

ATLET BALANCE COUNTERBALANCE TRUCKS



ECOLOGISTICS

GL/DL 15, 18, 20, 25, 30, 32

COMBUSTION ENGINE POWERED, COUNTER-
BALANCE TRUCKS FOR TRANSPORTATION
LOADING AND UNLOADING

BALANCE



They are quiet, effective and productive. The GL/DL series fulfils the core values in Atlet's Balance counterbalance programme. A Balance truck provides equilibrium, balance and harmony in handling. With Atlet as your supplier, you gain access to more than just a complete range of warehouse and counterbalance trucks. Our Total concept also offers you a large number of truck-related services.

BALANCE – User comfort

Effective vibration and sound insulation, ample space and a comfortable, adjustable seat. A GL/DL series truck provides the operator with an ergonomic, comfortable workplace.



The goal when designing the GL/DL series was to create a working environment in which the operator will feel relaxed and alert, even towards the end of the working day. The operator's platform has therefore been designed after the latest ergonomic developments to reduce the risk of bodily wear and injury and enhance high productivity.

The operator is provided with ample leg room, and a comfortable, adjustable seat with seat belt and hip support which is quick and easy to get in and out of.

Finger tip controls are standard in the GL/DL series, enabling the operator to effortlessly control lift and tilt with one hand, making the handling of the truck and goods quick, easy and safe. Also available as an option is a multifunctional control which combines the truck's lift and tilt functions.

A rather common irritation for counterbalance truck operators is the excessive noise and vibration. The GL/DL series operator platform is mounted on a patented system which absorbs shocks, engine vibration and noise. This significantly reduces vibration and provides a vehicle that can boast one of the lowest noise levels in the class. Naturally, there are several cab configurations available to provide the operator with optimal protection against any type of weather. Among others there is the DL with the unique original cab providing an unequalled field of vision.



Unique field of vision

The original cab is totally in glass with wide doors and a wide front screen giving optimal all-round vision.

Shock absorption system

The operator's platform hangs on a patented 4-point shock absorber system. This effectively absorbs shocks and vibration, as well as reducing noise levels.



Operator adaptation

The steering column can be tilted. This makes it easy to adapt the truck to suit the individual operator.



Quieter

The GL/DL series sets new standards in terms of noise reduction. For example the 1.5 ton LPG model has a noise level of 77 dB(A), according to EN 12053.

BALANCE – Branch flexibility

Heavy, light, big and small. No two loads or their handling requirements are the same and the demands placed on a truck vary accordingly. With its wide range of accessories, the GL/DL series can be adapted to suit just your needs.

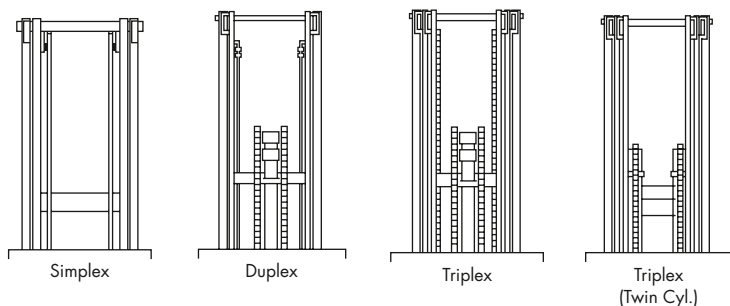
Different handling tasks call for different configurations. The GL/DL series can be adapted to suit your needs through, among other things, several telescope and double telescope masts; for example, there is a newly developed free-view double telescope mast which gives the operator added control over the load. A selection of tyres is also available, including radial tyres for improved comfort and reduced fuel consumption.

And there are a number of other accessories for improving the operator's working environment:

- fingertip controls on the arm rest for better ergonomics and safer operation
- panorama platform, 250 mm higher than the standard platform providing the operator with better vision when driving, particularly with a high load

There is also a wide range of operational accessories for the GL/DL series such as fork side-shift and spread units. This range of accessories in combination with the generous standard equipment provides you with a GL/DL truck for just your operation.





Mast selection

There are several different masts for the GL/DL series. Choose between various telescope and double telescope variants such as the newly introduced free-vision mast.



Sub particulate filter

Filter system (optional) for lower emission levels and faster filter cleaning.

Additional units

Various original fork side-shift and spread units along with the types of additional units for the GL/DL series suitable for almost any goods handling process that may arise.

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BALANCE – Environment and technology

Technical solutions which increase efficiency and safety at the same time as reducing environmental impact. The GL/DL series is designed to meet both stringent environmental and user requirements.

Fuel is expensive and emissions from combustion engines must be reduced. The DL series incorporates several technical solutions that reduce fuel consumption and emission while maintaining effectiveness.

LPG engines are, as standard, equipped with three-way catalytic converters and, as a result, have the lowest emission levels in the class. The LPG engines, Nissan's world leading model, also has regeneration control, or closed-loop as it is called. This is a system that automatically ensures that the engine receives the optimal fuel/air mixture depending on how hard it is working. This usually comes as an expensive option but is standard in the GL series. The GL/DL series meets the toughest environmental demands, such as the new European emission standard, 3A. The particulate filter as an option on the diesel engines which reduces emission levels still further.

The GL/DL series is not only environmentally friendly, it also has low fuel consumption and is efficient. Its sensor controlled injection system continuously supplies the engine with the optimal fuel/air mixture. This results in the best possible combustion, reducing both fuel consumption and emission. All the truck's functions, including the engine's, are monitored and controlled by an integrated system which ensures that the truck always performs optimally irrespective of the working conditions. In addition, its computer enables several user friendly functions, such as individual log-in via a PIN code, a self diagnostic system and service reminder, which, at the appropriate time, reminds the operator that a service is due.



LPG engine, K-series

Carbon monoxide emission

Without catalytic converter	100%
Two-way catalytic converter	25%
Three-way catalytic converter (without closed loop)	25%
Three-way catalytic converter + closed loop	19% H-series engine
Three-way catalytic converter + closed loop + ECCS	2% K-series engine

Hydrocarbon + nitrogen oxide emission

Without catalytic converter	100%
Two-way catalytic converter	63%
Three-way catalytic converter (without closed loop)	65%
Three-way catalytic converter + closed loop	3% H-series engine
Three-way catalytic converter + closed loop + ECCS	1% K-series engine

World leading engine technology

The GL series is powered by the Nissan world leading K-model engine. Its advanced control system ensures the best possible fuel/air mixture, which guarantees low fuel consumption and low emission levels. Closed loop is standard.

Eco-driving

All LPG trucks in the GL series are delivered with Eco-driving as standard. A simple press of a button reduces both noise levels and gas consumption. A speed control is also available as an option, enabling the maximum speed to be set at a level compatible with the operator's ability.



Environmentally adapted

The DL series diesel engines surpass Europe's most stringent emission demands. Advanced engine technology ensure that productivity is low and fuel consumption is low.



Environmentally friendly

The GL/DL series trucks not only have low emission levels, they are also assembled in environmentally certified factories, and almost 98% of the truck's components are recyclable.

BALANCE – Operator safety


Lift and tilt lock, stability control and automatic neutral setting when the operator leaves the cab. The GL/DL series has several innovative safety features to minimise the risk of personal injury and damage to goods and vehicles.

The GL/DL series has a number of safety features which help the operator to avoid hazardous situations:

- Stability control. A unique maintenance free system that curbs the truck's lean when turning and, thereby, reduces the risk of tipping on tight turns
- Mast locking system which locks all lift and tilt functions when the operator leaves the seat. Both the tilt and lift work normally directly the operator is seated again
- Automatic neutral setting. Three seconds after the operator leaves the seat, the gearbox shifts to neutral automatically to prevent the truck from moving of its own accord.

In addition to all the various technical safety features, the truck is also designed with a low centre of gravity to provide the best possible stability. The foot board to the cab is wide and low with a well placed handle enabling the operator to quickly and safely get in and out. Front and tail lamps, blinkers and reversing warning signal are standard equipment on all variants. The seat has both hip support and a seat belt.

The GL/DL series is, then, extremely safe, which guarantees optimal productivity and reduces the risk of injury and damage.



Mast locking system

When the operator removes his/her weight from the seat, all lifting and tilting functions are automatically locked. All these hydraulic functions are reactivated when the operator returns to the seat.



Safety design

Much emphasis has been placed on simple, functional safety features. A low centre of gravity, low and wide footboard and logically placed controls make for a safe truck.



Finger tip safety

With finger tip controls on the arm rest, the operator's left hand is always on the steering wheel. This provides full control of the truck at all times.



Panorama

Panorama vision is an optional feature on the GL/DL series. The operator platform is then placed 250 mm higher than standard height, providing better vision when handling high loads.

BALANCE – Handling capacity

Quick and true to the millimetre. With a GL/DL truck you acquire a work horse which meets today's high demands for universal efficiency.

Loading, unloading, transporting and stacking. No two processes are alike. Sometimes speed is required and sometimes precision. The GL/DL series trucks are equipped with high performance engines and hydraulic pumps which, in combination with good stability, place them among the most productive in their class. This applies whether the requirement is a truck for the rapid transportation of goods from A to B or a truck for millimetre precision loading/unloading or stacking.

Finger tip controls make the operator up to 10% more efficient, without added risk to safety, since all the truck's functions are controlled with the right hand. All GL/DL series models can be delivered with a joystick as optional extra for both lift and tilt control.

Since they can all be provided with different types of mast, tyres, side shift units and fork spread units etc. there is a GL/DL truck to suit just your needs.





One lever control

One control for simultaneous operation of lift and tilt. The system is available with both mechanical levers and fingertip control.



Quick and precise

With a maximum speed of up to 19.5 km/h and maximum lifting speed of 700 mm/sec, GL/DL series trucks work quickly. But they are not only fast, with exact steering, lift and tilt functions, they are also accurate.



Adaptable view

GL/DL is available with different mast configurations. It helps you adapt and optimize the truck to your company's material handling.



Neutral tilt

With a simple press of a button the forks are set to neutral position (option). This helps the operator to load and unload quickly and effortlessly without risk of damage to vehicles or goods.

BALANCE – Truck effectiveness

Low fuel consumption, high productivity and good ergonomics.

A GL/DL series truck gets the job done at a low total cost.

No matter the application, you can be sure that a GL/DL series truck will do the job. They are designed and built to quickly, effectively and with low maintenance requirements, perform all types of handling tasks. A wide range of optional equipment from masts and tyres to particulate filters means that the truck can be configured to precisely suit just your application.

The engines are fitted with three-way catalytic converters and combustion monitoring. This not only gives low emission levels but also reduces fuel consumption while maintaining maximum performance.

However, a high performance truck is of little value if the operator cannot work effectively because of a poorly planned working environment. Therefore the operator is provided with ample space and leg room, and the controls are such that he/she always has the left hand on the steering wheel while operating the other functions with the right hand. This means that the operator always has full control and can concentrate on the tasks at hand.

The GL/DL series also has several innovative safety features, such as lift and tilt locking and stability control, which help the operator avoid hazardous situations. This reduces the risk of personal injury and damage to machinery and goods, as well as minimising the truck's LCC, Life Cycle Cost.



Operator space

Good ergonomics with ample space and well placed controls. With a GL/DL truck, the operator can work quickly without the risk of bodily wear and tear.

Maintenance efficiency

Even though the service requirement is minimal, it is easy to access the engine compartment when necessary.



Low fuel consumption

The engines are high performance, have low fuel consumption and require little maintenance. For example the diesel engine in the DL25 uses not more than 2 litres/hour.

Options

The DL series has a wide range of optional equipment available; for example you can choose between finger tip controls or mechanical control levers.

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