Yale®
LIFT TRUCK TECHNOLOGIES

GLC40-55VX

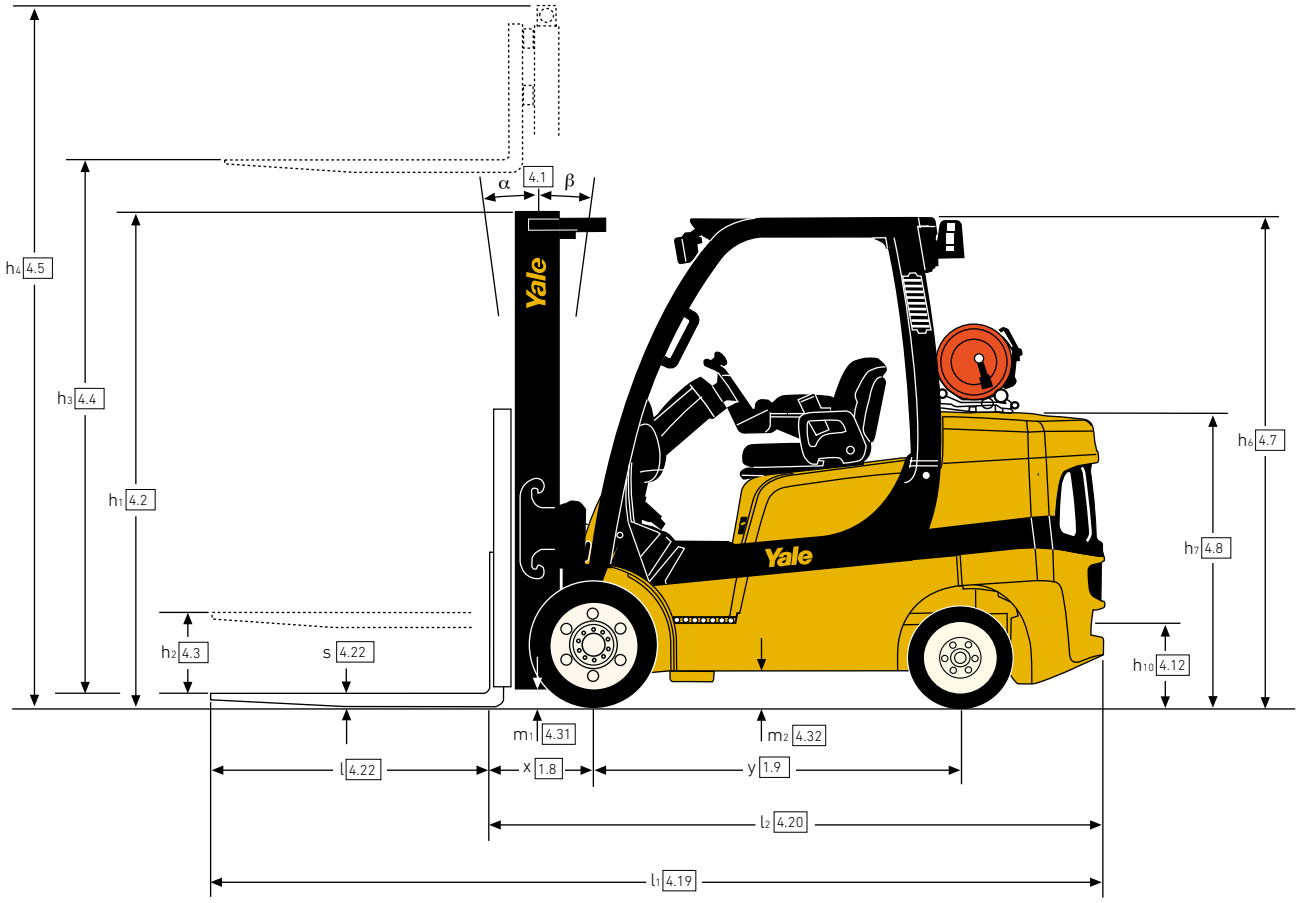
4,000 - 5,500 kg

GCVX Series

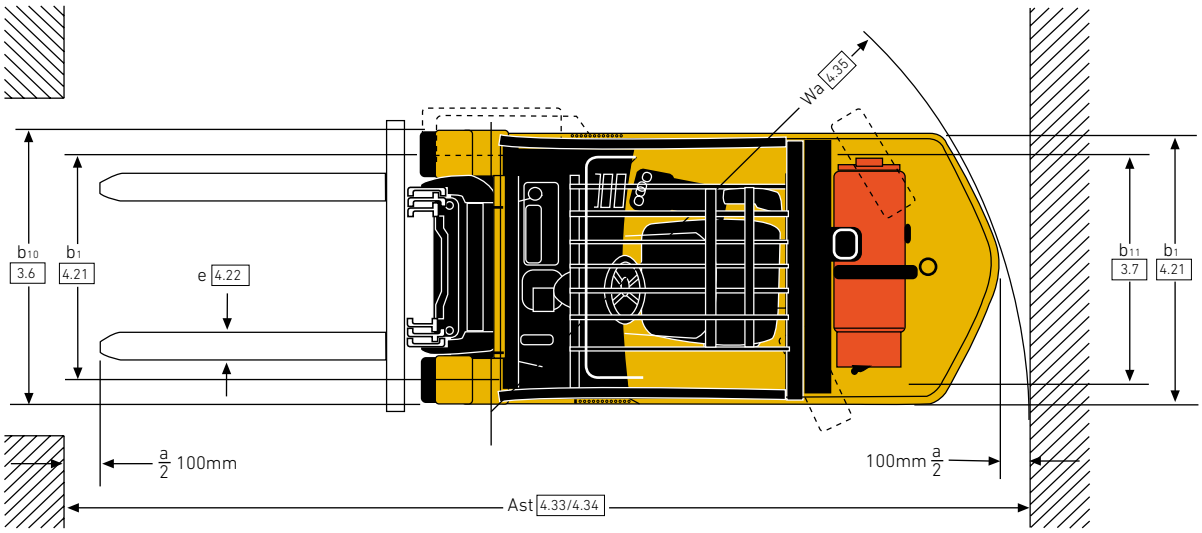
LPG Forklift Trucks

SPEC SHEET

TRUCK DIMENSIONS – GCVX SERIES



TRUCK DIMENSIONS – GCVX SERIES



VDI 2198 – GENERAL SPECIFICATIONS – GCVX SERIES

GENERAL	1.1	Manufacturer		Yale				
	1.2	Model designation		**GLC 40 VX**		**GLC 45 VX**		
	1.2.1	Model		Value	Productivity	Value	Productivity	
	1.3	Drive		LPG				
	1.3.1	Engine		Kubota 3.8L				
	1.3.3	Transmission		Techtronix 1, 1-Speed	Techtronix 2, 2-Speed	Techtronix 1, 1-Speed	Techtronix 2, 2-Speed	
	1.3.4	Brake Type		Oil Immersed Brakes				
	1.4	Operator type		Seated				
	1.5	Rated capacity/rated load	Q (t)	4.0		4.5		
	1.6	Load centre distance	c (mm)	500		600		
	1.8	Load distance, centre of drive axle to fork	x (mm)	447		462		
	1.9	Wheelbase	y (mm)	1570		1790		
WEIGHT	2.1	Service weight	kg	5795		6977		
	2.2	Axle loading laden, front/rear	kg	8607/1188		10085/1392		
	2.3	Axle loading unladen, front/rear	kg	2194/3601		2916/4061		
TYRES	3.1	Tyres, front/rear		Cushion				
	3.2	Tyre size, front		22x9x16		22x12x16		
	3.3	Tyre size, rear		18x7x12.1		18x8x12.1		
	3.5	Number of wheels, front/rear (X = driven)		2x / 2				
	3.6	Tread, front	b_{10} (mm)	941		1015		
	3.7	Tread, rear	b_{11} (mm)	978		1004		
DIMENSIONS	4.1	Tilt of mast/fork carriage forward/backward	α / β (°)	5 / 6				
	4.2	Height, mast lowered	h_1 (mm)	2130		2135		
	4.3	Free lift [1]	h_2 (mm)	100				
	4.4	Lift [1]	h_3 (mm)	3000		2740		
	4.5	Height, mast extended [2]	h_4 (mm)	3780		3665		
	4.7	Height of overhead guard (cabin)	h_6 (mm)	2171		2175		
	4.8	Seat height/stand height [3]	h_7 (mm)	1221		1339		
	4.12	Coupling height	h_{10} (mm)	367		371		
	4.19	Overall length	l_1 (mm)	3630		3969		
	4.20	Length to face of forks	l_2 (mm)	2630		2769		
	4.21	Overall width (standard / wide)	b_1/b_2 (mm)	1170 / 1270		1320 / 1420		
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	50 / 125 / 1000		60 / 150 / 1200		
	4.23	Fork carriage ISO 2328, class/type A, B		IIIA		IVA		
	4.24	Fork carriage width [4]	b_3 (mm)	1070				
	4.31	Ground clearance, laden, below mast	m_1 (mm)	114		118		
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	152		156		
	4.33	Load dimension $b_{12} \times l_6$ crossways	$b_{12} \times l_6$ (mm)	1200 x 1000				
	4.34	Aisle width predetermined load dimensions [5]	Ast (mm)	3945		4109		
	4.34.1	Aisle width for pallets 1000 × 1200 crossways [5]	Ast (mm)	4145		4309		
	4.34.2	Aisle width for pallets 800 × 1200 crossways [5]	Ast (mm)	4145		4309		
	4.35	Turning radius	Wa (mm)	2298		2447		
	4.36	Internal turning radius	b_{13} (mm)	675		762		
	4.36.1	90° intersecting aisle (with pallet L = 1000mm x W = 1200mm)	(mm)	2051		2164		
	4.36.2	Step Height (from ground to running board)	(mm)	392		396		
	4.36.3	Step Height (between intermediate steps and floor)	(mm)	322				
PERFORMANCE	5.1	Travel speed, laden/unladen	km/h	18.1/18.3	22.1/22.5	17.8/18.1	21.7/22.1	
	5.1.1	Travel speed, laden/unladen, backwards	km/h	18.1/18.3		17.8/18.1		
	5.2	Lift speed, laden/unladen	m/s	0.61 / 0.62		0.56 / 0.57		
	5.3	Lowering speed, laden/unladen	m/s	0.55 / 0.47		0.51 / 0.42		
	5.5	Drawbar pull, laden/unladen [6]	N	31725/12804	38091/12804	34923/16916	41944/16916	
	5.7	Gradeability, laden/unladen [7]	%	36.8/14.1	45.6/14.1	32.6/18.7	40.1/18.7	
	5.9	Acceleration time, laden/unladen [8]	s	4.3/4.9	4.4/5	4.2/4.9	4.2/5	
	5.10	Service brake		Hydraulic				
ENGINE	7.1	Engine manufacturer/type		Kubota 3.8L LPG	GM 4.3L			
	7.2	Engine power according to ISO 1585	kW	55		68		
	7.3	Rated speed	min–1	2400		2400		
	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		
	7.5	Fuel consumption according to VDI cycle	l/h or kg/h	4.0		4.5		
	7.10	Battery voltage/nominal capacity [9]	V/Ah	12 / 88				
OTHER	8.1	Type of drive unit		Hydrodynamic				
	10.1	Operating pressure for attachments	bar	155				
	10.2	Oil volume for attachments [10]	l/min	83.3				
	10.3	Hydraulic oil tank, capacity	l	76.6				
	10.4	Fuel tank, capacity	l	38.6				
	10.7	Sound pressure level at the driver's seat [11]	dB (A)	84				
	10.7.1	Sound power level during the workcycle [12]	dB (A)	102				
	10.7.2	Guaranteed sound power 2001/14/EC	dB (A)	106				
	10.8	Towing coupling, type DIN		Pin				

(1) Top of forks

(2) Add 32mm with load backrest

(3) Full suspension seat in depressed position

(4) W/o load backrest, add 32mm with load backrest

(5) 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

(6) At 1.6 km/h

VDI 2198 – GENERAL SPECIFICATIONS – GCVX SERIES

GENERAL	1.1	Manufacturer		Yale				
	1.2	Model designation		**GLC 55 VX**		**GLC 55 SVX**		
	1.2.1	Model		Value	Productivity	Value	Productivity	
	1.3	Drive		LPG				
	1.3.1	Engine		Kubota 3.8L				
	1.3.3	Transmission		Techtronix 1, 1-Speed	Techtronix 2, 2-Speed	Techtronix 1, 1-Speed	Techtronix 2, 2-Speed	
	1.3.4	Brake Type		Oil Immersed Brakes				
	1.4	Operator type		Seated				
	1.5	Rated capacity/rated load	Q (t)	5.5				
	1.6	Load centre distance	c (mm)	600				
	1.8	Load distance, centre of drive axle to fork	x (mm)	462				
	1.9	Wheelbase	y (mm)	1790				
WEIGHT	2.1	Service weight	kg	7595		7618		
	2.2	Axle loading laden, front/rear	kg	11523/1572		11729/1389		
	2.3	Axle loading unladen, front/rear	kg	2760/4835		2966/4652		
TYRES	3.1	Tyres, front/rear		Cushion				
	3.2	Tyre size, front		22x12x16				
	3.3	Tyre size, rear		18x8x12.1				
	3.5	Number of wheels, front/rear (X = driven)		2x / 2				
	3.6	Tread, front	b_{10} (mm)	1015				
	3.7	Tread, rear	b_{11} (mm)	1004				
DIMENSIONS	4.1	Tilt of mast/fork carriage forward/backward	α / β (°)	5 / 6				
	4.2	Height, mast lowered	h_1 (mm)	2135				
	4.3	Free lift [1]	h_2 (mm)	100				
	4.4	Lift [1]	h_3 (mm)	2740				
	4.5	Height, mast extended [2]	h_4 (mm)	3665				
	4.7	Height of overhead guard (cabin)	h_6 (mm)	2175				
	4.8	Seat height/stand height [3]	h_7 (mm)	1339				
	4.12	Coupling height	h_{10} (mm)	371				
	4.19	Overall length	l_1 (mm)	4061		3899		
	4.20	Length to face of forks	l_2 (mm)	2861		2699		
	4.21	Overall width (standard / wide)	b_1/b_2 (mm)	1320 / 1420				
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	60 / 150 / 1200				
	4.23	Fork carriage ISO 2328, class/type A, B		IVA				
	4.24	Fork carriage width [4]	b_3 (mm)	1070				
	4.31	Ground clearance, laden, below mast	m_1 (mm)	118				
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	156				
	4.33	Load dimension $b_{12} \times l_6$ crossways	$b_{12} \times l_6$ (mm)	1200 x 1000				
	4.34	Aisle width predetermined load dimensions [5]	Ast (mm)	4196		4037		
	4.34.1	Aisle width for pallets 1000 × 1200 crossways [5]	Ast (mm)	4396		4237		
	4.34.2	Aisle width for pallets 800 × 1200 crossways [5]	Ast (mm)	4396		4237		
	4.35	Turning radius	Wa (mm)	2534		2375		
	4.36	Internal turning radius	b_{13} (mm)	762				
	4.36.1	90° intersecting aisle (with pallet L = 1000mm x W = 1200mm)	(mm)	2211		2161		
	4.36.2	Step Height (from ground to running board)	(mm)	396				
	4.36.3	Step Height (between intermediate steps and floor)	(mm)	322				
PERFORMANCE	5.1	Travel speed, laden/unladen	km/h	17.7/18.1	21.6/22.1	17.7/18.1	21.6/22.1	
	5.1.1	Travel speed, laden/unladen, backwards	km/h	17.7/18.1				
	5.2	Lift speed, laden/unladen	m/s	0.56 / 0.57				
	5.3	Lowering speed, laden/unladen	m/s	0.51 / 0.42				
	5.5	Drawbar pull, laden/unladen [6]	N	34626/15999	41649/15999	34626/15999	41649/15999	
	5.7	Gradeability, laden/unladen [7]	%	28.2/17.7	34.5/17.7	28.2/17.7	34.5/17.7	
	5.9	Acceleration time, laden/unladen [8]	s	4.3/5.1	4.3/5.2	4.3/5.1	4.3/5.2	
	5.10	Service brake		Hydraulic				
ENGINE	7.1	Engine manufacturer/type		GM 4.3L				
	7.2	Engine power according to ISO 1585	kW	68				
	7.3	Rated speed	min–1	2400				
	7.3.1	Torque at 1/min	Nm/min–1	300/1000				
	7.4	Number of cylinders/displacement	cm3	4/3769				
	7.5	Fuel consumption according to VDI cycle	l/h or kg/h	4.9				
	7.10	Battery voltage/nominal capacity [9]	V/Ah	12 / 88				
OTHER	8.1	Type of drive unit		Hydrodynamic				
	10.1	Operating pressure for attachments	bar	155				
	10.2	Oil volume for attachments [10]	l/min	83.3				
	10.3	Hydraulic oil tank, capacity	l	76.6				
	10.4	Fuel tank, capacity	l	38.6				
	10.7	Sound pressure level at the driver's seat [11]	dB (A)	84				
	10.7.1	Sound power level during the workcycle [12]	dB (A)	102				
	10.7.2	Guaranteed sound power 2001/14/EC	dB (A)	106				
	10.8	Towing coupling, type DIN		Pin				

(7) 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

(8) To 15m (per VDI 2198 December 2012)

(9) Battery ampere hour (Ah) nominal capacity ratings are estimated

(10) Variable

(11) With and without cab

(12) LPAZ, Measured according to the test cycles and based on the weighting values contained in EN12053

All values are nominal values and they are subject to tolerances.

MAST DIMENSIONS – GC40 VX

h1 (mm)	h2+s (mm)	h3 (mm)	h4 (mm)	Tilt (Back)	Capacities (kg) @ 500mm Load Centre	
					Without sideshift (kg)	Integral sideshift (kg)
2-Stage Limited Free-Lift (LFL) Mast						
2135	150	3050	4225	6	4000	4000
2435	150	3650	4285	6	4000	4000
2735	150	4250	4885	6	4000	4000
2135	1350	3075	5485	6	4000	4000
2-Stage Full Free-Lift (FFL) Mast						
2134	1350	4415	4310	6	4000 (1)	3910 (1)
3-Stage Full Free-Lift (FFL) Mast						
2335	1550	4950	5650	6	3900 (1)	3790 (1)
2535	1750	5550	6185	6	3760 (1)	3380 (1)
2735	1950	6000	6785	6	3650 (1)	2720 (1)

(1) Wide tread is required

MAST DIMENSIONS – GC45 VX, GC55 VX, GC55 SVX

h1 (mm)	h2+s (mm)	h3 (mm)	h4 (mm)	Tilt (Back)	Capacities (kg) @ 600mm Load Centre					
					Without sideshift (kg)	Integral sideshift (kg)	Without sideshift (kg)	Integral sideshift (kg)	Without sideshift (kg)	Integral sideshift (kg)
2-Stage Limited Free-Lift (LFL) Mast										
2140	160	2800	4035	6	4500	4500	5500	5460	5500	5500
2440	160	3400	4635	6	4500	4500	5500	5450	5500	5500
2740	160	4000	5235	6	4500	4500	5500	5430	5500	5500
2-Stage Full Free-Lift (FFL) Mast										
2140	1230	2825	4060	6	4500	4500	5500	5450	5500	5500
2140	1225	4145	5380	6	4500 (1)	4430 (1)	5500 (1)	5260 (1)	5500 (1)	5320 (1)
2340	1425	4700	5935	6	4500 (1)	4410 (1)	5500 (1)	5250 (1)	5500 (1)	5300 (1)
2540	1625	5300	6535	6	4380 (1)	4290 (1)	5370 (1)	5100 (1)	5370 (1)	5170 (1)

(1) Wide tread is required

ENGINE SPECIFICATIONS – GCVX SERIES

	Kubota
Cylinders	4
Displacement	3.8 litre
Torque	300Nm @ 1,000rpm
Power	55kW @ 2,400rpm

All values are nominal values and they are subject to tolerances.

FEATURES LIST – GCVX SERIES

	STD	OPT
Premium monitoring package		●
Powertrain protection system	●	●
High air intake with pre-cleaner	●	●
Radiator screen		●
Traction speed limiter		●
Load weight indicator		●
Hydraulic accumulator		●
Return-to-set tilt		●
Impact monitor		●
Reverse alarm		●
Amber strobe light		●
Operator password		●
Keyless start		●
Full-suspension swivel seat	●	●
Foot directional control		●
Mirrors	●	●
Light kit		●
Swing-out, drop-down EZ-Tank bracket		●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About Yale®

Yale Materials Handling Corporation is one of the oldest manufacturers of lift trucks in the world. We've been in the business of lifting since 1875 and we apply that experience to help customers solve materials handling challenges. Our full line of lift trucks range in capacity from 1 to 16 tonne and are powered by internal combustion engines or electric options. Yale also offers robotic solutions, telemetry, fleet management, parts, financing and training. From traditional lift truck equipment to emerging technologies, our goal, every day, is to work with our nationwide dealer network to continually improve and provide the solutions you need, when and how you need them.

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Safety: All Yale products sold into EU countries, UK, and Turkey conform to the EU requirements of Machinery Directive 2006/42/EC and contain CE marking. Yale trucks sold into other countries may be ordered for production in conformance with Machinery Directive requirements, and when so ordered will contain CE marking.

Notice: Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual. Consult your Yale® Dealer if any of the information shown is critical to your application.

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