# VX series

4,000kg / 4,500kg / 5,000kg / 5,500kg

Yale®

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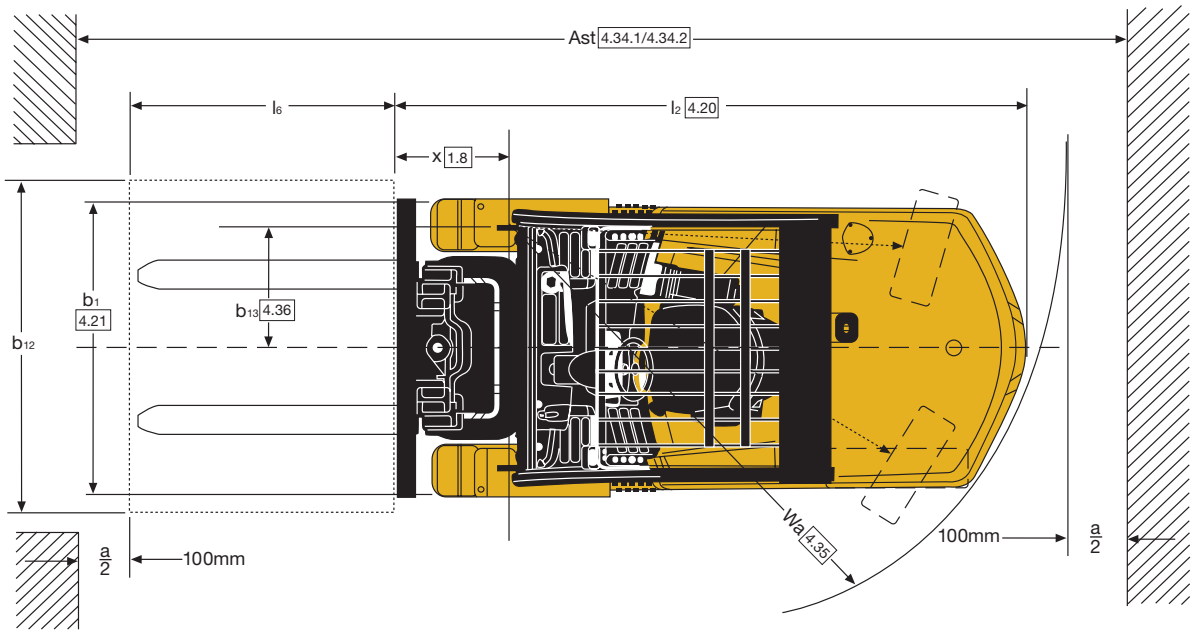
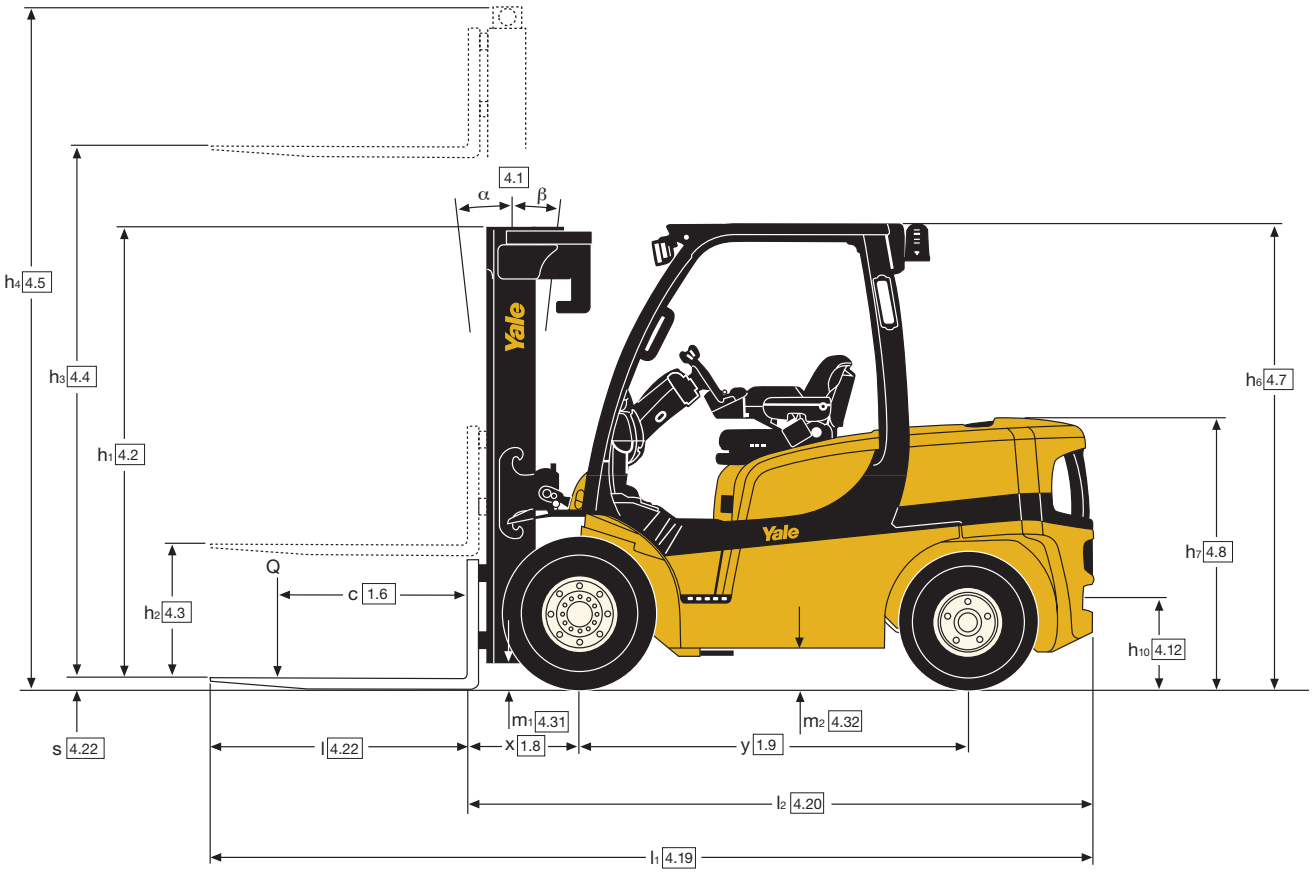
# Diesel Forklift Trucks

- Intellix Vehicle Management System with CAN bus technology
- 2 application matched Techtronix transmissions
- Oil immersed brakes
- ADS - Auto Deceleration System on Techtronix 100 and 2 transmission
- Controlled roll-back
- AccuTouch mini-lever and manual levers
- Load Sensing Hydraulics available with AccuTouch mini levers
- Superelastic and pneumatic radial tyres

Now with Stage V engines for lower emissions

## Truck Dimensions



## Engine Specifications

**Diesel Engine Specification**

| | |
|---|---|
| Engine | Kubota V3800 E4 Stage V Compliant with Diesel Oxidisation Catalyst (DOC) or Diesel Particulate Filter (DPF) as standard |
| Cylinders | In line 4 |
| Displacement | 3.8 litre |
| Power | 55.0kW @ 2,200rpm |
| Torque | 309.0Nm @ 1,400rpm |

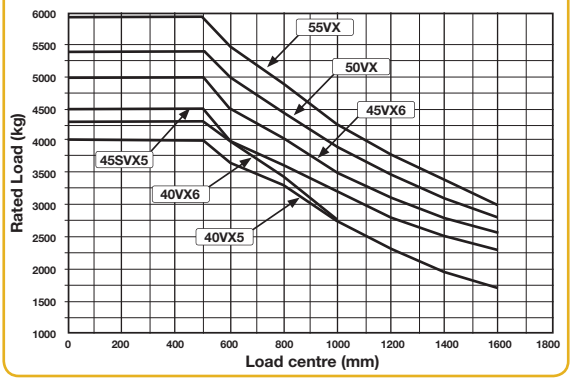
## Options

- Powertrain protection system
- Premium monitoring package
- Hydraulic Accumulator, recommended for use with clamping attachments
- Keyless start (with Passcode access)
- Traction speed limiter
- Swing-out, drop-down EZ-Tank bracket
- Right hand armrest incorporating AccuTouch mini-lever electrohydraulic controls, direction switch and horn button
- Return-to-set tilt
- Swivel full suspension seat
- Foot directional control
- Operator password
- Mirrors - dual side view
- Alarm-reverse actuated 82-102dB(A) - self adjusting
- Amber strobe light - continuous activated
- Impact monitor
- Paper applications kits
- 4 function (2 aux) hydraulic control valve
- Load weight indicator
- Cabin and Air Conditioned Cabin
- Partials Cabins
- Lowered Overhead Guard and Cabin
- Yale Vision Telemetry System

## Capacities table - Standard carriage

| Load centre | GDP40VX5 | GDP40VX6 | GDP45SVX5 | GDP45VX6 | GDP50VX | GDP55VX |
|---|---|---|---|---|---|---|
| mm | kg | kg | kg | kg | kg | kg |
| 0 | 4000 | 4300 | 4500 | 5000 | 5400 | 5950 |
| 200 | 4000 | 4300 | 4500 | 5000 | 5400 | 5950 |
| 500 | 4000 | 4300 | 4500 | 5000 | 5400 | 5950 |
| 600 | 3670 | 4000 | 4000 | 4500 | 5000 | 5500 |
| 800 | 3310 | 3450 | 3610 | 4030 | 4460 | 4900 |
| 1000 | 2760 | 2760 | 3150 | 3520 | 3900 | 4280 |
| 1200 | 2300 | 2300 | 2800 | 3130 | 3460 | 3800 |
| 1400 | 1970 | 1970 | 2520 | 2810 | 3110 | 3420 |
| 1600 | 1720 | 1720 | 2290 | 2560 | 2830 | 3000 |

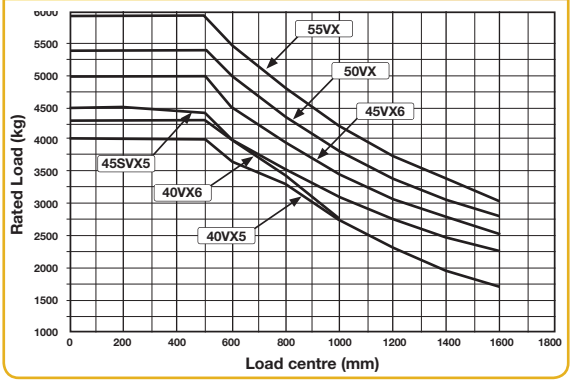
## Capacities graph - Standard carriage




## Capacities table - ISS

| Load centre | GDP40VX5 | GDP40VX6 | GDP45SVX5 | GDP45VX6 | GDP50VX | GDP55VX |
|---|---|---|---|---|---|---|
| mm | kg | kg | kg | kg | kg | kg |
| 0 | 4000 | 4300 | 4500 | 5000 | 5400 | 5950 |
| 200 | 4000 | 4300 | 4500 | 5000 | 5400 | 5950 |
| 500 | 4000 | 4300 | 4440 | 4970 | 5400 | 5950 |
| 600 | 3670 | 4000 | 4000 | 4500 | 5000 | 5500 |
| 800 | 3320 | 3450 | 3500 | 3920 | 4340 | 4770 |
| 1000 | 2760 | 2760 | 3070 | 3430 | 3800 | 4180 |
| 1200 | 2300 | 2300 | 2730 | 3050 | 3380 | 3720 |
| 1400 | 1970 | 1970 | 2460 | 2750 | 3050 | 3350 |
| 1600 | 1720 | 1720 | 2240 | 2500 | 2770 | 3000 |

## Capacities graph - ISS




## Powertrains

| | | | | |
|---|---|---|---|---|
| Combustion engine | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | Diesel |
| | 7.1 | Engine manufacturer/type | | Kubota V3800 DICR-T-E4 |
| | 7.2 | Engine power according to ISO 1585 | kW | 55 |
| | 7.3 | Rated speed | min-1 | 2200 |
| | 7.3.1 | Torque at 1/min | Nm/min-1 | 300 / 1400 |
| | 7.4 | Number of cylinders/displacement | cm3 | 4 / 3769 |
| | 7.10 | Battery voltage/nominal capacity ✓ | (V)/(Ah) | 12 / 105 |
| Drive mechanism | 8.1 | Type of drive unit | | Hydrodynamic |
| | 8.2 | Manufacturer/type | | NMHG/Electronic |
| | 8.6 | Wheel drive/drive axle manufacturer/type | | Dana/WBA |
| | 8.11 | Service brake | | Multi Disc Brake |
| | 8.12 | Parking brake | | Multi Disc Brake |

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

## GDP 40VX5, GDP 40VX6 Mast details and capacity ratings (kg) - Superelastic tyres

| Model | | | | | | | | GDP 40 VX5 | | | | | | GDP 40 VX6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tyre size, front | | | | | | | | 250 x 15 | | | | | | 250 x 15 | | | |
| Overall width, front | | | | | | | | 1402mm | | | | | | 1402mm | | | |
| Mast | $h_1$ (mm) | $h_2$+s (mm) | $h_3$+s (mm) | $h_4$ (mm)[1] | $h_4$ (mm)[2] | Tilt | | Forks | | | Integral Sideshift | | | Forks | | Integral Sideshift | |
| | | | | | | | | Load centre (kg) | | | Load centre (kg) | | | Load centre (kg) | | Load centre (kg) | |
| | | | | | | F | B | 500 | 600 | 700 | 500 | 600 | 700 | 600 | 700 | 600 | 700 |
| 2 Stage LFL | 2175 | 150 | 3050 | 3815 | 4300 | 6 | 10 | 4000 | 3670 | 3580 | 4000 | 3670 | 3470 | 4000 | 3890 | 4000 | 3770 |
| | 2475 | 150 | 3650 | 4415 | 4900 | 6 | 10 | 4000 | 3670 | 3570 | 4000 | 3670 | 3460 | 4000 | 3870 | 4000 | 3750 |
| | 2775 | 150 | 4250 | 5015 | 5500 | 6 | 10 | 4000 | 3670 | 3550 | 4000 | 3670 | 3440 | 4000 | 3860 | 4000 | 3740 |
| | 3225 | 150 | 4950 | 5715 | 6200 | 6 | 6 | 3880 | 3560 | 3430 | 3880 | 3560 | 3320 | 3890 | 3720 | 3890 | 3610 |
| 2 Stage FFL | 2175 | 1355 | 3075 | 3890 | 4325 | 6 | 10 | 4000 | 3670 | 3450 | 4000 | 3670 | 3400 | 4000 | 3750 | 4000 | 3690 |
| | 2475 | 1655 | 3675 | 4490 | 4925 | 6 | 10 | 4000 | 3670 | 3440 | 4000 | 3650 | 3380 | 4000 | 3730 | 3990 | 3670 |
| 3 Stage FFL | 2175 | 1355 | 4415 | 5225 | 5665 | 6 | 6 | 4000 | 3670 | 3430 | 3970 | 3630 | 3350 | 4000 | 3720 | 3950 | 3640 |
| | 2375 | 1555 | 4950 | 5765 | 6200 | 6 | 6 | 3880 | 3560 | 3310 | 3840 | 3510 | 3230 | 3880 | 3600 | 3820 | 3520 |
| | 2475 | 1655 | 5250 | 6065 | 6500 | 6 | 6 | 3800 | 3490 | 3240 | 3760 | 3440 | 3170 | 3810 | 3530 | 3740 | 3450 |
| | 2575 | 1755 | 5550 | 6365 | 6800 | 6 | 6 | 3730 | 3420 | 3170 | 3670 | 3360 | 3090 | 3740 | 3450 | 3660 | 3370 |
| | 2775 | 1955 | 6000 | 6815 | 7250 | 6 | 6 | 3600 | 3290 | 3050 | 3530 | 3230 | 2980 | 3620 | 3330 | 3530 | 3250 |

[1] Without load backrest. [2] With load backrest. Specification data based on standard carriage, load backrest, and 1000mm (GDP40 VX5) / 1200mm (GDP 40VX6 - GDP 55VX) forks.

## GDP 45SVX5, GDP 45VX6 Mast details and capacity ratings (kg) - Superelastic tyres

| Model | | | | | | | | GDP 45 SVX5 | | | | | | GDP 45 VX6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tyre size, front | | | | | | | | 250 x 15 | | | | | | 300 x 15 | | | |
| Overall width, front | | | | | | | | 1402mm | | | | | | 1450mm | | | |
| Mast | $h_1$ (mm) | $h_2$+s (mm) | $h_3$+s (mm) | $h_4$ (mm)[1] | $h_4$ (mm)[2] | Tilt | | Forks | | | Integral Sideshift | | | Forks | | Integral Sideshift | |
| | | | | | | | | Load centre (kg) | | | Load centre (kg) | | | Load centre (kg) | | Load centre (kg) | |
| | | | | | | F | B | 500 | 600 | 700 | 500 | 600 | 700 | 600 | 700 | 600 | 700 |
| 2 Stage LFL | 2215 | 160 | 2800 | 3730 | 4065 | 6 | 10 | 4500 | 4000 | 3890 | 4440 | 4000 | 3770 | 4500 | 4340 | 4500 | 4210 |
| | 2515 | 160 | 3400 | 4330 | 4665 | 6 | 10 | 4500 | 4000 | 3870 | 4420 | 4000 | 3750 | 4500 | 4330 | 4500 | 4200 |
| | 2815 | 160 | 4000 | 4930 | 5265 | 6 | 10 | 4500 | 4000 | 3860 | 4410 | 4000 | 3740 | 4500 | 4310 | 4500 | 4180 |
| | 3265 | 160 | 4700 | 5630 | 5965 | 6 | 6 | 4380 | 3900 | 3730 | 4260 | 3900 | 3620 | 4390 | 4180 | 4390 | 4060 |
| | 3665 | 160 | 5300 | 6230 | 6565 | 6 | 6 | 4230 | 3760 | 3580 | 4090 | 3750 | 3470 | 4250 | 4030 | 4230 | 3910 |
| | 4065 | 160 | 5900 | 6830 | 7165 | 6 | 6 | 4040 | 3620 | 3420 | 3900 | 3580 | 3310 | 4100 | 3860 | 4050 | 3740 |
| 2 Stage FFL | 2215 | 1230 | 2825 | 3810 | 4090 | 6 | 10 | 4500 | 4000 | 3860 | 4410 | 4000 | 3740 | 4500 | 4310 | 4500 | 4180 |
| | 2515 | 1530 | 3425 | 4410 | 4690 | 6 | 10 | 4500 | 4000 | 3840 | 4390 | 4000 | 3720 | 4500 | 4290 | 4500 | 4170 |
| 3 Stage FFL | 2215 | 1230 | 4145 | 5130 | 5415 | 6 | 6 | 4500 | 4000 | 3820 | 4370 | 4000 | 3700 | 4500 | 4270 | 4490 | 4150 |
| | 2515 | 1530 | 5000 | 5985 | 6265 | 6 | 6 | 4300 | 3820 | 3630 | 4150 | 3810 | 3520 | 4310 | 4080 | 4290 | 3960 |
| | 2615 | 1630 | 5300 | 6285 | 6565 | 6 | 6 | 4210 | 3750 | 3560 | 4070 | 3730 | 3450 | 4240 | 4000 | 4210 | 3890 |

[1] Without load backrest. [2] With load backrest. Specification data based on standard carriage, load backrest, and 1000mm (GDP40 VX5) / 1200mm (GDP 40VX6 - GDP 55VX) forks.

## GDP 50VX, GDP 55VX Mast details and capacity ratings (kg) - Superelastic tyres

| Model | | | | | | | | GDP 50 VX | | | | GDP 55 VX | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tyre size, front | | | | | | | | 300 x 15 | | | | 300 x 15 | | | |
| Overall width, front | | | | | | | | 1450mm | | | | 1450mm | | | |
| Mast | $h_1$ (mm) | $h_2$+s (mm) | $h_3$+s (mm) | $h_4$ (mm)[1] | $h_4$ (mm)[2] | Tilt | | Forks | | Integral Sideshift | | Forks | | Integral Sideshift | |
| | | | | | | | | Load centre (kg) | | Load centre (kg) | | Load centre (kg) | | Load centre (kg) | |
| | | | | | | F | B | 600 | 700 | 600 | 700 | 600 | 700 | 600 | 700 |
| 2 Stage LFL | 2215 | 160 | 2800 | 3730 | 4065 | 6 | 10 | 5000 | 4810 | 5000 | 4670 | 5500 | 5280 | 5500 | 5130 |
| | 2515 | 160 | 3400 | 4330 | 4665 | 6 | 10 | 5000 | 4790 | 5000 | 4650 | 5500 | 5260 | 5500 | 5120 |
| | 2815 | 160 | 4000 | 4930 | 5265 | 6 | 10 | 5000 | 4780 | 5000 | 4640 | 5500 | 5250 | 5500 | 5100 |
| | 3265 | 160 | 4700 | 5630 | 5965 | 6 | 6 | 4890 | 4640 | 4880 | 4510 | 5380 | 5110 | 5370 | 4970 |
| | 3665 | 160 | 5300 | 6230 | 6565 | 6 | 6 | 4740 | 4480 | 4700 | 4350 | 5230 | 4940 | 5190 | 4800 |
| | 4065 | 160 | 5900 | 6830 | 7165 | 6 | 6 | 4570 | 4300 | 4520 | 4170 | 5050 | 4750 | 5000 | 4620 |
| 2 Stage FFL | 2215 | 1230 | 2825 | 3810 | 4090 | 6 | 10 | 5000 | 4770 | 5000 | 4640 | 5500 | 5250 | 5500 | 5100 |
| | 2515 | 1530 | 3425 | 4410 | 4690 | 6 | 10 | 5000 | 4760 | 5000 | 4620 | 5500 | 5230 | 5500 | 5080 |
| 3 Stage FFL | 2215 | 1230 | 4145 | 5130 | 5415 | 6 | 6 | 5000 | 4740 | 4990 | 4610 | 5500 | 5210 | 5490 | 5070 |
| | 2515 | 1530 | 5000 | 5985 | 6265 | 6 | 6 | 4800 | 4530 | 4770 | 4410 | 5290 | 5000 | 5260 | 4860 |
| | 2615 | 1630 | 5300 | 6285 | 6565 | 6 | 6 | 4730 | 4450 | 4690 | 4330 | 5210 | 4920 | 5170 | 4780 |

[1] Without load backrest. [2] With load backrest. Specification data based on standard carriage, load backrest, and 1000mm (GDP40 VX5) / 1200mm (GDP 40VX6 - GDP 55VX) forks.

## GDP 40VX5, GDP 40VX6 Mast details and capacity ratings (kg) - Pneumatic radial tyres

| Model | | | | | | | | GDP 40 VX5 | | | | | | GDP 40 VX6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tyre size, front | | | | | | | | 250 x R15 | | | | | | 250 x R15 | | | |
| Overall width, front | | | | | | | | 1402mm | | | | | | 1402mm | | | |
| Mast | $h_1$ (mm) | $h_2$+s (mm) | $h_3$+s (mm) | $h_4$ (mm)[1] | $h_4$ (mm)[2] | Tilt | | Forks | | | Integral Sideshift | | | Forks | | Integral Sideshift | |
| | | | | | | | | Load centre (kg) | | | Load centre (kg) | | | Load centre (kg) | | Load centre (kg) | |
| | | | | | | F | B | 500 | 600 | 700 | 500 | 600 | 700 | 600 | 700 | 600 | 700 |
| 2 Stage LFL | 2175 | 150 | 3050 | 3815 | 4300 | 6 | 10 | 4000 | 3670 | 3580 | 4000 | 3670 | 3470 | 4000 | 3890 | 4000 | 3770 |
| | 2475 | 150 | 3650 | 4415 | 4900 | 6 | 10 | 4000 | 3670 | 3570 | 4000 | 3670 | 3460 | 4000 | 3870 | 4000 | 3750 |
| | 2775 | 150 | 4250 | 5015 | 5500 | 6 | 10 | 4000 | 3670 | 3550 | 4000 | 3670 | 3440 | 4000 | 3860 | 4000 | 3740 |
| | 3225 | 150 | 4950 | 5715 | 6200 | 6 | 6 | 3880 | 3560 | 3420 | 3880 | 3560 | 3320 | 3890 | 3720 | 3890 | 3610 |
| 2 Stage FFL | 2175 | 1355 | 3075 | 3890 | 4325 | 6 | 10 | 4000 | 3670 | 3450 | 4000 | 3670 | 3400 | 4000 | 3750 | 4000 | 3690 |
| | 2475 | 1655 | 3675 | 4490 | 4925 | 6 | 10 | 4000 | 3670 | 3440 | 4000 | 3670 | 3380 | 4000 | 3730 | 3990 | 3670 |
| 3 Stage FFL | 2175 | 1355 | 4415 | 5225 | 5665 | 6 | 6 | 4000 | 3670 | 3430 | 3970 | 3630 | 3350 | 4000 | 3720 | 3950 | 3640 |
| | 2375 | 1555 | 4950 | 5765 | 6200 | 6 | 6 | 3870* | 3550* | 3310* | 3830* | 3510* | 3230* | 3880* | 3600* | 3820* | 3520* |
| | 2475 | 1655 | 5250 | 6065 | 6500 | 6 | 6 | 3800* | 3490* | 3230* | 3750* | 3430* | 3160* | 3810* | 3520* | 3740* | 3440* |
| | 2575 | 1755 | 5550 | 6365 | 6800 | 6 | 6 | 3730** | 3420** | 3170** | 3670** | 3360** | 3090** | 3740** | 3450** | 3660** | 3370** |
| | 2775 | 1955 | 6000 | 6815 | 7250 | 6 | 6 | 3600** | 3310** | 3050** | 3530** | 3230** | 2980** | 3620** | 3330** | 3530** | 3250** |

[1] Without load backrest. [2] With load backrest. * Wide Tread or Dual Drive Wheels Required. **Dual Drive Wheels Required. Specification data based on standard carriage, load backrest, and 1000mm (GDP40 VX5) / 1200mm (GDP 40VX6 - GDP 55VX) forks.

## GDP 45SVX5, GDP 45VX6 Mast details and capacity ratings (kg) - Pneumatic radial tyres

| Model | | | | | | | | GDP 45 SVX5 | | | | | | GDP 45 VX6 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tyre size, front | | | | | | | | 250/70 x R15 | | | | | | 315/70 x R15 | | | |
| Overall width, front | | | | | | | | 1402mm | | | | | | 1450mm | | | |
| Mast | $h_1$ (mm) | $h_2$+s (mm) | $h_3$+s (mm) | $h_4$ (mm)[1] | $h_4$ (mm)[2] | Tilt | | Forks | | | Integral Sideshift | | | Forks | | Integral Sideshift | |
| | | | | | | | | Load centre (kg) | | | Load centre (kg) | | | Load centre (kg) | | Load centre (kg) | |
| | | | | | | F | B | 500 | 600 | 700 | 500 | 600 | 700 | 600 | 700 | 600 | 700 |
| 2 Stage LFL | 2215 | 160 | 2800 | 3730 | 4065 | 6 | 10 | 4500 | 4000 | 3890 | 4440 | 4000 | 3770 | 4500 | 4340 | 4500 | 4210 |
| | 2515 | 160 | 3400 | 4330 | 4665 | 6 | 10 | 4500 | 4000 | 3870 | 4420 | 4000 | 3750 | 4500 | 4330 | 4500 | 4200 |
| | 2815 | 160 | 4000 | 4930 | 5265 | 6 | 10 | 4500 | 4000 | 3860 | 4410 | 4000 | 3740 | 4500 | 4310 | 4500 | 4180 |
| | 3265 | 160 | 4700 | 5630 | 5965 | 6 | 6 | 4380 | 3890 | 3730 | 4260 | 3890 | 3610 | 4390 | 4180 | 4390 | 4060 |
| | 3665 | 160 | 5300 | 6230 | 6565 | 6 | 6 | 4230* | 3760* | 3570* | 4080* | 3750* | 3460* | 4240* | 4020* | 4220* | 3900* |
| | 4065 | 160 | 5900 | 6830 | 7165 | 6 | 6 | 4040** | 3610** | 3410** | 3900** | 3580** | 3310** | 4080* | 3840* | 4030* | 3730* |
| 2 Stage FFL | 2215 | 1230 | 2825 | 3810 | 4090 | 6 | 10 | 4500 | 4000 | 3860 | 4410 | 4000 | 3740 | 4500 | 4310 | 4500 | 4180 |
| | 2515 | 1530 | 3425 | 4410 | 4690 | 6 | 10 | 4500 | 4000 | 3840 | 4390 | 4000 | 3720 | 4500 | 4290 | 4500 | 4170 |
| 3 Stage FFL | 2215 | 1230 | 4145 | 5130 | 5415 | 6 | 6 | 4500 | 4000 | 3820 | 4370 | 4000 | 3700 | 4500 | 4270 | 4490 | 4150 |
| | 2515 | 1530 | 5000 | 5985 | 6265 | 6 | 6 | 4250* | 3820* | 3630* | 4150** | 3810** | 3520** | 4310* | 4070* | 4280* | 3950* |
| | 2615 | 1630 | 5300 | 6285 | 6565 | 6 | 6 | 4210** | 3750** | 3560** | 4070** | 3730** | 3450** | 4230* | 3990* | 4200* | 3880* |

[1] Without load backrest. [2] With load backrest. * Wide Tread or Dual Drive Wheels Required. **Dual Drive Wheels Required. Specification data based on standard carriage, load backrest, and 1000mm (GDP40 VX5) / 1200mm (GDP 40VX6 - GDP 55VX) forks.

## GDP 50VX, GDP 55VX Mast details and capacity ratings (kg) - Pneumatic radial tyres

| Model | | | | | | | | GDP 50 VX | | | | GDP 55 VX | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tyre size, front | | | | | | | | 315/70 x R15 | | | | 315/70-R15 | | | |
| Overall width, front | | | | | | | | 1450mm | | | | 1450mm | | | |
| Mast | $h_1$ (mm) | $h_2$+s (mm) | $h_3$+s (mm) | $h_4$ (mm)[1] | $h_4$ (mm)[2] | Tilt | | Forks | | Integral Sideshift | | Forks | | Integral Sideshift | |
| | | | | | | | | Load centre (kg) | | Load centre (kg) | | Load centre (kg) | | Load centre (kg) | |
| | | | | | | F | B | 600 | 700 | 600 | 700 | 600 | 700 | 600 | 700 |
| 2 Stage LFL | 2215 | 160 | 2800 | 3730 | 4065 | 6 | 10 | 5000 | 4810 | 5000 | 4670 | 5500 | 5280 | 5500 | 5130 |
| | 2515 | 160 | 3400 | 4330 | 4665 | 6 | 10 | 5000 | 4790 | 5000 | 4650 | 5500 | 5260 | 5500 | 5120 |
| | 2815 | 160 | 4000 | 4930 | 5265 | 6 | 10 | 5000 | 4780 | 5000 | 4640 | 5500 | 5250 | 5500 | 5100 |
| | 3265 | 160 | 4700 | 5630 | 5965 | 6 | 6 | 4880 | 4640 | 4870 | 4500 | 5380* | 5110* | 5370* | 4960* |
| | 3665 | 160 | 5300 | 6230 | 6565 | 6 | 6 | 4730* | 4470* | 4700* | 4340* | 5220* | 4930* | 5180* | 4790* |
| | 4065 | 160 | 5900 | 6830 | 7165 | 6 | 6 | 4570** | 4300** | 4510** | 4170** | 5050** | 4750** | 4990** | 4610** |
| 2 Stage FFL | 2215 | 1230 | 2825 | 3810 | 4090 | 6 | 10 | 5000 | 4770 | 5000 | 4640 | 5500 | 5250 | 5500 | 5100 |
| | 2515 | 1530 | 3425 | 4410 | 4690 | 6 | 10 | 5000 | 4760 | 5000 | 4620 | 5500 | 5230 | 5500 | 5080 |
| 3 Stage FFL | 2215 | 1230 | 4145 | 5130 | 5415 | 6 | 6 | 5000 | 4740 | 4990 | 4610 | 5500 | 5210 | 5490 | 5070 |
| | 2515 | 1530 | 5000 | 5985 | 6265 | 6 | 6 | 4800* | 4530* | 4760* | 4400* | 5290* | 4990* | 5260* | 4860* |
| | 2615 | 1630 | 5300 | 6285 | 6565 | 6 | 6 | 4730** | 4450** | 4680** | 4330** | 5210** | 4910** | 5170** | 4780** |

[1] Without load backrest. [2] With load backrest. * Wide Tread or Dual Drive Wheels Required. **Dual Drive Wheels Required. Specification data based on standard carriage, load backrest, and 1000mm (GDP40 VX5) / 1200mm (GDP 40VX6 - GDP 55VX) forks.

## VDI 2198 – General Specifications, Diesel powered GDP 40VX5, GDP 40VX6, GDP 45SVX5

| | | | | | | |
|---|---|---|---|---|---|---|
| Distinguishing mark | 1.1 | Manufacturer (abbreviation) | | Yale | Yale | Yale | Yale |
| | 1.2 | Manufacturer's type designation | | GDP 40VX5 | | | |
| | | Engine/Transmission | | Kubota 3.8L Techtronix 100, 1-Speed | Kubota 3.8L Techtronix 200, 2-Speed | Kubota 3.8L Techtronix 200, 2-Speed | Kubota 3.8L Techtronix 100, 1-Speed |
| | | Model | | Value | Value | Productivity | Value |
| | | Brake Type | | Standard or Premium Oil-immersed | Standard or Premium Oil-immersed | Premium Oil-immersed | Standard or Premium Oil-immersed |
| | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | Diesel | Diesel | Diesel | Diesel |
| | 1.4 | Operator type: hand, pedestrian, standing, seated, orderpicker | | Seated | Seated | Seated | Seated |
| | 1.5 | Rated capacity / rated load | Q (t) | 4.0 | 4.0 | 4.0 | 4.0 |
| | 1.6 | Load centre distance | c (mm) | 500 | 500 | 500 | 600 |
| | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 523 | 523 | 523 | 523 |
| | 1.8.1 | Load distance, centre of drive axle to fork (ISS Carriage) | x (mm) | 555 | 555 | 555 | 555 |
| | 1.9 | Wheelbase | y (mm) | 1830 | 1830 | 1830 | 1830 |
| Weights | 2.1 | Service weight | kg | 6264 | 6264 | 6264 | 6470 |
| | 2.2 | Axle loading, laden front / rear | kg | 8969 / 1295 | 8969 / 1295 | 8969 / 1295 | 9133 / 1337 |
| | 2.3 | Axle loading, unladen front / rear | kg | 2733 / 3531 | 2733 / 3531 | 2733 / 3531 | 2678 / 3792 |
| Tyres/chassis | 3.1 | Tyres: P = pneumatic, V = cushion, SE = superelastic | | SE | SE | SE | SE |
| | 3.2 | Tyre size, front | | 250 x 15 | 250 x 15 | 250 x 15 | 250 x 15 |
| | 3.3 | Tyre size, rear | | 7.00 x 12 | 7.00 x 12 | 7.00 x 12 | 7.00 x 12 |
| | 3.5 | Number of wheels, front/rear (x = driven wheels) | | 2x / 2 | 2x / 2 | 2x / 2 | 2x / 2 |
| | 3.6 | Tread, front | $b_{10}$ (mm) | 1152 | 1152 | 1152 | 1152 |
| | 3.7 | Tread, rear | $b_{11}$ (mm) | 1136 | 1136 | 1136 | 1136 |
| Dimensions | 4.1 | Tilt of mast/fork carrige, forward / backward | $\alpha$ / $\beta$ (°) | 6 / 10 | 6 / 10 | 6 / 10 | 6 / 10 |
| | 4.2 | Height, mast lowered | $h_1$ (mm) | 2171 | 2171 | 2171 | 2171 |
| | 4.3 | Free lift ▲ | $h_2$ (mm) | 100 | 100 | 100 | 100 |
| | 4.4 | Lift ▲ | $h_3$ (mm) | 3000 | 3000 | 3000 | 3000 |
| | 4.5 | Height, mast extended ✚ | $h_4$ (mm) | 3815 | 3815 | 3815 | 3815 |
| | 4.7 | Height of overhead guard (cabin) | $h_6$ (mm) | 2258 | 2258 | 2258 | 2258 |
| | 4.8 | Seat height relating to SIP/stand height ✘ | $h_7$ (mm) | 1279 | 1279 | 1279 | 1279 |
| | 4.12 | Coupling height | $h_{10}$ (mm) | 429 | 429 | 429 | 429 |
| | 4.19 | Overall length | $l_1$ (mm) | 3946 | 3946 | 3946 | 3977 |
| | 4.20 | Length to face of forks (Standard Carriage) | $l_2$ (mm) | 2946 | 2946 | 2946 | 2977 |
| | 4.20.1 | Length to face of forks (Integrated Side Shift Carriage) | $l_2$ (mm) | 2978 | 2978 | 2978 | 3009 |
| | 4.21 | Overall width ❑ | $b_1$ (mm) | 1402 / 1485 / 1773 | 1402 / 1485 / 1773 | 1402 / 1485 / 1773 | 1402 / 1485 / 1773 |
| | 4.22 | Fork dimensions ISO 2331 | s/e/l (mm) | 50 / 120 / 1000 | 50 / 120 / 1000 | 50 / 120 / 1000 | 50 / 120 / 1200 |
| | 4.23 | Fork carriage ISO 2328, class/type A, B | | IIIA | IIIA | IIIA | IIIA |
| | 4.24 | Fork carriage width (Standard Carriage) ✚ | $b_3$ (mm) | 1219 | 1219 | 1219 | 1219 |
| | 4.24.1 | Fork carriage width (ISS Carriage) ✚ | $b_3$ (mm) | 1219 | 1219 | 1219 | 1219 |
| | 4.31 | Ground clearance, laden, below mast | $m_1$ (mm) | 151 | 151 | 151 | 151 |
| | 4.32 | Ground clearance, centre of wheelbase | $m_2$ (mm) | 194 | 194 | 194 | 194 |
| | 4.33 | Load dimension $b_{12} \times l_6$ crossways | $b_{12 x} l_6$ (mm) | 1200 x 1000 | 1200 x 1000 | 1200 x 1000 | 1200 x 1000 |
| | 4.34 | Aisle width predetermined load dimensions ❍ | $A_{st}$ (mm) | 4293 | 4293 | 4293 | 4322 |
| | 4.34.1 | Aisle width with pallets 1000mm x 1200mm crossways ❍ | $A_{st}$ (mm) | 4493 | 4493 | 4493 | 4522 |
| | 4.34.2 | Aisle width with pallets 800mm wide x 1200mm lengthways ❍ | $A_{st}$ (mm) | 4493 | 4493 | 4493 | 4522 |
| | 4.35 | Turning radius | $W_a$ (mm) | 2570 | 2570 | 2570 | 2599 |
| | 4.36 | Internal turning radius | $b_{13}$ (mm) | 751 | 751 | 751 | 751 |
| | 4.41 | 90° intersecting aisle (with pallet W = 1200mm, L = 1000mm) | (mm) | 2298 | 2298 | 2298 | 2314 |
| | 4.42 | Step height (from ground to running board) | (mm) | 801 | 801 | 801 | 801 |
| | 4.43 | Step height (between intermediate steps between running board and floor) | (mm) | 441 | 441 | 441 | 441 |
| Performance data | 5.1 | Travel speed laden/unladen | km/h | 19.9 / 20.5 | 24.9 / 25.4 | 24.9 / 25.4 | 19.9 / 20.5 |
| | 5.1.1 | Travel speed, laden/unladen, backwards | km/h | 19.9 / 20.5 | 19.9 / 20.5 | 19.9 / 20.5 | 19.9 / 20.5 |
| | 5.2 | Lift speed, laden/unladen | m/s | 0.62 / 0.63 | 0.62 / 0.63 | 0.62 / 0.63 | 0.62 / 0.63 |
| | 5.3 | Lowering speed, laden/unladen | m/s | 0.55 / 0.47 | 0.55 / 0.47 | 0.55 / 0.47 | 0.55 / 0.47 |
| | 5.5 | Drawbar pull, laden/unladen * | N | 25676 / 15616 | 30744 / 15616 | 30744 / 15616 | 25636 / 15292 |
| | 5.7 | Gradeability, laden/unladen ** | N | 26.9 / 27.2 | 32.8 / 27.2 | 32.8 / 27.2 | 26.3 / 25.7 |
| | 5.9 | Acceleration time, laden/unladen *** | % | 5 / 4.2 | 5.2 / 4.3 | 5.2 / 4.3 | 5.1 / 4.2 |
| | 5.10 | Service brake | s | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| | 7.5 | Fuel consumtion according to VDI cycle | l/h or kg/h | 4.5 | 4.5 | 4.5 | 4.6 |
| | 8.1 | Type of drive unit | | Hydrodynamic | Hydrodynamic | Hydrodynamic | Hydrodynamic |
| Addition data | 10.1 | Operating pressure for attachments | bar | 155 | 155 | 155 | 155 |
| | 10.2 | Oil volume for attachments ◊ | l/min | 83.3 | 83.3 | 83.3 | 83.3 |
| | 10.3 | Hydraulic oil tank, capacity | litres | 51.0 | 51.0 | 51.0 | 51.0 |
| | 10.4 | Fuel tank, capacity | litres | 79.0 | 79.0 | 79.0 | 79.0 |
| | 10.7 | Sound pressure level at the driver's seat ☞ ★ | dB(A) | 79 | 79 | 79 | 79 |
| | 10.7.1 | Sound power level during the workcycle ◆ | dB(A) | 99 | 99 | 99 | 99 |
| | 10.7.2 | Guaranteed sound power 2000/14/EC | dB(A) | 103 | 103 | 103 | 103 |
| | 10.8 | Towing coupling, type DIN | | Pin | Pin | Pin | Pin |

▲ Top of forks.
◗ Add 32mm with load backrest.
✘ Full suspension seat in depressed position.
✚ W/o load backrest, add 32mm with load backrest.
❑ Standard/Wide/Dual.
❍ Stacking aisle width (lines 4.34 & 4.34.1 & 4.34.2) are based on the V.D.I. standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of the truck.
* at 1.6km/h.
** at 4.8km/h. Gradeability figures are provided 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.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Yale | Yale | Yale | Yale | Yale | | Manufacturer (abbreviation) | 1.1 |
| **GDP 40VX6** | | **GDP 45SVX5** | | | | Manufacturer's type designation | 1.2 |
| Kubota 3.8L Techtronix 200, 2-Speed | Kubota 3.8L Techtronix 200, 2-Speed | Kubota 3.8L Techtronix 100, 1-Speed | Kubota 3.8L Techtronix 200, 2-Speed | Kubota 3.8L Techtronix 200, 2-Speed | | Engine/Transmission | |
| Value | Productivity | Value | Value | Productivity | | Model | |
| Standard or Premium Oil-immersed | Premium Oil-immersed | Standard or Premium Oil-immersed | Standard or Premium Oil-immersed | Premium Oil-immersed | | Brake Type | |
| Diesel | Diesel | Diesel | Diesel | Diesel | | Drive: electric (battery or mains), diesel, petrol, fuel gas | 1.3 |
| Seated | Seated | Seated | Seated | Seated | | Operator type: hand, pedestrian, standing, seated, orderpicker | 1.4 |
| 4.0 | 4.0 | 4.5 | 4.5 | 4.5 | Q (t) | Rated capacity / rated load | 1.5 |
| 600 | 600 | 500 | 500 | 500 | c (mm) | Load centre distance | 1.6 |
| 523 | 523 | 591 | 591 | 591 | x (mm) | Load distance, centre of drive axle to fork | 1.8 |
| 555 | 555 | 608 | 608 | 608 | x (mm) | Load distance, centre of drive axle to fork (ISS Carriage) | 1.8.1 |
| 1830 | 1830 | 1830 | 1830 | 1830 | y (mm) | Wheelbase | 1.9 |
| 6470 | 6470 | 6826 | 6826 | 6826 | kg | Service weight | 2.1 |
| 9133 / 1337 | 9133 / 1337 | 10114 / 1212 | 10114 / 1212 | 10114 / 1212 | kg | Axle loading, laden front / rear | 2.2 |
| 2678 / 3792 | 2678 / 3792 | 2931 / 3895 | 2931 / 3895 | 2931 / 3895 | kg | Axle loading, unladen front / rear | 2.3 |
| SE | SE | SE | SE | SE | | Tyres: P = pneumatic, V = cushion, SE = superelastic | 3.1 |
| 250 x 15 | 250 x 15 | 250 x 15 | 250 x 15 | 250 x 15 | | Tyre size, front | 3.2 |
| 7.00 x 12 | 7.00 x 12 | 7.00 x 12 | 7.00 x 12 | 7.00 x 12 | | Tyre size, rear | 3.3 |
| 2x / 2 | 2x / 2 | 2x / 2 | 2x / 2 | 2x / 2 | | Number of wheels, front/rear (x = driven wheels) | 3.5 |
| 1152 | 1152 | 1152 | 1152 | 1152 | $b_{10}$ (mm) | Tread, front | 3.6 |
| 1136 | 1136 | 1136 | 1136 | 1136 | $b_{11}$ (mm) | Tread, rear | 3.7 |
| 6 / 10 | 6 / 10 | 6 / 10 | 6 / 10 | 6 / 10 | $\alpha$ / $\beta$ (°) | Tilt of mast/fork carrige, forward / backward | 4.1 |
| 2171 | 2171 | 2215 | 2215 | 2215 | $h_1$ (mm) | Height, mast lowered | 4.2 |
| 100 | 100 | 100 | 100 | 100 | $h_2$ (mm) | Free lift ▲ | 4.3 |
| 3000 | 3000 | 2740 | 2740 | 2740 | $h_3$ (mm) | Lift ▲ | 4.4 |
| 3815 | 3815 | 3730 | 3730 | 3730 | $h_4$ (mm) | Height, mast extended ✚ | 4.5 |
| 2258 | 2258 | 2258 | 2258 | 2258 | $h_6$ (mm) | Height of overhead guard (cabin) | 4.7 |
| 1279 | 1279 | 1279 | 1279 | 1279 | $h_7$ (mm) | Seat height relating to SIP/stand height ✘ | 4.8 |
| 429 | 429 | 429 | 429 | 429 | $h_{10}$ (mm) | Coupling height | 4.12 |
| 3977 | 3977 | 4266 | 4266 | 4266 | $l_1$ (mm) | Overall length | 4.19 |
| 2977 | 2977 | 3066 | 3066 | 3066 | $l_2$ (mm) | Length to face of forks (Standard Carriage) | 4.20 |
| 3009 | 3009 | 3083 | 3083 | 3083 | $l_2$ (mm) | Length to face of forks (Integrated Side Shift Carriage) | 4.20.1 |
| 1402 / 1485 / 1773 | 1402 / 1485 / 1773 | 1402 / 1485 / 1773 | 1402 / 1485 / 1773 | 1402 / 1485 / 1773 | $b_1$ (mm) | Overall width ❑ | 4.21 |
| 50 / 120 / 1200 | 50 / 120 / 1200 | 60 / 150 / 1200 | 60 / 150 / 1200 | 60 / 150 / 1200 | s/e/l (mm) | Fork dimensions ISO 2331 | 4.22 |
| IIIA | IIIA | IVA | IVA | IVA | | Fork carriage ISO 2328, class/type A, B | 4.23 |
| 1219 | 1219 | 1219 | 1219 | 1219 | $b_3$ (mm) | Fork carriage width (Standard Carriage) ✚ | 4.24 |
| 1219 | 1219 | 1219 | 1219 | 1219 | $b_3$ (mm) | Fork carriage width (ISS Carriage) ✚ | 4.24.1 |
| 151 | 151 | 151 | 151 | 151 | $m_1$ (mm) | Ground clearance, laden, below mast | 4.31 |
| 194 | 194 | 194 | 194 | 194 | $m_2$ (mm) | Ground clearance, centre of wheelbase | 4.32 |
| 1200 x 1000 | 1200 x 1000 | 1200 x 1000 | 1200 x 1000 | 1200 x 1000 | $b_{12} \times l_6$ | Load dimension $b_{12} \times l_6$ crossways | 4.33 |
| 4322 | 4322 | 4342 | 4342 | 4342 | (mm) | Aisle width predetermined load dimensions ❍ | 4.34 |
| 4522 | 4522 | 4542 | 4542 | 4542 | $A_{st}$ (mm) | Aisle width with pallets 1000mm x 1200mm crossways ❍ | 4.34.1 |
| 4522 | 4522 | 4542 | 4542 | 4542 | $A_{st}$ (mm) | Aisle width with pallets 800mm wide x 1200mm lengthways ❍ | 4.34.2 |
| 2599 | 2599 | 2619 | 2619 | 2619 | $A_{st}$ (mm) | Turning radius | 4.35 |
| 751 | 751 | 751 | 751 | 751 | $W_a$ (mm) | Internal turning radius | 4.36 |
| 2314 | 2314 | 2332 | 2332 | 2332 | $b_{13}$ (mm) | 90° intersecting aisle (with pallet W = 1200mm, L = 1000mm) | 4.41 |
| 801 | 801 | 801 | 801 | 801 | (mm) | Step height (from ground to running board) | 4.42 |
| 441 | 441 | 441 | 441 | 441 | (mm) | Step height (between intermediate steps between running board and floor) | 4.43 |
| 24.9 / 25.3 | 24.9 / 25.3 | 19.8 / 20.4 | 24.6 / 25.3 | 24.6 / 25.3 | (mm) | Travel speed laden/unladen | 5.1 |
| 19.9 / 20.5 | 19.9 / 20.5 | 19.8 / 20.4 | 19.8 / 20.4 | 19.8 / 20.4 | km/h | Travel speed, laden/unladen, backwards | 5.1.1 |
| 0.62 / 0.63 | 0.62 / 0.63 | 0.45 / 0.46 | 0.45 / 0.46 | 0.45 / 0.46 | km/h | Lift speed, laden/unladen | 5.2 |
| 0.55 / 0.47 | 0.55 / 0.47 | 0.51 / 0.42 | 0.51 / 0.42 | 0.51 / 0.42 | m/s | Lowering speed, laden/unladen | 5.3 |
| 30704 / 15292 | 30704 / 15292 | 25468 / 16781 | 30536 / 16781 | 30536 / 16781 | m/s | Drawbar pull, laden/unladen * | 5.5 |
| 32 / 25.7 | 32 / 25.7 | 24.3 / 26.7 | 29.5 / 26.7 | 29.5 / 26.7 | N | Gradeability, laden/unladen ** | 5.7 |
| 5.2 / 4.4 | 5.2 / 4.4 | 5.3 / 4.3 | 5.3 / 4.5 | 5.3 / 4.5 | N | Acceleration time, laden/unladen *** | 5.9 |
| Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic | % | Service brake | 5.10 |
| 4.7 | 4.7 | 4.9 | 5.1 | 5.1 | s | Fuel consumtion according to VDI cycle | 7.5 |
| Hydrodynamic | Hydrodynamic | Hydrodynamic | Hydrodynamic | Hydrodynamic | l/h or kg/h | Type of drive unit | 8.1 |
| 155 | 155 | 155 | 155 | 155 | | Operating pressure for attachments | 10.1 |
| 83.3 | 83.3 | 83.3 | 83.3 | 83.3 | bar | Oil volume for attachments ◊ | 10.2 |
| 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | l/min | Hydraulic oil tank, capacity | 10.3 |
| 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | litres | Fuel tank, capacity | 10.4 |
| 79 | 79 | 79 | 79 | 79 | litres | Sound pressure level at the driver's seat ⇨ ★ | 10.7 |
| 99 | 99 | 99 | 99 | 99 | dB(A) | Sound power level during the workcycle ◆ | 10.7.1 |
| 103 | 103 | 103 | 103 | 103 | dB(A) | Guaranteed sound power 2000/14/EC | 10.7.2 |
| Pin | Pin | Pin | Pin | Pin | dB(A) | Towing coupling, type DIN | 10.8 |

Distinguishing mark | Weights | Tyres/chassis | Dimensions | Performance data | Addition data

***to 15m (per VDI 2198 December 2012).
◊ Variable.
⇨ With and without cab.
★ Lpaz, Measured according to the test cycles and based on the weighting values contained in EN12053.
◆ LWAZ, measured according to the test cycles and based on the weighting values contained in EN12053.

**Specification truck based on:** 3050mm (GDP40 VX5-GDP40 VX6) / 2800mm (GDP45S VX5 - GDP55 VX) top of forks 2 stage LFL mast with standard carriage, 1000mm (GDP40 VX5) / 1200mm (GDP40 VX6 - GDP55 VX) forks with e-hydraulics.

**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.**

## VDI 2198 – General Specifications, Diesel powered GDP 45VX6, GDP 50VX, GDP 55VX

| | | | | | | |
|---|---|---|---|---|---|---|
| Distinguishing mark | 1.1 | Manufacturer (abbreviation) | | Yale | Yale | Yale | Yale |
| | 1.2 | Manufacturer's type designation | | GDP 45VX6 | | | |
| | | Engine/Transmission | | Kubota 3.8L Techtronix 100, 1-Speed | Kubota 3.8L Techtronix 200, 2-Speed | Kubota 3.8L Techtronix 200, 2-Speed | Kubota 3.8L Techtronix 100, 1-Speed |
| | | Model | | Value | Value | Productivity | Value |
| | | Brake Type | | Premium Oil-immersed | Premium Oil-immersed | Premium Oil-immersed | Premium Oil-immersed |
| | 1.3 | Drive: electric (battery or mains), diesel, petrol, fuel gas | | Diesel | Diesel | Diesel | Diesel |
| | 1.4 | Operator type: hand, pedestrian, standing, seated, orderpicker | | Seated | Seated | Seated | Seated |
| | 1.5 | Rated capacity / rated load | Q (t) | 4.5 | 4.5 | 4.5 | 5.0 |
| | 1.6 | Load centre distance | c (mm) | 600 | 600 | 600 | 600 |
| | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 591 | 591 | 591 | 591 |
| | 1.8.1 | Load distance, centre of drive axle to fork (ISS Carriage) | x (mm) | 608 | 608 | 608 | 608 |
| | 1.9 | Wheelbase | y (mm) | 2100 | 2100 | 2100 | 2100 |
| Weights | 2.1 | Service weight | kg | 7225 | 7225 | 7225 | 7520 |
| | 2.2 | Axle loading, laden front / rear | kg | 10323 / 1402 | 10323 / 1402 | 10323 / 1402 | 11041 / 1478 |
| | 2.3 | Axle loading, unladen front / rear | kg | 3271 / 3954 | 3271 / 3954 | 3271 / 3954 | 3206 / 4314 |
| Tyres/chassis | 3.1 | Tyres: P = pneumatic, V = cushion, SE = superelastic | | SE | SE | SE | SE |
| | 3.2 | Tyre size, front | | 300x15 | 300 x 15 | 300 x 15 | 300 x 15 |
| | 3.3 | Tyre size, rear | | 28 x 9-15 | 28 x 9-15 | 28 x 9-15 | 28 x 9-15 |
| | 3.5 | Number of wheels, front/rear (x = driven wheels) | | 2x / 2 | 2x / 2 | 2x / 2 | 2x / 2 |
| | 3.6 | Tread, front | $b_{10}$ (mm) | 1150 | 1150 | 1150 | 1150 |
| | 3.7 | Tread, rear | $b_{11}$ (mm) | 1162 | 1162 | 1162 | 1162 |
| Dimensions | 4.1 | Tilt of mast/fork carrige, forward / backward | $\alpha$ / $\beta$ (°) | 6 / 10 | 6 / 10 | 6 / 10 | 6 / 10 |
| | 4.2 | Height, mast lowered | $h_1$ (mm) | 2215 | 2215 | 2215 | 2215 |
| | 4.3 | Free lift ▲ | $h_2$ (mm) | 100 | 100 | 100 | 100 |
| | 4.4 | Lift ▲ | $h_3$ (mm) | 2740 | 2740 | 2740 | 2740 |
| | 4.5 | Height, mast extended ✚ | $h_4$ (mm) | 3730 | 3730 | 3730 | 3730 |
| | 4.7 | Height of overhead guard (cabin) | $h_6$ (mm) | 2300 | 2300 | 2300 | 2300 |
| | 4.8 | Seat height relating to SIP/stand height ✘ | $h_7$ (mm) | 1321 | 1321 | 1321 | 1321 |
| | 4.12 | Coupling height | $h_{10}$ (mm) | 429 | 429 | 429 | 429 |
| | 4.19 | Overall length | $l_1$ (mm) | 4457 | 4457 | 4457 | 4500 |
| | 4.20 | Length to face of forks (Standard Carriage) | $l_2$ (mm) | 3257 | 3257 | 3257 | 3300 |
| | 4.20.1 | Length to face of forks (Integrated Side Shift Carriage) | $l_2$ (mm) | 3274 | 3274 | 3274 | 3317 |
| | 4.21 | Overall width ❑ | $b_1$ (mm) | 1450 / 1575 / 1875 | 1450 / 1575 / 1875 | 1450 / 1575 / 1875 | 1450 / 1575 / 1875 |
| | 4.22 | Fork dimensions ISO 2331 | s/e/l (mm) | 60 / 150 / 1200 | 60 / 150 / 1200 | 60 / 150 / 1200 | 60 / 150 / 1200 |
| | 4.23 | Fork carriage ISO 2328, class/type A, B | | IVA | IVA | IVA | IVA |
| | 4.24 | Fork carriage width (Standard Carriage) ✚ | $b_3$ (mm) | 1219 | 1219 | 1219 | 1219 |
| | 4.24.1 | Fork carriage width (ISS Carriage) ✚ | $b_3$ (mm) | 1372 | 1372 | 1372 | 1372 |
| | 4.31 | Ground clearance, laden, below mast | $m_1$ (mm) | 194 | 194 | 194 | 194 |
| | 4.32 | Ground clearance, centre of wheelbase | $m_2$ (mm) | 237 | 237 | 237 | 237 |
| | 4.33 | Load dimension $b_{12} \times l_6$ crossways | $b_{12} \times l_6$ (mm) | 1200 x 1000 | 1200 x 1000 | 1200 x 1000 | 1200 x 1000 |
| | 4.34 | Aisle width predetermined load dimensions ❍ | $A_{st}$ (mm) | 4628 | 4628 | 4628 | 4668 |
| | 4.34.1 | Aisle width with pallets 1000mm x 1200mm crossways ❍ | $A_{st}$ (mm) | 4828 | 4828 | 4828 | 4868 |
| | 4.34.2 | Aisle width with pallets 800mm wide x 1200mm lengthways ❍ | $A_{st}$ (mm) | 4828 | 4828 | 4828 | 4868 |
| | 4.35 | Turning radius | $W_a$ (mm) | 2837 | 2837 | 2837 | 2877 |
| | 4.36 | Internal turning radius | $b_{13}$ (mm) | 800 | 800 | 800 | 800 |
| | 4.41 | 90° intersecting aisle (with pallet W = 1200mm, L = 1000mm) | (mm) | 2447 | 2447 | 2447 | 2469 |
| | 4.42 | Step height (from ground to running board) | (mm) | 844 | 844 | 844 | 844 |
| | 4.43 | Step height (between intermediate steps between running board and floor) | (mm) | 484 | 484 | 484 | 484 |
| Performance data | 5.1 | Travel speed laden/unladen | km/h | 18.7 / 19.2 | 23.2 / 23.9 | 23.2 / 23.9 | 18.7 / 19.2 |
| | 5.1.1 | Travel speed, laden/unladen, backwards | km/h | 18.7 / 19.2 | 18.7 / 19.2 | 18.7 / 19.2 | 18.7 / 19.2 |
| | 5.2 | Lift speed, laden/unladen | m/s | 0.45 / 0.46 | 0.45 / 0.46 | 0.45 / 0.46 | 0.45 / 0.46 |
| | 5.3 | Lowering speed, laden/unladen | m/s | 0.51 / 0.42 | 0.51 / 0.42 | 0.51 / 0.42 | 0.51 / 0.42 |
| | 5.5 | Drawbar pull, laden/unladen * | N | 27516 / 18782 | 32917 / 18782 | 32917 / 18782 | 27458 / 18399 |
| | 5.7 | Gradeability, laden/unladen ** | N | 24 / 28.3 | 29.1 / 28.3 | 29.1 / 28.3 | 23.3 / 26.5 |
| | 5.9 | Acceleration time, laden/unladen *** | % | 5.4 / 4.5 | 5.5 / 4.7 | 5.5 / 4.7 | 5.4 / 4.5 |
| | 5.10 | Service brake | s | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| | 7.5 | Fuel consumtion according to VDI cycle | l/h or kg/h | 5.1 | 5.3 | 5.3 | 5.4 |
| | 8.1 | Type of drive unit | | Hydrodynamic | Hydrodynamic | Hydrodynamic | Hydrodynamic |
| Addition data | 10.1 | Operating pressure for attachments | bar | 155 | 155 | 155 | 155 |
| | 10.2 | Oil volume for attachments ◊ | l/min | 83.3 | 83.3 | 83.3 | 83.3 |
| | 10.3 | Hydraulic oil tank, capacity | litres | 67.8 | 67.8 | 67.8 | 67.8 |
| | 10.4 | Fuel tank, capacity | litres | 100.3 | 100.3 | 100.3 | 100.3 |
| | 10.7 | Sound pressure level at the driver's seat ☞ ★ | dB(A) | 79 | 79 | 79 | 79 |
| | 10.7.1 | Sound power level during the workcycle ◆ | dB(A) | 99 | 99 | 99 | 99 |
| | 10.7.2 | Guaranteed sound power 2000/14/EC | dB(A) | 103 | 103 | 103 | 103 |
| | 10.8 | Towing coupling, type DIN | | Pin | Pin | Pin | Pin |

▲ Top of forks.
◗ Add 32mm with load backrest.
✘ Full suspension seat in depressed position.
✚ W/o load backrest, add 32mm with load backrest.
❑ Standard/Wide/Dual.
❍ Stacking aisle width (lines 4.34 & 4.34.1 & 4.34.2) are based on the V.D.I. standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of the truck.
* at 1.6km/h.
** at 4.8km/h. Gradeability figures are provided 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.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Yale | Yale | Yale | Yale | Yale | | Manufacturer (abbreviation) | 1.1 | Distinguishing mark |
| **GDP 50VX** | | **GDP 55VX** | | | | Manufacturer's type designation | 1.2 | |
| Kubota 3.8L Techtronix 200, 2-Speed | Kubota 3.8L Techtronix 200, 2-Speed | Kubota 3.8L Techtronix 100, 1-Speed | Kubota 3.8L Techtronix 200, 2-Speed | Kubota 3.8L Techtronix 200, 2-Speed | | Engine/Transmission | | |
| Value | Productivity | Value | Value | Productivity | | Model | | |
| Premium Oil-immersed | Premium Oil-immersed | Premium Oil-immersed | Premium Oil-immersed | Premium Oil-immersed | | Brake Type | | |
| Diesel | Diesel | Diesel | Diesel | Diesel | | Drive: electric (battery or mains), diesel, petrol, fuel gas | 1.3 | |
| Seated | Seated | Seated | Seated | Seated | | Operator type: hand, pedestrian, standing, seated, orderpicker | 1.4 | |
| 5.0 | 5.0 | 5.5 | 5.5 | 5.5 | Q (t) | Rated capacity / rated load | 1.5 | |
| 600 | 600 | 600 | 600 | 600 | c (mm) | Load centre distance | 1.6 | |
| 591 | 591 | 591 | 591 | 591 | x (mm) | Load distance, centre of drive axle to fork | 1.8 | |
| 608 | 608 | 608 | 608 | 608 | x (mm) | Load distance, centre of drive axle to fork (ISS Carriage) | 1.8.1 | |
| 2100 | 2100 | 2100 | 2100 | 2100 | y (mm) | Wheelbase | 1.9 | |
| 7520 | 7520 | 7811 | 7811 | 7811 | kg | Service weight | 2.1 | Weights |
| 11041 / 1478 | 11041 / 1478 | 11754 / 1558 | 11754 / 1558 | 11754 / 1558 | kg | Axle loading, laden front / rear | 2.2 | |
| 3206 / 4314 | 3206 / 4314 | 3134 / 4677 | 3134 / 4677 | 3134 / 4677 | kg | Axle loading, unladen front / rear | 2.3 | |
| SE | SE | SE | SE | SE | | Tyres: P = pneumatic, V = cushion, SE = superelastic | 3.1 | Tyres/chassis |
| 300 x 15 | 300 x 15 | 300 x 15 | 300 x 15 | 300 x 15 | | Tyre size, front | 3.2 | |
| 28 x 9-15 | 28 x 9-15 | 28 x 9-15 | 28 x 9-15 | 28 x 9-15 | | Tyre size, rear | 3.3 | |
| 2x / 2 | 2x / 2 | 2x / 2 | 2x / 2 | 2x / 2 | | Number of wheels, front/rear (x = driven wheels) | 3.5 | |
| 1150 | 1150 | 1150 | 1150 | 1150 | $b_{10}$ (mm) | Tread, front | 3.6 | |
| 1162 | 1162 | 1162 | 1162 | 1162 | $b_{11}$ (mm) | Tread, rear | 3.7 | |
| 6 / 10 | 6 / 10 | 6 / 10 | 6 / 10 | 6 / 10 | $\alpha$ / $\beta$ (°) | Tilt of mast/fork carrige, forward / backward | 4.1 | Dimensions |
| 2215 | 2215 | 2215 | 2215 | 2215 | $h_1$ (mm) | Height, mast lowered | 4.2 | |
| 100 | 100 | 100 | 100 | 100 | $h_2$ (mm) | Free lift ▲ | 4.3 | |
| 2740 | 2740 | 2740 | 2740 | 2740 | $h_3$ (mm) | Lift ▲ | 4.4 | |
| 3730 | 3730 | 3730 | 3730 | 3730 | $h_4$ (mm) | Height, mast extended ✚ | 4.5 | |
| 2300 | 2300 | 2300 | 2300 | 2300 | $h_6$ (mm) | Height of overhead guard (cabin) | 4.7 | |
| 1321 | 1321 | 1321 | 1321 | 1321 | $h_7$ (mm) | Seat height relating to SIP/stand height ✘ | 4.8 | |
| 429 | 429 | 429 | 429 | 429 | $h_{10}$ (mm) | Coupling height | 4.12 | |
| 4500 | 4500 | 4541 | 4541 | 4541 | $l_1$ (mm) | Overall length | 4.19 | |
| 3300 | 3300 | 3341 | 3341 | 3341 | $l_2$ (mm) | Length to face of forks (Standard Carriage) | 4.20 | |
| 3317 | 3317 | 3358 | 3358 | 3358 | $l_2$ (mm) | Length to face of forks (Integrated Side Shift Carriage) | 4.20.1 | |
| 1450 / 1575 / 1875 | 1450 / 1575 / 1875 | 1450 / 1575 / 1875 | 1450 / 1575 / 1875 | 1450 / 1575 / 1875 | $b_1$ (mm) | Overall width ❑ | 4.21 | |
| 60 / 150 / 1200 | 60 / 150 / 1200 | 60 / 150 / 1200 | 60 / 150 / 1200 | 60 / 150 / 1200 | s/e/l (mm) | Fork dimensions ISO 2331 | 4.22 | |
| IVA | IVA | IVA | IVA | IVA | | Fork carriage ISO 2328, class/type A, B | 4.23 | |
| 1219 | 1219 | 1219 | 1219 | 1219 | $b_3$ (mm) | Fork carriage width (Standard Carriage) ✚ | 4.24 | |
| 1372 | 1372 | 1372 | 1372 | 1372 | $b_3$ (mm) | Fork carriage width (ISS Carriage) ✚ | 4.24.1 | |
| 194 | 194 | 194 | 194 | 194 | $m_1$ (mm) | Ground clearance, laden, below mast | 4.31 | |
| 237 | 237 | 237 | 237 | 237 | $m_2$ (mm) | Ground clearance, centre of wheelbase | 4.32 | |
| 1200 x 1000 | 1200 x 1000 | 1200 x 1000 | 1200 x 1000 | 1200 x 1000 | $b_{12} \times l_6$ (mm) | Load dimension $b_{12} \times l_6$ crossways | 4.33 | |
| 4668 | 4668 | 4706 | 4706 | 4706 | $A_{st}$ (mm) | Aisle width predetermined load dimensions ❍ | 4.34 | |
| 4868 | 4868 | 4906 | 4906 | 4906 | $A_{st}$ (mm) | Aisle width with pallets 1000mm x 1200mm crossways ❍ | 4.34.1 | |
| 4868 | 4868 | 4906 | 4906 | 4906 | $A_{st}$ (mm) | Aisle width with pallets 800mm wide x 1200mm lengthways ❍ | 4.34.2 | |
| 2877 | 2877 | 2915 | 2915 | 2915 | $W_a$ (mm) | Turning radius | 4.35 | |
| 800 | 800 | 800 | 800 | 800 | $b_{13}$ (mm) | Internal turning radius | 4.36 | |
| 2469 | 2469 | 2490 | 2490 | 2490 | (mm) | 90° intersecting aisle (with pallet W = 1200mm, L = 1000mm) | 4.41 | |
| 844 | 844 | 844 | 844 | 844 | (mm) | Step height (from ground to running board) | 4.42 | |
| 484 | 484 | 484 | 484 | 484 | (mm) | Step height (between intermediate steps between running board and floor) | 4.43 | |
| 23.2 / 23.9 | 23.2 / 23.9 | 18.6 / 19.2 | 22.9 / 23.9 | 22.9 / 23.9 | km/h | Travel speed laden/unladen | 5.1 | Performance data |
| 18.7 / 19.2 | 18.7 / 19.2 | 18.6 / 19.2 | 18.6 / 19.2 | 18.6 / 19.2 | km/h | Travel speed, laden/unladen, backwards | 5.1.1 | |
| 0.45 / 0.46 | 0.45 / 0.46 | 0.45 / 0.46 | 0.45 / 0.46 | 0.45 / 0.46 | m/s | Lift speed, laden/unladen | 5.2 | |
| 0.51 / 0.42 | 0.51 / 0.42 | 0.51 / 0.42 | 0.51 / 0.42 | 0.51 / 0.42 | m/s | Lowering speed, laden/unladen | 5.3 | |
| 32859 / 18399 | 32859 / 18399 | 27302 / 17976 | 32703 / 17976 | 32703 / 17976 | N | Drawbar pull, laden/unladen * | 5.5 | |
| 28.3 / 26.5 | 28.3 / 26.5 | 21.7 / 24.8 | 26.3 / 24.8 | 26.3 / 24.8 | N | Gradeability, laden/unladen ** | 5.7 | |
| 5.5 / 4.6 | 5.5 / 4.6 | 5.6 / 4.5 | 5.6 / 4.7 | 5.6 / 4.7 | % | Acceleration time, laden/unladen *** | 5.9 | |
| Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic | s | Service brake | 5.10 | |
| 5.8 | 5.8 | 5.8 | 6.2 | 6.2 | l/h or | Fuel consumtion according to VDI cycle | 7.5 | |
| Hydrodynamic | Hydrodynamic | Hydrodynamic | Hydrodynamic | Hydrodynamic | kg/h | Type of drive unit | 8.1 | |
| 155 | 155 | 155 | 155 | 155 | | Operating pressure for attachments | 10.1 | Addition data |
| 83.3 | 83.3 | 83.3 | 83.3 | 83.3 | bar | Oil volume for attachments ◊ | 10.2 | |
| 67.8 | 67.8 | 67.8 | 67.8 | 67.8 | l/min | Hydraulic oil tank, capacity | 10.3 | |
| 100.3 | 100.3 | 100.3 | 100.3 | 100.3 | litres | Fuel tank, capacity | 10.4 | |
| 79 | 79 | 79 | 79 | 79 | litres | Sound pressure level at the driver's seat ⇨ ★ | 10.7 | |
| 99 | 99 | 99 | 99 | 99 | dB(A) | Sound power level during the workcycle ◆ | 10.7.1 | |
| 103 | 103 | 103 | 103 | 103 | dB(A) | Guaranteed sound power 2000/14/EC | 10.7.2 | |
| Pin | Pin | Pin | Pin | Pin | dB(A) | Towing coupling, type DIN | 10.8 | |

***to 15m (per VDI 2198 December 2012).
◊ Variable.
⇨ With and without cab.
★ Lpaz, Measured according to the test cycles and based on the weighting values contained in EN12053.
◆ LWAZ, measured according to the test cycles and based on the weighting values contained in EN12053.

**Specification truck based on:** 3050mm (GDP40 VX5-GDP40 VX6) / 2800mm (GDP45S VX5 - GDP55 VX) top of forks 2 stage LFL mast with standard carriage, 1000mm (GDP40 VX5) / 1200mm (GDP40 VX6 - GDP55 VX) forks with e-hydraulics.

**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.**

# VX series

Models: GDP 40VX5, 40VX6, 45SVX5, 45VX6, 50VX, 55VX

**Yale Veracitor VX Series**
This series of trucks is available in two configurations:-

***Value*** - excellent performance, lowest hourly operating cost.

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

**Diesel Engines**
Yale VX40-55 Value and Productivity models feature the electronically controlled Kubota V3800 E4 turbocharged diesel engine, delivering 55kW at 2200 rpm.

***Stage V compliance:***
Stage V fully compliant engines with DPF (Diesel Particular Filter) reduces emissions and removes diesel smell and soot particles from the exhaust. Stage V engines do not adversely affect the truck performance or productivity and acceleration and lifting/lowering speeds remain unchanged. Unlike some larger emission compliant machines the engine system does not utilise Diesel Emission Fluid (DEF; known as “Adblue”)

**Load Sensing Hydraulics (LSH)**
AccuTouch electrohydraulic controls (LSH)* deliver increased efficiency. The engine supplies power to the variable displacement hydraulic pumps only when required.

LSH has an ECO-eLo (Fuel Efficiency) mode, the truck operates in it’s economical power range. Faster work rate or higher productivity is available via HiP (High Performance) mode.

*(*Load Sensing Hydraulics is available on trucks with AccuTouch mini-levers, ECO-eLo function is available on trucks with Techtronix transmissions only).*

**Transmission**
Two transmission selections are available with multiple engine configurations for a wide variety of material handling applications. A single pedal controls both inching and braking.

***The Techtronix 100*** features electronic inching, Auto Deceleration System (ADS) through the controlled application of clutch packs to slow the truck down without the need to apply the foot brake. Controlled Power Reversal (CPR) reduces tyre spin by precisely regulating engine speed during full power reversal situations and Controlled Roll-Back (CRB) limits roll-back on gradients to 75mm per second.
***The Techtronix 200*** has all the Techtronix 100 features, plus Two Speed Auto Shift (2 x forward, 1 x reverse).

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

**Cooling System**
The cooling system employs a pushertype fan, water pump and high capacity, crossflow radiator to ensure rapid heat dissipation.

**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**
The Standard oil-immersed brake axle is a self-contained unit with its own oil supply, whereas the Premium oil-immersed brake axle features an additional oil supply routed through the Combi-Cooler. The Premium oil-immersed brakes axle should be specified into multiple shift operations, or where the brakes are in constant use. The Standard oil-immersed brake axle is not available on long wheelbase models.

**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**
Constructed from cast steel, the steer axle is rubber shock mounted to the frame for reduced wear and vibration.

**Continuous Stability Enhancement (CSE)**
The CSE system enhances lateral truck stability through reduced steer axle articulation, while simultaneously allowing uncompromised uneven surface travel.

**Operator’s Compartment**
All trucks are available with a mini-lever armrest, which features a contoured design, and - in addition to the hydraulic functions - features a horn and direction switch, ensuring that all key truck functions are within constant, easy reach. The Full Suspension Seat together with the isolated powertrain provide best in class Whole-Body Vibration levels of 0.6m/s$^2$, ensuring that the operator

remains comfortable throughout the shift and minimising the operator exposure to vibration over the shift. Automotive-style pedal arrangement with a large, single inch/brake pedal is standard.

A full range of cabs including heating and air conditioning are available.

**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.

Yale

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# VX series

Models: GDP 40VX5, 40VX6, 45SVX5, 45VX6, 50VX, 55VX

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