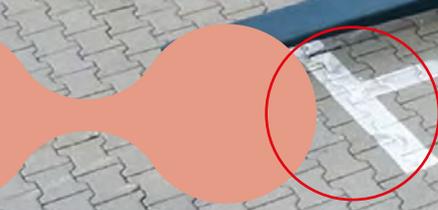




Medium Forklift

DCG100-180

22,000-40,000lbs



Greater lifetime savings

Keeping cargo moving forward is obviously of critical importance. Meanwhile, the performance of your forklift-and-driver teams has the most significant impact on cargo handling operations – both day-to-day and over time. That's because forklift-and-driver teams directly influence your ability to keep promises, generate future revenue as well as increase lifetime savings.

Introducing the Kalmar DCG100-180

Like all Kalmar solutions, the Kalmar DCG100-180 forklift offer greater total lifetime savings by improving the performance of your truck-and-driver teams. The DCG100-180 is a range of Kalmar trucks with a lifting capacity of 22,000-40,000lbs. Each model in the range is designed, built and delivered to keep truck uptime and driver productivity levels high – and keep running, maintenance and lifetime costs low.

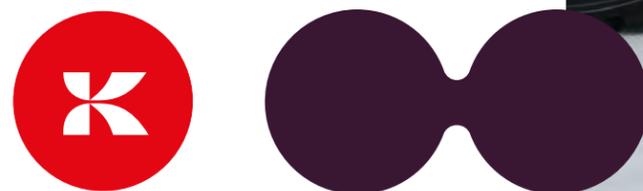
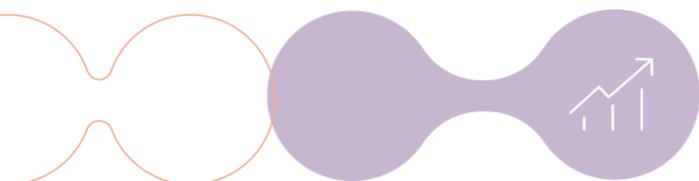
Delivering savings

It's simple: great truck-and-driver teams save your company time and money every working day – and over the lifetime of your business. The DCG100-180 is designed, built and delivered to offer greater total lifetime savings – capitalizing on insights from Kalmar's proven track record of producing more than 50,000 machines over the last 75 years, and over 12,000 G-Generation machines.. The DCG100-180 offers superior truck uptime as well as fuel and maintenance savings. As important, it incorporates the best driving environment in any lift truck – our new EGO cabin – loaded with features that inspire driver productivity, efficiency and safety.

Total lifetime savings

The following factors contribute to achieving total lifetime savings while owning, operating and maintaining a forklift. Every Kalmar DCG100-180 forklift helps you meet them all.

-  Forklift-and-driver productivity
-  Operational savings
-  Maintenance savings
-  Wear and spare part savings
-  Resale value
-  Purchase optimization.



 Save your company time and money every working day.



Ensuring high uptime levels.



Increased productivity

Ensuring cargo is handled in perfect condition and on time. It's the base for keeping your promises and generating revenue. Meanwhile, ensuring your driver can uphold delivery precision is dependent upon your forklift availability. Here are some of the ways the DCG100 -180 ensures high uptime levels.

Two diesel engines*

The Kalmar DCG100 -180 offers you the choice of both EU Stage IIIA and Stage V (EPA Tier 3 and Tier 4-Final) emission compliant engines. All combinations can run on regular diesel and synthetic diesel (like HVO). Volvo and Cummins cut particulate matters (PM) by 92% and cut nitrogen oxides (NOx) by 89%, when comparing EU Stage IIIA and Stage V (T3 vs T4F) engines. Both engines improve fuel efficiency whilst maintaining operational reliability, durability and performance. As important, both engines ensure maximum power and torque are available at low rpms.



Cummins QSB6.7 / B6.7 ratings:

EU Stage IIIA (EPA Tier 3):
max power 178 hp / max torque 590 lb-ft.

EU Stage V (EPA Tier 4-Final):
max power 173 hp / max torque 826 lb-ft.

EU Stage V (EPA Tier 4-Final):
max power 252 hp / max torque 875 lb-ft.
6-cylinder / volume 6,70 lit (408 cu.in.)



Volvo TAD-582-VE rating:

EU Stage V (EPA Tier 4-Final):
max power 215 hp / max torque 664 lb-ft.

4-cylinder / volume 5,10 lit (313 cu.in.)

Powerful hydraulics

The variable pumps automatically sense the load in every operation and adjust the oil flow accordingly, allowing for faster lifting cycles while reducing fuel consumption. New electric and load-sensing hydraulic systems (power-on-demand) mean quicker response, high lifting speed and increased control. This combination helps drivers be more productive while using less fuel.

Boosting uptime

The improved electronic system of the DCG100 -180 is a fast, intelligent and stable system that makes the forklift user-friendly and reliable. The electronics requires far fewer connection points and cables, which means fewer faults and improved operational reliability. The electronics also incorporate a modern, distributed and redundant CAN-bus (Controller Area Network) that ensures reliability. It monitors the condition and performance of the engine, gearbox, valves and more: controlling 500 measuring points, 50 times every second. This keeps the forklift and its engine components operational even in the worst-case scenario. The CAN-bus constantly provides condition-monitoring data via a 7" color display that is placed at eye level in the cabin – so the driver can make well-informed decisions.

Keeping clean and cool

A cooling system improves uptime and operational reliability of the DCG100 -180. It helps keep the engine compartment cooler, thus promoting a longer lifetime of engine, hydraulic and electrical components. We offer an optional reversible cooling fan that helps keep the radiator clean from potentially harmful dirt, dust or particles. A perfect option for sawmills or other dusty applications.

* Tier 3 engines are not for sale nor use in US/Canada nor territories thereof. Engines with other emission standards available.

Operational cost savings

As you know, no two drivers are identical. This is especially true when it comes to fuel consumption, driving safety and accident avoidance. Of course, even the best driver needs a great truck to help keep these costs low. A range of new features makes it easy to drive the DCG100-180 economically and safely – securing savings throughout every shift.

Reducing fuel consumption

Compared to our previous model, the DCG100-180 uses up to 15 percent less fuel in standard configuration. Add Kalmar's renowned product quality and reliability, increasing efficiency and uptime, and you see the true value of Kalmar.

All the power, 20% less fuel

To reduce the fuel consumption further we can offer the DCG100-180 with an optional drive axle and converter. The drive axle and converter is optimized to match the engine's performance and use the engine to its fullest. A lower rpm and an optimized gear ratio lowers the fuel consumption by up to 20% and makes the machine quieter to operate without losing any performance.

Eco Drive Modes

Choose between three optional drive modes, each optimized to meet your operational requirements. The forklift can be adapted to every task at hand, shifting many times during the day. The operator easily shifts between modes by using the cabin display screen.

Power

Brings out the maximum performance of your machine, allowing you to increase the number of tons moved per hour.

Normal

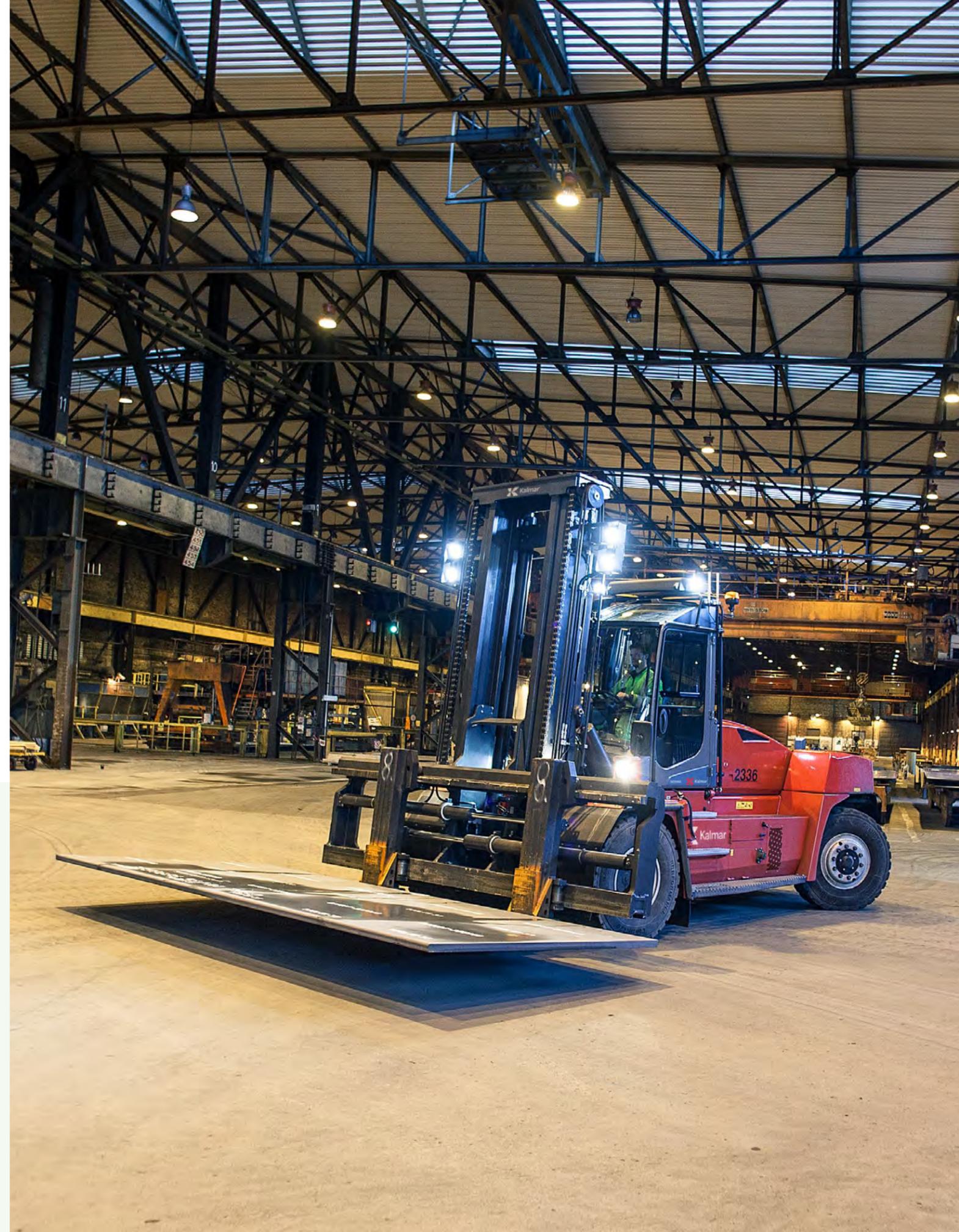
Balances power and economy to optimize profitability and reduce fuel consumption by up to 15%.

Save up to **15%**

Economy

If total cost of operations outweighs the need for performance, Economy Mode reduces fuel consumption by up to 25%.

Save up to **25%**



Ergonomic excellence



The DCG100 -180 offers your drivers Kalmar's most productive driving environment – our EGO cabin. The EGO cabin provides a great working environment, ergonomic excellence and many productivity enhancing features.

The EGO cabin incorporates a spacious curved front window that gives the operator excellent side-to-side and overhead visibility. Operators gain greater operating control and precision thanks to well placed, ergonomically improved instruments, levers, pedals, panels, switches and display. A closer look shows why the DCG100 -180 is such a great working environment. One test drive will prove it.

Ergonomic steering wheel.

Here's an ergonomic twist: EGO's steering wheel is not only adjustable; it can also be tilted to the side or forward. This decreases stress while driving and reversing. Thoroughly tested, it raises the ergonomics bar.

Comfort pedals. A flexible and safe pedal system gives an adjustable pedal angle. The ergonomics minimizes strain on the operator's foot. A floor-based solution that gives a hanging pedal feel.

Climate package. Complete and flexible climate control system that matches the highest demands. Large air intake, easy filter replacement in the front, well-dimensioned and designed components provide complete driving comfort and convenience.

Ergonomic multi-seat. The adjustable and fully integrated Kalmar seat. Designed and developed for maximum sitting posture, comfort and ergonomics for long shifts and demanding operations.

Operating console. The ergonomically designed operating console is fully adjustable, making sure that all controls are always within easy reach for your driver.

The optional joystick with built-in travel direction switch is designed to improve driving efficiency. It is optimized for maximum lifting capacity and ergonomically enhanced to reduce arm fatigue.

Optimized visibility. An open design with smart profiles and curved front and rear windows. Provides optimized views at all angles, with exceptional views diagonally forwards and backwards.

Work console. A natural extension of the driver's arm. Easy to set, adjust, and use. Ergonomic and flexible. Here are all the necessary controls, switches, levers and indicators for effective operations. Clear, well-placed panels. Steering wheel controls for data display as well as the whole control system.

Overhead guard. The EGO cabin is also available as an overhead guard. A simpler, more robust alternative that provides great visibility, safety and ergonomics. Durable and robust for all kinds of weathers.



Features and options



Kalmar attachments. Choose between a wide range of forks and attachments for different applications. We offer complete solutions whereby we assemble the attachment in the factory and integrate it with the truck's other functions.



Heavy duty lift equipment. Our long experience of extreme applications all over the world has gained us knowledge to optimize our lifting equipment. Kalmar's lifting equipment is by far the most heavy duty lifting equipment available on the market.



Engine options. Kalmar offers the DCG100-180 with a number of different engine options for regulated and non-regulated markets. Engines from both Volvo and Cummins are available in different ratings.



ECO drive axle option. A lower rpm and an optimized gear ratio lowers the fuel consumption by up to 20% and makes the machine quieter to operate without losing any performance.



Load sensing hydraulics. The variable pumps automatically sense the load in every operation and adjust the oil flow accordingly, allowing for faster lifting cycles up to 40 percent while reducing fuel consumption. This will improve your productivity a lot depending on number of lift cycles.



Temperature control fan. A cooling system improves uptime and operational reliability of the DCG100-180. It helps keep the engine compartment cooler, thus promoting a longer lifetime of engine, hydraulic and electrical components.



Reverse Warning System (RWS) option. Knowing what's going on behind you is critical when other personnel are present. Four rear sensors and a reversing camera relay real-time information to an in-cabin display, alerting the driver to any dangers, increasing personnel and driver safety.



Heat Protection Package option. To protect your machine and operator from extreme heat generated in foundries, where molten metal can reach 2000°C. All hoses in the mast and carriage are heat protected and an extra windshield is fitted to protect the cabin from splashes from the vat.



Alco-Lock. To ensure your driver is at their best when operating your equipment you can install an optional Alco-Lock system. This system makes sure that the driver meets alcohol blood level standards before being able to start the machine, much like a breathalyser.



Reversible Engine Fan. If your forklift needs to operate in dirty and dusty environments then a reversible fan can help keep your driveline cleaner and operating optimally. A perfect option for Sawmills.



Reverse Alarm option. When your staff are working side-by-side with moving vehicles there is always a safety risk. Installing a reverse alarm system provides a clear acoustic alert when the machine is reversing so personnel can make sure they stay out of harm's way at all times.



Tire Pressure Monitoring System option. Helps to reduce wear and tear on tires which results in reduced fuel consumption. Bluetooth sensors keep the driver advised of the condition of the tires at all times. Active care of your tires can result in a 10-40% increase in tire life and up to a 10% decrease in fuel consumption.



Additional lighting options. If you have to operate your machine at night, extra lighting can bring greater operational visibility and safety for personnel. You can choose additional LED working lamps on your cabin roof, on the mast or placed at the front or rear of your forklift.

What do you need to lift?

Choose between a wide range of lifting masts, carriages, forks and attachments. We offer complete solutions whereby we assemble the attachment in the factory and integrate it with the forklift's other functions.

Forestry industries

With our medium diesel forklift you will be able to handle most loads both indoors or out, including lumber packages, pulp, paper, board and waste. Moving raw materials off trucks or train trays, to moving wood around during the milling process or lifting and moving final goods ready for dispatch.



Metal industry

Our heavy diesel powered forklifts can lift, stack and transport metal slabs, blooms and billets or plates, coils, bars and pipes, which is made even easier and safer when you use speciality attachments including magnets, clamps, grippers, coil rams, forks or slings fitted to the lifting equipment. Also raw material supplies and recycling can be handled.



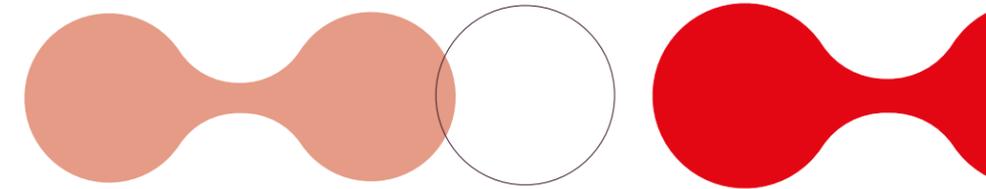
Concrete, Energy and Heavy Industry

Flat, round or bulky concrete sections, wavebreakers, bricks and rocks can be lifted with ease, as can hardware for the energy sector: like supplies for oil & gas offshore sites, or biomass and nuclear plants. Heavy loads for the wind turbines and their sub contractors; producing foundations, mono-piles, tower sections, nacelles and blades can also be lifted and moved safely and efficiently.



Logistics and stevedoring

Whether you're moving containers, handling various types of breakbulk, heavy project cargo or RoRo applications - Kalmar can deliver the efficient and safe material handling solution that you need.



Safety fitted as standard

All Kalmar equipment is compliant with EN 1175:2020.

At Kalmar, the safety of people working with our machines is always at the top of our minds, which is why meeting global safety standards is important to us. The safety standard EN 1175:2020, which sets the electrical and electronic component standards for industrial trucks, has been updated to improve the safety of these machines while in operation. This update is valid from April 2023. All Kalmar counter balanced machines, including reachstackers, empty container handlers and forklifts have been updated to meet this new standard to ensure that working with a Kalmar machine is as safe as it can be.

For Kalmar, the safety of your drivers and maintenance staff is of critical importance, which is why our machines come with many more safety features fitted as standard than other machines available in the market.

The features listed here come fitted as standard on all Kalmar machines. You can enhance your employees' safety further by fitting your machine with our additional safety options listed on the following pages.



2-point seat belt. Ensures that your driver is safe and secure while operating our equipment, all Kalmar machines are equipped with an adjustable 2-point seat belt system.



3-point Contact System. Makes sure your drivers are safe when entering or exiting our equipment. All machines are fitted with steps and handles to ensure they can always maintain three points of contact with the vehicle, helping to keep them safe and preventing incidental injuries.



Dual brake pedals. To avoid driver leg fatigue, every machine is equipped with dual brake pedals which require only heel to toe movements, allowing the driver to move his foot between the accelerator and brake pedals without having to move their leg.



Steps with anti-slip protection. To reduce the risk of your driver slipping or falling on our equipment, all entering and exiting points are fitted with non-slip surfaces giving them extra grip, so your drivers stay safe.



Control System. All our equipment is fitted with an electronic Control System for monitoring the machine's different functions while in operation, helping to keep your driver fully informed at all times with up-to-date Operating, Event Controlled and Error Code information.



Operating information. Our equipment's Control System provides several operating information menus, which give your operator and maintenance personnel a great insight into the on-going performance of the machine, allowing them to keep it running optimally.



Event controlled information. Provided through the Overload Protection System to warn the driver through the equipment's Control System if their load exceeds the specified safety limits.



Error code information. Should there be any issue with your equipment while in operation, the electronic control system will immediately alert your driver with the appropriate error code, so they know exactly what is going on and can take appropriate action.



Display. Cabins are fitted with a large easy to read display which keeps your drivers fully aware of the machine's on-going performance and any maintenance actions that need to be taken.



Control Breaker System for load handling. All of our equipment is fitted with a Control Breaker System, which automatically shuts down the load handling system should a fault occur, until the fault has been corrected. Keeping your driver, equipment and load safe.



Operator Presence Detection System. Maintains the highest levels of safety for both the driver and pedestrians, as all our equipment is fitted with an alarm or visual indicator that comes on automatically if:

- The driver does not fasten their seat belt while in operation.
- The driver leaves their seat without engaging the parking brake.

In addition, if the driver leaves their seat while the machine is operational, the transmission is automatically shifted to neutral and load-handling functions are disabled.



Engine/transmission Protection and Warning Systems. Warning systems, designed to protect your machine's driveline in case of higher than expected temperatures or a pressure build up, are standard on all equipment, avoiding unnecessary mechanical failures.



External reverse light. For the safety of others, all our equipment is equipped with external reversing lights that help the driver keep everyone informed that they are moving backwards.



LED lights. These come fitted as standard on all our equipment, providing better visibility when working in reduced light than halogen lights.



Neutral start switch. A neutral start switch means your driver can't start his machine while it is in gear, preventing any damage to the driveline and any uncontrolled equipment movements.



Protection against falling objects. Cabin roof windows on all our equipment are fitted with high strength materials which can withstand heavy blows, helping to protect your drivers from falling objects.



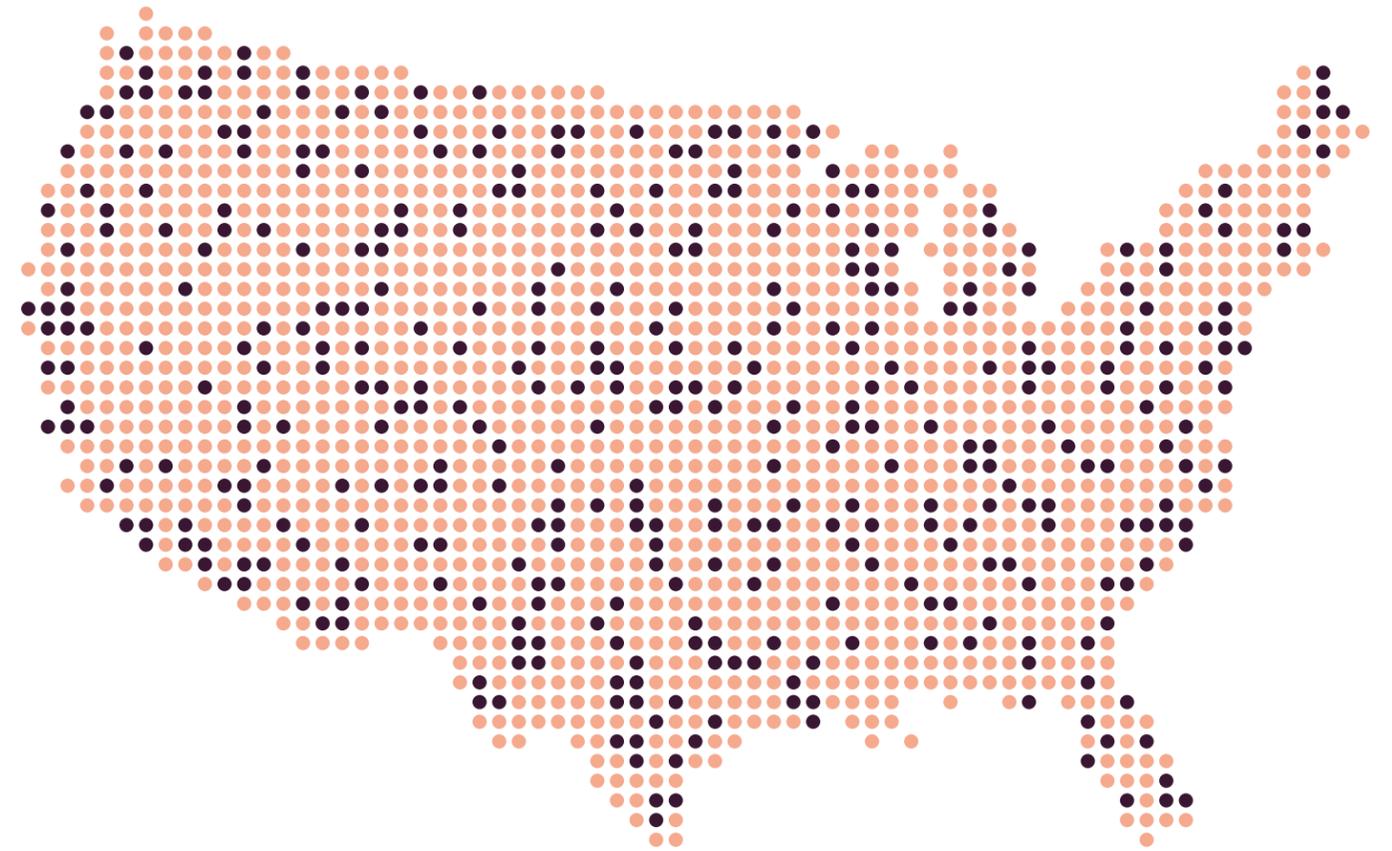
Good visibility. Kalmar cabins provide your drivers with excellent visibility, forwards, upwards, sideways and behind them to help them stay safe while in operation.



Making sure your business never stops

With over 170 dealer locations across the country, you will always get the support you need.

Your local dealer can discuss a range of financing and service options with you, tailored to meet your exact business needs. Plus, with a state-of-the-art parts distribution system, you will have immediate access to over \$10million worth of spare parts stocked on our dealers' shelves.



Over 170 dealers around the country to ensure you'll always get the support you need.



MyKalmar Insight

Optimize your operations with Insight. MyKalmar Insight* is a performance management tool for cargo handling, which gives you an easy to use overview of your fleet operations, by aggregating data from multiple sources, including equipment built by other manufacturers. Review your entire fleet activities, schedule maintenance activities and order

the required parts automatically. All enabling you to take action on real-time information, that will help improve your overall operations immediately. MyKalmar Insight comes fitted and ready to be activated in all new Kalmar equipment, it can also be retrofitted into existing Kalmar equipment or those built by other manufacturers.



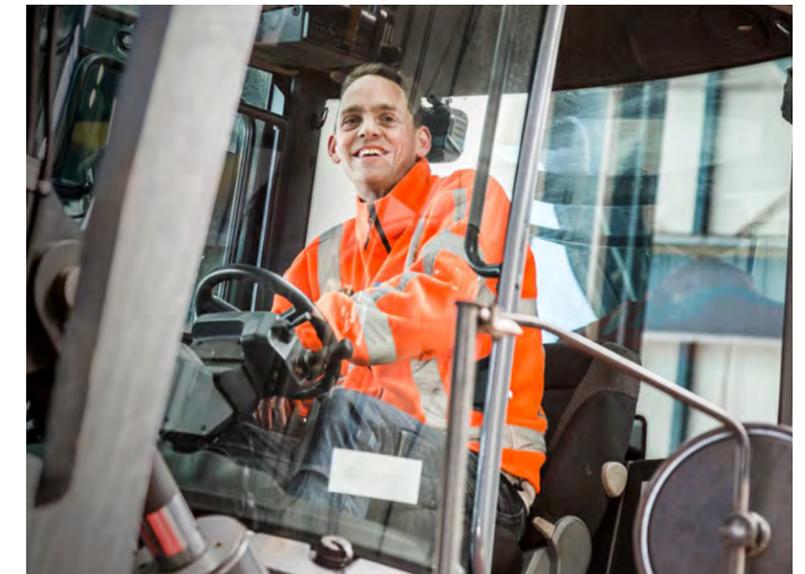
*Installation costs and/or an annual subscription fee may apply.

MyKalmar

Keeping your cargo moving. The MyKalmar portal brings together many of Kalmar's digital services into one place. With a single point of access and a user-friendly design you'll benefit from greater visibility and control over your equipment performance - helping you improve your operational performance, safety and efficiency across your entire fleet.

Kalmar Training

Enhance your skills. To get the most out of your new machine our training center offers a range of courses for both your technicians and operators. Operators can be taught how to drive the machine for optimum performance and minimum waste, and to learn what needs to be checked daily for optimal safety. Technicians can be educated with the knowledge they need to keep your new equipment in top condition in a safe way. Courses are a mix of theory and hands-on experience.



Standard^{*}

Norms, standards and regulations according to:

- Machinery Directive 2006/42/EC
- Safety Industrial Trucks Standard ISO 3691-1 + EN 16307-1
- Safety Low & High Lift Trucks Standard ANSI / ITSDF B56.1
- Stability Masted Forklift Trucks Standard ISO 22915-1, -2
- Electrics / Electronics Standard EN 1175
- Electromagnetic Compatibility Directive 2014/30/EC
- Electromagnetic Compatibility Standard EN 12895
- Noise Emission Directive 2000/14/EC and 2005/88/EC
- Noise Emission Standard EN 12053
- CE-marking (EU/EEA)
- ANSI / ITSDF-marking Forklift Trucks (USA/CAN)
- AS-marking (Australia)
- UKCA-marking (UK)
- Supply of Machinery (Safety) Regulations 2008 (UK)

Chassis

- Strong, durable and welded C-beam heavy-duty chassis
- Powerful front end unit for drive axle and lift mast fixations
- Solid tilt cylinder fixations in chassis and mast
- Full access to the entire powertrain with tilting cabin
- Very good visibility in forward, up, sideways and rearwards
- Low cabin mounting for easy access on both sides
- Access steps and handles on left side. Right side steps for emergency egress
- Lifting eyes and anchor points (front & rear)
- Towing pin in rear counter weight

Body

- Strong and protective steel fenders (front / rear)
- Long bottom running board between the fenders (anti-slip) on both sides
- Short access steps (2x) up to the cabin (anti-slip) on LHS
- Lamp brackets on front fenders (2x)
- Basic noise insulation kit of the forklift

Steer Axle (rear)

- Kalmar steer axle mounted dual pivot bearings
- Hydraulic power steering with double acting cylinder
- Steer axle with narrow turning radius
- Steer links of "dog-bone type" (easy to change)

Drive Axle (Front)

- Kessler D81 dual-input drive axle with hub reductions
- Maintenance-free oil-cooled Wet Disc Brakes (WDB)
- Dual parking brake, spring loaded & hydraulic release
- High pressure filter (10 µm) for the brakes

Wheels (Tires & Rims)

- DCG100-180, Tires 12.00 x 20" (Rim 8.00 x 20")

Drivetrain

- Volvo D5, EU stage 5 (EPA Tier 4-Final)
- Cummins 6.7, EU stage 3 & 5 (EPA Tier 3 & 4-Final)
- Diesel engines with pre-heater
- High power & torque with low fuel consumption
- Engine monitoring and protection systems
- Automatic transmissions ZF 3WG-161 or 3WG-171
- Transmission monitoring and reverse protection
- Declutch function activated by the brake pressure
- Strong radiators for engine, transmission & charge air
- Muffler and exhaust pipe in steel
- Diesel tank (45 gal) with breather filter

Load-Sensing Hydraulics

- Pressure filter for hydraulics / brakes (2x/10 µm)
- Load-sensing variable piston pumps (2x)
- Power-on-demand with high lift & lowering speeds
- Pumps for mast, carriage, brakes & steering
- Fixed pump for brake pressure & oil cooling

- Servo filter for the work hydraulics (10 µm)
- Pressure filter for hydraulics / brakes (10 µm)
- Power steering, power brakes & ORFS-couplings
- Hydraulic oil cooler unit (on RHS)
- Hydraulic tank (58 gal), cooling, breather filter & ORFS-couplings

Lift Mast

- Large selection of mast types and lifting heights.
- Duplex Standard; 2-stage mast, with free-visibility
- Strong, durable mast design (pair of cylinders/chains)
- Heavy-duty mast profiles and strong cross members
- Mast with strong mast wheels, bearings & guide rollers
- Large shafts-bearing for mast, strong tilt fixation
- Mast tilt angles +14° / -10° (FW / BW)

Fork Carriage

- Carriage with strong wheels, bearings & guide rollers
- Widths: 98"

Forks

- Fork mountings of roller-type

Electrical System 24V

- Electric cabinet on chassis, battery box, batteries 24V & main power switch
- Electric cabinet, mounted inside cabin
- 2 LED head lights on front fenders (one beam)
- 2 LED working lights on mast
- 2 LED working lights rear on cabin (reverse)
- 4 turn signal LED-lights (front - rear / left - right)
- 2 tail / 2 brake LED-lights rear in counter weight
- 2 flashing LED-brake lights (when reversing)
- 1 rotating warning LED-beacon

Cabin EGO

Structure

- Spacious, modern cabin with great ergonomy level
- Strong profiles, pillars and cross members
- FOPS certified drivers cabin (Falling object protection safety)
- Tiltable cabin with full access to drivetrain & hydraulics
- Large window sections with great visibility in all directions
- Large access doors with air-damper & key-lock
- Doors: sliding windows + access handles

Comfort

- Drivers seat, mech. spring suspension, low back
- Comfort seat, adjustable, sensor & 2-point belt
- Electric adjustable work console (up-down/fw-rev)
- Work console: lift levers, controls, lamp buttons etc
- Inside rear view mirror (right side)
- Interior lights with fade away function
- Fully adjustable steering wheel with tilt function
- Power steering wheel with steer knob

Controls

- Electric levers for mast, tilt & forks
- Auto rev-up accelerator at lifting / tilting / fork position
- Electric accelerator pedal (hanging)
- Dual brake pedals (L + R)
- Multi-function lever LHS (parking brake/travel direction switch)
- Combined horn and turn signal lever
- Warning - parking brake (on/off) leaving seat

Climate

- ECHV, electronic controlled heating & ventilation
- Powerful cab heater, power 10 kW (34,000 Btu)
- High-capacity ventilation unit - max air flow 284 cfm
- Multiple individual vents (8x upwards / 2x downwards)
- Fresh air and recirculation filter (replaceable)
- Double wipers / washers on front window (larger area)
- Single wipers / washers on roof and rear windows
- Interval wiper functions on front, roof and rear windows

Information Systems

- Kalmar CanBus controls with 4.3" monitor
- Menu controller with toggle wheel & push buttons

- Programmable settings and full monitoring of all main systems

ECO Drive Modes (EDM):

- Power mode
- Normal mode (default setting)
- Economy mode

Operator menu:

- System voltage
- Transmission gear
- Engine rpm
- Traveling speed (km/h or m/h)
- Combined hydraulic and brake oil temperature
- Transmission oil temperature
- Engine oil pressure
- Engine coolant temperature
- Clock and date
- Operating time (hours)
- Service time indicator (hours)
- Electronic weight scale functions (option)
- Status of heating system & AC (option) system
- Diesel fuel level and DEF level
- Est. operating time before empty tank (hour/min)
- Service indicator
- Trip computer / statistics

Various warning lights & signals:

- Charging battery
- Low brake pressure
- Failure indicator
- High engine coolant temperature
- Low engine coolant level (not on Cummins)
- Low engine oil pressure
- Preheating engine
- Transmission oil temperature
- Low fuel level and low DEF level
- Hydraulic and brake oil temperature
- Low washer fluid level

Indicator lamps:

- Direction indication
- Parking brake

Fleet Management

- Equipped with telemetric hardware for Kalmar Insight

Color

- Cabin: Iron-Grey RAL 7011
- Chassis, tanks & fenders: Red RAL 3000
- Mast, carriage and forks: Black RAL 7021
- Rims: Iron-Grey RAL 7011

Documentation and Decals

- Load chart inside cabin
- Machine data sign on chassis with load chart
- Warning, tire pressure & oil pressure stickers
- Information & levers/joystick stickers
- Fuse diagram
- Instruction manual
- Maintenance manual
- Spare parts catalog

Warranty

- Kalmar standard warranty: 12 months / 2000 hours

Options^{*}

Chassis

- Models with standard and short wheelbases
- Anti-slip strips: fenders, tanks & lamp brackets
- Extra mud flaps (front and rear)
- Steel grid protections: fender, mast & rear

Wheels (Tires and Rims)

- Spare wheels, tires and rims of various brands
- Diagonal and radial tires of well known brands
- Radials: Continental RT20 and Michelin XZM
- Other brands up on request

Drivetrain

- ZF 3WG-161 (3+3 gears)
 - Cummins QSB-6.7-C173 (EU3 / Tier 3, 173 hp, 590 lb-ft, 6.70 l, 6-cyl)
 - Cummins B-6.7-C173 (EU5 / Tier 4-Final, 173 hp, 826 lb-ft, 6.70 l, 6-cyl)
- ZF 3WG-171 (3+3 gears)
 - Cummins B6.7-C225 (EU5 / Tier 4-Final, 252 hp, 875 lb-ft, 6.70 l, 6-cyl)
 - Volvo TAD-582-VE (EU5 / Tier 4-Final, 215 hp, 664 lb-ft, 5.10 l, 4-cyl)
- Auto engine & ignition stop, after 5 min idle
- Air intake filter, with Pre-Cleaner, raised air intake
- Start/stop function (for Volvo engine only)

Hydraulics

- Extra hydraulic function including hoses (per function)
- Push-button hydraulic function via magnet valve
- Quick release couplings "aerogrip" 1/2" (per function)
- Individual fork positioning including 5th hydraulic function
- Hydraulic accumulator for lifting function
- Hydraulic accumulator for lifting function "auto on/off"
- Separated dual oil tanks including dual oil cooling
- Hydraulic oil heater 1 kW (single or double)
- Hydraulic oil cooler unit (on RHS) for brakes

Lifting Mast

- Duplex Standard (no FL); lift heights 118"-276"
- Duplex Freelift (full FL); lift heights 118"-276"
- Triplex Freelift (full FL); lift heights 177"-276"
- Duplex Heavy-duty (no FL); lift heights 157"-236"
- Other lift heights / closed heights upon request

Fork Carriage

- DCG100-180: Sideshift/fork positioning: width 98.4" / 116.1" / 135.8"
- DCG100-180: Sideshift/fork position + center leveling: width 98.4"135.8"
- Attachments: carriage sides, chain brackets & hoses
- Attachment of various brands for factory integration
- Other carriage width upon request
- Fixed carriage: manual moving forks (width 98.4")
- Sideshift carriage: manual moving forks (width 98.4")
- Sideshift/fork position: pin-type (width 98.4")

Forks

- Large selection of fork dimensions, tapering and designs
- See fork dimensions under Specifications
- Length: 47.2" up to 94.5" in steps
- Width: 7.9"-9.8"
- Thickness: 2.8"-3.9"
- Other cross sections and length upon request
- Tapering: standard 0-23.6" full thickness / 23.6"-tip with taper
- Tapering: various optional tapering / short or full taper
- Fork Shaft System; hook-on type / forks, coil ram or attachment
- Fork Shaft System; pin-type / forks, coil ram or attachment
- Kissing forks with chamfer inside/outside (integral roller-type)
- Kissing forks with chamfer inside/outside (FSS hook-on type)
- Hydraulic leveling fork (up/down) on left fork or / and right fork

Attachment

- Spreader - (Fork mounting):
 - Inverted forks
 - Coilram
 - Rotator
 - Load stabilizer
 - Mounting of attachments
 - Other attachments up on request

Electrical System (24V)

- Tuner FM-AM, RDS, MP3, USB, Bluetooth, Stream
- Tuner FM-AM, RDS, MP3, USB, Bluetooth, Stream / DAB
- Power sockets: 2x24V and 2x12V (in door columns)
- Power sockets: 2x24V / 1x12V / 2xUSB 5V
- Electric air pressure horn
- Reverse alarm (beeping or white noise - multi frequency)
- Protection against chain slack (electronics)
- Mast with automatic vertical function (auto-tilt)
- Buzzer when reversing (reverse alarm)
- 2 position LED-lights on each side of the truck

Lamps

- 2 extra LED working lights - in mast (FW)
- 2 extra LED working lights - rear on cabin (FW)
- 4 extra LED working lights - rear on cabin (mix)
- 6 extra LED working lights - rear on cabin (mix)
- 2 extra LED working lights - front on cabin roof
- 1 extra LED working lights - between tilt cylinder
- 2 high/low beam Halogen working lights (repl LED)
- 1 LED rotating warning beacon (on adjustable pole LHS)
- Blue safety light, rearward or forward
- Red safety light, rearward or forward
- Red safety zone light, Left and Right direction
- Rotating beacon LED, activated via reverse gear
- Other combination up on request

Safety functions

- Overload indication for lift/tilt with speed restriction
- Speed limitation; default 9 mph (set by technician)
- Speed limitation at specified load (set by technician)
- Speed limitation at specified lift height (set by technician)
- Speed restriction set by customer in display; default 9 mph
- Tire pressure monitoring system (TPMS / Bluetooth)
- Alcolock Draeger in cabin
- Big rear view mirrors on front fenders (2x) + 2x in the mast

Cabin EGO

Structure

- Globetrotter cabin +7.8" higher, roof 0.5" (repl 0.25")
- Elevated cabin 11.8"
- Rotatable Driver Seat, electric 180 deg (to the left)
- Turnable Driver Seat, manual 55 deg (to the right)
- Steel grid protection for front window
- Steel grid protection for roof window
- Door opening holder (left side and / or right side)
- Flat front window with steel profiles, tinted and laminated
- Roof window 0.5" (repl standard 0.25")
- Electric cabin tilt pump (up/down)
- Electric heated mirrors, front fender/standard pos
- External cabin reverse mirrors (2x)
- External cabin reverse mirrors (2x) with heating
- Electric heated + adjustable mirrors, front fenders

Comfort

- Air cushioned driver seat with horizontal suspension
- 3-point seat belt
- Extended seat backrest
- Headrest for driver's seat
- Armrest adjustable left side
- Seat heating
- Seat cover in vinyl
- Leather reinforced seat, high backrest, 3-point belt and heating
- Grammer Actimo XL, air cushion, heating, high back, 2-point belt

- BE-GE 3100, air cushion, heating, airvent, high back, 2-point belt, leather reinforced seat
- Isringhausen 6830KA/880, air cushion, heating, high back, 2-point belt
- Extra trainer seat with 2-point belt
- Bracket for terminal and monitor (RHS)

Controls

- Travel direction button on 1st lift lever (F-N-R)
- Electronic joystick (EGO)
- Electronic lever steering (without feedback)
- Electronic mini-wheel steering (no feedback)

Indicator lamps

- Head beam:
 - Direction indication (turn signals)
 - Parking brake

Climate

- ECC, electronic heating, cooling (AC) & ventilation
- Strong cooling unit, power 14.0 kW (47,700 Btu)
- Tinted windows including laminated front window
- Sun visors front, roof and rear windows

Additional Equipment

- Enhanced Safety Package:
 - Speed limitation default 9 mph (set by technician)
 - Blue safety light backwards via back alarm
 - Rear warning radar (for reverse camera/monitor in cabin)
 - Seat belt interlock (active before driving - seatbelt on)
- Semi-automatic fire suppression system (DAFO Forrex)
- Tool kit
- Central greasing system (14-18-24 grease points)
- Tilt indicator of mechanical type
- Tilt indicator of electronic type (in display)
- Electronic weight indicator in cabin control monitor
- Heat protection kit (with hoses)
- Heat protection mechanical kit
- Wheelnut protection
- Additional equipment for roadtraffic (LGF-sign)

Camera safety

- Modular full HD solutions (1920x1080p)
- Extra front mast camera - to cab monitor
- Extra front carriage camera - to cab monitor
- Radar warning sensors rear (2x) to cab monitor
- Monitor 7" Quad, max 4 connections (repl Dual)
- Monitor 10" Quad, max 4 connections (repl Dual)
- DVR recorder, up to 4 channels, with SD-card (128 GB)
- 360° birdview camera solution

Information Systems

- VDI - Vehicle Data Interface

Fleet Management (Kalmar Insight)

- Insight licence (only certified countries)
- Insight Driver Monitor (RFID reader + 10 driver tags)
- Insight extra driver tags (10 tags)

Color

- Other RAL color than standard, chassis
- Special and multiple colors, chassis
- Other color than standard, striping foil
- Reinforced anti-corrosion protection

Documentation & Decals

- Extra set of documentation
- Workshop manuals
- Load chart lbs/inch in cab & sign "no riders"
- Documentation on memory stick

Training

- Training packages (driver, service, maintenance, software)
- Contact Kalmar Training Center for more information

Warranty

- Additional warranty packages available:
 - Gold (complete forklift): max 5 yr/10,000h
 - Silver (drive line): max 3 yr/16,000h
 - Bronze (structural parts): max 10 yr/20,000h
- Contact Kalmar for more information

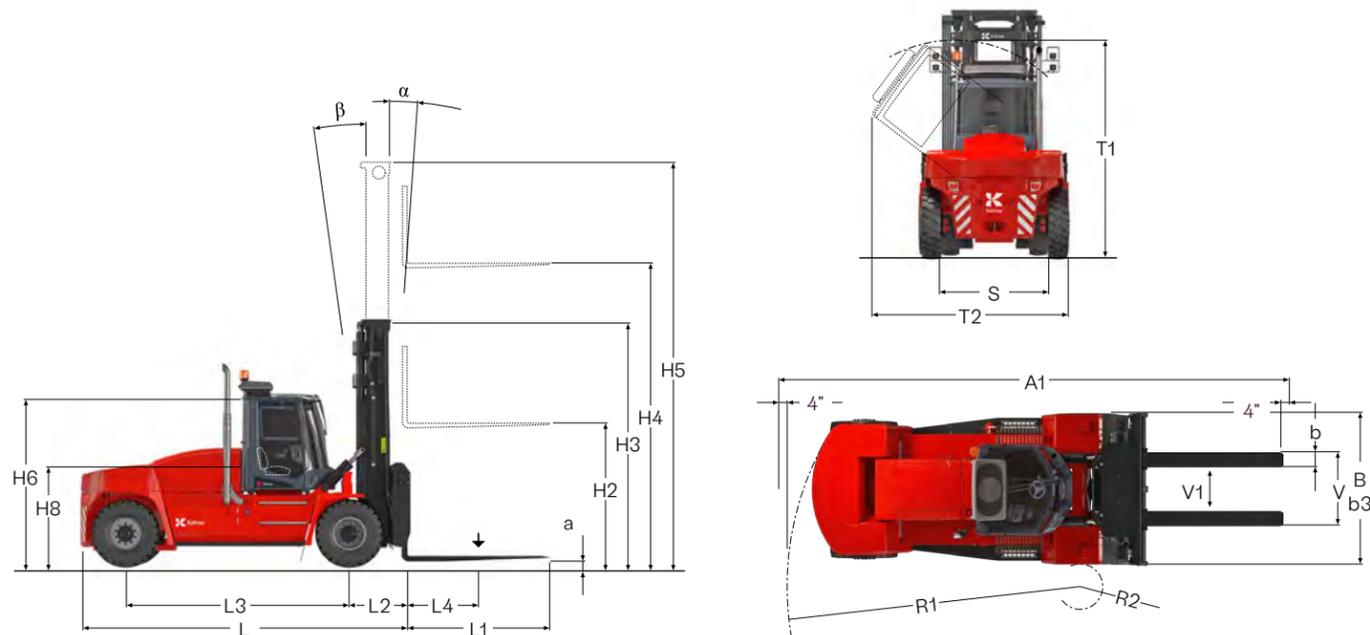
^{*}Specifications subject to change.

Drivetrain

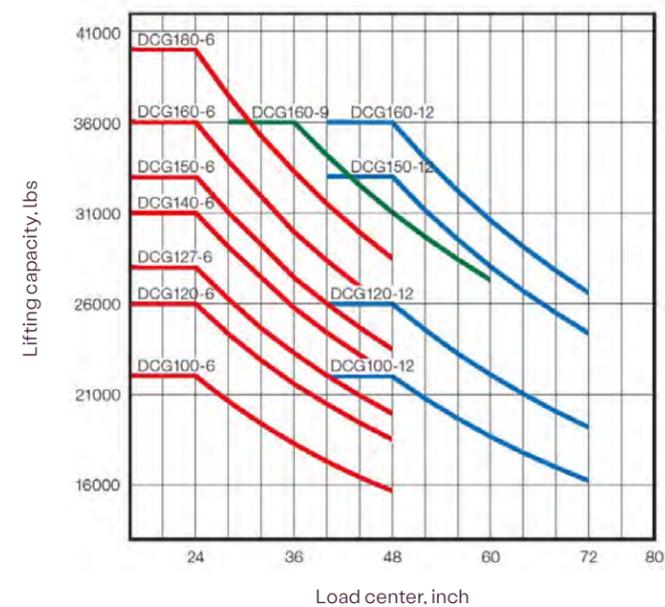
MODELS		DCG100-180	DCG100-180	DCG100-180	DCG100-180
Wheelbase	in	118 - 148	118 - 148	118 - 148	118 - 148
Drive motor, manufacturer - type designation ¹		Cummins QSB6.7-C173	Cummins B6.7-C173	Cummins B6.7-C225	Volvo TAD-582-VE
Fuel types, motor type		Diesel / HVO / 4-stroke			
Turbo charger / cooling		Turbo (FGT) + Intercooler	Turbo (VGT) + Intercooler	Turbo (VGT) + Intercooler	Turbo (FGT) + Intercooler
Engine after treatment type ²		No DEF, DOC, SCR or DPF	With DEF, DOC and ASC	With DEF, DOC and ASC	With DEF, DOC and ASC
Diesel particle filter (DPF)		No DPF	With DPF	With DPF	With DPF
Emission standards		EU stage IIIA / EPA Tier 3	EU stage V / EPA Tier 4-Final	EU stage V / EPA Tier 4-Final	EU stage V / EPA Tier 4-Final
Rated power / at revs (ISO 3046)	hp (kw) / rpm	173 (129) / 2200	173 (129) / 2200	225 (168) / 2200	215 (160) / 2200
Peak power / at revs (ISO 3046)	hp (kw) / rpm	178 (133) / 2000	173 (129) / 1100 - 2200	252 (188) / 1800 - 1900	215 (160) / 1700 - 2200
Peak torque / at revs (ISO 3046)	lb-ft (Nm) / rpm	590 (800) / 1400	826 (1120) / 1100	875 (1186) / 1300	664 (900) / 1300
Number of cylinders / displacement	cu.in. (lit)	6 / 408 (6.7)	6 / 408 (6.7)	6 / 408 (6.7)	4 / 313 (5.1)
Fuel consumption, normal driving ³	gal/h	1.6 - 2.6	1.6 - 2.6	1.6 - 2.6	1.6 - 2.4
AdBlue consumption, normal driving	%	-	4 - 6	4 - 6	4 - 6
GEARBOX & MISC		ZF 3WG-161	ZF 3WG-161	ZF 3WG-171	ZF 3WG-171
Clutch, type		Torque converter		Torque converter	
Gearbox, type		Hydrodynamic Powershift		Hydrodynamic Powershift	
Eco Drive Mode (EDM) drivetrain settings ³		3 modes / Eco, Normal & Power		3 modes / Eco, Normal & Power	
Numbers of gears, forward / reverse	W	3 / 3	3 / 3	3 / 3	3 / 3
Alternator, type / power	V / Ah	AC / 1680 (28V x 60A)	AC / 1960 (28V x 70A)	AC / 1960 (28V x 70A)	AC / 3080 (28V x 110A)
Starting battery, voltage / capacity		2x12V / 145Ah	2x12V / 145Ah	2x12V / 145Ah	2x12V / 145Ah

Notes:

1. Regular diesel based on EN590 (ASTM D975 no. 2-D)
Synthetic / paraffinic diesel based on EN 15940.
2. AdBlue / Diesel Exhaust fluid (DEF) doser unit
Diesel Oxidation Catalyst (DOC)
Diesel Particulate Filter (DPF)
Selective Catalyst Reduction (SCR)
Ammonia Slip Catalyst (ASR).
3. With Eco Drive Mode (EDM) drivetrain settings included.



Load diagram*



* DCG100-6 to DCG180-6 models: Full lifting capacity up to 197" lift height with duplex/duplex freelift/triplex masts and integrated side-shift/fork positioning carriage.

Performance

MODEL			All wheelbases (standard and short)				
Cummins engine			DCG100-6	DCG120-6	DCG127-6	DCG140-6	
			QSB6.7-C220 (EU Stage IIIA / EPA Tier 3)				
SPEEDS	Travel speed, forward - reverse	Unloaded	mph	18 - 18	18 - 18	19 - 19	19 - 19
		At rated load	mph	17 - 17	17 - 17	17 - 17	17 - 17
	Lifting speed	Unloaded	fps	2.0	1.6	1.6	1.6
		At rated load 70%	fps	1.8	1.5	1.5	1.5
	Lowering speed	Unloaded	fps	1.1	1.0	1.0	1.0
	At rated load	fps	1.3	1.3	1.3	1.3	
POWER	Gradeability, max	Unloaded	%	94	89	78	76
		At rated load	%	46	41	37	35
	Gradeability, at 2 km/h	Unloaded	%	68	65	59	57
		At rated load	%	37	33	30	28
	Drawbar pull		lbf	24500	24500	23300	23300
SOUND	Noise level, inside (with EDM ¹)	EN12053, LpAZ	dB(A)	70 - 72			
	Noise level, outside (with EDM ¹)	EN12053, LWAZ	dB(A)	103 - 105			
	Noise level, outside (with EDM ¹)	2000/14/EC, LWAZ	dB(A)	106 - 109			

MODEL			All wheelbases (standard and short)										
Cummins engine			DCG150-6	DCG100-12	DCG120-12	DCG150-12	DCG160-6	DCG160-9	DCG160-12	DCG170-12	DCG180-6	DCG70-35E3	DCG70-35E4
			QSB6.7-C260 (EU Stage IIIA / EPA Tier 3)										
Travel speed, forward - reverse	Unloaded	mph	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	18 - 18	18 - 18
	At rated load	mph	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17
Lifting speed	Unloaded	fps	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0
	At rated load 70%	fps	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.8	1.8
Lowering speed	Unloaded	fps	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1
	At rated load	fps	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Gradeability, max	Unloaded	%	63	66	61	52	64	56	51	51	55	46	41
	At rated load	%	31	39	34	29	31	29	28	28	27	34	32
Gradeability, at 2 km/h	Unloaded	%	49	51	47	41	50	44	41	41	44	36	33
	At rated load	%	26	31	28	23	25	23	23	23	22	28	26
Drawbar pull		lbf	23300	23300	23300	23300	23300	23300	23300	23300	23300	23300	23300
Noise level, inside (with EDM ¹)	EN12053, LpAZ	dB(A)	70 - 72				70 - 72				70 - 72		
Noise level, outside (with EDM ¹)	EN12053, LWAZ	dB(A)	103 - 105				103 - 105				103 - 105		
Noise level, outside (with EDM ¹)	2000/14/EC, LWAZ	dB(A)	106 - 109				106 - 109				106 - 109		

MODEL			All wheelbases (standard and short)				
Cummins engine			DCG100-6	DCG120-6	DCG127-6	DCG140-6	
			B6.7-C173 (EU stage V / EPA Tier 4-Final)				
SPEEDS	Travel speed, forward - reverse	Unloaded	mph	18 - 18	18 - 18	19 - 19	19 - 19
		At rated load	mph	17 - 17	17 - 17	17 - 17	17 - 17
	Lifting speed	Unloaded	fps	2.0	1.6	1.6	1.6
		At rated load 70%	fps	1.8	1.5	1.5	1.5
	Lowering speed	Unloaded	fps	1.1	1.0	1.0	1.0
	At rated load	fps	1.3	1.3	1.3	1.3	
POWER	Gradeability, max	Unloaded	%	88	83	74	72
		At rated load	%	44	40	36	34
	Gradeability, at 2 km/h	Unloaded	%	73	70	63	61
		At rated load	%	39	35	32	30
	Drawbar pull		lbf	23600	23600	22700	22700
SOUND	Noise level, inside (with EDM ¹)	EN12053, LpAZ	dB(A)	70 - 72			
	Noise level, outside (with EDM ¹)	EN12053, LWAZ	dB(A)	103 - 105			
	Noise level, outside (with EDM ¹)	2000/14/EC, LWAZ	dB(A)	106 - 109			

MODEL			All wheelbases (standard and short)										
Cummins engine			DCG150-6	DCG100-12	DCG120-12	DCG150-12	DCG160-6	DCG160-9	DCG160-12	DCG170-12	DCG180-6	DCG70-35E3	DCG70-35E4
			B6.7-C173 (EU stage V / EPA Tier 4-Final)										
Travel speed, forward - reverse	Unloaded	mph	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	18 - 18	18 - 18
	At rated load	mph	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17
Lifting speed	Unloaded	fps	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0
	At rated load 70%	fps	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.8	1.8
Lowering speed	Unloaded	fps	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1
	At rated load	fps	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Gradeability, max	Unloaded	%	60	63	58	50	61	54	49	49	53	46	41
	At rated load	%	30	37	33	28	30	28	27	27	26	34	32
Gradeability, at 2 km/h	Unloaded	%	52	54	50	43	52	46	43	43	46	36	33
	At rated load	%	27	33	29	24	26	25	24	24	23	28	26
Drawbar pull		lbf	22700	22700	22700	22700	22700	22700	22700	22700	22700	23300	23300
Noise level, inside (with EDM ¹)	EN12053, LpAZ	dB(A)	70 - 72				70 - 72				70 - 72		
Noise level, outside (with EDM ¹)	EN12053, LWAZ	dB(A)	103 - 105				103 - 105				103 - 105		
Noise level, outside (with EDM ¹)	2000/14/EC, LWAZ	dB(A)	106 - 109				106 - 109				106 - 109		

Notes:
1. With Eco Drive Mode (EDM) drive train settings included:

Performance

MODEL			All wheelbases (standard and short)				
MODEL			DCG100-6	DCG120-6	DCG127-6	DCG140-6	
Cummins engine			B6.7-C225 (EU stage V / EPA Tier 4-Final)				
SPEEDS	Travel speed, forward - reverse	Unloaded	mph	18 - 18	18 - 18	19 - 19	19 - 19
		At rated load	mph	17 - 17	17 - 17	17 - 17	17 - 17
	Lifting speed	Unloaded	fps	2.0	1.6	1.6	1.6
		At rated load 70%	fps	1.8	1.5	1.5	1.5
	Lowering speed	Unloaded	fps	1.1	1.0	1.0	1.0
At rated load		fps	1.3	1.3	1.3	1.3	
POWER	Gradeability, max	Unloaded	%	100	100	100	100
		At rated load	%	66	58	52	49
	Gradeability, at 2 km/h	Unloaded	%	104	98	85	83
		At rated load	%	50	44	40	38
	Drawbar pull		lbf	32100	32100	30700	30700
SOUND	Noise level, inside (with EDM ¹)	EN12053, LpAZ	dB(A)	70 - 72			
	Noise level, outside (with EDM ¹)	EN12053, LWAZ	dB(A)	103 - 105			
	Noise level, outside (with EDM ¹)	2000/14/EC, LWAZ	dB(A)	106 - 109			

MODEL			All wheelbases (standard and short)											
MODEL			DCG150-6	DCG100-12	DCG120-12	DCG150-12	DCG160-6	DCG160-9	DCG160-12	DCG170-12	DCG180-6	DCG70-35E3	DCG70-35E4	
Cummins engine			B6.7-C225 (EU stage V / EPA Tier 4-Final)											
SPEEDS	Travel speed, forward - reverse	Unloaded	mph	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	18 - 18	18 - 18	
		At rated load	mph	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	
	Lifting speed	Unloaded	fps	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	
		At rated load 70%	fps	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.8	1.8	
	Lowering speed	Unloaded	fps	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	
At rated load		fps	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3		
POWER	Gradeability, max	Unloaded	%	99	107	94	76	101	84	75	75	84	66	59
		At rated load	%	43	54	47	39	42	40	38	38	37	47	44
	Gradeability, at 2 km/h	Unloaded	%	68	72	66	56	69	60	55	55	60	49	44
		At rated load	%	34	41	37	30	33	31	29	29	29	37	34
	Drawbar pull		lbf	30700	30700	30700	30700	30700	30700	30700	30700	30700	30700	30700
SOUND	Noise level, inside (with EDM ¹)		dB(A)	70 - 72				70 - 72				70 - 72		
	Noise level, outside (with EDM ¹)		dB(A)	103 - 105				103 - 105				103 - 105		
	Noise level, outside (with EDM ¹)		dB(A)	106 - 109				106 - 109				106 - 109		

MODEL			All wheelbases (standard and short)				
MODEL			DCG100-6	DCG120-6	DCG127-6	DCG140-6	
Volvo engine			TAD-582-VE (EU stage V / EPA Tier 4-Final)				
SPEEDS	Travel speed, forward - reverse	Unloaded	mph	18 - 18	18 - 18	19 - 19	19 - 19
		At rated load	mph	17 - 17	17 - 17	17 - 17	17 - 17
	Lifting speed	Unloaded	fps	2.0	1.6	1.6	1.6
		At rated load 70%	fps	1.8	1.5	1.5	1.5
	Lowering speed	Unloaded	fps	1.1	1.0	1.0	1.0
At rated load		fps	1.3	1.3	1.3	1.3	
POWER	Gradeability, max	Unloaded	%	100	100	99	96
		At rated load	%	56	50	44	41
	Gradeability, at 2 km/h	Unloaded	%	86	82	71	69
		At rated load	%	44	39	35	33
	Drawbar pull		lbf	28300	28300	26700	26700
SOUND	Noise level, inside (with EDM ¹)	EN12053, LpAZ	dB(A)	70 - 72			
	Noise level, outside (with EDM ¹)	EN12053, LWAZ	dB(A)	103 - 105			
	Noise level, outside (with EDM ¹)	2000/14/EC, LWAZ	dB(A)	106 - 109			

MODEL			All wheelbases (standard and short)											
MODEL			DCG150-6	DCG100-12	DCG120-12	DCG150-12	DCG160-6	DCG160-9	DCG160-12	DCG170-12	DCG180-6	DCG70-35E3	DCG70-35E4	
Volvo engine			TAD-582-VE (EU stage V / EPA Tier 4-Final)											
SPEEDS	Travel speed, forward - reverse	Unloaded	mph	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	19 - 19	18 - 18	18 - 18	
		At rated load	mph	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	17 - 17	
	Lifting speed	Unloaded	fps	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	
		At rated load 70%	fps	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.8	1.8	
	Lowering speed	Unloaded	fps	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	
At rated load		fps	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3		
POWER	Gradeability, max	Unloaded	%	77	82	74	62	78	67	61	61	67	54	49
		At rated load	%	37	45	40	33	36	34	32	32	32	40	37
	Gradeability, at 2 km/h	Unloaded	%	58	61	56	48	59	52	47	47	51	42	39
		At rated load	%	29	36	32	27	29	27	26	26	25	32	30
	Drawbar pull		lbf	26700	26700	26700	26700	26700	26700	26700	26700	26700	26700	26700
SOUND	Noise level, inside (with EDM ¹)		dB(A)	70 - 72				70 - 72				70 - 72		
	Noise level, outside (with EDM ¹)		dB(A)	103 - 105				103 - 105				103 - 105		
	Noise level, outside (with EDM ¹)		dB(A)	106 - 109				106 - 109				106 - 109		

Notes:

1. With Eco Drive Mode (EDM) drive train settings included.

Lifting equipment

We offer a full range of duplex, triplex and free-lift equipment.*

DUPLEX STANDARD (2-stage, LFL)	DCG100-180			
	Lift Height	Mast Height		Free Lift
	H4	H3 min	H5 max	H2
	118	126	185	-
	138	136	205	-
	157	145	224	-
	177	155	244	-
	197	165	264	-
	217	175	283	-
	236	185	303	-
	256	195	323	-
	276	205	342	-

DUPLEX FREELIFT (2-stage, FFL)	DCG100-180			
	Lift Height	Mast Height		Free Lift
	H4	H3 min	H5 max	H2
	118	126	185	59
	138	136	205	69
	157	145	224	79
	177	155	244	89
	197	165	264	98
	217	175	283	108
	236	185	303	118
	256	195	323	128
	276	205	342	138

TRIPLEX FREELIFT (3-stage, FFL)	DCG100-180			
	Lift Height	Mast Height		Free Lift
	H4	H3 min	H5 max	H2
	177	123	244	59
	197	130	263	66
	217	136	283	72
	236	143	303	79
	256	149	322	85
	276	156	342	92

DUPLEX HEAVY DUTY (2-stage, LFL)	DCG100-180			
	Lift Height	Mast Height		Free Lift
	H4	H3 min	H5 max	H2
	157	160	232	-
	177	170	251	-
	197	180	271	-
	217	190	291	-
	236	199	310	-

Notes:*

1. Duplex Heavy-Duty: mast range with additional reinforcements.
2. The lifting cylinders are mounted behind the mast profiles on Duplex Standard, Duplex Freelift & Triplex freelift.
3. The lifting cylinders are mounted outside the mast profiles on Duplex Heavy-Duty.
4. The freelift cylinders are mounted inside the mast profiles on Duplex Freelift and Triplex freelift.

Masts



Duplex Standard
Lift height
118" - 276"



Duplex Freelift
Lift height
118" - 276"



Triplex Freelift
Lift height
177" - 276"



Duplex Heavy Duty
Lift height
157" - 236"

Carriages



Carriage with Sideshift

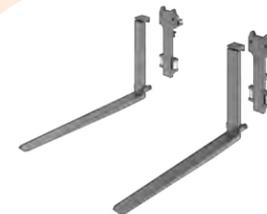


Carriage with Sideshift /
Fork Positioning



Carriage with Sideshift /
Fork Positioning and Center
Leveling

Forks



Fork Shaft System
Roller Bearing
(hook on type)



Forks with Integral
Roller Bearings and
Fork Leveling

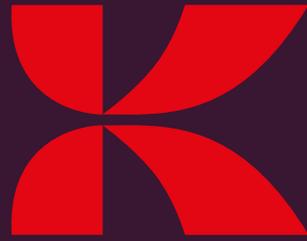


Forks with Integral
Roller Bearings



Forks with Integral
Pin Type Roller Bearings





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