

# VX Series

## Diesel and LP Gas Forklift Trucks

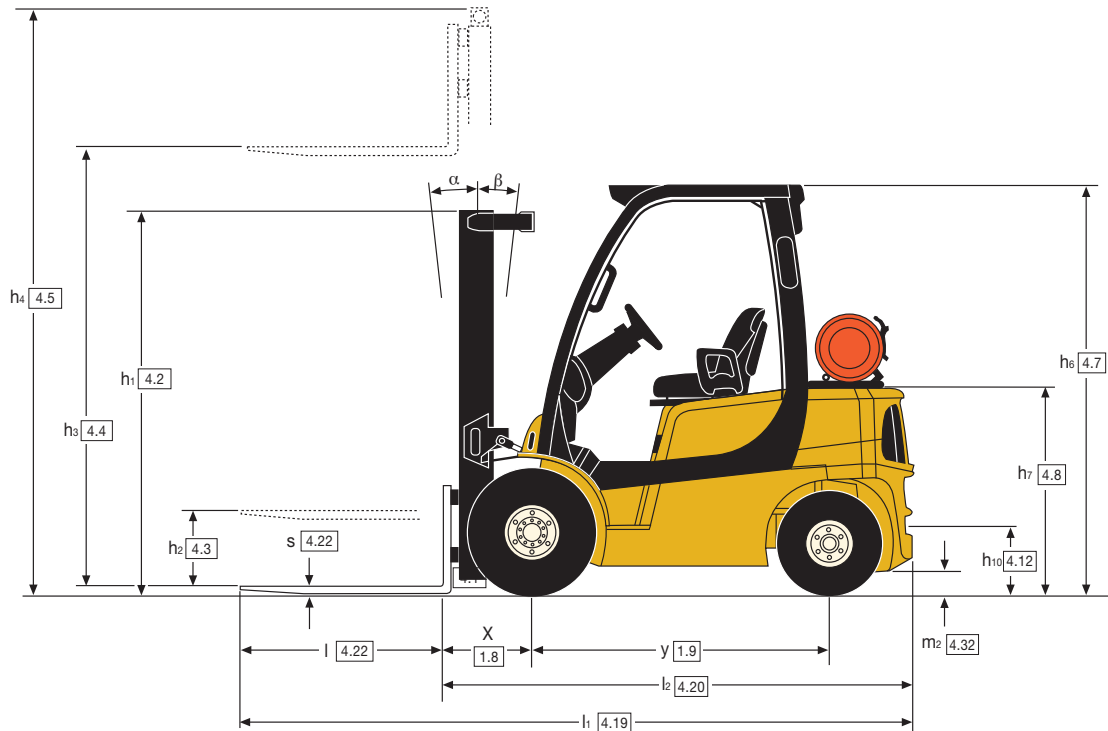
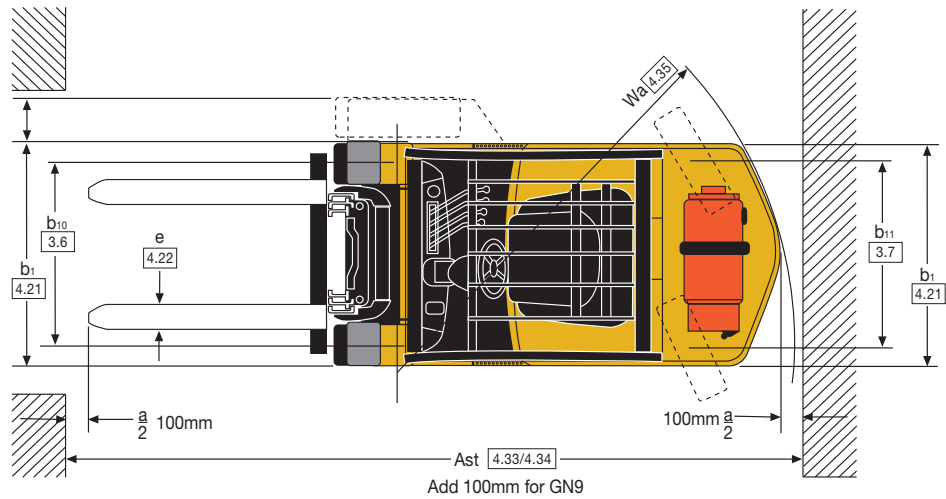
2,000kg, 2,500kg, 3,000kg and 3,500kg



- Intellix Vehicle Management System
- 3 application matched transmissions, including the World's best hydrodynamic transmission - the Yale Techtronix 200X
- Oil immersed brakes
- ADS - Auto Deceleration System on Techtronix 100 transmission
- Anti Roll Back
- CANbus technology
- Accutouch minilevers and manual levers
- Supercushion, pneumatic and Michelin XZM radial tyres

**Yale**<sup>®</sup>   
People. Products. Productivity.

## Truck Dimensions



## Engine Specifications

### Yanmar TNE series, Diesel

#### Base, Value, Productivity

4 Cylinder	Overhead valve
Displacement	2.6 litre
Torque	146 Nm @ 1,400rpm
Power	35.8kW @ 2,450rpm
Air filtration	Two stage, dry type
IDI fuel injection system	

### Yanmar TNE series, Diesel

#### Base, Value, Productivity

4 Cylinder	Overhead valve
Displacement	3.3 litre
Torque	210 Nm @ 1,700rpm
Power	48.5 kW @ 2,400rpm
Air filtration	Two stage, dry type
IDI fuel injection system	

### Mazda FE, LPG - Base

4 Cylinder	Overhead Camshaft
Displacement	2.0 litre
Torque	124 Nm @ 1,800rpm
Power	32.8 kW @ 2,700rpm
Air filtration	Two stage, dry type
Emission Control	Closed loop

### Mazda F2, LPG - Value

4 Cylinder	Overhead Camshaft
Displacement	2.2 litre
Torque	146 Nm @ 1,800rpm
Power	38 kW @ 2,700rpm
Air filtration	Two stage, dry type
Emission Control	Closed loop

### GM, LPG - Productivity

4 Cylinder	Overhead Camshaft
Displacement	2.4 litre
Torque	167 Nm @ 2,650rpm
Power	46.2 kW @ 2,700rpm
Air filtration	Two stage, dry type
Emission Control	Closed loop

## Options

- Powertrain protection system
- Premium monitoring package
- High air intake with pre-cleaner
- Accumulator
- Keyless start (with auxiliary key switch)
- Traction speed limiter
- Heavy-duty "Combi Cooler" radiator
- Swing-out, drop-down EZ-Tank bracket
- Return-to-set tilt
- Swivel full suspension seat
- Foot directional control
- Operator password
- Alarm-reverse
- Amber strobe light - continuous activated
- Impact monitor
- Load weight indicator
- Oil immersed brakes

A full range of Yale Hi-Vis™ 2 stg LFL and 2 and 3 stage FFL masts are available.

Yale Hi-Vis™ masts are designed for maximum visibility, with widely spaced channels, lift chains and main lift cylinders.

### Mast details and capacity ratings (kg) - Supercushion tyres

Model						GLP/GDP 20 VX						GLP/GDP 25 VX						
Tyres						7.00 x 12						7.00 x 12						
Width across tyres						1157mm						1157mm						
Mast	OAH h1	FFH h2+s	MFH h3+s	h4	Tilt		Forks			Integral side shift			Forks			Integral side shift		
					F	B	500	600	700	500	600	700	500	600	700	500	600	700
					LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC
2-Stg. LFL (V)	2170	140	3290	3904	6	5	2000	1920	1760	2000	1840	1690	2500	2380	2180	2500	2280	2100
	2420	140	3790	4404	6	5	2000	1910	1750	2000	1830	1680	2500	2370	2170	2500	2280	2090
	2770	140	4330	4944	6	5	2000	1900	1730	2000	1820	1670	2500	2350	2150	2480	2260	2070
2-Stg. FFL (F)	2170	1558	3300	3914	6	5	2000	1920	1760	2000	1850	1690	2500	2380	2180	2500	2290	2100
3-Stg. FFL (E)	1970	1382	4350	4938	6	5	2000	1880	1720	1980	1800	1650	2500	2380	2180	2500	2280	2090
	2170	1582	4950	5538	6	5	1880	1770	1610	1860	1680	1540	2380	2240	2060	2380	2150	1970
	2420	1832	5550	6138	6	5	1770	1630	1500	1720	1560	1430	2240*	2110*	1930*	2220*	2020*	1860*

\* With wide tread drive tyres (1317mm width) or dual drive tyres (1601mm width) - must be specified. h2 and h4 are without load backrest.

### Mast details and capacity ratings (kg) - Supercushion tyres

Model						GLP/GDP 30 VX						GLP/GDP 35 VX						
Tyres						7.00 x 12						7.00 x 12						
Width across tyres						1186mm						1186mm						
Mast	OAH h1	FFH h2+s	MFH h3+s	h4	Tilt		Forks			Integral side shift			Forks			Integral side shift		
					F	B	500	600	700	500	600	700	500	600	700	500	600	700
					LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC
2-Stg. LFL (V)	2195	150	3105	3809	6	5	3000	2820	2580	2960	2700	2480	3500	3030	3310	3490	3180	2910
	2445	150	3605	4309	6	5	3000	2810	2570	2950	2690	2470	3500	3020	3300	3480	3170	2910
	2795	150	4105	4809	6	5	3000	2790	2560	2930	2670	2450	3500	3010	3280	3460	3150	2890
2-Stg. FFL (F)	2195	1495	3110	3810	6	5	3000	2820	2580	2960	2700	2480	3500	3030	3310	3490	3170	2910
3-Stg. FFL (E)	1995	1319	4015	4694	6	5	3000	2800	2560	2930	2670	2450	3500	3010	3290	3450	3150	2890
	2195	1519	4615	5294	6	5	2900	2700	2470	2830	2590	2360	3400	2930	3200	3360	3040	2790
	2345	1669	4915	5594	6	5	2830	2630	2400	2740	2520	2310	3330*	2860*	3110*	3270*	2970*	2720*
	2445	1769	5215	5894	6	5	2740	2560	2340	2680	2450	2240	3240*	2770*	3040*	3170*	2900*	2650*

\* With wide tread drive tyres (1321mm width) or dual drive tyres (1601mm width) - must be specified. h2 and h4 without load backrest.

### Mast details and capacity ratings (kg) - Michelin XZM tyres

Model						GLP/GDP 20 VX						GLP/GDP 25 VX						
Tyres						7.00 x 12						7.00 x 12						
Width across tyres						1157mm						1157mm						
Mast	OAH h1	FFH h2+s	MFH h3+s	h4	Tilt		Forks			Integral side shift			Forks			Integral side shift		
					F	B	500	600	700	500	600	700	500	600	700	500	600	700
					LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC
2-Stg. LFL (V)	2170	140	3290	3904	6	5	2000	1920	1760	2000	1840	1690	2500	2380	2180	2500	2280	2100
	2420	140	3790	4404	6	5	2000	1910	1750	2000	1830	1680	2500	2370	2170	2500	2280	2090
	2770	140	4330	4944	6	5	2000	1900	1730	2000	1820	1670	2500	2350	2150	2480	2260	2070
2-Stg. FFL (F)	2170	1558	3300	3914	6	5	2000	1920	1760	2000	1850	1690	2500	2380	2180	2500	2290	2100
3-Stg. FFL (E)	1970	1382	4350	4938	6	5	2000	1880	1720	*1980	1800	1650	*2500	*2380	*2180	*2500	*2280	*2090
	2170	1582	4950	5538	6	5	*1880	*1770	*1610	*1860	*1680	*1540	*2380	*2240	*2060	*2380	*2150	*1970
	2420	1832	5550	6138	6	5	*1770	*1630	*1500	*1720	*1540	*1430	**2240	**2110	**1930	**2220	**2020	**1860

\* With wide tread drive tyres (1317mm width) or dual drive tyres (1601mm width) - must be specified. \*\*Dual drive tyres (1601mm width) must be specified. h2 and h4 are without load backrest.

### Mast details and capacity ratings (kg) - Michelin XZM tyres

Model						GLP/GDP 30 VX						GLP/GDP 35 VX						
Tyres						7.00 x 12						7.00 x 12						
Width across tyres						1186mm						1186mm						
Mast	OAH h1	FFH h2+s	MFH h3+s	h4	Tilt		Forks			Integral side shift			Forks			Integral side shift		
					F	B	500	600	700	500	600	700	500	600	700	500	600	700
					LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC
2-Stg. LFL (V)	2195	150	3105	3809	6	5	3000	2820	2580	2960	2700	2480	3500	3310	3030	3490	3180	2910
	2445	150	3605	4309	6	5	3000	2810	2570	2950	2690	2470	3500	3300	3020	3480	3170	2910
	2795	150	4105	4809	6	5	3000	2790	2560	2930	2670	2450	3500	3280	3010	3460	3150	2890
2-Stg. FFL (F)	2195	1495	3110	3810	6	5	3000	2820	2580	2960	2700	2480	3500	3310	3030	3490	3170	2910
3-Stg. FFL (E)	1995	1319	4015	4694	6	5	3000	2800	2560	2930	2670	2450	*3500	*3290	*3010	*3450	*3150	*2890
	2195	1519	4615	5294	6	5	*2900	*2700	*2470	*2830	*2590	*2360	*3400	*3170	*2930	*3330	*3040	*2790
	2345	1669	4915	5594	6	5	*2830	*2630	*2400	*2740	*2520	*2310	**3330	**3110	**2860	**3270	*2970	**2720
	2445	1769	5215	5894	6	5	*2720	*2560	*2340	*2680	*2430	*2240	**3270	**3040	**2790	**3170*	**2900	**2680

\* With wide tread drive tyres (1321mm width) or dual drive tyres (1601mm width) - must be specified. \*\*Dual drive tyres (1601mm width) must be specified. h2 and h4 without load backrest.

# VDI 2198 – General Specifications, Diesel Powered GDP20VX, GDP25VX

		Yale			
		GDP 20 VX			
Characteristics	1.1	Manufacturer			
	1.2	Model designation			
		Power Train - Engine Transmission	Yanmar 2.6L Standard Electronic	Yanmar 2.6L Techtronix 100	Yanmar 3.3L Techtronix 200X
		Model - Manufacturer Designation	Base	Value	Productivity
	1.3	Power: battery, diesel, LPG, electric mains	Diesel	Diesel	Diesel
	1.4	Operation: manual, pedestrian, stand, seat, order picker	Seat	Seat	Seat
	1.5	Load capacity	Q (kg)	2000	2000
	1.6	Load centre	c (mm)	500	500
	1.8	Load distance	x (mm)	471	471
1.9	Wheelbase	y (mm)	1623	1623	
Weights	2.1	Unladen weight	kg	3623	3623
	2.2	Axle loading laden, front/rear	kg	5046 / 577	5046 / 577
	2.3	Axle loading unladen, front/rear	kg	1850 / 1773	1850 / 1773
Wheels & Tyres	3.1	L = Pneumatic, V = Cushion, SE = Supercushion		SE	SE
	3.2	Tyre size-front		7.00 X 12 - 12	7.00 X 12 - 12
	3.3	Tyre size-rear		6.00 X 9	6.00 X 9
	3.5	Number of wheels, front/rear (X = driven)		2x / 2	2x / 2
	3.6	Track width, front	b10 (mm)	965	965
	3.7	Track width, rear	b11 (mm)	967	967
	Dimensions	4.1	Mast tilt, forward $\alpha$ /back $\beta$	degrees	6 / 5
4.2		Height of mast, lowered	h1 (mm)	2170	2170
4.3		Free lift ▲	h2 (mm)	100	100
4.4		Lift height ▲	h3 (mm)	3250	3250
4.5		Height of mast, extended †	h4 (mm)	3904	3904
4.7		Height to top of overhead guard ○	h6 (mm)	2160	2160
4.8		Seat height ✕	h7 (mm)	1061	1061
4.12		Towing coupling height	h10 (mm)	365	365
4.19		Overall length	l1 (mm)	3486	3486
4.20		Length to face of forks	l2 (mm)	2486	2486
4.21		Overall width, Std/Dual	b1/b2 (mm)	1157 / 1601	1157 / 1601
4.22		Fork dimensions	s/e/l (mm)	40 X 100 X 1000	40 X 100 X 1000
4.23		Fork carriage to DIN 15173. Class, A/B		II A	II A
4.24		Fork carriage width ▶	b3 (mm)	1067	1067
4.31		Ground clearance under mast, laden	m1 (mm)	107	107
4.32		Ground clearance at centre of wheelbase	m2 (mm)	160	160
4.33		Aisle width with pallets 1000mm long x 1200mm wide	Ast (mm)	3820	3820
4.34	Aisle width with pallets 800mm wide x 1200mm long	Ast (mm)	4020	4020	
4.35	Outer turning radius	Wa (mm)	2149	2149	
4.36	Inner turning radius	b13 (mm)	50	50	
Performance	5.1	Travel speed laden/unladen	km/h	16.9 / 18.0	16.9 / 18.0
	5.2	Lifting speed laden/unladen ❖	m/sec	0.66 / 0.71	0.62 / 0.65
	5.3	Lowering speed laden/unladen	m/sec	0.50 / 0.42	0.50 / 0.42
	5.5	Drawbar pull laden/unladen, @ 1.6km/h	N	17440 / 11570	17440 / 11570
		Drawbar pull laden/unladen, @ 4.8km/h	N	11600 / 11800	11600 / 11800
	5.6	Maximum drawbar pull laden/unladen	N	21204 / 11570	21204 / 11570
	5.7	Gradeability laden/unladen, @ 4.8km/h	%	21.3 / 34.2	21.3 / 34.2
	5.8	Maximum gradeability laden/unladen, @ 1.6km/h	%	33.2 / 34.2	33.2 / 34.2
	5.10	Service brake		Hydraulic	Hydraulic
	Motor	7.1	Engine manufacturer/type		Yanmar 4TNE92
7.2		Engine output, in accordance with ISO1585	kW	35.8	35.8
7.3		Governed speed	rpm	2700	2700
7.4		Number of cylinders/displacement	cm3	4 / 2659	4 / 2659
7.5		Fuel consumption in accordance with VDI cycle ❖	l/h	3.1	2.7
Other	8.1	Drive control		Hydrodynamic	Hydrodynamic
	8.2	Working pressure for attachments	bar	0 - 155	0 - 155
	8.3	Oil flow for attachments ↓	l/min	75	75
	8.4	Average noise level at operator's ear ★ ■	dB(A)	79	79
		Guaranteed sound power 2001/14/EC		102	102
8.5	Towing coupling type		Pin	Pin	

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

■ Noise levels are reduced by 3dB(A) on Value and Productivity models with ECO-eLo mode engaged.

↓ Variable.

▲ Top of forks.

✕ Full suspension seat in depressed position.

▶ Add 32mm with load backrest.

○ h6 subject to +/- 5mm tolerance. GDP20-25VX add 25mm when front tyre size 28 x 9-15 is selected.

† Without load backrest.

❖ For Base models supplied with mini-levers, fuel consumption figures (line 7.5) are as stated on the Value VDI table.

Yale					1.1	Characteristics
GDP 25 VX					1.2	
Yanmar 2.6L Standard Electronic	Yanmar 3.3L Standard Electronic	Yanmar 2.6L Techtronix 100	Yanmar 3.3L Techtronix 100	Yanmar 3.3L Techtronix 200X		
Base	Base	Value	Productivity	Productivity		
Diesel	Diesel	Diesel	Diesel	Diesel		1.3
Seat	Seat	Seat	Seat	Seat		1.4
2500	2500	2500	2500	2500		1.5
500	500	500	500	500		1.6
471	471	471	471	471		1.8
1623	1623	1623	1623	1623		1.9
3961	3961	3961	3961	3961		2.1
5775 / 686	5775 / 686	5775 / 686	5775 / 686	5775 / 686		2.2
1780 / 2181	1780 / 2181	1780 / 2181	1780 / 2181	1780 / 2181		2.3
SE	SE	SE	SE	SE		3.1
7.00 X 12 - 12	7.00 X 12 - 12	7.00 X 12 - 12	7.00 X 12 - 12	7.00 X 12 - 12		3.2
6.00 X 9	6.00 X 9	6.00 X 9	6.00 X 9	6.00 X 9		3.3
2x / 2	2x / 2	2x / 2	2x / 2	2x / 2		3.5
965	965	965	965	965		3.6
967	967	967	967	967		3.7
6 / 5	6 / 5	6 / 5	6 / 5	6 / 5		4.1
2170	2170	2170	2170	2170		4.2
100	100	100	100	100		4.3
3250	3250	3250	3250	3250		4.4
3904	3904	3904	3904	3904		4.5
2160	2160	2160	2160	2160		4.7
1061	1061	1061	1061	1061		4.8
365	365	365	365	365		4.12
3559	3559	3559	3559	3559		4.19
2559	2559	2559	2559	2559		4.20
1157 / 1601	1157 / 1601	1157 / 1601	1157 / 1601	1157 / 1601		4.21
40 X 100 X 1000	40 X 100 X 1000	40 X 100 X 1000	40 X 100 X 1000	40 X 100 X 1000		4.22
II A	II A	II A	II A	II A		4.23
1067	1067	1067	1067	1067		4.24
107	107	107	107	107		4.31
160	160	160	160	160		4.32
3887	3887	3887	3887	3887		4.33
4087	4087	4087	4087	4087		4.34
2216	2216	2216	2216	2216		4.35
50	50	50	50	50		4.36
16.9 / 18.0	18.2 / 19.3	16.9 / 18.0	18.2 / 19.3	21.1 / 21.4		5.1
0.61 / 0.71	0.68 / 0.68	0.59 / 0.65	0.63 / 0.63	0.63 / 0.63		5.2
0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42		5.3
17440 / 11450	21640 / 11450	17440 / 11450	21640 / 11450	21805 / 11450		5.5
11800 / 11100	24248 / 11450	19389 / 11450	16500 / 16500	20900 / 19600		
19389 / 11450	16500 / 16500	11800 / 11100	24248 / 11450	21805 / 11450		5.6
21.0 / 29.3	26.0 / 29.3	21.0 / 29.3	26.0 / 29.3	33.8 / 29.3		5.7
27.7 / 29.3	35.1 / 29.3	27.7 / 29.3	35.1 / 29.3	35.4 / 29.3		5.8
Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic		5.10
Yanmar 4TNE92	Yanmar 4TNE98	Yanmar 4TNE92	Yanmar 4TNE98	Yanmar 4TNE98		7.1
35.8	48.5	35.8	48.5	48.5		7.2
2700	2600	2700	2600	2600		7.3
4 / 2659	4 / 3319	4 / 2659	4 / 3319	4 / 3319		7.4
3.4	3.7	3.0	3.3	3.3		7.5
Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic		8.1
0 - 155	0 - 155	0 - 155	0 - 155	0 - 155		8.2
75	75	75	75	75		8.3
79	79	79	79	79		8.4
102	102	102	102	102		
Pin	Pin	Pin	Pin	Pin		8.5

❖ For Value trucks supplied with manual levers, the values for lifting speeds (line 5.2) and fuel consumption (line 7.5) are as stated on the Base VDI table.

**Base specification sheet truck based on:**  
3290mm (GDP20/25VX) Top of Forks 2 stage LFL  
Standard carriage, 1000mm forks and manual levers.

**Value and Productivity specification sheet truck based on:**  
3290mm (GDP20/25VX) Top of Forks 2 stage LFL  
Standard carriage, 1000mm forks and e-hydraulics.

# VDI 2198 – General Specifications, Diesel Powered GDP30VX, GDP35VX

		Yale				
Characteristics	1.1	Manufacturer				
	1.2	Model designation			<b>GDP 30 VX</b>	
		Power Train - Engine Transmission		Yanmar 2.6L Standard Electronic	Yanmar 3.3L Standard Electronic	Yanmar 2.6L Techtronix 100
		Model - Manufacturer Designation		Base	Base	Value
	1.3	Power: battery, diesel, LPG, electric mains		Diesel	Diesel	Diesel
	1.4	Operation: manual, pedestrian, stand, seat, order picker		Seat	Seat	Seat
	1.5	Load capacity	Q (kg)	3000	3000	3000
	1.6	Load centre	c (mm)	500	500	500
	1.8	Load distance	x (mm)	478	478	478
1.9	Wheelbase	y (mm)	1623	1623	1623	
Weights	2.1	Unladen weight	kg	4437	4437	4437
	2.2	Axle loading laden, front/rear	kg	6662 / 775	6662 / 775	6662 / 775
	2.3	Axle loading unladen, front/rear	kg	1845 / 2592	1845 / 2592	1845 / 2592
Wheels & Tyres	3.1	L = Pneumatic, V = Cushion, SE = Supercushion		SE	SE	SE
	3.2	Tyre size-front		28 X 9 - 15	28 X 9 - 15	28 X 9 - 15
	3.3	Tyre size-rear		6.50 X 10	6.50 X 10	6.50 X 10
	3.5	Number of wheels, front/rear (X = driven)		2x / 2	2x / 2	2x / 2
	3.6	Track width, front	b10 (mm)	965	965	965
	3.7	Track width, rear	b11 (mm)	967	967	967
	Dimensions	4.1	Mast tilt, forward $\alpha$ /back $\beta$	degrees	6 / 5	6 / 5
4.2		Height of mast, lowered	h1 (mm)	2195	2195	2195
4.3		Free lift ▲	h2 (mm)	100	100	100
4.4		Lift height ▲	h3 (mm)	3055	3055	3055
4.5		Height of mast, extended †	h4 (mm)	3809	3809	3809
4.7		Height to top of overhead guard ○	h6 (mm)	2185	2185	2185
4.8		Seat height ✕	h7 (mm)	1086	1086	1086
4.12		Towing coupling height	h10 (mm)	390	390	390
4.19		Overall length	l1 (mm)	3633	3633	3633
4.20		Length to face of forks	l2 (mm)	2633	2633	2633
4.21		Overall width, Standard/Dual	b1/b2 (mm)	1186 / 1601	1186 / 1601	1186 / 1601
4.22		Fork dimensions	s/e/l (mm)	50 X 120 X 1000	51 X 120 X 1000	52 X 120 X 1000
4.23		Fork carriage to DIN 15173. Class, A/B		III A	III A	III A
4.24		Fork carriage width ▶	b3 (mm)	1067	1067	1067
4.31		Ground clearance under mast, laden	m1 (mm)	132	132	132
4.32		Ground clearance at centre of wheelbase	m2 (mm)	185	185	185
4.33	Aisle width with pallets 1000mm long x 1200mm wide	Ast (mm)	3955	3955	3955	
4.34	Aisle width with pallets 800mm wide x 1200mm long	Ast (mm)	4155	4155	4155	
4.35	Outer turning radius	Wa (mm)	2277	2277	2277	
4.36	Inner turning radius	b13 (mm)	25	25	25	
Performance	5.1	Travel speed laden/unladen	km/h	18.2 / 19.1	20.0 / 21.1	18.2 / 19.2
	5.2	Lifting speed laden/unladen ❖	m/sec	0.47 / 0.62	0.51 / 0.57	0.55 / 0.55
	5.3	Lowering speed laden/unladen	m/sec	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42
	5.5	Drawbar pull laden/unladen, @ 1.6km/h	N	16354 / 11708	21556 / 13154	16354 / 11708
		Drawbar pull laden/unladen, @ 4.8km/h	N	11100 / 11600	16200 / 16500	11100 / 11600
	5.6	Maximum drawbar pull laden/unladen	N	19291 / 11708	24164 / 13154	19291 / 11708
	5.7	Gradeability laden/unladen, @ 4.8km/h	%	15.0 / 26.6	23.0 / 30.2	15.0 / 26.6
	5.8	Maximum gradeability laden/unladen, @ 1.6km/h	%	22.6 / 26.6	30.3 / 30.2	22.6 / 26.6
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
	Motor	7.1	Engine manufacturer/type		Yanmar 4TNE92	Yanmar 4TNE98
7.2		Engine output, in accordance with ISO1585	kW	35.8	48.5	35.8
7.3		Governed speed	rpm	2700	2600	2700
7.4		Number of cylinders/displacement	cm3	4 / 2659	4 / 3319	4 / 2659
7.5		Fuel consumption in accordance with VDI cycle ❖	l/h	3.8	3.3	4.3
Other	8.1	Drive control		Hydrodynamic	Hydrodynamic	Hydrodynamic
	8.2	Working pressure for attachments	bar	0 - 155	0 - 155	0 - 155
	8.3	Oil flow for attachments †	l/min	75	75	75
	8.4	Average noise level at operator's ear ★ ■	dB(A)	79	79	79
		Guaranteed sound power 2001/14/EC		102	102	102
8.5	Towing coupling type		Pin	Pin	Pin	

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

■ Noise levels are reduced by 3dB(A) on Value and Productivity models with ECO-eLo mode engaged.

† Variable.

▲ Top of forks.

✕ Full suspension seat in depressed position.

▶ Add 32mm with load backrest.

○ h6 subject to +/- 5mm tolerance.

† Without load backrest.

❖ For Base models supplied with mini-levers, fuel consumption figures (line 7.5) are as stated on the Value VDI table.

		Yale			1.1	
		GDP 35 VX			1.2	
Yanmar 3.3L Techtronix 100	Yanmar 3.3L Techtronix 200X	Yanmar 3.3L Standard Electronic	Yanmar 3.3L Techtronix 100	Yanmar 3.3L Techtronix 200X		
Productivity	Productivity	Base	Value / Productivity	Productivity		Characteristics
Diesel	Diesel	Diesel	Diesel	Diesel		1.3
Seat	Seat	Seat	Seat	Seat		1.4
3000	3000	3500	3500	3500		1.5
500	500	500	500	500		1.6
478	478	478	478	478		1.8
1623	1623	1700	1700	1700		1.9
4437	4437	4754	4754	4754		2.1
6662 / 775	6662 / 775	7336 / 928	7336 / 928	7336 / 928		2.2
1845 / 2592	1845 / 2592	1804 / 2950	1804 / 2950	1804 / 2950		2.3
SE	SE	SE	SE	SE		3.1
28 X 9 - 15	28 X 9 - 15	28 X 9 - 15	28 X 9 - 15	28 X 9 - 15		3.2
6.50 X 10	6.50 X 10	6.50 X 10	6.50 X 10	6.50 X 10		3.3
2x / 2	2x / 2	2x / 2	2x / 2	2x / 2		3.5
965	965	965	965	965		3.6
967	967	967	967	967		3.7
6 / 5	6 / 5	6 / 5	6 / 5	6 / 5		4.1
2195	2195	2195	2195	2195		4.2
100	100	100	100	100		4.3
3055	3055	3055	3055	3055		4.4
3809	3809	3809	3809	3809		4.5
2185	2185	2185	2185	2185		4.7
1086	1086	1086	1086	1086		4.8
390	390	390	390	390		4.12
3633	3633	3734	3734	3734		4.19
2633	2633	2734	2734	2734		4.20
1186 / 1601	1186 / 1601	1186 / 1601	1186 / 1601	1186 / 1601		4.21
53 X 120 X 1000	54 X 120 X 1000	55 X 120 X 1000	56 X 120 X 1000	57 X 120 X 1000		4.22
III A	III A	III A	III A	III A		4.23
1067	1067	1067	1067	1067		4.24
132	132	132	132	132		4.31
185	185	185	185	185		4.32
3955	3955	4058	4058	4058		4.33
4155	4155	4258	4258	4258		4.34
2277	2277	2380	2380	2380		4.35
25	25	54	54	54		4.36
20.0 / 21.1	22.4 / 22.7	20.0 / 21.1	20.0 / 21.1	22.4 / 22.7		5.1
0.55 / 0.55	0.55 / 0.55	0.60 / 0.60	0.55 / 0.55	0.55 / 0.55		5.2
0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42		5.3
21556 / 13154	21805 / 11708	21485 / 11708	21485 / 11708	21805 / 12594		5.5
16200 / 16500	19600 / 19400	16500 / 16500	16500 / 16500	19100 / 19400		5.6
24164 / 13154	21805 / 11708	24079 / 11708	24079 / 11708	21805 / 12594		5.7
23.0 / 30.2	26.1 / 26.6	20.2 / 26.6	20.2 / 26.6	24.0 / 26.9		5.8
30.3 / 30.2	30.4 / 26.6	30.5 / 26.6	30.5 / 26.6	27.3 / 26.9		5.8
Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic		5.10
Yanmar 4TNE98	Yanmar 4TNE98	Yanmar 4TNE98	Yanmar 4TNE98	Yanmar 4TNE98		7.1
48.5	48.5	48.5	48.5	48.5		7.2
2600	2600	2600	2600	2600		7.3
4 / 3319	4 / 3319	4 / 3319	4 / 3319	4 / 3319		7.4
3.8	3.6	4.8	4.3	4.0		7.5
Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic		8.1
0 - 155	0 - 155	0 - 155	0 - 155	0 - 155		8.2
75	75	75	75	75		8.3
79	79	79	79	79		8.4
102	102	102	102	102		8.4
Pin	Pin	Pin	Pin	Pin		8.5

❖ For Value trucks supplied with manual levers, the values for lifting speeds (line 5.2) and fuel consumption (line 7.5) are as stated on the Base VDI table.

**Base specification sheet truck based on:**  
3105mm (GDP30/35VX) Top of Forks 2 stage LFL  
Standard carriage, 1000mm forks and manual levers.

**Value and Productivity specification sheet truck based on:**  
3105mm (GDP30/35VX) Top of Forks 2 stage LFL  
Standard carriage, 1000mm forks and e-hydraulics.

# VDI 2198 – General Specifications, LPG Powered GLP20VX, GLP25VX

		Yale				
		GLP 20 VX				
Characteristics	1.1	Manufacturer				
	1.2	Model designation				
		Power Train - Engine Transmission		Mazda 2.0L Standard Electronic	Mazda 2.2L Standard Electronic	Mazda 2.2L Techtronix 100
		Model - Manufacturer Designation		Base	Base	Value
	1.3	Power: battery, diesel, LPG, electric mains		LPG	LPG	LPG
	1.4	Operation: manual, pedestrian, stand, seat, order picker		Seat	Seat	Seat
	1.5	Load capacity	Q (kg)	2000	2000	2000
	1.6	Load centre	c (mm)	500	500	500
	1.8	Load distance	x (mm)	471	471	471
	1.9	Wheelbase	y (mm)	1623	1623	1623
Weights	2.1	Unladen weight	kg	3515	3515	3515
	2.2	Axle loading laden, front/rear	kg	5003 / 512	5003 / 512	5003 / 512
	2.3	Axle loading unladen, front/rear	kg	1807 / 1708	1807 / 1708	1807 / 1708
Wheels & Tyres	3.1	L = Pneumatic, V = Cushion, SE = Supercushion		SE	SE	SE
	3.2	Tyre size-front		7.00 X 12 - 12	7.00 X 12 - 12	7.00 X 12 - 12
	3.3	Tyre size-rear		6.00 X 9	6.00 X 9	6.00 X 9
	3.5	Number of wheels, front/rear (X = driven)		2x / 2	2x / 2	2x / 2
	3.6	Track width, front	b10 (mm)	965	965	965
	3.7	Track width, rear	b11 (mm)	967	967	967
	Dimensions	4.1	Mast tilt, forward $\alpha$ /back $\beta$	degrees	6 / 5	6 / 5
4.2		Height of mast, lowered	h1 (mm)	2170	2170	2170
4.3		Free lift ▲	h2 (mm)	100	100	100
4.4		Lift height ▲	h3 (mm)	3250	3250	3250
4.5		Height of mast, extended ✚	h4 (mm)	3904	3904	3904
4.7		Height to top of overhead guard ○	h6 (mm)	2160	2160	2160
4.8		Seat height ✕	h7 (mm)	1061	1061	1061
4.12		Towing coupling height	h10 (mm)	365	365	365
4.19		Overall length	l1 (mm)	3486	3486	3486
4.20		Length to face of forks	l2 (mm)	2486	2486	2486
4.21		Overall width, Std/Dual	b1/b2 (mm)	1157 / 1601	1157 / 1601	1157 / 1601
4.22		Fork dimensions	s/e/l (mm)	40 X 100 X 1000	40 X 100 X 1000	40 X 100 X 1000
4.23		Fork carriage to DIN 15173. Class, A/B		II A	II A	II A
4.24		Fork carriage width ▶	b3 (mm)	1067	1067	1067
4.31		Ground clearance under mast, laden	m1 (mm)	107	107	107
4.32		Ground clearance at centre of wheelbase	m2 (mm)	160	160	160
4.33		Aisle width with pallets 1000mm long x 1200mm wide	Ast (mm)	3820	3820	3820
4.34		Aisle width with pallets 800mm wide x 1200mm long	Ast (mm)	4020	4020	4020
4.35		Outer turning radius	Wa (mm)	2149	2149	2149
4.36	Inner turning radius	b13 (mm)	50	50	50	
Performance	5.1	Travel speed laden/unladen	km/h	17.1 / 18.0	17.1 / 18.0	17.1 / 18.0
	5.2	Lifting speed laden/unladen ✦	m/sec	0.56 / 0.57	0.56 / 0.57	0.56 / 0.57
	5.3	Lowering speed laden/unladen	m/sec	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42
	5.5	Drawbar pull laden/unladen, @ 1.6km/h	N	13991 / 12082	16937 / 12082	16937 / 12082
		Drawbar pull laden/unladen, @ 4.8km/h	N	17257 / 12082	11200 / 11200	11200 / 11200
	5.6	Maximum drawbar pull laden/unladen	N	8800 / 8900	20510 / 12082	20510 / 12082
	5.7	Gradeability laden/unladen, @ 4.8km/h	%	15.0 / 24.5	19.0 / 29.8	19.0 / 29.8
	5.8	Maximum gradeability laden/unladen, @ 1.6km/h	%	25.3 / 34.2	31.1 / 34.2	31.1 / 34.2
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
	Motor	7.1	Engine manufacturer/type		Mazda FE	Mazda F2
7.2		Engine output, in accordance with ISO1585	kW	32.8	38.0	38.0
7.3		Governed speed	rpm	2700	2700	2700
7.4		Number of cylinders/displacement	cm3	4 / 1998	4 / 2184	4 / 2184
7.5		Fuel consumption in accordance with VDI cycle ✦	kg/h	2.8	2.8	2.5
Other	8.1	Drive control		Hydrodynamic	Hydrodynamic	Hydrodynamic
	8.2	Working pressure for attachments	bar	0 - 155	0 - 155	0 - 155
	8.3	Oil flow for attachments ↓	l/min	62	62	62
	8.4	Average noise level at operator's ear ★ ■	dB(A)	79	79	79
		Guaranteed sound power 2001/14/EC		102	102	102
8.5	Towing coupling type		Pin	Pin	Pin	

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

■ Noise levels are reduced by 3dB(A) on Value and Productivity models with ECO-eLo mode engaged.

↓ Variable.

▲ Top of forks.

✕ Full suspension seat in depressed position.

▶ Add 32mm with load backrest.

○ h6 subject to +/- 5mm tolerance. GLP20-25VX add 25mm when front tyre size 28 x 9-15 is selected.

✚ Without load backrest.

✦ For Base models supplied with mini-levers, fuel consumption figures (line 7.5) are as stated on the Value VDI table.



		Yale					1.1	Characteristics
		GLP 25 VX					1.2	
GM 2.4L Techtronix 100	GM 2.4L Techtronix 200X	Mazda 2.0L Standard Electronic	Mazda 2.2L Standard Electronic	Mazda 2.2L Techtronix 100	GM 2.4L Techtronix 100	GM 2.4L Techtronix 200X		
Productivity	Productivity	Base	Base	Value	Productivity	Productivity		
LPG	LPG	LPG	LPG	LPG	LPG	LPG	1.3	
Seat	Seat	Seat	Seat	Seat	Seat	Seat	1.4	
2000	2000	2500	2500	2500	2500	2500	1.5	
500	500	500	500	500	500	500	1.6	
471	471	471	471	471	471	471	1.8	
1623	1623	1623	1623	1623	1623	1623	1.9	
3515	3515	3853	3853	3853	3853	3853	2.1	
5003 / 512	5003 / 512	5732 / 621	5732 / 621	5732 / 621	5732 / 621	5732 / 621	2.2	
1807 / 1708	1807 / 1708	1737 / 2116	1737 / 2116	1737 / 2116	1737 / 2116	1737 / 2116	2.3	
SE	SE	SE	SE	SE	SE	SE	3.1	
7.00 X 12 - 12	7.00 X 12 - 12	7.00 X 12 - 12	7.00 X 12 - 12	7.00 X 12 - 12	7.00 X 12 - 12	7.00 X 12 - 12	3.2	
6.00 X 9	6.00 X 9	6.00 X 9	6.00 X 9	6.00 X 9	6.00 X 9	6.00 X 9	3.3	
2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	3.5	
965	965	965	965	965	965	965	3.6	
967	967	967	967	967	967	967	3.7	
6 / 5	6 / 5	6 / 5	6 / 5	6 / 5	6 / 5	6 / 5	4.1	
2170	2170	2170	2170	2170	2170	2170	4.2	
100	100	100	100	100	100	100	4.3	
3250	3250	3250	3250	3250	3250	3250	4.4	
3904	3904	3904	3904	3904	3904	3904	4.5	
2160	2160	2160	2160	2160	2160	2160	4.7	
1061	1061	1061	1061	1061	1061	1061	4.8	
365	365	365	365	365	365	365	4.12	
3486	3486	3559	3559	3559	3559	3559	4.19	
2486	2486	2559	2559	2559	2559	2559	4.20	
1157 / 1601	1157 / 1601	1157 / 1601	1157 / 1601	1157 / 1601	1157 / 1601	1157 / 1601	4.21	
40 X 100 X 1000	40 X 100 X 1000	40 X 100 X 1000	40 X 100 X 1000	40 X 100 X 1000	40 X 100 X 1000	40 X 100 X 1000	4.22	
II A	II A	II A	II A	II A	II A	II A	4.23	
1067	1067	1067	1067	1067	1067	1067	4.24	
107	107	107	107	107	107	107	4.31	
160	160	160	160	160	160	160	4.32	
3820	3820	3887	3887	3887	3887	3887	4.33	
4020	4020	4087	4087	4087	4087	4087	4.34	
2149	2149	2216	2216	2216	2216	2216	4.35	
50	50	50	50	50	50	50	4.36	
17.5 / 18.7	18.7 / 19.6	17.1 / 18.0	17.1 / 18.0	17.1 / 18.0	17.5 / 18.7	18.7 / 19.6	5.1	
0.60 / 0.61	0.60 / 0.61	0.54 / 0.57	0.56 / 0.57	0.56 / 0.57	0.60 / 0.61	0.60 / 0.61	5.2	
0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	5.3	
19647 / 12082	21805 / 11450	13848 / 11450	16857 / 11450	16857 / 11450	19033 / 11450	21805 / 11450	5.5	
13300 / 14200	16500 / 12500	8450 / 8900	10700 / 11100	10700 / 11100	12900 / 13300	15800 / 16500		
23211 / 12082	21805 / 11450	16020 / 11450	19082 / 11450	19082 / 11450	22028 / 11450	21805 / 11450	5.6	
24.0 / 34.2	30.0 / 34.2	13.0 / 22.0	16.0 / 29.0	16.0 / 29.0	21.0 / 29.3	25.0 / 29.3	5.7	
37.0 / 34.2	41.0 / 34.2	21.7 / 29.3	26.7 / 29.3	26.7 / 29.3	28.0 / 29.3	35.4 / 29.3	5.8	
Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	5.10	
GM 2.4L	GM 2.4L	Mazda FE	Mazda F2	Mazda F2	GM 2.4L	GM 2.4L	7.1	
46.2	46.2	32.8	38.0	38.0	46.2	46.2	7.2	
2700	2700	2700	2700	2700	2700	2700	7.3	
4 / 2400	4 / 2400	4 / 1998	4 / 2184	4 / 2184	4 / 2400	4 / 2400	7.4	
2.6	2.7	3.2	3.2	2.9	2.8	2.9	7.5	
Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	8.1	
0 - 155	0 - 155	0 - 155	0 - 155	0 - 155	0 - 155	0 - 155	8.2	
66	66	62	62	62	66	66	8.3	
80	80	79	79	79	80	80	8.4	
105	105	102	102	102	105	105		
Pin	Pin	Pin	Pin	Pin	Pin	Pin	8.5	

❖ For Value trucks supplied with manual levers, the values for lifting speeds (line 5.2) and fuel consumption (line 7.5) are as stated on the Base VDI table.

**Base specification sheet truck based on:**  
3290mm (GLP20/25VX) Top of Forks 2 stage LFL  
Standard carriage, 1000mm forks and manual levers.

**Value and Productivity specification sheet truck based on:**  
3290mm (GLP20/25VX) Top of Forks 2 stage LFL  
Standard carriage, 1000mm forks and e-hydraulics.

# VDI 2198 – General Specifications, LPG Powered GLP30VX, GLP35VX

		Yale				
		GLP 30 VX				
		Mazda 2.0L Standard Electronic	Mazda 2.2L Standard Electronic	Mazda 2.2L Techtronix 100		
		Base	Base	Value		
Characteristics	1.1	Manufacturer				
	1.2	Model designation				
		Power Train - Engine Transmission				
		Model - Manufacturer Designation				
	1.3	Power: battery, diesel, LPG, electric mains	LPG	LPG	LPG	
	1.4	Operation: manual, pedestrian, stand, seat, order picker	Seat	Seat	Seat	
	1.5	Load capacity	Q (kg)	3000	3000	
	1.6	Load centre	c (mm)	500	500	
	1.8	Load distance	x (mm)	478	478	
1.9	Wheelbase	y (mm)	1623	1623		
Weights	2.1	Unladen weight	kg	4329	4329	4329
	2.2	Axle loading laden, front/rear	kg	6619 / 710	6619 / 710	6619 / 710
	2.3	Axle loading unladen, front/rear	kg	1802 / 2527	1802 / 2527	1802 / 2527
Wheels & Tyres	3.1	L = Pneumatic, V = Cushion, SE = Supercushion		SE	SE	SE
	3.2	Tyre size-front		28 X 9 - 15	28 X 9 - 15	28 X 9 - 15
	3.3	Tyre size-rear		6.50 X 10	6.50 X 10	6.50 X 10
	3.5	Number of wheels, front/rear (X = driven)		2x / 2	2x / 2	2x / 2
	3.6	Track width, front	b10 (mm)	965	965	965
	3.7	Track width, rear	b11 (mm)	967	967	967
	Dimensions	4.1	Mast tilt, forward $\alpha$ /back $\beta$	degrees	6 / 5	6 / 5
4.2		Height of mast, lowered	h1 (mm)	2195	2195	2195
4.3		Free lift ▲	h2 (mm)	100	100	100
4.4		Lift height ▲	h3 (mm)	3055	3055	3055
4.5		Height of mast, extended ✚	h4 (mm)	3809	3809	3809
4.7		Height to top of overhead guard ○	h6 (mm)	2185	2185	2185
4.8		Seat height ✕	h7 (mm)	1086	1086	1086
4.12		Towing coupling height	h10 (mm)	390	390	390
4.19		Overall length	l1 (mm)	3633	3633	3633
4.20		Length to face of forks	l2 (mm)	2633	2633	2633
4.21		Overall width, Std/Dual	b1/b2 (mm)	1186 / 1601	1186 / 1601	1186 / 1601
4.22		Fork dimensions	s/e/l (mm)	50 X 120 X 1000	51 X 120 X 1000	52 X 120 X 1000
4.23		Fork carriage to DIN 15173. Class, A/B		III A	III A	III A
4.24		Fork carriage width ▶	b3 (mm)	1067	1067	1067
4.31		Ground clearance under mast, laden	m1 (mm)	132	132	132
4.32		Ground clearance at centre of wheelbase	m2 (mm)	185	185	185
4.33	Aisle width with pallets 1000mm long x 1200mm wide	Ast (mm)	3955	3955	3955	
4.34	Aisle width with pallets 800mm wide x 1200mm long	Ast (mm)	4155	4155	4155	
4.35	Outer turning radius	Wa (mm)	2277	2277	2277	
4.36	Inner turning radius	b13 (mm)	25	25	25	
Performance	5.1	Travel speed laden/unladen	km/h	18.0 / 19.1	18.0 / 19.1	18.0 / 19.1
	5.2	Lifting speed laden/unladen ✦	m/sec	0.45 / 0.50	0.49 / 0.50	0.48 / 0.49
	5.3	Lowering speed laden/unladen	m/sec	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42
	5.5	Drawbar pull laden/unladen, @ 1.6km/h	N	12950 / 11708	16274 / 11708	16274 / 11708
		Drawbar pull laden/unladen, @ 4.8km/h	N	8100 / 8500	10500 / 11100	10500 / 11100
	5.6	Maximum drawbar pull laden/unladen	N	15851 / 11708	18913 / 11708	18913 / 11708
	5.7	Gradeability laden/unladen, @ 4.8km/h	%	11.0 / 19.0	14.0 / 25.0	14.0 / 25.0
	5.8	Maximum gradeability laden/unladen, @ 1.6km/h	%	17.6 / 26.6	21.5 / 26.6	21.5 / 26.6
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
	Motor	7.1	Engine manufacturer/type		Mazda FE	Mazda F2
7.2		Engine output, in accordance with ISO1585	kW	32.8	38.0	38.0
7.3		Governed speed	rpm	2700	2700	2700
7.4		Number of cylinders/displacement	cm3	4 / 1998	4 / 2184	4 / 2184
7.5		Fuel consumption in accordance to VDI cycle ✦	kg/h	3.7	3.5	3.2
Other	8.1	Drive control		Hydrodynamic	Hydrodynamic	Hydrodynamic
	8.2	Working pressure for attachments	bar	0 - 155	0 - 155	0 - 155
	8.3	Oil flow for attachments ↓	l/min	62	62	62
	8.4	Average noise level at operator's ear ★ ■	dB(A)	79	79	79
		Guaranteed sound power 2001/14/EC		102	102	102
8.5	Towing coupling type		Pin	Pin	Pin	

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

■ Noise levels are reduced by 3dB(A) on Value and Productivity models with ECO-eLo mode engaged.

↓ Variable.

▲ Top of forks.

✕ Full suspension seat in depressed position.

▶ Add 32mm with load backrest.

○ h6 subject to +/- 5mm tolerance.

✚ Without load backrest.

✦ For Base models supplied with mini-levers, fuel consumption figures (line 7.5) are as stated on the Value VDI table.

		Yale				1.1	Characteristics
		GLP 35 VX				1.2	
GM 2.4L Techtronix 100	GM 2.4L Techtronix 200X	Mazda 2.2L Standard Electronic	Mazda 2.2L Techtronix 100	GM 2.4L Techtronix 100	GM 2.4L Techtronix 200X		
Productivity	Productivity	Base	Value	Productivity	Productivity		
LPG	LPG	LPG	LPG	LPG	LPG	1.3	
Seat	Seat	Seat	Seat	Seat	Seat	1.4	
3000	3000	3500	3500	3500	3500	1.5	
500	500	500	500	500	500	1.6	
478	478	478	478	478	478	1.8	
1623	1623	1700	1700	1700	1700	1.9	
4329	4329	4646	4646	4646	4646	2.1	
6619 / 710	6619 / 710	7283 / 683	7283 / 683	7283 / 683	7283 / 683	2.2	
1802 / 2527	1802 / 2527	1761 / 2885	1761 / 2885	1761 / 2885	1761 / 2885	2.3	
SE	SE	SE	SE	SE	SE	3.1	
28 X 9 - 15	28 X 9 - 15	28 X 9 - 15	28 X 9 - 15	28 X 9 - 15	28 X 9 - 15	3.2	
6.50 X 10	6.50 X 10	6.50 X 10	6.50 X 10	6.50 X 10	6.50 X 10	3.3	
2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	3.5	
965	965	965	965	965	965	3.6	
967	967	967	967	967	967	3.7	
6 / 5	6 / 5	6 / 5	6 / 5	6 / 5	6 / 5	4.1	
2195	2195	2195	2195	2195	2195	4.2	
100	100	100	100	150	150	4.3	
3055	3055	3055	3055	100	100	4.4	
3809	3809	3809	3809	3055	3055	4.5	
2185	2185	2185	2185	2185	2185	4.7	
1086	1086	1086	1086	1086	1086	4.8	
390	390	390	390	390	390	4.12	
3633	3633	3734	3734	3734	3734	4.19	
2633	2633	2734	2734	2734	2734	4.20	
1186 / 1601	1186 / 1601	1186 / 1601	1186 / 1601	1186 / 1601	1186 / 1601	4.21	
53 X 120 X 1000	54 X 120 X 1000	55 X 120 X 1000	56 X 120 X 1000	57 X 120 X 1000	58 X 120 X 1000	4.22	
III A	III A	III A	III A	III A	III A	4.23	
1067	1067	1067	1067	1067	1067	4.24	
132	132	132	132	132	132	4.31	
185	185	185	185	185	185	4.32	
3955	3955	4058	4058	4058	4058	4.33	
4155	4155	4258	4258	4258	4258	4.34	
2277	2277	2380	2380	2380	2380	4.35	
25	25	54	54	54	54	4.36	
18.7 / 19.8	19.8 / 20.9	18.0/19.1	18.0 / 19.1	18.7 / 19.8	19.8 / 20.9	5.1	
0.52 / 0.53	0.52 / 0.53	0.49 / 0.50	0.48 / 0.49	0.52 / 0.53	0.52 / 0.53	5.2	
0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	5.3	
18877 / 11708	21805 / 11708	15735 / 12594	15735 / 12594	18570 / 12594	21805 / 12594	5.5	
13400 / 11700	15600 / 16000	10500 / 11100	10500 / 11100	12500 / 13300	16000 / 16900	5.6	
21952 / 11708	21805 / 11708	18913 / 12594	18913 / 12594	21609 / 12594	21805 / 12594	5.6	
18.1 / 26.6	22.1 / 26.6	13.5 / 23.0	13.5 / 23.0	15.2 / 26.9	20.0 / 26.9	5.7	
25.8 / 26.6	30.4 / 26.6	19.4 / 26.9	19.4 / 26.9	21.7 / 26.9	27.3 / 26.9	5.8	
Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	5.10	
GM 2.4L	GM 2.4L	Mazda F2	Mazda F2	GM 2.4L	GM 2.4L	7.1	
46.2	46.2	38.0	38.0	46.2	46.2	7.2	
2700	2700	2700	2700	2700	2700	7.3	
4 / 2400	4 / 2400	4 / 2184	4 / 2184	4 / 2400	4 / 2400	7.4	
3.0	3.2	3.8	3.5	3.2	3.4	7.5	
Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	Hydrodynamic	8.1	
0 - 155	0 - 155	0 - 155	0 - 155	0 - 155	0 - 155	8.2	
66	66	62	62	66	66	8.3	
80	80	79	79	80	80	8.4	
105	105	102	102	105	105	8.5	
Pin	Pin	Pin	Pin	Pin	Pin	8.5	

❖ For Value trucks supplied with manual levers, the values for lifting speeds (line 5.2) and fuel consumption (line 7.5) are as stated on the Base VDI table.

**Base specification sheet truck based on:**  
3105mm (GLP30/35VX) Top of Forks 2 stage LFL  
Standard carriage, 1000mm forks and manual levers.

**Value and Productivity specification sheet truck based on:**  
3105mm (GLP30/35VX) Top of Forks 2 stage LFL  
Standard carriage, 1000mm forks and e-hydraulics.

## VX Series

Models: GDP/GLP 20VX, 25VX, 30VX, 35VX

### Yale Veracitor VX Series

This series of trucks is available in three configurations.

The Veracitor Base truck offers first-rate performance for standard-duty applications, geared to minimise cost of acquisition without compromising performance.

The Veracitor Value truck provides excellent performance for standard and medium-duty applications, optimised for lowest hourly operation cost.

The Veracitor Productivity truck delivers maximum performance for medium to heavy-duty applications with state-of-the-art features and industry leading power.

### Engines

Engines feature a rigid cast iron block and main bearing caps.

Hydraulic valve lifters eliminate the need for manual adjustment. All engines include hardened exhaust valve seats, the GM engine's valves are stellite coated for superior durability. All engines feature closed loop emissions regulation systems that continually monitor exhaust and adjust fuel/air mix. The GM engine also features an electronic throttle for precise performance and control.

### Fuel System

The Mazda LPG engine uses a single barrel non adjustable carburetor with an LPG injector and a regulator/vaporizer. The Engine Control Unit controls the LPG injector fueling.

The GM LPG use sequential port fuel injection, vaporiser/ regulator to convert fuel from a liquid to a gas for vapor injection. The Engine Control Unit (ECU) electronically controls the fuel/air mix, and spark advance to provide the necessary torque. The ECU inputs include manifold air pressure temperature, engine coolant temperature, accelerator pedal position, throttle position, engine speed, cam signal, and oxygen sensor signal.

The Yanmar fuel system has an Electro-mechanical controlled throttle providing excellent response time. Super quick glow plugs allow the engine to start quickly and reliably under cold conditions, the cold start device delivering a cleaner exhaust by advancing the fuel injection timing based on water temperature. Emissions have been reduced by controlling fuel injection timing according to engine load.

### Load Sensing Hydraulics

Load Sensing Hydraulics (LSH) deliver increased operational efficiency, offering 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.

LSH 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 up to 20%\* 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.

### Transmission

Four transmission selections are available with multiple engine configurations for a wide variety of material handling applications.

**1) Standard Electronic** features electronic inching, electric shift control, neutral start switch, anti-restart protection and heavy duty clutch packs.

A single pedal controls both inching and braking, optional dual inch/brake pedals are available if preferred. A 100 mesh suction and a 10 micron return line filtration protect the transmission from abrasive contaminants.

**2) The Techtronix 100** has all the Standard Electronic features plus Auto Deceleration System through the controlled application of clutch packs, reduces tyre spin by precisely regulating engine speed during controlled power reversals.

**3) The Techtronix 200** has all the Techtronix 100 features, plus Two Speed Auto Shift (2 x forward, 1 x reverse).

### Cooling System

The cooling system employs a 43cm blade pusher-type fan. A permanently lubricated water pump and a high capacity, cross-flow radiator ensure rapid heat dissipation. The sealed cooling system operates at 15psi, the coolant recovery tank allows visual inspection of coolant level. A transmission oil cooler is integrated into the radiator, located in the side tank. The optional combicooler radiator features an externally mounted transmission oil cooler for increased heat transfer capability. All radiators are soft mounted for durability.

### Drive Axle

The drive axle is designed to withstand heavy-duty applications and absorb shock loads. It is a "self contained" assembly isolated from the transmission by a heavy-duty rubber isolator. The axle shafts utilize a "rolled fillet" root spline design for increased resistance to torsion stress. A magnetic sump plug collects any metal particles circulating in the axle oil to prevent component wear.

### Brakes

Brakes are duo-servo hydraulic, self-energizing, and automatic adjusting drum brake assemblies. Asbestos-free brake linings are bonded to steel shoes operating in cast iron drums on the Base and Value models. The Productivity models have oil immersed brakes as standard. The single circuit master cylinder has sealed fluid reservoir and features a fluid level sensor which activates an indicator light on the instrument panel.

### Hydraulic Power Steering

Hydrostatic steering provides responsive control

and eliminates mechanical linkages for reduced surface shock and simplified maintenance. The steering wheel is 30cm in diameter with a textured surface grip and spinner knob, and requires only four turns lock-to-lock. The centre mounted steer cylinder is located within the confines of the steer axle for protection.

### Steer Axle

Constructed from cast steel, the steer axle is rubber shock mounted to the frame for reduced wear and vibration. The CSE (Continuous Stability Enhancement) system enhances lateral truck stability through reduced steer axle articulation, while simultaneously allowing uncompromised uneven surface travel.

### Operator's Compartment

Base truck features cowl mounted hydraulic control levers as standard, positioned on the right side of the steering column.

All models are available with a new mini-lever armrest, which features a new contoured design, and - in addition to the hydraulic functions - features a horn and direction switch, ensuring that all key truck functions are within constant, easy reach.

The new FLM80 Full Suspension Seat together with the isolated powertrain provide best in class Whole-Body Vibration levels of 0.6m/s<sup>2</sup>, ensuring that the operator remains comfortable throughout the shift and fatigue, aches and pains are kept to a minimum.

Automotive-style pedal arrangement with a large, single inch/brake pedal is standard.

### Intellix Vehicle System Management (VSM)

VSM acts as a master truck controller, providing extensive monitoring and control of truck functions and systems.

CANbus technology reduces wiring complexity and enables communications between truck systems. The dash display transmits continual feedback to the operator and allows communication of service codes. On-board diagnostics enable quick and easy troubleshooting. The electrical system features sealed connectors and Hall Effect sensors for superior dependability.

### Hydraulic System

Hydraulic system incorporates a gear type pump with cast iron body for quiet efficiency. The system is protected from overloads by a main relief valve for the lift circuit and secondary relief valve for tilt and auxiliary functions. Oil is double filtered through a 100 mesh suction line strainer and 10 micron return line filter. Hydraulic tank is integrated into the frame.

For Accutouch electrohydraulic controls, an emergency lowering valve is provided to allow the load to be lowered in the event of power loss. O-ring face seal fittings are used in all high pressure hydraulic connections.

(\*Yale Productivity Test Cycle: Load Sensing Hydraulics is available on trucks with Accutouch mini-levers and the ECO-eLo function is available on trucks with Techtronix transmissions only).



NACCO Materials Handling Limited trading as Yale Europe Materials Handling  
Flagship House, Reading Road North, Fleet, Hampshire GU51 4WD, United Kingdom.  
Tel: + 44 (0) 1252 770700 Fax: + 44 (0) 1252 770784  
[www.yale-forklifts.eu](http://www.yale-forklifts.eu)

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YALE



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

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Truck shown with optional equipment