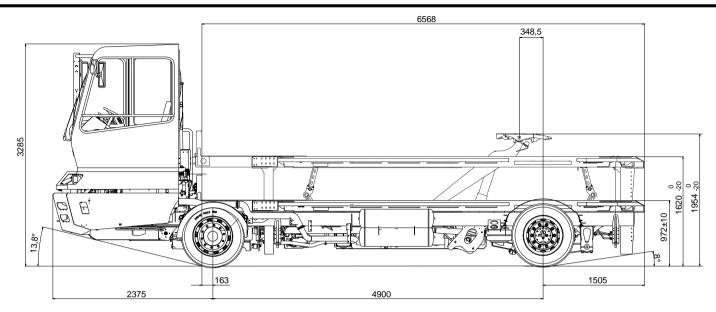


# BC182, 4x2 Technical Specification



# **ENGINE**

# Mercedes, OM934LA / MTU 4R1000 (Tier 4f / Stage 4)

Four-cylinder four-stroke direct injection diesel engine with turbo charging and intercooler.

Engine equipped with Mercedes (AdBlue) system including SCR-catalyst.

 Displacement
 5,10 dm³

 Bore
 110 mm

 Stroke
 135 mm

 Compression ratio
 17,6:1

 Output
 120 kW (163 hp) at 2400 rpm

 (maximum 129 kW (175 hp) at 2200 rpm)

 Torque
 750 Nm at 1.200-1.600 rpm

 Acc. to ECE R120

#### **GEARBOX**

# ZF Powershift transmission, Type 3WG161

Automatic shift transmission with 3 gears forward and 3 gears reverse. Equipped with converter and separate oil cooler for transmission oil.

# Theoretical speed at 2400 rpm

Gear 1	F+R	9,3 km/h
Gear 2	F+R	17,7 km/h
Gear 3	F+R	42,8 km/h

tyre size 295/60R22.5 Axle ratio 9,49:1

# **FRONT AXLE**

#### Volvo, Type FA 8.2

Heavy-duty Volvo FA 8.2 steering axle

Capacity: 11.000 kg at 20 km/h

15.000 kg at 0 km/h

## **REAR AXLE**

# TTA, Type 70-21

Heavy-duty drive axle with manual differential lock and hub reduction. Ratio......9,49:1

Capacity: 20.000 kg at 20 km/h 25.000 kg at 0 km/h

# **SUSPENSION**

Front: ½ parabolic leaf springs, air suspension and telescopic shock absorbers. Axle mounting with integrated roll reduction.

Rear: Directly bolted to chassis frame.

## Optional:

 Air suspension with dump valve in combination with telescopic shock absorbers and stabiliser. This allows the vehicle to lower approximately 50 mm.

## **TYRES AND RIMS**

Front - Single tyres

295/60R22.5 16 PR (2x)

Rear - Dual tyres

295/60R22.5 16 PR (4x)

Steel rims

10-hole-size 22.5x9.00 front / rear interchangeable

# Optional:

• Wheel nut protection rings on front axle.

# STEERING SYSTEM

Full hydrostatic orbitrol steering with emergency feature and double-acting steering cylinder.

Steering wheel diameter ......350 mm Turning radius Left / Right ......9.550 mm

## **HYDRAULIC SYSTEM**

Hydraulic load sensing pump for steering and swap body lifting directly mounted to the engine, with priority valve for steering system. Oil tank mounted to the right side of chassis frame.

Oil tank capacity	120 liter
Pump capacity:	60 dm <sup>3</sup> -1000 rpm
Working pressure:	200 bar
Lifting speed frame: .	8 seconds
(at 2.200 rpm)	

#### Hydraulic valve

The hydraulic valve is electrical / pneumatically operated with a multifunctional joystick inside the cabin. This type of operation is also used for lifting the optional 2" 5th wheel.

## **BRAKE SYSTEM**

Full air brake system with split front and rear axle and parking brake circuits. Parking brake working on rear axle. Front and rear axle equipped with automatic slack adjusters.

Air supply by engine mounted compressor and air dryer with integrated pressure regulator.

#### **Brake cylinders**

Front axle	2 diaphragm cylinders
Rear axle	. 2 x spring brake cylinders
Air tank capacity	3x60 dm <sup>3</sup>
Brake pressure.	7,8-8,5 bar

#### **FUEL TANK**

400 liter steel tank integrated with the hydraulic tank and mounted to the right side of the chassis frame.

# **ADBLUE TANK**

Capacity 35 liter and protected mounted on the right.











# **CHASSIS**

Welded rigid chassis frame consisting of steel box profiles.

Front construction with strong drawbar connection integrated in the front bumper. Rear side is equipped with bumper construction mounted on the swap body lifting frame.

Easy and practical entrance of the cabin thanks to cabin integrated set of steps on the right side.

#### **Optional:**

- Package for TÜV approval up to 40 km/h on public road.
- 2" 5th wheel construction with hydraulic height adjusting controlled from within the cabin.

Lifting frame capacity......15.000 kg The 5th wheel construction is mounted on the chassis frame. This isolation from the swap body lifting frame assures very stable vehicle / trailer operation.

2 line trailer brake system, mounted in the chassis, with yellow and red spiral hoses with glad-hands. Easy to access from the cabin plateau.

An additional side step at the left side of the swap body lifting frame is available when the vehicle is equipped with a 5th wheel.

## **SWAP BODY LIFTING FRAME**

Rigid swap body lifting frame consisting of steel box profiles, rear side of the frame with sloping sides.

Swap body lifting frame:

Width......2310 mm Capacity ......25.000 kg

The swap body is restricted at the front of the frame by two adjustable positioning profiles.

Four double-acting lift rams with hard chrome rods and stabile vertical profiles, all four equipped with a safety valve. Electronically operated oil flow divider assures parallel lifting. Frame is additional fixated by two stabiliser construction mounted at the front and the rear of the swap body lifting frame.

#### Optional:

- · Wearing plates mounted on the swap body lifting frame.
- Pneumatic adjustable stops.
- Different container locking systems available.
- A drawbar trailer coupling of 40 and / or 50 mm mounted at the rear side of the swap body lifting frame.
- Weight indicator of container and/or frame.

## **EXHAUST**

Silencer protected mounted on the left-hand side under the cab, outlet in the middle of the chassis.

# **ELECTRICAL SYSTEM**

Alternator ......100 A / 28 V Battery......2 x 12 V / 140 Ah

- CAN-Bus system allowing multiple options/flexibility and easy fault tracing.
- Headlights with high / low beam
- 2 LED rear lights with combined brake and direction indicator lights
- · 2 direction indicator lights front
- 5 LED work lights for lighting during reversing under swap body
- 1 interior light in cabin
- 1 rotating warning light on cabin
- Instrument lights
- · Wiring with code numbers easy readable / visible / accessible. Wiring, fuses and relays mounted in central electrical box.

#### **CABIN**

1 person – left-hand drive position. Forward facing driver's position.

## Dimensions outside:

width: 1400 mm length: 1593 mm height: 1821 mm

Cabin construction of over dimensioned strong steel profiles to comply to latest Rops/Fops regulations.

Cab mounted on 3 anti-vibration mounts in combination with shock absorber. Entrance to cab by inboard door for safe and easy entrance/exit to/from driver's position.

Horizontal sliding window at driver's side Large windows with excellent visibility. All window panes tinted hardened safety glass except front window which is layered. Noise insulation exceeds international standards.

Cabin can be tilted with hydraulic hand pump to 65°

Driver's seat with airsuspension and fully adjustable, mounted on console with generous storage space.

Demister/heater with 3 speed blower and recirculation system.

Steering column with 1 brake pedal and 1 accelerator pedal, mounted at right side of column.

#### Dashboard:

- Start-/Stop-ignition
- Differential lock
- Wiper rear (optional)
- Wiper washer (optional)
- LED work lights
- Hazard light
- Interior light

Terberg Driver Information Module (DIM) connected to the CAN-Bus system incorporating main indicator lights, gauges and vehicle status.

#### Right side of driver's seat:

Multifunctional joystick to operate the following functions:

- Drive direction
- Operation of swap body lifting frame
- Operation 5th wheel (optional)
- (un)Locking 5th wheel (optional)
- (un)Locking swap body (optional)

## **Indicator lights**

- Alternator
- · Direction indicators
- Main beam
- Differential lock
- · Parking brake
- · Air filter clogged

## Indicator lights / optical and acoustic signal on:

- · High temperature transmission oil
- · Low oil pressure engine
- · High coolant temperature
- Low air pressure circuit 1
- Low air pressure circuit 2
- Low fuel level
- Low voltage

#### Steering console:

- · Combined switch for:
- o Direction indicators
- Wiper front
- o High/Low beam
- o Horn

#### Optional:

- Air-conditioning
- Co-driver foldaway seat

#### **PAINTING**

Chassis frame: grey RAL 7022 Cabin: 1 colour conform RAL code number

#### **DOCUMENTATION**

1 set consisting of: Operation-, Spare Parts- and Maintenance manual.

Additional documentation available upon request.