Technical Description

Model

Selected options

- **DCG150-12, WB 3500**
  Capacity: 15000 kg @ 1200 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.

- **Volvo TAD871VE + ZF 3WG 191 (185 kW) Stage IV / Tier 4f**

  Volvo TAD871VE (Stage 4) SCR
  Electronically controlled and monitored
  6 cylinder turbo diesel engine
  185 kW @ 2200 rpm
  1160 Nm @ 1100 rpm
  252 horsepower @ 2200 rpm
  Protection system for engine and transmission
  Altenator current 110A

  Transmission
  ZF WG 191 series transmission
  Electronically controlled and monitored hydrodynamic transmission
  3 speed forward - 3 speed reverse with automatic gear change
  Directional lockout protection - forward/reverse
  Automatic gear shifting

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 imroved view upwards, since the angle of the roof window in some cases creates fewer reflections. Including 12 mm roof screen.

- **Electrical left rotatable driver's seat 180°**

  Electric rotating drivers seat, 180° to the left.
  Hydraulic functions active from 0-80°.

  Light: brake, rear, flasher lights are double. Lights in mast and reverse light has vice versa function when turning seat. If High/low beam is choosen this will be double. Extra mirror inside. Only one reverse alarm.
  Medium: brake, rear, flasher light are double. Extra working lights on counterweight and reverse light has vice versa function when turning seat. If High/low beam is choosen this will be double. Extra mirror inside. Extra reverse backalarm.
  Heavy: brake, rear, flasher light are double. Extra working lights on counterweight and reverse light has vice versa function when turning seat. If High/low beam is choosen this will be double. Extra mirror inside. Extra footstep on right side. If reverse alarm is choosen this will be double. Extra external mirrors on counterweight.
- **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.

-
- **Sun visor roof screen. UV reflective tint film.**
  UV rejection 99%.
  Solar energy rejection 72%.
  Glare reduction 95%.
- **Sun visor rear screen. UV reflective tint film.**
  UV rejection 99%.
  Solar energy rejection 72%.
  Glare reduction 95%.
- **Isringhausen 6830KA/880 air suspended driver´s seat 2 point safety belt + heating,**

  landscaping and air-regulated lumbar support and side support.
- **Tuner FM RDS/MP3/USB/AUX/Bluetooth/Hands free-function/Streaming/DAB/CD**

  Design
  Clear and functional Design
  Matt black fixed front
  LCD Display
  Orange illumination
  Tuner
  DAB/DAB+/DMB Tuner
  Worldwide FM RDS tuner / AF / TA / EON / PTY
  LW, MW and FM with AST
  6 Preset Keys
  FM 12, FM-AST 6, MW 6, MW-AST 6, LW 6
  RDS clock
  Bluetooth
  Cell Phone Headset Functionality (HSP)
  Cell Phone Handsfree Mode (HFP)
  Play Music from Cell Phone (A2DP, AVRCP)
  CD-Player

Scan/Repeat, Tracks/Random, Previous/Next
Electronic Shock Protection (ESP)
USB-Host
Front USB port
Support of USB 1.1/ USB 2.0
Support of MP3/WMA format
Support of Media Storage up to 8GB
Internal Amplifier
Max. Music Power: 4 x 15 Watt
RMS Power: 4 x 10 Watt
4 Sound Presets (Classic, Pop, Rock, Jazz)
Loudness Function
Mute
General
Non volatile memory of settings
Logic ON-OFF function
Rear AUX input
Dimensions (WxHxD) 188x58.5x183mm
DIN/ISO Connectors

- **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**
- **Cab heater 230 V incl. socket (connected via engine heater)**
- **Electrical heated and adjustable mirrors on cab**
- **Holder for terminal or monitor, right side**
- Fast montert leselampe
- Fast montert dokumentholdere
- Joystick Sauer Danfoss
- 500mm raised cab

Mast

Selected options

- **Two-stage standard mast with "Through-vision" design**
  Overall mast height, lowered = 3945 mm
  Overall mast height, fully extended = 6195 mm
  Maximum lift height, forks = 4500 mm
  Mast tilt angles - 10° backward / 5° forward

- **Extended wheel distance (includes heavy duty tilt cylinder bracket in mast)**
- **Rollers replaces sliding pads in mast/carriage**

Carriage

Selected options

- **Roller-type carriage with sideshift and simultaneous fork-positioning**
  Sideshift = 400 mm maximum at forks outside to outside edge1450 mm

Fork-positioning:
- Minimum, outside to outside edge, = 610 mm
- Maximum, outside to outside edge, = 2360 mm
Width, edge to edge = 2500 mm

Forks

Selected options

- **Roller-type fork mountings for sideshift and fork-positioning carriage**
- 220*90*2400

Steering axle

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

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**

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**

Chassis

Selected options

- **Mud flaps for drive wheels**

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**
- **Reverse alarm**

  Smart Alarms models measure ambient noise and adjust their sound level, creating a volume that it safe without being annoying or contributing to noise pollution. Smart Alarms eliminate the need for constant manual adjustment and help prevent intentional alarm disconnection. 87-112 dB(A)

- **Electrical cab pump in combination with standard pump**
- **Speed limitation adjustable via code by Service technician, please specify Km/h.**
  Speed limitation are adjustable below factory speed limit via code by Service technician.
- **Over load indication for lift/tilt incl. speed restriction for Duplex std mast**
- **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

Tyres and rims

The rims are interchangable between the steer and drive axles.

Type	Pneumatic
Drive wheels 4 pc	XX.00 x 2X
Steer wheel 2 pc	XX.00 x 2X

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

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

Documentation

The following documentation is included as standard:
* Instruction manual
* Maintenance manual
* Individual parts catalog

Selected options

- **Workshop manual on USB memory stick**

Extra equipment

Selected options

- **Automatic central lubrication system - 18 points**
  8 points on the steering axle
  6 points on the mast
  4 points on the carriage
- **Tilt indicator mechanical**
- **Rotating beacon on counterweight, conn. to reverse gear**
- Elektrisk oppvarmet og justerbare speil på motvekt

Kalmar Insight - available for FLT and CCH

Performance management tool for cargo handling operations providing equipment performance information. Kalmar Insight is subject to Kalmar Insight Terms & Conditions, available at https://insight.mykalmar.com/terms-and-conditions, including automatically renewed yearly software licenses. 1st year of use is included without extra charge. Normal price (449 €/year) applies for the following years.

Quoted options, Overview

	Description	Quantity
Model	DCG150-12, WB 3500	1
	EGO cabin	1
	Volvo TAD871VE + ZF 3WG 191 (185kW) Stage IV / Tier 4f - ONLY outside EU	1
Cabin	Globetrotter cab incl. 12 mm roof screen	1
	Electrical left rotatable driver's seat 180°	1
	Air conditioning ECC incl. fresh air filter tinted screens and laminted front screen	1
	Flat front screen incl. tinted glass/laminated front screen/std roof screen 6mm replaced by 12mm	1
	Sun visor roof screen. UV reflective tint film.	1
	Sun visor rear screen. UV reflective tint film.	1
	Isringhausen 6830KA/880 air suspended driver´s seat 2 point safety belt + heating	1
	Tuner FM RDS/MP3/USB/AUX/Bluetooth/Hands free-function/Streaming/DAB/CD	1
	1 pcs 12 V sockets, 1 pcs USB socket with 2 power outlet (5 V) and 2 pcs 24 V sockets	1
	Electric strong tone horn	1
	Strobe light adjustable LED type	1
	Weight indicator in display	1
	Switch on lift lever for forward and reverse	1
	Cab heater incl. socket (conn. via engine heater)	1
	External mirrors placed on cab, 2 pcs. Electrical heated and adjustable.	1
	Holder for terminal or monitor, right side 1 pc	1
	Fast montert leselampe	1
	Fast montert dokumentholdere	1
	Joystick Sauer Danfoss	1
	500mm raised cab	1
Mast	Duplex standard H4=4500 100-12--180-6 H3=3945	1
	Extended wheel distance + long tilt cylinder fixation*	1
	Rollers replaces sliding pads in mast/carriage	1
Carriage	Sidesh/forkpos W=2500 100-12--180-6**	1
Forks	Mountings f sidesh./forkpos. carriage (rollertype)	1
	220*90*2400	1
Drivetrain	Engine heater 220 V	1
Hydraulics	Hydraulic cylinder accumulator for lifting function	2
Chassis	Mud flaps for driving and steering wheels	1
Electrics	Extra working light in mast 2 pcs	1
	Extra working lights at rear edge cab roof in lighting ramp 6 pcs	1
	Extra working light + step between tilt cylinders LED 1 p	1
	LED light in engine compartment	1
	Reverse alarm	1
	Electrical cab pump in combin- ation with standard pump	1
	Speed limitation adjustable via code by Service technician, specify Km/h. (default 15 km/h)	1
	Over load indication for lift/tilt incl. speed restriction for Duplex std mast	1
	Electronic inching	1
	Autom. stop of engine after 5 min. when unloaded seat	1
Tyres and rims	Michelin 12.00*20 XZM rim 8.5*20, 6 pcs	1
Documentation	Workshop manual on USB memory stick	1
Extra equipment	Central greasing aut. 18 pts /4 extra when rollers steering	1

axle/mast/carr. 8/6/4	
Tilt indicator mechanical	1
Rotating beacon on counterweight conn. by reverse gear LED type	1
Elektrisk oppvarmet og justerbare speil på motvekt	1

Product Images

DCG150-12, WB 3500

EGO cabin

Volvo TAD871VE + ZF 3WG 191 (185kW) Stage IV / Tier 4f - ONLY outside EU

Globetrotter cab incl. 12 mm roof screen

Electrical left rotatable driver's seat 180°

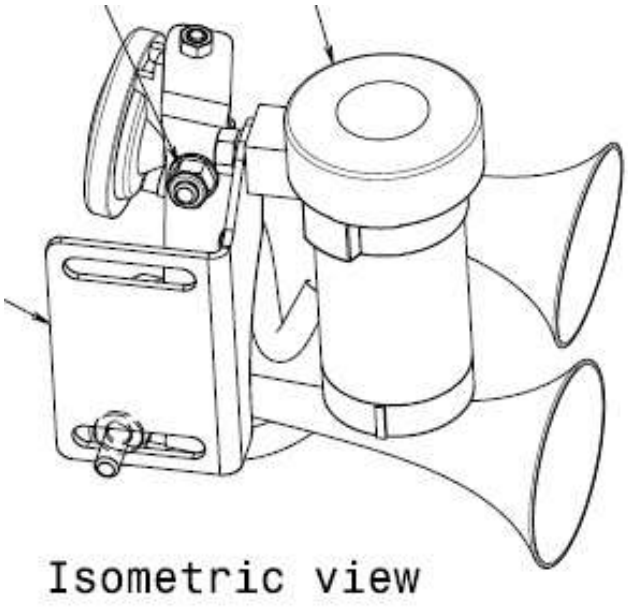
Air conditioning ECC incl. fresh air filter tinted screens and laminted front screen

Flat front screen incl. tinted glass/laminated front screen/std roof screen 6mm replaced by 12mm

Sun visor roof screen. UV reflective tint film.

Tuner FM RDS/MP3/USB/AUX/Bluetooth/Hands free- function/Streaming/DAB/CD

1 pcs 12 V sockets, 1 pcs USB socket with 2 power outlet (5 V) and 2 pcs 24 V sockets



Electric strong tone horn

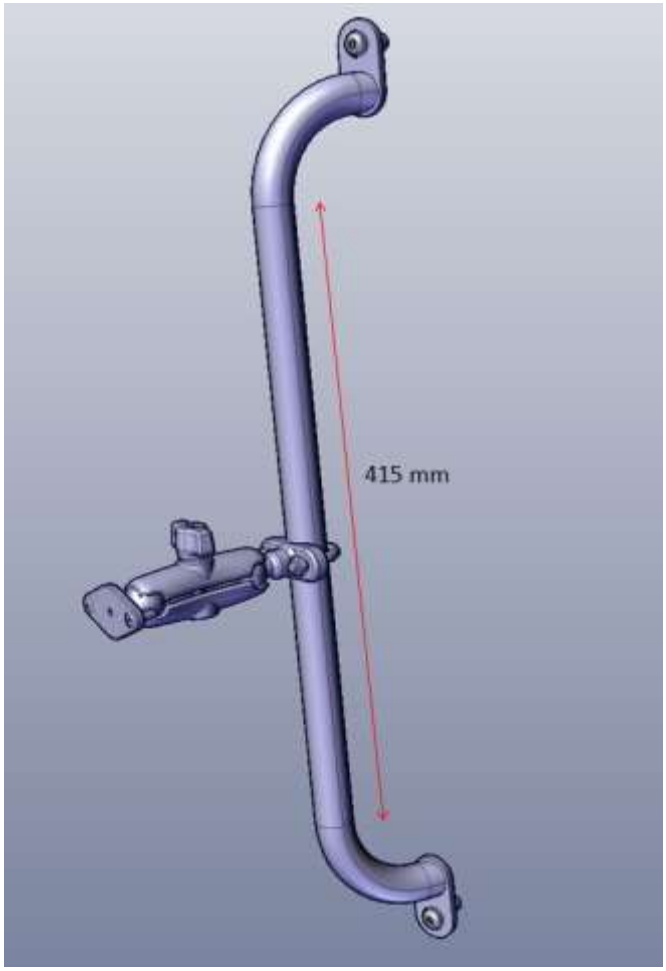
Strobe light adjustable LED type

Weight indicator in display

Switch on lift lever for forward and reverse

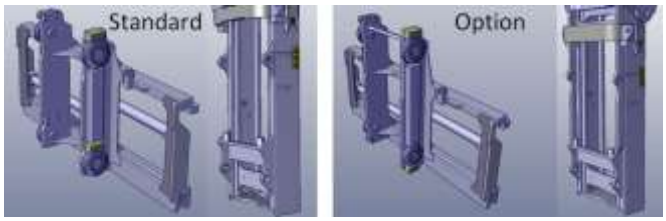
Cab heater incl. socket (conn. via engine heater)

External mirrors placed on cab, 2 pcs. Electrical heated and adjustable.

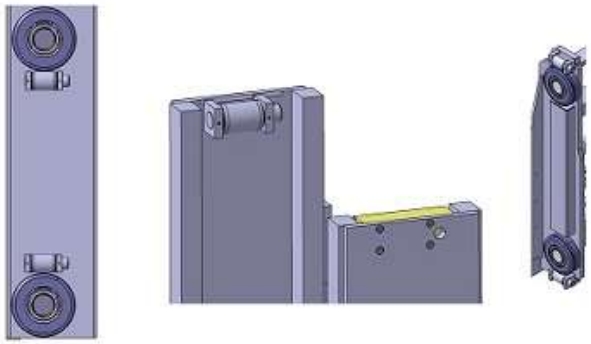


Holder for terminal or monitor, right side 1 pc

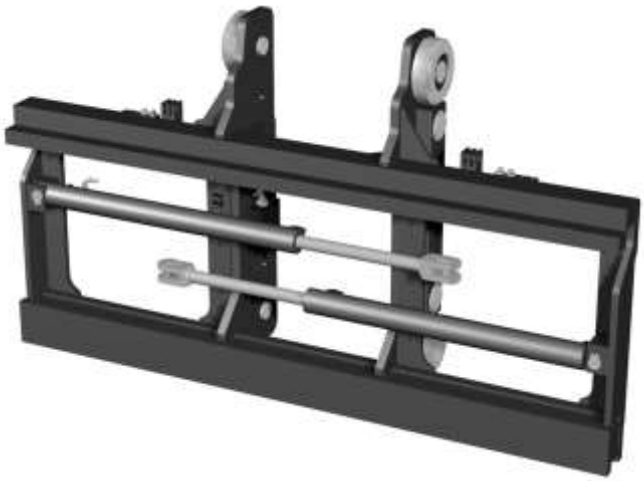
Duplex standard H4=4500 100-12--180-6 H3=3945



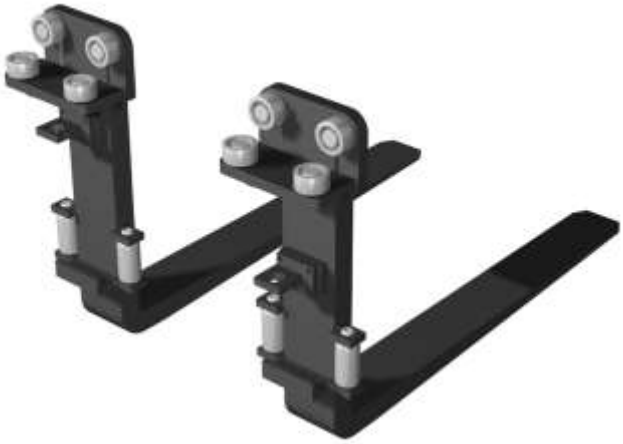
Extended wheel distance + long tilt cylinder fixation*



Rollers replaces sliding pads in mast/carriage

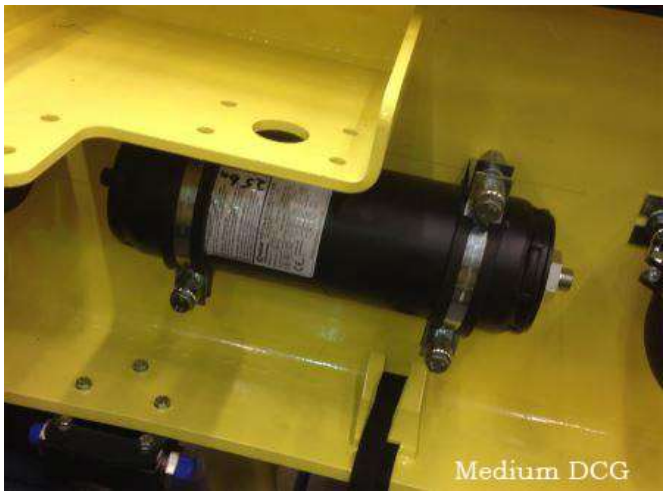


Sidesh/forkpos W=2500 100-12--180-6**



Mountings f sidesh./forkpos. carriage (rollertype)

Engine heater 220 V



Hydraulic cylinder accumulator for lifting function

Mud flaps for driving and steering wheels

Extra working light in mast 2 pcs

Extra working lights at rear edge cab roof in lighting ramp 6 pcs

Extra working light + step between tilt cylinders LED 1 p

LED light in engine compartment

Reverse alarm

Electrical cab pump in combin- ation with standard pump

Over load indication for lift/tilt incl. speed restriction for Duplex std mast

Switch for inching (29)

Switch (green) for activating inching.

Inching is activated/deactivated with the press of a button.

Electronic inching

Michelin 12.00*20 XZM rim 8.5*20, 6 pcs

Workshop manual on USB memory stick

Tilt indicator mechanical

Rotating beacon on counterweight conn. by reverse gear LED type