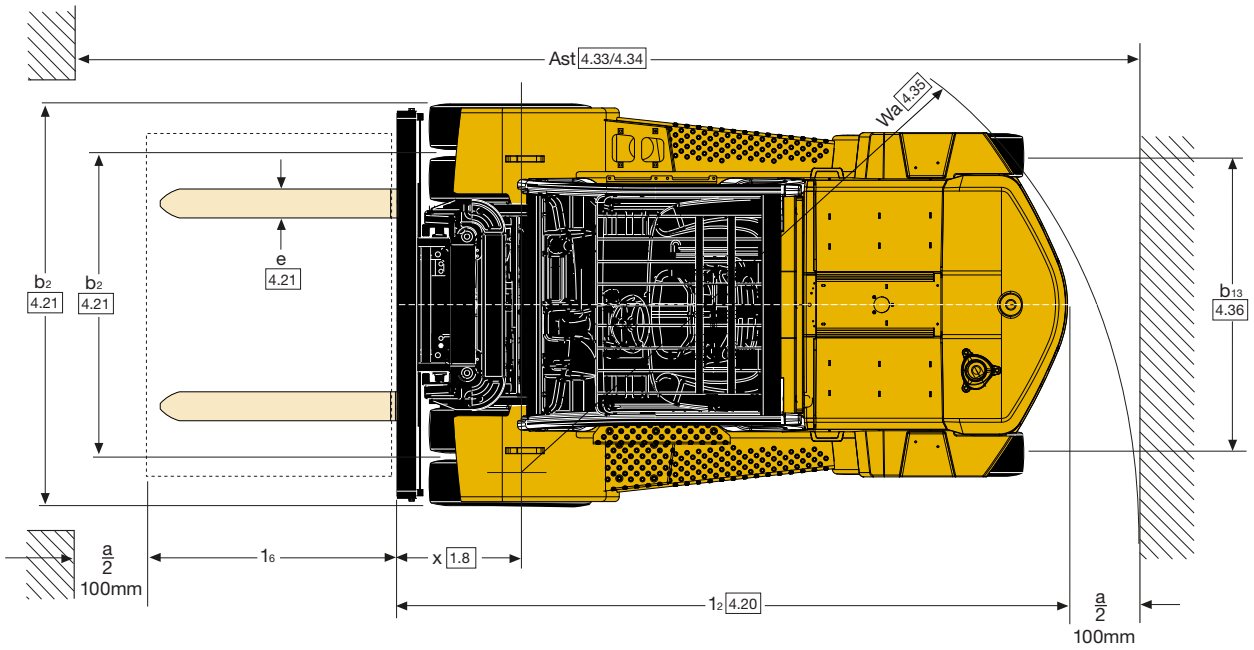
Yale products might be subject to change without notice.

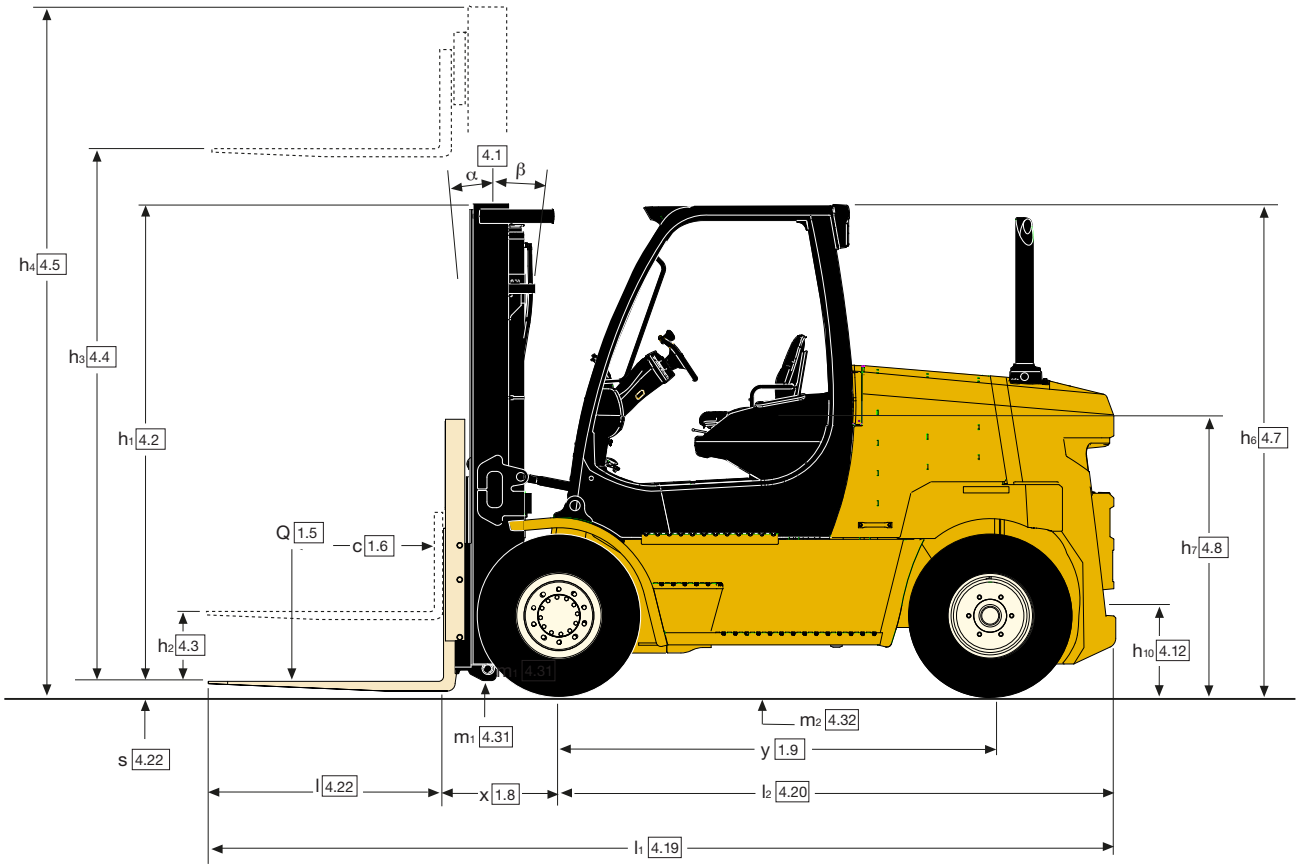
Lift trucks illustrated may feature optional equipment.

Values may vary with alternative configurations.

Truck Dimensions

Ast = Wa + x + l6 + a (see lines 4.34.1 and 4.34.2).
a = Minimum operating distance.
(VDI standard = 200mm BITA recommendation = 300mm.
l6 = load length.





Mast Data - GLP60VX, GLP70VX, GLP70SVX

Mast type	Maximum Fork Height mm (TOF)	Back tilt	Overall Lowered height mm	Overall Extended height mm	Free lift height mm (TOF)
2 Stage LFL	3000	10°	2516	4417	100
	3400	10°	2716	4817	100
	4400	10°	3216	5817	100
	5400	10°	3716	6817	100
	6000	10°	4116	7417	100
3 Stage FFL	4700	6°	2576	6118	1425
	5600	6°	2876	7018	1725
	6200	6°	3126	7618	1975
				With LBR	Without LBR

Mast Data - GLP70SVX9, GLP80SVX

Mast type	Maximum Fork Height mm (TOF)	Back tilt	Overall Lowered height mm	Overall Extended height mm	Free lift height mm (TOF)
2 Stage LFL	3065	9°	2712	4350	0
	3565	9°	2962	4850	0
	4565	9°	3462	5850	0
	5565	9°	3962	6850	0
	6065	9°	4212	7350	0
3 Stage FL	4615	6°	2702	6077	1565
	5515	6°	3002	6977	1865
	5965	6°	3152	7427	2015
	6565	6°	3355	7847	2111
				With LBR	Without LBR

Capacity Chart - GLP60VX, GLP70VX, GLP70SVX - in kg @ 600mm Load Centre

Mast type	Maximum Fork Height mm (TOF)	8.25x15/14-Ply Dual Pneumatic Drive tyres								
		Without Sideshift			With Independant Sideshift			With Hang-On Sideshift & Fork Positioner		
		60VX	70VX	70SVX	60VX	70VX	70SVX	60VX	70VX	70SVX
2 Stage LFL	3000	6240	7000	7000	5730	6730	7000	5380	6330	6660
	3400	6220	7000	7000	5710	6720	7000	5360	6320	6650
	4400	6170	7000	7000	5670	6670	7000	5320	6270	6600
	5400	6140	7000	7000	5630	6640	6990	5290	6240	6570
	6000	5910	6810	6820	5430	6420	6770	5090	6040	6370
3 Stage LFL	4700	6120	7000	7000	5630	6550	6830	5290	6170	6430
	5600	6010	6900	6910	5520	6440	6720	5190	6060	6330
	6200	5970	6710	6730	5320	6220	6500	4990	5850	6130

Capacity Chart - GLP70SVX9 - in kg @ 900mm Load Centre

Mast type	Maximum Fork Height mm (TOF)	8.25x15/14-Ply Dual Pneumatic Drive tyres	
		Without Sideshift	With Integral Sideshift
		70SVX9	70SVX9
2 Stage LFL	3065	7390	6900
	3565	7380	6890
	4565	7360	6880
	5565	7340	6860
	6065	7260	6780
3 Stage FFL	4615	6880	6430
	5515	6860	6410
	5965	6840	6390
	6565	6610	6170

Capacity Chart - GLP80SVX - in kg @ 600mm Load Centre

Mast type	Maximum Fork Height mm (TOF)	Without Sideshift	With Integral Sideshift & Fork Positioner
		80SVX	80SVX
2 Stage LFL	3065	8000	7960
	3565	8000	7950
	4565	8000	7930
	5565	8000	7900
	6065	7920	7810
3 Stage FFL	4615	8000	7410
	5515	8000	7390
	5965	7970	7360
	6565	7750	7160

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

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Values may vary with alternative configurations.

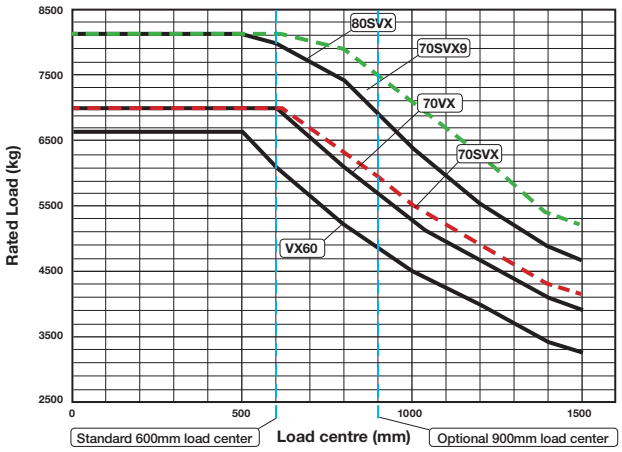
Engine Specifications

LPG Engine Specification

Base, Value, Productivity

Engine	PSI
Cylinders	V6
Displacement	4.3 litre
Power	71.6kW @ 2,400rpm
Torque	285Nm @ 2,400rpm

Rated Load vs. Load Center - Hook Carriage



Truck Configuration

2 stage LFL mast at:	
Model	**MFH - Top of Forks (mm)**
60VX, 70VX, SVX	5400
70SVX9, 80SVX	5565
Carriage	1980mm Standard Hook with Load Backrest
Basic Truck	LPG with 2 speed transmission and Overhead Guard

The ratings are computed using fork lengths as below:

	Load Centre (mm)	Fork Length (mm)
All models	500 to 700	1200
	Over 700 to 1000	1500
	Over 1000 to 1200	1800
	Over 1220	2400

Ratings computed using high strength, 65x200mm forks above the following load centres to reach full truck capacity.

Model	Load Center (mm)
60VX	1400
70VX	600
70SVX	600
70SVX9	1050
80SVX	1400

VX series

Models: GLP 60VX, GLP 70VX, GLP 70SVX, GLP 70SVX9, GLP 80SVX

People. Products. Productivity.™

Yale Veracitor VX Series
Available in three configurations;
Base - top performance with minimised cost of acquisition.

Value - excellent performance, lowest hourly operating cost.

Productivity - maximum performance utilising state-of-the-art features.

LPG Engines
The PSI 4.3L engine features a rigid cast iron block, four bearing crankshaft and cast iron camshaft with hydraulic lifters.

The LPG engine uses sequential port fuel injection, the ECU regulates fuel, air and spark advance to provide the necessary torque.

Base **-** PSI 4.3L engine with Powershift.

Base **-** PSI 4.3L engine with Powershift with soft-shift power reversal.

Value *and* ***Productivity*** **-** PSI 4.3L engine with Techtronix 332.

Two Transmissions
Powershift Electronic - Powershift Electronic transmission has two forward and two reverse speeds, electronic shift control for smooth hydraulic inching, neutral start switch, and anti-restart protection.

Techronix 332 series - Powershift Electronic plus Auto Deceleration System (ADS), Controlled Power Reversal (CPR). The Techtronix 332 features three speeds forward and two speeds in reverse.

Cooling System
Sealed cooling system with high capacity radiator and integrated transmission oil cooler. Optional combi-cooler radiator has an externally mounted transmission oil cooler.

Drive Axle
Able to withstand heavy duty applications and absorb shock loads with increased resistance to torsion stress, isolated from the transmission by heavy-duty rubber mounting.

Brakes
Standard Oil immersed brakes with low pedal effort. Brakes require no adjustments, little maintenance with a long service life. The system has a sealed master cylinder, instrument panel fluid level sensor and warning light.

Hydraulic Power Steering
Responsive control, eliminating mechanical linkages for reduced surface shock and maintenance. Centred, textured steering wheel has a spinner knob with four turns lock-to-lock. Steer cylinder is located within the the steer axle for protection.

Steer Axle
Cast steel mounted on phenolic bushings for excellent stability and axle articulation.

Chassis
Unitised frame structure with low step height.

Operator's Compartment
Standard cowl mounted hydraulic control levers; all models are available with optional AccuTouch mini-levers with horn and direction switch.

Full Suspension Seat and isolated powertrain provide best in class Whole-Body Vibration levels for operator comfort. Automotive-style pedals with a large, single inch/brake pedal.

Intellix Vehicle System Management (VSM)
Provides extensive monitoring and control of functions and systems. CAN bus wiring, sealed connectors and Hall effect sensors reduces complexity for truck system communication.

Hydraulic System
Incorporates a gear type pump with a cast iron body and protection from overloads via a lift circuit relief valve with a secondary valve for tilt and auxiliary functions. Oil is double filtered. AccuTouch minilevers have an emergency lowering valve to allow lowering in the event of power loss.

Masts
Hi-Vis 2 stage LFL and 3 stage FFL masts afford outstanding visibility. Nested and rolled channels, angled load rollers plus formed cross-members provide high strength. All hoses are routed internally for protection and improved visibility. Standard hook-type carriages handle a wide variety of forks and attachments.

Options
- Powertrain protection system
- Premium monitoring package
- High air intake with precleaner
- Accumulator
- Halogen headlights and rear drive lights
- Traction speed limiter
- Dual LPG tank bracket
- Return-to-set tilt
- Integral operator's cab
- Swivel full suspension seats
- Foot Directional Control pedal
- Operator password
- Mirrors
- Alarm - reverse actuated 82-102 dB(A) - self-adjusting
- Amber strobe light - Continuous activated
- Solid and radial tyres
- 4 function (2 aux.) hydraulic control valve
- 5° forward / 6° backward tilt.

VX series

Models: GLP 60VX, GLP 70VX, GLP 70SVX, GLP 70SVX9, GLP 80SVX

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People. Products. Productivity.™

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Safety: This truck conforms to the current EU requirements.
Specification is subject to change without notice.