

# GC-VX Series

## Diesel and LP Gas Forklift Trucks

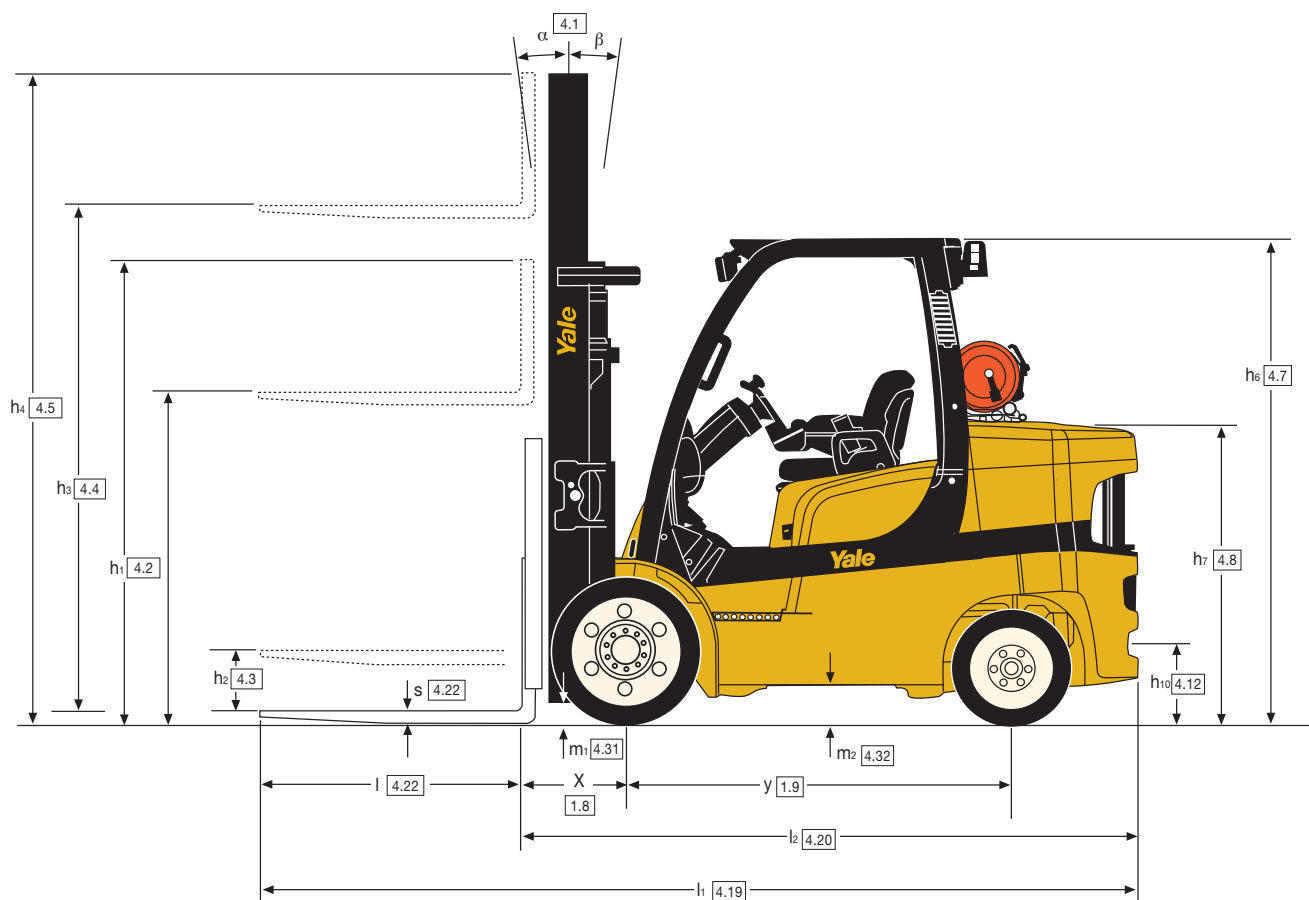
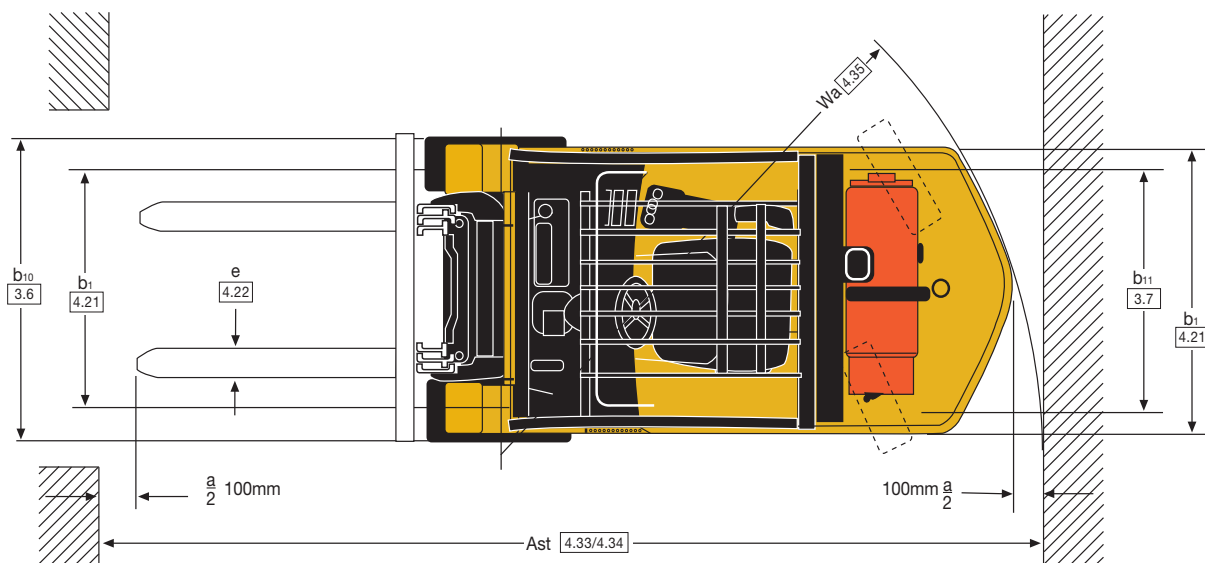
6,000kg and 7,000kg



- Designed for high-intensity indoor applications
- Compact design offers excellent manoeuvrability and delivers high productivity
- Intellix Vehicle Management System and CANbus technology monitor truck systems
- Techtronix 100 transmission delivers precise handling
- Accutouch minilevers or manual levers

**Yale**   
People. Products. Productivity.™

## Truck Dimensions



## Mast details and capacity ratings (kg) GLC/GDC 60VX - Cushion tyres

| Model                 |           |               |               |      |                | GLC/GDC 60 VX     |                    |  |
|-----------------------|-----------|---------------|---------------|------|----------------|-------------------|--------------------|--|
| Tyres                 |           |               |               |      |                | 28 x 12 x 22      |                    |  |
| Width across tyres    |           |               |               |      |                | 1438mm            |                    |  |
| Mast                  | OAH<br>h1 | FFH<br>h2 + s | MFH<br>h3 + s | h4   | Tilt<br>(Back) | Without sideshift | Integral sideshift | Integral side shifting fork positioner |
|                       |           |               |               |      |                | 600               | 600                | 600                                    |
|                       |           |               |               |      |                | LC                | LC                 | LC                                     |
| 2-Stage<br>LFL<br>(V) | 2197      | 160           | 2400          | 3632 | 10             | 6000              | 5730               | 5680                                   |
|                       | 2697      | 160           | 3400          | 4632 | 10             | 6000              | 5700               | 5650                                   |
|                       | 3197      | 160           | 4400          | 5632 | 10             | 6000              | 5650               | 5600                                   |
| 3-Stage<br>FFL<br>(E) | 2227      | 995           | 3800          | 5026 | 6              | 6000              | 5630               | 5570                                   |
|                       | 2527      | 1295          | 4700          | 5926 | 6              | 6000              | 5600               | 5550                                   |
|                       | 2827      | 1595          | 5600          | 6826 | 6              | 5800              | 5390               | 5340                                   |

## Mast details and capacity ratings (kg) GLC/GDC 70VX - Cushion tyres

| Model                 |           |               |               |      |                | GLC/GDC 70 VX     |                    |  |
|-----------------------|-----------|---------------|---------------|------|----------------|-------------------|--------------------|--|
| Tyres                 |           |               |               |      |                | 28 x 12 x 22      |                    |  |
| Width across tyres    |           |               |               |      |                | 1438mm            |                    |  |
| Mast                  | OAH<br>h1 | FFH<br>h2 + s | MFH<br>h3 + s | h4   | Tilt<br>(Back) | Without sideshift | Integral sideshift | Integral side shifting fork positioner |
|                       |           |               |               |      |                | 600               | 600                | 600                                    |
|                       |           |               |               |      |                | LC                | LC                 | LC                                     |
| 2-Stage<br>LFL<br>(V) | 2197      | 160           | 2400          | 3632 | 10             | 7000              | 6580               | 6530                                   |
|                       | 2697      | 160           | 3400          | 4632 | 10             | 7000              | 6550               | 6500                                   |
|                       | 3197      | 160           | 4400          | 5632 | 10             | 7000              | 6490               | 6440                                   |
| 3-Stage<br>FFL<br>(E) | 2227      | 995           | 3800          | 5026 | 6              | 7000              | 6430               | 6380                                   |
|                       | 2527      | 1295          | 4700          | 5926 | 6              | 7000              | 6400               | 6350                                   |
|                       | 2827      | 1595          | 5600          | 6826 | 6              | 6740              | 6190               | 6140                                   |

### Options

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

### Engine Specifications

#### Kubota

|              |                     |
|--------------|---------------------|
| Engine       | Kubota Turbo Diesel |
| Cylinders    | 4                   |
| Displacement | 3.8 litre           |
| Power        | 55 kW @ 2,270rpm    |
| Torque       | 308Nm @ 1,400rpm    |

#### GM, LPG

|              |                   |
|--------------|-------------------|
| Engine       | GM                |
| Cylinders    | 6                 |
| Displacement | 4.3 litre         |
| Power        | 77 kW @ 2,400rpm  |
| Torque       | 298 Nm @ 2,400rpm |

### Masts

A full range of Yale Hi-Vis™ 2 stage 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.

# VDI 2198 – General Specifications, Diesel and LP Gas Powered GLC/GDC 60VX, GLC/GDC 70VX

|                 |      |  |            |   |       |                             |       |   |       |
|-----------------|------|--|------------|---|-------|-----------------------------|-------|---|-------|
| Characteristics | 1.1  | Manufacturer   |            | Yale  |       | Yale                        |       | Yale  |       |
|                 | 1.2  | Model designation  |            | GDC 60 VX   |       | GDC 60 VX                   |       | GDC 70 VX   |       |
|                 |      | Power Train - Engine Transmission                        |            | Kubota 3.8L, Electronic 2 Speed optional soft shift |       | Kubota 3.8L, Techtronix 332 |       | Kubota 3.8L, Electronic 2 Speed optional soft shift |       |
|                 |      | Model - Manufacturer Designation                         |            | Base  |       | Value                       |       | Base  |       |
|                 |      | Brake Type   |            | Oil Immersed Brakes                                 |       | Oil Immersed Brakes         |       | Oil Immersed Brakes                                 |       |
|                 | 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)     | 6,000   |       | 6,000                       |       | 7,000   |       |
|                 | 1.6  | Load centre  | c (mm)     | 600   |       | 600                         |       | 600   |       |
| Weights         | 1.8  | Load distance  | x (mm)     | 500   |       | 500                         |       | 500   |       |
|                 | 1.9  | Wheelbase  | y (mm)     | 1830  |       | 1830                        |       | 1830  |       |
|                 | 2.1  | Unladen weight   | kg         | 8887  |       | 8887                        |       | 9751  |       |
| Wheels & Tyres  | 2.2  | Axle loading laden, front/rear                           | kg         | 13817   | 1194  | 13817                       | 1194  | 15475   | 1307  |
|                 | 2.3  | Axle loading unladen, front/rear                         | kg         | 3867  | 5020  | 3867                        | 5020  | 4051  | 5700  |
|                 | 3.1  | L = Pneumatic, V = Cushion, SE = Supercushion            |            | V   |       | V                           |       | V   |       |
|                 | 3.2  | Tyre size-front  |            | 28 x 12 x 22  |       | 28 x 12 x 22                |       | 28 x 12 x 22  |       |
|                 | 3.3  | Tyre size-rear   |            | 22 x 8 x 16   |       | 22 x 8 x 16                 |       | 22 x 8 x 16   |       |
|                 | 3.5  | Number of wheels, front/rear (X = driven)                |            | 2X / 2  |       | 2X / 2                      |       | 2X / 2  |       |
|                 | 3.6  | Track width, front                                       | b10 (mm)   | 1133  |       | 1133                        |       | 1133  |       |
| Dimensions      | 3.7  | Track width, rear  | b11 (mm)   | 1192  |       | 1192                        |       | 1192  |       |
|                 | 4.1  | Mast tilt, forward $\alpha$ /back $\beta$                | degrees    | 6   | 10    | 6                           | 10    | 6   | 10    |
|                 | 4.2  | Height of mast, lowered                                  | h1 (mm)    | 2697  |       | 2697                        |       | 2697  |       |
|                 | 4.3  | Free lift ▲  | h2 (mm)    | 100   |       | 100                         |       | 100   |       |
|                 | 4.4  | Lift height ▲  | h3 (mm)    | 3340  |       | 3340                        |       | 3340  |       |
|                 | 4.5  | Height of mast, extended +                               | h4 (mm)    | 4575  |       | 4575                        |       | 4575  |       |
|                 | 4.7  | Height to top of overhead guard ○                        | h6 (mm)    | 2302  |       | 2302                        |       | 2302  |       |
|                 | 4.8  | Seat height ✕  | h7 (mm)    | 1231  |       | 1231                        |       | 1231  |       |
|                 | 4.12 | Towing coupling height                                   | h10 (mm)   | 388   |       | 388                         |       | 388   |       |
|                 | 4.19 | Overall length   | l1 (mm)    | 4130  |       | 4130                        |       | 4130  |       |
|                 | 4.20 | Length to face of forks                                  | l2 (mm)    | 2930  |       | 2930                        |       | 2930  |       |
|                 | 4.21 | Overall width  | b1 (mm)    | 1438  |       | 1438                        |       | 1438  |       |
|                 | 4.22 | Fork dimensions  | s/e/l (mm) | 60 x 150 x 1200                                     |       | 60 x 150 x 1200             |       | 60 x 150 x 1200                                     |       |
|                 | 4.23 | Fork carriage to DIN 15173. Class, A/B                   |            | IVA   |       | IVA                         |       | IVA   |       |
|                 | 4.24 | Fork carriage width ▴                                    | b3 (mm)    | 1219  |       | 1219                        |       | 1219  |       |
|                 | 4.31 | Ground clearance under mast, laden                       | m1 (mm)    | 113   |       | 113                         |       | 113   |       |
|                 | 4.32 | Ground clearance at centre of wheelbase                  | m2 (mm)    | 188   |       | 188                         |       | 188   |       |
| Performance     | 4.33 | Aisle width with pallets 1000mm long x 1200mm wide       | Ast (mm)   | 4364  |       | 4364                        |       | 4364  |       |
|                 | 4.34 | Aisle width with pallets 800mm wide x 1200mm long        | Ast (mm)   | 4510  |       | 4510                        |       | 4510  |       |
|                 | 4.35 | Outer turning radius                                     | Wa (mm)    | 2585  |       | 2585                        |       | 2585  |       |
|                 | 4.36 | Inner turning radius                                     | b13 (mm)   | 108   |       | 108                         |       | 108   |       |
|                 | 5.1  | Travel speed laden/unladen                               | km/h       | 20.7  | 20.0  | 20.9                        | 20.0  | 20.7  | 20.0  |
|                 | 5.2  | Lifting speed laden/unladen                              | m/sec      | 0.48  | 0.49  | 0.48                        | 0.49  | 0.45  | 0.49  |
|                 | 5.3  | Lowering speed laden/unladen                             | m/sec      | 0.58  | 0.53  | 0.58                        | 0.53  | 0.58  | 0.53  |
|                 | 5.5  | Drawbar pull laden/unladen, @ 1.6km/h                    | N          | 38670   | 21870 | 45360                       | 23090 | 38360   | 23090 |
|                 | 5.6  | Maximum drawbar pull laden/unladen                       | N          | 50370   | 21870 | 45360                       | 23090 | 50050   | 23090 |
|                 | 5.7  | Gradeability laden/unladen, @ 4.8km/h                    | N          | 15.2  | 24.8  | 15.5                        | 24.8  | 13.4  | 22.4  |
| Motor           | 5.8  | Maximum gradeability laden/unladen, @ 1.6km/h            | %          | 26.2  | 24.8  | 31.5                        | 24.8  | 24.1  | 23.9  |
|                 | 5.10 | Service brake  |            | Hydraulic   |       | Hydraulic                   |       | Hydraulic   |       |
|                 | 7.1  | Engine manufacturer/type                                 |            | Kubota Turbo Diesel                                 |       | Kubota Turbo Diesel         |       | Kubota Turbo Diesel                                 |       |
|                 | 7.2  | Engine output, in accordance with ISO1585                | kW         | 55  |       | 55                          |       | 55  |       |
|                 | 7.3  | Governed speed   | rpm        | 2200  |       | 2200                        |       | 2200  |       |
| Other           | 7.4  | Number of cylinders/displacement                         | cm3        | 4   | 3769  | 4                           | 3769  | 4   | 3769  |
|                 | 7.5  | Fuel consumption per VDI test cycle                      | l/hr       | 6.17  |       | 6.17                        |       | 6.66  |       |
|                 | 8.1  | Drive control  |            | Hydrodynamic  |       | Hydrodynamic                |       | Hydrodynamic  |       |
|                 | 8.2  | Working pressure for attachments                         | bar        | 153   |       | 153                         |       | 153   |       |
|                 | 8.3  | Oil flow for attachments ↓                               | l/min      | 83.3  |       | 83.3                        |       | 83.3  |       |
|                 | 8.4  | Average noise level at operator's ear ★                  | dB(A)      | 81  |       | 81                          |       | 81  |       |
|                 |      | Guaranteed sound power 2001/14/EC                        | dB(A)      | 104   |       | 104                         |       | 104   |       |
|                 | 8.5  | Towing coupling type                                     |            | Pin   |       | Pin                         |       | Pin   |       |

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

▲ Top of forks.  
 ✕ Full suspension seat in depressed position.  
 ▴ Add 32mm with load backrest.

○ h6 subject to +/- 5mm tolerance.  
 + Without load backrest.



|                                |       |  |       |                           |       |  |       |                           |       |      |                 |
|--------------------------------|-------|--|-------|---------------------------|-------|--|-------|---------------------------|-------|------|-----------------|
| Yale                           |       | Yale   |       | Yale                      |       | Yale   |       | Yale                      |       | 1.1  | Characteristics |
| <b>GDC 70 VX</b>               |       | <b>GLC 60 VX</b>                                   |       | <b>GLC 60 VX</b>          |       | <b>GLC 70 VX</b>                                   |       | <b>GLC 70 VX</b>          |       | 1.2  |                 |
| Kubota 3.8L,<br>Techtronix 332 |       | GM 4.3L, Electronic 2 Speed<br>optional soft shift |       | GM 4.3L<br>Techtronix 332 |       | GM 4.3L, Electronic 2 Speed<br>optional soft shift |       | GM 4.3L<br>Techtronix 332 |       |      |                 |
| Value                          |       | Base   |       | Value                     |       | Base   |       | Value                     |       |      |                 |
| Oil Immersed Brakes            |       | Oil Immersed Brakes                                |       | Oil Immersed Brakes       |       | Oil Immersed Brakes                                |       | Oil Immersed Brakes       |       |      |                 |
| Diesel                         |       | LPG  |       | LPG                       |       | LPG  |       | LPG                       |       | 1.3  |                 |
| Seat                           |       | Seat   |       | Seat                      |       | Seat   |       | Seat                      |       | 1.4  |                 |
| 7,000                          |       | 6,000  |       | 6,000                     |       | 7,000  |       | 7,000                     |       | 1.5  |                 |
| 600                            |       | 600  |       | 600                       |       | 600  |       | 600                       |       | 1.6  |                 |
| 500                            |       | 500  |       | 500                       |       | 500  |       | 500                       |       | 1.8  | Weights         |
| 1830                           |       | 1830   |       | 1830                      |       | 1830   |       | 1830                      |       | 1.9  |                 |
| 9751                           |       | 8835   |       | 8835                      |       | 9699   |       | 9699                      |       | 2.1  |                 |
| 15475                          | 1307  | 13791  | 1168  | 13791                     | 1168  | 15449  | 1281  | 15449                     | 1281  | 2.2  | Wheels & Tyres  |
| 4051                           | 5700  | 3841   | 4994  | 3841                      | 4994  | 4025   | 5674  | 4025                      | 5674  | 2.3  |                 |
| V                              |       | V  |       | V                         |       | V  |       | V                         |       | 3.1  |                 |
| 28 x 12 x 22                   |       | 28 x 12 x 22                                       |       | 28 x 12 x 22              |       | 28 x 12 x 22                                       |       | 28 x 12 x 22              |       | 3.2  | Dimensions      |
| 22 x 8 x 16                    |       | 22 x 8 x 16  |       | 22 x 8 x 16               |       | 22 x 8 x 16  |       | 22 x 8 x 16               |       | 3.3  |                 |
| 2X / 2                         |       | 2X / 2   |       | 2X / 2                    |       | 2X / 2   |       | 2X / 2                    |       | 3.5  |                 |
| 1133                           |       | 1133   |       | 1133                      |       | 1133   |       | 1133                      |       | 3.6  | Performance     |
| 1192                           |       | 1192   |       | 1192                      |       | 1192   |       | 1192                      |       | 3.7  |                 |
| 6                              | 10    | 6  | 10    | 6                         | 10    | 6  | 10    | 6                         | 10    | 4.1  |                 |
| 2697                           |       | 2697   |       | 2697                      |       | 2697   |       | 2697                      |       | 4.2  | Motor           |
| 100                            |       | 100  |       | 100                       |       | 100  |       | 100                       |       | 4.3  |                 |
| 3340                           |       | 3340   |       | 3340                      |       | 3340   |       | 3340                      |       | 4.4  |                 |
| 4575                           |       | 4575   |       | 4575                      |       | 4575   |       | 4575                      |       | 4.5  | Other           |
| 2302                           |       | 2302   |       | 2302                      |       | 2302   |       | 2302                      |       | 4.7  |                 |
| 1231                           |       | 1231   |       | 1231                      |       | 1231   |       | 1231                      |       | 4.8  |                 |
| 388                            |       | 388  |       | 388                       |       | 388  |       | 388                       |       | 4.12 | Other           |
| 4130                           |       | 4130   |       | 4130                      |       | 4130   |       | 4130                      |       | 4.19 |                 |
| 2930                           |       | 2930   |       | 2930                      |       | 2930   |       | 2930                      |       | 4.20 |                 |
| 1438                           |       | 1438   |       | 1438                      |       | 1438   |       | 1438                      |       | 4.21 | Other           |
| 60 x 150 x 1200                |       | 60 x 150 x 1200                                    |       | 60 x 150 x 1200           |       | 60 x 150 x 1200                                    |       | 60 x 150 x 1200           |       | 4.22 |                 |
| IVA                            |       | IVA  |       | IVA                       |       | IVA  |       | IVA                       |       | 4.23 |                 |
| 1219                           |       | 1219   |       | 1219                      |       | 1219   |       | 1219                      |       | 4.24 | Other           |
| 113                            |       | 113  |       | 113                       |       | 113  |       | 113                       |       | 4.31 |                 |
| 188                            |       | 188  |       | 188                       |       | 188  |       | 188                       |       | 4.32 |                 |
| 4364                           |       | 4364   |       | 4364                      |       | 4364   |       | 4364                      |       | 4.33 | Other           |
| 4510                           |       | 4510   |       | 4510                      |       | 4510   |       | 4510                      |       | 4.34 |                 |
| 2585                           |       | 2585   |       | 2585                      |       | 2585   |       | 2585                      |       | 4.35 |                 |
| 108                            |       | 108  |       | 108                       |       | 108  |       | 108                       |       | 4.36 | Other           |
| 20.9                           | 20.2  | 20.5   | 19.8  | 21.3                      | 20.6  | 20.5   | 19.8  | 21.3                      | 20.6  | 5.1  |                 |
| 0.45                           | 0.49  | 0.53   | 0.53  | 0.53                      | 0.53  | 0.53   | 0.53  | 0.53                      | 0.53  | 5.2  |                 |
| 0.58                           | 0.53  | 0.56   | 0.43  | 0.56                      | 0.43  | 0.56   | 0.43  | 0.56                      | 0.43  | 5.3  |                 |
| 45360                          | 23090 | 39500  | 20100 | 44500                     | 20100 | 39200  | 19200 | 44500                     | 19200 | 5.5  | Other           |
| 45360                          | 23090 | 48300  | 20100 | 44500                     | 20100 | 48100  | 19200 | 44500                     | 19200 | 5.6  |                 |
| 13.7                           | 23.9  | 17.6   | 24.0  | 17.6                      | 24.0  | 15.9   | 21.6  | 16.0                      | 21.6  | 5.7  |                 |
| 27.9                           | 23.9  | 28.1   | 24.0  | 32.0                      | 24.0  | 25.3   | 21.6  | 29.1                      | 21.6  | 5.8  | Other           |
| Hydraulic                      |       | Hydraulic  |       | Hydraulic                 |       | Hydraulic  |       | Hydraulic                 |       | 5.10 |                 |
| Kubota Turbo Diesel            |       | GM 4.3L  |       | GM 4.3L                   |       | GM 4.3L  |       | GM 4.3L                   |       | 7.1  |                 |
| 55                             |       | 77   |       | 77                        |       | 77   |       | 77                        |       | 7.2  | Other           |
| 2200                           |       | 2400   |       | 2400                      |       | 2400   |       | 2400                      |       | 7.3  |                 |
| 4                              | 3769  | 6  | 4302  | 6                         | 4302  | 6  | 4302  | 6                         | 4302  | 7.4  |                 |
| 6.85                           |       | 6.17   |       | 6.17                      |       | 6.17   |       | 6.17                      |       | 7.5  | Other           |
| Hydrodynamic                   |       | Hydrodynamic                                       |       | Hydrodynamic              |       | Hydrodynamic                                       |       | Hydrodynamic              |       | 8.1  |                 |
| 153                            |       | 153  |       | 153                       |       | 153  |       | 153                       |       | 8.2  |                 |
| 83.3                           |       | 83.3   |       | 83.3                      |       | 83.3   |       | 83.3                      |       | 8.3  |                 |
| 81                             |       | 83   |       | 83                        |       | 83   |       | 83                        |       | 8.4  |                 |
| 104                            |       | 108  |       | 108                       |       | 108  |       | 108                       |       |      |                 |
| Pin                            |       | Pin  |       | Pin                       |       | Pin  |       | Pin                       |       | 8.5  |                 |

**Specification sheet based on:**  
 3400mm Top of Forks 2 stage LFL mast with standard carriage, 1200mm forks.

## GC-VX Series

Models: GLC/GDC 60VX, GLC/GDC 70VX

### Yale Veracitor GC-VX Series

This series of trucks is available in two configurations to match your material handling application requirements.

The Base model offers first-rate performance and is geared to minimize your cost of acquisition without compromising performance.

The Value model provides excellent performance and is optimized for lowest hourly cost of operation.

### Engines

Yale Veracitor VX GM V-6 Engines feature a rigid cast iron block and main bearing caps. The nodular iron crankshaft is supported on four main bearings and the camshaft is cast iron. Hydraulic valve lifters are used to eliminate the need for manual adjustment. The GM engine features hardened intake and exhaust valve seats with stellite coated valves for superior durability. All engines are EU emissions compliant and feature closed loop emissions regulation systems that continually monitor exhaust and adjust fuel/air mix as necessary. The GM engine also features an electronic throttle for precise performance and control.

The Kubota V3800 E3 turbo diesel engine features a two piece cylinder block for maximum durability while reducing engine noise. The cylinders are cast into the block for optimum durability and cooling efficiency and the cylinder heads feature a helical, 4-valve "Crossflow" design within each cylinder to create additional airflow into the cylinder for added power. The turbocharger is of a simple design, but uses a variable waste-gate to ensure the proper amount of boost at all engine speeds. The engine complies with current EU emissions regulations.

### Fuel System

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



The Kubota V3800 diesel fuel system utilizes an electronically controlled, high-pressure common-rail fuel system that sends five separate fuel deliveries per fuel injection power which dramatically reduces engine noise while providing more responsive power and better fuel efficiency at every rpm.

A cooled Exhaust Gas Recirculation (EGR) system reduces the NOx emissions by re-circulating a part of the exhaust gases back into the engine to directly reduce NOx inside the engine. The EGR is self-contained and avoids the need for any fuel additive. It requires the use of Low (<500ppm) or Ultra-Low (<15ppm) sulphur fuel - Diesel fuel with a higher sulphur content will compromise emissions performance and result in damage to EGR system components.

### Transmissions

There are two transmissions available that will handle a wide variety of material handling applications.

The standard electronic powershift transmission features two forward and two reverse speeds with electronic

shift control, smooth hydraulic inching, neutral start switch, and anti-restart protection. A single pedal controls both inching and braking. A 100 mesh suction and a 10 micron return line filtration protect the transmission from abrasive contaminants.

The Techtronix 332 includes all the features of the standard electronic powershift transmission and offers three speeds forward and two speeds in reverse for excellent gradeability and drawbar pull while allowing top travel speeds for maximum productivity.

In addition, the Auto Deceleration System (ADS), slows the truck down through the controlled application of clutch packs, 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.

### Cooling System

The cooling system employs a 48cm blade pusher-type fan. A permanently



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lubricated water pump and a high capacity, cross-flow radiator ensure rapid heat dissipation. The sealed cooling system operates at 15 psi, the coolant recovery tank allows visual inspection of coolant level. The combi-cooler radiator features an externally mounted transmission oil cooler for increased heat transfer capability. Both the radiator and oil cooler are built with square-wave construction to reduce clogging from debris and are soft-mounted for excellent durability.

### Drive Axle

The drive axle is designed to withstand heavy-duty loads and absorb shock loads. The wheel hubs rotate on large tapered roller bearings and the drive shaft transmits torsion to the drive axle from the engine and transmission. Transmission torque occurs through an industrial hypoid ring gear and pinion differential assembly. The drive axle is a self-contained assembly that is isolated from the transmission by a heavy-duty rubber isolator. The axle shafts feature a "rolled fillet" root spline design for increased resistance to torsion stress. A magnetic sump plug is used to collect any metal particles that are circulating in the axle oil, preventing component wear.

### Brakes

Oil immersed disc brakes are standard and internal to the axle for better protection against the elements debris and contamination. These low pedal effort brakes require no adjustments and very little maintenance, yet provide an extremely long service life.

The hydraulically boosted single circuit master cylinder has a sealed fluid reservoir and features a fluid level sensor which activates an indicator light located on the instrument panel. An independent, hand adjustable parking brake with push-button locking has an audible alarm to indicate when the operator has left the truck without applying the parking brake.

### 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

The steer axle is constructed of cast steel and 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. The steer axle system features tapered spindle bearings and non-adjustable tie rod end for durability.

### Operator Compartment

The frame has been designed by state-of-the-art finite element methods and contains a rugged, unitized structure with a low step height – this combined with a conveniently placed hand grip provides easy entry and exit to and from the truck. The ergonomically designed overhead guard is bar type and offers excellent visibility and reduced noise.

Cowl mounted hydraulic control levers positioned on the right side of the steering column are standard. All trucks are available with a 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.

The automotive-style pedal arrangement with a large, single inch/brake pedal is standard. Tilt cylinders are located beneath the floor for uncluttered space and a rubber floor mat reduces noise and vibration. The floor plate can be removed without tools for excellent, fast service access.

### Intellix Vehicle System Management (VSM)

The VSM acts as a master truck controller, providing extensive monitoring and control of truck functions and systems. CANbus technology reduces wiring complexity and enables comprehensive communications between truck



## GC-VX Series

Models: GLC/GDC 60VX, GLC/GDC 70VX

systems. The ergonomically positioned dash display transmits continual feedback to the operator and allows for the communication of service codes and comprehensive on-board diagnostics enable quick and easy troubleshooting. The electrical system features sealed connectors and Hall Effect sensors for superior dependability.

### Hydraulic System

The hydraulic system incorporates a gear type pump, cast iron body for quiet efficiency. The system is protected from overloads by a main relief valve for the lift circuit and a 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. The hydraulic tank is integrated into the frame. For electro-hydraulic 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.

### Masts

Yale Hi-Vis Masts are available in 2 Stage LFL and 3 Stage FFL configurations. Masts features flush-faced design with geometrically matched load roller bearings which are canted to support front and side thrust. The mast front rail flange angle coupled with three degree mast rollers significantly reduce channel and roller wear. A non-metallic phenolic mast trunnion bushing with woven reinforcement offers high load carrying capability with outstanding durability.



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**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