Kalmar Heavy DCG180-330

18 – 33 tonne capacity.

difts.

SOI

A vital part of your logistics.

No chain is stronger than its weakest link, as the saying goes. Nothing could be more true when it comes to managing heavy or bulky components between the key stages of the logistic value chain. On or off ships or trains. Between the foundry and the factory. From assembly to transportation.

This is the domain of the heavy forklift. No other piece of machinery matches a forklift's combination of raw strength, mobility and versatility. But it's a tough job.

The sheer weight of thousands of tonnes lifted each day wears the mechanics and the materials. Yet the forklift must perform flawlessly every day of the week. Reliably, productively, safely.

Your forklift is a vital part of your logistics or production. In seamless interaction with a skilled operator, the forklift must meet your – and your customer's – demands of product quality and delivery precision, throughout your terminal, factory or assembly line. Looking at your forklifts in this light, the choice of brand will come naturally. Only the best is good enough. Kalmar is equally renowned for its robust and reliable product quality as for its global service network and supreme customer support.

Heavy forklifts are Kalmar territory since 1949 – making your material handling the strongest link in the logistic value chain.



4 good reasons to choose Kalmar

Productivity

Product quality, reliability and manoeuvring precision allow operators to work with maximum productivity.

Trust and reliability

Kalmar is a trusted partner, present on all continents and with more than 1,500 service and support staff globally.

Total cost of ownership

Cost-efficient to own and operate thanks to its adaptability, energy conversion and uptime.

Ergonomics and safety

Excellent visibility, low noise level, user-friendly adjustments, and more, ensure excellent ergonomics and safety.

It is no surprise that customer survey results coincide with Kalmar core values. After all, we listen attentively to customers when designing and developing our forklifts. Looking at the big picture, adding up things that truly matter, it will always pay off to choose Kalmar.

Designed for maximum productivity.



Your Kalmar forklift will always deliver what your operations require. With Power mode activated, operators will have the power necessary to go all-in at every instant and work with maximum productivity. Pushing it hard, while ensuring best-in-class fine-manoeuvring.

Our Cummins and Volvo engines are powerful, yet highly fuel efficient. You have a choice of engines which are compliant with EU Stage V, Tier 4 Final and Stage IIIA/Tier 3.

The variable pumps automatically sense the load in every operation and adjust the oil flow accordingly, allowing for faster lifting cycles up to 40% while reducing fuel consumption. This will help to improve your productivity as you can do more lifts per hour.



Many operators testify to the forklift's improved operational capabilities, especially when fine manoeuvring, such as side-shift and fork positioning. Also, the lowering speed has been increased, preparing the machine faster for the next lift.

Drive modes.

Choose between three different drive modes, each optimised 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 maximum performance of your machine, allowing you to increase the number of tonnes moved per hour.



Balances power and economy to optimise profitability.



Economy

If total cost of operations outweighs the need for performance, Economy mode reduces fuel consumption by up to 15%.

* DCG180-250, lift/lowering speed compared to DCF180-250.

Reducing lifetime costs.

Purchase price is only one of many factors affecting total cost of ownership. In fact, price is a minor cost factor looking over the lifetime of your forklift. What truly matters in the long run is cost control and operational efficiency – and that will show clearly on your bottom line.

Compared to our previous model, the new DCG180-330 uses up to 15% 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.

The forklift's variable pumps and fan are automatically adjusted to the precise need. The pumps and the fan are only operated at full speed when necessary, reducing fuel consumption and noise. Another cost saving feature is Economy mode, an engine setting available to the operator from within the cabin, which further lowers fuel consumption. Thanks to improved and more durable components, service intervals have been extended. The first service is due after 500 hours, compared to 50 hours for our previous model.

The risk of unplanned standstills has been reduced due to intelligent error detection built into the new control system, which accurately pinpoints potential problems in clear text on a display in the cabin.

Cost saving features.



Fuel-efficient engine.

The new Stage V and Tier 4 Final compliant engines reduce fuel consumption by up to **5%***.



Economy drive mode.

Using Economy drive mode, fuel consumption is reduced by up to **15%**.



Energy efficient systems.

Optimised variable hydraulic system and variable cooling fan allows for savings up to **10%**.



Increased uptime.

Longer service intervals and improved problem detection reduce downtime.

Total lifetime savings.

Adding all energy saving features, savings up to **30%** are possible.

* Compared to Kalmar DCF180-330 with Stage IIIB engine.

Operational savings

Maintenance savings

Environmental savings

Resale value

Purchase

Lifetime savings

Purchase price represents only a small part of the total cost of ownership. What matters in the long run is reducing operational and maintenance costs. And that is what Kalmar is all about.

Prioritising safety and operator ergonomics.

Safety always comes first. Kalmar makes every effort to guarantee that our machines are safe to operate at every worksite around the world. We spend extensive R&D resources to ensure the driver's environment in the cabin is optimal regarding ergonomics, visibility and noise.

First introduced in 2011, our EGO cabin offers the ultimate in ergonomics and safety. Numerous electronically operated adjustments allow the operator to tailor his workplace. The curved windows, which greatly improve visibility, have already become a classic with Kalmar. The wheel is tiltable sideways, allowing the operator to temporarily change his visual angle, to see around bulky load in front of him. A new 300 mm lower carriage, available with the DCG180–250 versions, further improves visibility in the forward direction.

The operator console is the operator's extended arm, easy to understand, use and adjust. Designed for maximum ergonomics and flexibility, the console puts controls, switches and indicators within easy reach to the operator, ensuring the most efficient forklift operation possible.





Kalmar Lifetime Services.

Kalmar Care, making sure your business never stops.

We offer four different types of service and maintenance contracts. Each is designed to help you improve your operational efficiency, drive productivity and secure financial predictability. Each contract type includes a set of standardised service modules to meet your business needs.

When the right part matters.

When something needs to be replaced you need a quality part that meets your exact needs – urgently. Kalmar Genuine Parts offers a rapid delivery service for over 50,000 premium-quality genuine parts to anywhere in the world, with installation support if needed.



Optimise your fleet with Kalmar Insight.

Kalmar Insight is a performance management tool for cargo and material handling, which gives you a valuable and easy to use overview of your daily operations based on equipment status and performance. Making it quicker for you to take action on relevant information that will help you improve your operations, your equipment's performance and your business.

Kalmar Insight comes fitted in all new Kalmar machines and can be retrofitted to existing Kalmar machines or those built by other manufacturers.



Kalmar Insight: view each machine's movements as they occur.

All the support you need.

S KALMAR

Financing options for you.

You may choose to buy your new forklift outright or consider leasing or renting your equipment. Kalmar offers a range of leasing and renting options that give you the financial predictability you need and the option to upgrade your equipment after a fixed period. With our leasing packages, you can focus on your core operations, while we perform all your service and maintenance needs. Kalmar can also look at you trading-in your old equipment.



Kalmar Insight: view each operator's performance in real time.



EC6160

Kalmar Training Centre.

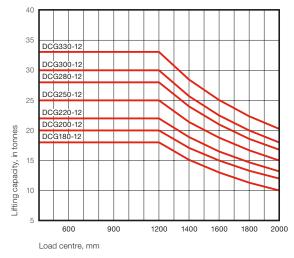
For your team to get the most out of their new forklift the Kalmar Training Centre offers a range of courses for both your technicians and operators. Operators will be shown how to optimise their dayto-day operational performance and what needs to be checked daily before operations begin.

Technicians will be given the knowledge needed to keep your new truck in top condition. Courses are a mix of theory and hands-on experience and can be held at Kalmar or at your site.



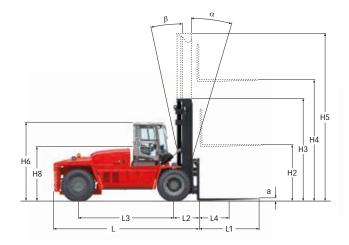


Lifting capacity in tonnes



DCG180-250: Full lifting capacity up to 7000 mm lift height with duplex/duplex freelift masts, integrated sideshift/fork positioning carriage and forkshaft system.

DCG280-330: Full lifting capacity up to 7000 mm lift height with duplex/duplex freelift masts, integrated sideshift/fork positioning carriage and forkshaft system.



MAIN DATA

WEIGHTS

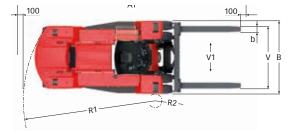
WHEELS

DIMENSIONS

OTHERS

| Model designation | | |
|--|------|--------|
| Power source | | |
| Rated capacity / rated load | kg | |
| Load center distance | mm | L4 |
| Load distance, center of drive axle to fork | mm | L2 |
| Wheelbase | mm | L3 |
| | | |
| Service weight | kg | |
| Axle loading, unloaded front | kg | |
| Axle loading, loaded front | kg | |
| Axle loading, unloaded rear | kg | |
| Axle loading, loaded rear | kg | |
| funn front / roor | | |
| Type, front / rear | inch | |
| Fyre size, front | inch | |
| Fyre size, rear | inch | |
| Number of wheels, front / rear (x = driven wheels) | | 0 |
| Frack width, front / rear | mm | S |
| Fyre pressure | MPa | |
| Aast tilt, α = forward / β = backward | 0 | α/β |
| leight of mast lowered | mm | H3 |
| Lift height | mm | H4 |
| leight of mast extended | mm | H5 |
| Truck height – EGO / OHG cabin roof | mm | H6 |
| eat height | mm | H8 |
| leight when tilting EGO cab / OHG | mm | T1 |
| Vidth when tilting EGO cab / OHG | mm | T2 |
| ruck length (to face of forks) | mm | L |
| Fruck width | mm | В |
| Fork dimensions, width | mm | b |
| Fork dimensions, thickness | mm | а |
| Fork dimensions, length of fork arm | mm | 1 |
| Fork carriage width | mm | b3 |
| Width over fork arms, minimum / maximum | mm | V |
| Sideshift ± @ width over forks | mm | V1 / V |
| Ground clearance, laden, below mast | mm | |
| Ground clearance, machine | mm | |
| Min. ailse width for 90° stacking with forks | mm | A1 |
| Turning radius | mm | R1 |
| Internal turning radius | mm | R2 |
| | | 1144 |
| Operating pressure for hydraulics | MPa | |
| Hydraulic oil tank, capacity | 1 | |
| Fuel tank, capacity | | |
| AdBlue tank, capacity | | |
| and and opporty | | |





| DCG180-12 | DCG200-12 | DCG220-12 | DCG250-12 | DCG280-12 | DCG300-12 | DCG330-12 |
|--------------|-------------|-------------|-----------------------|-------------|-------------|-----------------|
| DCG180-12 | DCG200-12 | DCG220-12 | DCG250-12 | DCG280-12 | DCG300-12 | DCG330-12 |
| Diesel | Diesel | Diesel | Diesel | Diesel | Diesel | Diesel |
| 18000 | 20000 | 22000 | 25000 | 28000 | 30000 | 33000 |
| 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |
| 1070 | 1070 | 1070 | 1070 | 1125 | 1125 | 1125 |
| 4000 | 4000 | 4000 | 4250 | 4750 | 4750 | 4750 |
| 28500 | 29800 | 31200 | 32900 | 38300 | 39500 | 41500 |
| 15000 | 15000 | 15000 | 15500 | 20500 | 20500 | 20500 |
| 43200 | 46300 | 49500 | 53800 | 61700 | 64900 | 68800 |
| 13500 | 14800 | 16200 | 17400 | 17800 | 19000 | 21000 |
| 3300 | 3500 | 3700 | 4100 | 4100 | 4300 | 4800 |
| | | | Pneumatic / Pneumatic | | | |
| 14.00×24 | 14.00×24 | 14.00×24 | 14.00×24 | 16.00×25 | 16.00×25 | 16.00×25 |
| 14.00×24 | 14.00×24 | 14.00×24 | 14.00×24 | 16.00×25 | 16.00×25 | 16.00×25 |
| 4* - 2 | 4* - 2 | 4* - 2 | 4* - 2 | 4* - 2 | 4* - 2 | 4* - 2 |
| 2200 / 2200 | 2200 / 2200 | 2200 / 2200 | 2200 / 2200 | 2440 / 2540 | 2440 / 2540 | 2440 / 2540 |
| 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 | 1,0 |
| 5 / 10 | 5 / 10 | 5 / 10 | 5 / 10 | 5 / 10 | 5 / 10 | 5 / 10 |
| 4320 | 4320 | 4320 | 4320 | 4520 | 4520 | 4520 |
| 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 |
| 6820 | 6820 | 6820 | 6820 | 7020 | 7020 | 7020 |
| 3290 | 3290 | 3290 | 3290 | 3450 | 3450 | 3450 |
| 2150 | 2150 | 2150 | 2150 | 2300 | 2300 | 2300 |
| 3800 | 3800 | 3800 | 3800 | 3800 | 3800 | 3800 |
| 3700 | 3700 | 3700 | 3700 | 3800 | 3800 | 3800 |
| 6090 | 6090 | 6090 | 6340 | 6925 | 6925 | 6925 |
| 3050 | 3050 | 3050 | 3050 | 3430 | 3430 | 3430 |
| 250 | 250 | 250 | 250 | 300 | 300 | 300 |
| 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| 2400 | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 |
| 2700 / 800 | 2700 / 800 | 2700 / 800 | 2700 / 800 | 3150 / 850 | 3150 / 850 | 3150 / 850 |
| - 557 / 1585 | 557 / 1585 | 557 / 1585 | 557 / 1585 - | 625 / 1900 | 625 / 1900 | 625 / 1900 - |
| 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| 9270 | 9270 | 9270 | 9550 | 10325 | 10325 | 10325 |
| 5600 | 5600 | 5600 | 5875 | 6650 | 6650 | 6650 |
| 425 | 425 | 425 | 550 | 950 | 950 | 950 |
| 16.5 | 18 | 20 | 22 | 19.5 | 20.5 | 22 |
| 360 | 360 | 360 | 360 | 360 | 360 | 360 |
| 300 | 300 | 300 | 375 | 450 | 450 | 450 |
| 35 | 35 | 35 | 35 | 35 | 35 | 35 |

Drive train.

| | | | DCG180-250 | DCG280-330 |
|-----------|--------------------------------------|--|---|--|
| | Manufacturer's type designation | | Cummins QSB6,7 (Turbo-Intercooler) | Cummins QSB6,7 (Turbo-Intercooler) |
| | Fuel, type of engine | | Diesel, 4-stroke | Diesel, 4-stroke |
| | Rating ISO 3046 / at revs | kW / rpm | 164 / 2200 | 194 / 2200 |
| щ | Max rpm in machine | | 2000 | 2200 |
| ENGINE | Peak Power / at revs | kW / rpm | | |
| EN | Peak torque ISO 3046 / at revs | Nm / rpm | 949 / 1500 | 990 / 1500 |
| | Number of cylinders / displacement | cm ³ | 6 / 6702 | 6 / 6702 |
| | Fuel consumption, normal driving | l/h | 9-11 | 13-15 |
| | AdBlue consumption, normal driving | Blue consumption, normal driving % of diesel | | - |
| | Emission standard | | Stage III | Stage III |
| | | | | |
| | Manufacturer's type designation | | Dana TE17000 | Dana TE17000 |
| MISC | Clutch, type | | Torque converter | Torque converter |
| Σ | Gearbox, type | | Hydrodynamic Powershift | Hydrodynamic Powershift |
| X | Numbers of gears, forward / reverse | | 3/3 | 3/3 |
| BO | Alternator, type / power | W | AC / 1960 | AC / 1960 |
| GEARBOX & | Starting battery, voltage / capacity | V / Ah | 2×12 / 145 | 2×12 / 145 |
| 9 | Driving axle, manufacturer / type | | Kessler D91 / Differential and hub reduction | AxleTech / Differential and hub reduction |

Performance.

| Cu | mmins engines | | DCG180-12 | DCG200-12 | DCG220-12 | DCG250-12 | DCG280-12 | DCG300-12 | DCG330-12 |
|----------------|-------------------------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Lifting speed | Unloaded (m/s) | 0.39 | 0.39 | 0.39 | 0.39 | 0.37 | 0.37 | 0.37 |
| | | At 80% rated load (m/s) | 0.37 | 0.37 | 0.37 | 0.37 | 0.35 | 0.35 | 0.35 |
| | Lowering speed | Unloaded (m/s) | 0.34 | 0.34 | 0.34 | 0.34 | 0.32 | 0.32 | 0.32 |
| Stage III | | At rated load (m/s) | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| itag | Travelling speed, F / R | Unloaded (km/h) | 27 / 27 | 27 / 27 | 27 / 27 | 27 / 27 | 27 / 27 | 27 / 27 | 27 / 27 |
| | | At rated load (km/h) | 26 / 26 | 26 / 26 | 26 / 26 | 26 / 26 | 25 / 25 | 25 / 25 | 25 / 25 |
| B6, | Gradeability, max. | Unloaded (%) | 74 | 69 | 65 | 60 | 67 | 64 | 60 |
| CUMMINS QSB6,7 | | At rated load (%) | 38 | 35 | 32 | 29 | 33 | 31 | 29 |
| INS | Gradeability, at 2 km/h | Unloaded (%) | 51 | 48 | 44 | 41 | 48 | 46 | 43 |
| MM | | At rated load (%) | 28 | 26 | 24 | 22 | 24 | 23 | 21 |
| CUI | Drawbar pull | Max. (kN) | 173 | 173 | 173 | 173 | 218 | 218 | 218 |
| | Noise level, inside | LpAZ*, EGO cabin (dB(A)) | 72 | 72 | 72 | 72 | 73 | 73 | 73 |
| | | LpAZ*, EGO cabin OHG (dB(A)) | - | - | - | - | - | - | - |
| | Noise level, outside | LWA** (dB(A)) | 109 | 109 | 109 | 109 | 110 | 110 | 110 |
| | | | | | | | | | |
| | Lifting speed | Unloaded (m/s) | 0.39 | 0.39 | 0.39 | 0.39 | 0.37 | 0.37 | 0.37 |
| 9 | | At 80% rated load (m/s) | 0.37 | 0.37 | 0.37 | 0.37 | 0.35 | 0.35 | 0.35 |
| / Tier 4 final | Lowering speed | Unloaded (m/s) | 0.34 | 0.34 | 0.34 | 0.34 | 0.32 | 0.32 | 0.32 |
| er 4 | | At rated load (m/s) | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Ľ, | Travelling speed, F / R | Unloaded (km/h) | 27 / 27 | 27 / 27 | 27 / 27 | 27 / 27 | 27 /27 | 27 /27 | 27 /27 |
| Stage V | | At rated load (km/h) | 23 / 23 | 23 / 23 | 23 / 23 | 23 / 23 | 24 / 24 | 24 / 24 | 24 / 24 |
| tag | Gradeability, max. | Unloaded (%) | 91 | 84 | 78 | 72 | 61 | 59 | 55 |
| | | At rated load (%) | 45 | 41 | 38 | 35 | 31 | 30 | 27 |
| B6,7 | Gradeability, at 2 km/h | Unloaded (%) | 60 | 56 | 53 | 49 | 43 | 41 | 39 |
| NS | | At rated load (%) | 33 | 30 | 28 | 26 | 23 | 22 | 20 |
| M | Drawbar pull | Max. (kN) | 180 | 180 | 180 | 180 | 197 | 197 | 197 |
| CUMMINS | Noise level, inside | LpAZ*, EGO cabin (dB(A)) | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| 0 | | LpAZ*, EGO cabin OHG (dB(A)) | - | - | - | - | - | - | - |
| | Noise level, outside | LWA** (dB(A)) | 110 | 110 | 110 | 110 | 110 | 110 | 110 |

* Noise level according to EN12053 ** Noise level according to 2000/14/EC

| DCG180-250 | DCG280-330 | DCG 180-250 | DCG 280-330 |
|---|--|---|--|
| Cummins B6,7 (Turbo-Intercooler) | Cummins B6,7 (Turbo-Intercooler) | Volvo TAD881 VE (Turbo-Intercooler) | Volvo TAD881 VE (Turbo-Intercooler) |
| Diesel, 4-stroke | Diesel, 4-stroke | Diesel, 4-stroke | Diesel, 4-stroke |
| 168 / 2200 | 168 / 2200 | 185 / 2210 | 185 / 2210 |
| 2000 | 2150 | 2000 | 2000 |
| 188 / 1900 | 188 / 1900 | | |
| 949 / 1500 | 949 / 1500 | 1150 / 1400 | 1150 / 1400 |
| 6 / 6702 | 6 / 6702 | 6 / 7700 | 6 / 7700 |
| 9-11 | 13-15 | 8-11 | 12-14 |
| 4-6 | 4-6 | 4-6 | 4-6 |
| Stage V / Tier 4 final | Stage V / Tier 4 final | Stage V | Stage V |
| | | | |
| Dana TE17000 | Dana TE17000 | Dana TE14, Lock up as option | Dana TE14, Lock up as option |
| Torque converter | Torque converter | Torque converter | Torque converter |
| Hydrodynamic Powershift | Hydrodynamic Powershift | Hydrodynamic Powershift | Hydrodynamic Powershift |
| 3/3 | 3/3 | 4 / 4 | 4 / 4 |
| AC / 1960 | AC / 1960 | AC / 3080 | AC / 3080 |
| 2×12 / 145 | 2×12 / 145 | 2x12 / 145 | 2x12 / 145 |
| Kessler D91 / Differential and hub reduction | AxleTech / Differential and hub reduction | Kessler D91 / Differential and hub reduction | AxleTech / Differential and hub reduction |

| Vo | lvo engines | | DCG180-12 | DCG200-12 | DCG220-12 | DCG250-12 | DCG280-12 | DCG300-12 | DCG330-12 |
|------------|-------------------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Lifting speed | Unloaded (m/s) | 0.44 | 0.44 | 0.44 | 0.44 | 0.38 | 0.38 | 0.38 |
| VE Stage V | | At 80% rated load (m/s) | 0.42 | 0.42 | 0.42 | 0.41 | 0.37 | 0.37 | 0.37 |
| | Lowering speed | Unloaded (m/s) | 0.34 | 0.34 | 0.34 | 0.34 | 0.32 | 0.32 | 0.32 |
| | | At rated load (m/s) | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| | Travelling speed, F / R | Unloaded (km/h) | 27 / 27 | 27 / 27 | 27 / 27 | 27 / 27 | 27 / 27 | 27 / 27 | 27 / 27 |
| | | At rated load with lock-up (km/h) | 26 / 26 | 26 / 26 | 26 / 26 | 26 / 26 | 26 / 26 | 26 / 26 | 26 / 26 |
| | | At rated load (km/h) | 23 / 23 | 23 / 23 | 23 / 23 | 23 / 23 | 23 / 23 | 23 / 23 | 23 / 23 |
| 8 | Gradeability, max. | Unloaded (%) | 144 | 127 | 113 | 101 | 83 | 78 | 72 |
| TAD | | At rated load (%) | 58 | 53 | 49 | 44 | 39 | 37 | 34 |
| | Gradeability, at 2 km/h | Unloaded (%) | 78 | 73 | 68 | 63 | 54 | 52 | 49 |
| VOLVO | | At rated load (%) | 40 | 37 | 35 | 31 | 28 | 27 | 25 |
| VO | Drawbar pull | Max. (kN) | 180 | 180 | 180 | 180 | 240 | 240 | 240 |
| | Noise level, inside | LpAZ*, EGO cabin (dB(A)) | 72 | 72 | 72 | 72 | 74 | 74 | 74 |
| | | LpAZ*, EGO cabin OHG (dB(A)) | - | - | - | - | - | - | - |
| | Noise level, outside | LWA** (dB(A)) | 109 | 109 | 109 | 109 | 109 | 109 | 109 |

Lifting equipment.

We offer a full range of duplex, triplex and free-lift equipment. Based on our long tradition as a supplier of heavy forklifts, our lifting equipment is robust and of the highest quality.

| | Mast heig | | height | Free lift | Mast | Mast height | | |
|--------|----------------|--------|------------|-----------|--------|-------------|----|--|
| | Lift height H4 | H3 min | H5 max | H2 | H3 min | H5 max | H2 | |
| | | | DCG180-250 | | | DCG280-330 | | |
| | 3000 | 3320 | 4820 | | 3520 | 5020 | | |
| | 3500 | 3570 | 5320 | - | 3770 | 5520 | | |
| | 4000 | 3820 | 5820 | - | 4020 | 6020 | - | |
| STD | 4500 | 4070 | 6320 | - | 4270 | 6520 | - | |
| DUPLEX | 5000 | 4320 | 6820 | - | 4520 | 7020 | - | |
| IN | 5500 | 4570 | 7320 | - | 4770 | 7520 | - | |
| | 6000 | 4820 | 7820 | - | 5020 | 8020 | - | |
| | 6500 | 5070 | 8320 | - | 5270 | 8520 | - | |
| | 7000 | 5320 | 8820 | - | 5520 | 9020 | _ | |

| | | Mast | Mast height | | Mast he | Free lift | |
|--------|-------------------|--------|-------------|------|---------|------------|------|
| | Lift height H4 | H3 min | H5 max | H2 | H3 min | H5 max | H2 |
| | | | DCG180-250 | | | DCG280-330 | |
| | 3000 | 3420 | 4920 | 1500 | 3520 | 5020 | 1500 |
| | 3500 | 3670 | 5420 | 1750 | 3770 | 5520 | 1750 |
| | 4000 | 3920 | 5920 | 2000 | 4020 | 6020 | 2000 |
| H | 4500 | 4170 | 6420 | 2250 | 4270 | 6520 | 2250 |
| DUPLEX | 5000 | 4420 | 6920 | 2500 | 4520 | 7020 | 2500 |
| DUP | 5500 | 4670 | 7420 | 2750 | 4770 | 7520 | 2750 |
| _ | 6000 | 4920 | 7920 | 3000 | 5020 | 8020 | 3000 |
| | 6500 | 5170 | 8420 | 3250 | 5270 | 8520 | 3250 |
| | 7000 | 5420 | 8920 | 3500 | 5520 | 9020 | 3500 |

| | | Mast height | | Free lift | | Mast | Free lift | |
|-------------------|------|-------------|----------------------|-----------|--|--------|----------------------|-------------|
| Lift height H4 | | H3 min | H5 max DCG180-250 | H2 | | H3 min | H5 max DCG280-330 | H2 |
| | 4550 | 3500 | 6350 | 1700 | | - | - | - |
| | 4625 | - | - | - | | 3680* | 6630* | 1625 |
| | 5150 | 3700 | 6950 | 1900 | | - | - | - |
| TRI. | 6000 | - | - | - | | 4130* | 8010* | 2100 |
| | 6500 | 4150 | 8300 | 2350 | | - | - | - |
| | 6950 | 4300 | 8750 | 2500 | | - | - | in i red of |

* Might be slightly reduced if smallest available tyres are chosen.



Carriage sideshift / fork positioning



Carriage with kissing forks for steel handling



Fork shaft system (Hook on type or roller type)



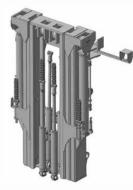
Coil ram



Duplex standard



Duplex free lift



Triplex full free lift



Standard equipment.

Chassis/Body

- Towing pin
- Steps with anti-slip protection
- Rear view mirror left and right side mounted on front mudguards and in mast
- Strong and protective mudguards
- Lifting eyes in mast and chassis

Cabin

- EGO Cabin
- Clear and tempered panes of safety glass, thickness 6 mm
- Std seat including 2-point belt with (orange)
- Clear windows including sliding windows in left and right door.
- Complete doors with locks left and right side
- Complete manouevre system right hand console including light controls, toggle wheel for display, levers for load handling system (electric adjustable, 2-ways)
- Multi function lever left side including horn, turn signal
- Brake system with pedal left and right side
- Internal comfort including mirror, handles, interior lighting etc.
- Wiper and washers front/rear and roof window
- Hydraulic steering system including electrically adjustable steering wheel in height, manually adjustable laterally and longitudinally with steering wheel knob
- External reverse lights
- Cab tilting
- Instep handle, left side
- Automatic heat and ventilation (ECH) with fresh air inlet filter
- Speed control pedal right side.
- Kalmar standard Key system
- Cup holder
- Coat hook
- Colour display:
 - Fuel level, indicator
 - Engine, transmission temperature
 - Oil pressure engine
 - Battery voltage
 - Clock and date
 - Hour meter
 - Service time indicator
 - Speed
 - Engine speed (RPM)
 - Various information via pop-up
 - AdBlue indicator

Steering system

• Steering axle Kalmar, including double acting steering cylinder

Drivetrain

Driveaxle DCG180-250: Kessler DCG280-330: Axletech

Hydraulics

- Electrical servo
- Level sight glass on hydraulic oil tank
- Variable pumps
- High pressure filter
- Automatic raised engine rpm when load handling function is used
- Tilt angles standard 5°F/10°B

Electric system

- Electrical system 24 V
- Rear lights and brake lights, LED
- Working light front mudguards 2 pieces, LED
- Working light mast 2 pieces, LED
- Indicator lamps including hazard lights, LED
- Main power switch

Wheels

 Continental DCG180-250 14.00x24 DCG280-330 16.00x25

Fleet management

• Equipped with telemetric hardware for Kalmar Insight

Colour

- Cabin: frame RAL 7011/70, covers RAL 7021/10
- Chassis: Kalmar Red 2012 (Base ref.RAL 3000/75)
- Lifting equipment: Kalmar Black (Base ref.RAL 7021/30)

Documentation & decals

- Operator manual
- Maintenance manual
- Parts catalogue
- Load diagram in cabin
- Warning decals
- Information decals
- Diagram, fuses
- Noise plate (legal requirement in EU/EEC)



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