

## Technical Description

### Model

#### Selected options

- **DCG140-6, WB 3250**  
Capacity: 14000 kg @ 600 mm load center
- **Kalmar EGO Cab, complete with all instrumentation**  
Kalmar EGO Cab, complete with all instrumentation  
Warning lamps: Battery charging, blinkers, warning lights, parking brake.  
Display for drive train monitoring system including alarms.  
Only for diesel forklift: Display all parameters of engine and transmission.  
Only for diesel forklift: Display: battery level, engine oil pressure, engine coolant temperature, transmission oil temperature, fuel level, operating time.  
Only for electric forklift: Display parameters of time(12h/24h), cabin temperature(degreesC/F), engine RPM / Hydraulic pump motor RPM, ECO Gaugelevel / Energy consumption kw, Vehicle speed(km/h or mph), Operatings hours, Fuel level / battery state of charge SOC, Traction motor left/right temperature(C/F degrees), hydraulic pump motor brake ACC/AC temperature(C/F degrees), hydraulic pump motor hydraulics temperature(C/F degrees), Hydarulic oil temperature(C/F degrees), Water heater ECC temperature(C/F degrees), Battery voltage, ECO Drive Mode, Error history, Acc/de-acceleration.  
Mechanical suspension, 4-way adjustable, cloth driver seat with seat belt.  
Tilt steering wheel with multiple positions.  
Two (2) ergonomically positioned, multi-function levers on steering column.  
-Heavy duty, gear changing/directional switch.  
-Windshield wipers and washers: front , roof, and back pane.  
-Horn and blinkers.  
EHC Electronic heat control. Multi-speed cab heater/defroster for adjustment of heat and air.  
One (1) internal rear view mirror.  
Tilting cab with manual pump, for easy service access.
- **Cummins B6,7 + ZF 3WG171 (188 kW) Stage V**  
Cummins engine model B6.7  
Electronically controlled and monitored  
6 cylinder turbo diesel engine  
Rated 168 kW @ 2200 rpm  
Max 188 kW @ 1900 rpm  
1186 Nm @ 1300 rpm  
Protection system for engine and transmission  
Altenator current 70A

### Cabin

#### Selected options

- **Globetrotter cab incl. 12 mm roof screen**  
Globetrotter cab with 1720 mm internal height (+200 mm). This cab is 200 mm higher than the standard EGO cab. This makes access easier for the driver and gives more space when working. It also gives improved view upwards, since the angle of the roof window in some cases creates fewer reflections. Including 12 mm roof screen.
- **Air conditioning ECC incl. fresh air filter and tinted screens**  
Electronic climate controlled (ECC) air conditioning, with fresh air filter.  
Complement standard climate system with cooling system. Tinted screens incl. laminated front screen is included in option.

Total height (H6) +205 mm for following models: ECG50-90, DCG90-180.

- **Basic gridprotection cab roof**
- **Separated wipers for front and roof window**
- **Door opening holder (opening from inside doors)**
- **Sun visor front screen. Black perforated material.**  
**Sun visor roof screen. Black perforated material.**
- **Isringhausen 6830KA/880 air suspended driver´s seat 2 point safety belt + heating**, landscaping and air-regulated lumbar support and side support.
- **Extended seat back rest**
- **Head rest drivers´ seat**
- **Tuner FM RDS/MP3/USB/AUX/Bluetooth/Hands free-function/Streaming/DAB/CD**  
**2 pcs 12 V sockets 2 pcs 24 V sockets**  
24/12 V converter incl, 4 sockets in cab. Placed at bar corners left and right side.  
**Heavy duty electric air pressure horn**
- **Strobe light adjustable LED type**  
Located by the cabs left rear corner. This beacon is adjustable in height which is an advantage when the truck is operating in environments where height is limited. Controlled by a button on the dashboard.
- **Weight indicator in display. Deviation 1-3% of rated load.**  
Weight indicator in display is fully functional om mast Duplex std. On Duplex free lift and Triplex it is only functional on free lift stage.
- **Switch by lift lever for forward and reverse**
- **Ergonomic steering, Mini steering**  
Functions: off/on button, forward/reverse/neutral, blinker right/left, high/low beam, when button is activated wipers will do one stroke. Optimal for using in narrow working areas. Gives a good working environment.
- **Electrical heated and adjustable mirrors on cab**
- **Interior floor mat protection**

## Mast

### Selected options

- **Two-stage standard mast with "Through-vision" design**  
Overall mast height, lowered = 4290 mm  
Overall mast height, fully extended = 7015 mm  
Maximum lift height, forks = 5500 mm  
Mast tilt angles - 10° backward / 5° forward
- **Steps on left mast beam 3 pcs**
- **Rollers replaces sliding pads in mast/carriage**
- Beskyttelse over tak monteret i mast

## Carriage

### Selected options

- **Roller-type carriage with sideshift and simultaneous fork-positioning**  
Sideshift = 440 mm maximum at forks outside to outside edge 1450 mm  
Fork-positioning:
  - Minimum, outside to outside edge, = 570 mm
  - Maximum, outside to outside edge, = 2330 mmWidth, edge to edge = 2450 mm

## Forks

### Selected options

- **Fork dimension 250 x 60 x 2000 mm**  
Lifting capacity 14 100 kg / lc = 600 mm
- **Roller-type fork mountings for sideshift and fork-positioning carriage**
- **Hydraulic fork leveling for sideshift / fork-positioning carriage**
- **Wood support, H = 2100 mm load surface**

## Steering axle

Heavy duty Kalmar designed steer axle with double-acting steering cylinder. This provides high strength and durability.

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## Drivetrain

Two stage filter with integrated pre-cleaner and service indicator in cab display.

Drive axle  
Heavy duty Kessler drive axle  
Wheel and differential hub reduction.

Service brake  
Maintenance free oil-cooled wet disc service brakes.

Parking brake  
Spring actuated dry-disc parking brake located on the drive line.

### Selected options

- **Engine heater 220 V**
- **Reversible cooling fan**

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## Hydraulics

Two variable piston pumps that run on demand resulting in quicker response, higher lifting speed, longer life, fewer leaks, less noise, less heat and better fuel economy. Level sight glass on hydraulic oil tank.  
Electro servo controls with improved levers for lift, tilt, sideshift and fork positioning.  
Hydraulic pilot pressure steering for effortless steering.  
Hydraulic driven fan  
Two canister style hydraulic high pressure filters for easier service.  
Double sealed hydraulic cylinders for fewer leaks and longer life.

### Selected options

- **Hydraulic accumulator/damping for lifting function**
- **Hydraulic oil heater 3 kW/220 V/1 phase/3 conductor/32A**
- **Cooling hydraulic system**

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## Chassis

### Selected options

- **Mud flaps for drive wheels**
- **Stacking box for spacers, located on left side**
- **Aluminium anti slip on lamp holder and front mudguards**
- **Lower step with grid**
- **Prepared for tyre chains**

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## Electrics

24 V electric system  
Fully redundant CAN-bus system  
Weatherproof connectors  
Control units and fuses protected within an easily accessible and weatherproof cabinet on side of chassis.  
Braided wire looms protect wire harnesses and do not trap moisture

### Lighting

Two (2) working LED lights mounted on mast  
Two (2) rear LED lights, backward direction, mounted on back of cab  
Two (2) working LED lights on front mud guards  
Two (2) tail LED lights/brake lights, mounted on counterweight  
Four (4) LED blinkers  
- two mounted on front mud  
- two mounted on counterweight

#### Selected options

- **Two extra headlights in mast mounted under standard lights LED**
- **Six extra headlights LED mounted at rear edge of cab roof in lighting ramp**
- **Extra headlight LED + step between tilt cylinders**
- **LED light in engine compartment**
- **Electrical cab pump in combination with standard pump**
- **Electronic inching**
- **Automatic engine stop (System shut down - engine and ignition) at engine idle after preset time**  
Operator leaving the driver's seat.  
-Delay may be adjusted by a service technician.  
Time adjustable in Init, default 5 min
- **Battery charger in combination with engine heater**
- **Blue safety light**  
The blue safety LED light alerts people that the truck is approaching, reducing the risk of accidents. It's placed at the rear end of the cab roof. Blue Safety LED light ensures a visible sharp edged warning signal on the floor for an increased safety environment.  
Bulb: LED Blue. Lifetime: 20 000 hours
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The blue safety LED light alerts people that the truck is approaching, reducing the risk of accidents. It's placed at the rear end of the cab roof. Blue Safety LED light ensures a visible sharp edged warning signal on the floor for an increased safety environment.  
In mast for light in forward direction.  
Bulb: LED Blue
- **EDM, Eco Drive Modes**  
Eco Drive Modes  
Three different modes: power, normal and eco mode  
Power for maximum productivity  
Normal for good performance and decreased fuel/energy consumption (up to 10% lower compared to power mode)  
Eco for low fuel/energy consumption (up to 20% lower compared to power mode)  
  
Note! The actual fuel consumption is dependent on driver behavior and type of application.

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#### Tyres and rims

The rims are interchangeable between the steer and drive axles.

#### Selected options

- **The rims are interchangeable between the steer and drive axles.**

Type / Make    Michelin XZM  
Drive wheels 4 pcs    12.00 x 20  
Steer wheels 2 pcs    12.00 x 20

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#### Colour

Chassis Red KALMAR RED 3000  
Cab Grey KALMAR GREY RAL 7011  
Mast, carriage, forks Black KALMAR BLACK RAL 7021  
Decals/logos/stripes White KALMAR WHITE RAL 7047

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<b>Documentation</b>	<p>The following documentation is included as standard:</p> <ul style="list-style-type: none"> <li>* Instruction manual</li> <li>* Maintenance manual</li> <li>* Individual parts catalog</li> </ul>
<b>Extra equipment</b>	<p><b>Selected options</b></p> <ul style="list-style-type: none"> <li>• <b>Automatic central lubrication system - 14 points</b> 8 points on the steering axle 6 points on the mast</li> <li>• <b>Wheelnut protection steering wheels</b></li> <li>• <b>Tilt indicator mechanical</b></li> <li>• <b>Rotating beacon on counterweight, conn. to reverse gear</b></li> <li>• <b>TV camera with monitor in cab, direction rearward</b></li> <li>• <b>Forrex fire extinguish system</b></li> </ul> <p>Allows both manual and automatic actuation of the system. The system is unpressurized which makes it easier to maintain, service and recharge the system. All systems are installed with the amount of extinguishing agent mandated in SBF 127 (regulations from the Swedish Insurance Companies Association), i.e. 3 liters of agent per every m<sup>3</sup> of engine volume. Effective extinguishing agent with unique properties of cooling down the material and excellent protection against reignition. Robust system design that is highly resistant to vibration, cold, heat, chemical substances and mechanical abuse. The agent attacks the fire both at the source and in the hazard area as a whole. The nozzles produce ideally sized droplets. They are large enough to prevent them from being blown away by the exhaust fan, yet small enough so there is no reduction in cooling and inerting effect. Proven design - Dafo has 30 years of experience in the design, development and installation of fire suppression system for vehicles. Tested, approved and certified by SBF. Every system design and installation is done strictly according to the SBF 127. The system and its components are approved by SBF, numerous insurance companies and TÜV. Tested for vibrations, temperature and EMC disturbances.</p>
<b>Tyres and rims</b>	<p>Michelin 12.00*20 XZM rim 8.5*20, 6 pcs 1</p>
<b>Extra equipment</b>	<p>Central greasing aut. 14 pts steering axle/mast 8/6 1          Wheelnut protection steering wheels 1          Tilt indicator mechanical 1          Rotating beacon on counterweight conn. by reverse gear LED type 1          TV camera with monitor in cab, direction rearward 1          Fire suppression system Forrex Automatic + manual activation 1</p>