

**> INDEX:**

- ▶ Introduction
- ▶ Ergonomy & Safety features
- ▶ Main components
- ▶ Options

**TERBERG**

**TT / RT**

**183 / 223 / 283 / 323**

The new generation Terminal / RoRo Tractors



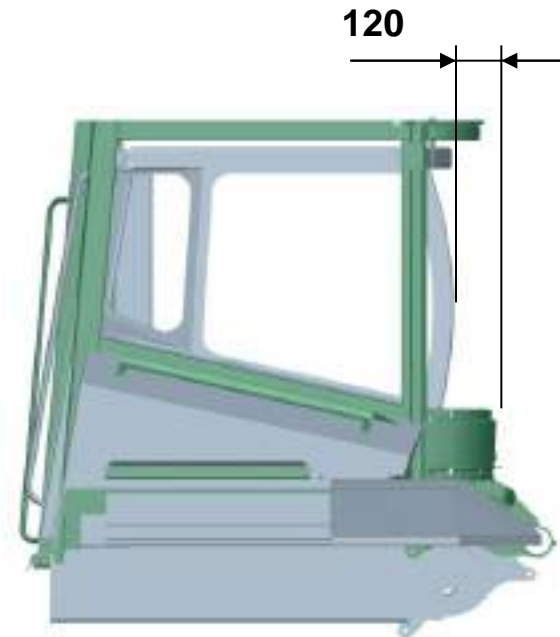
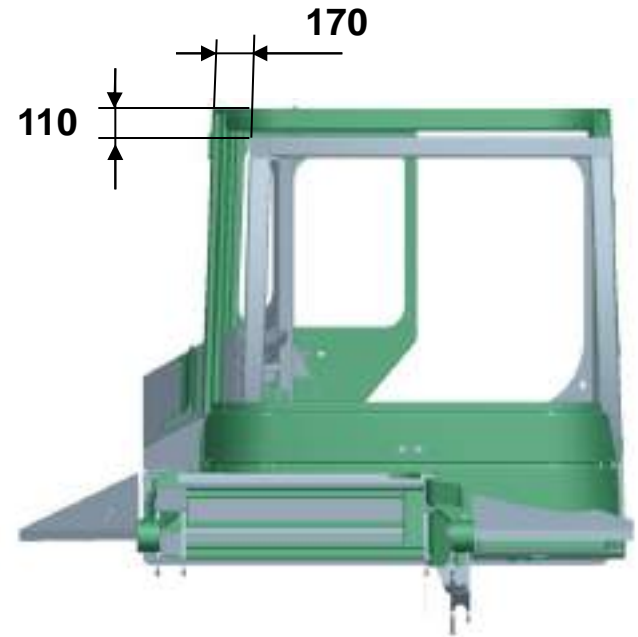
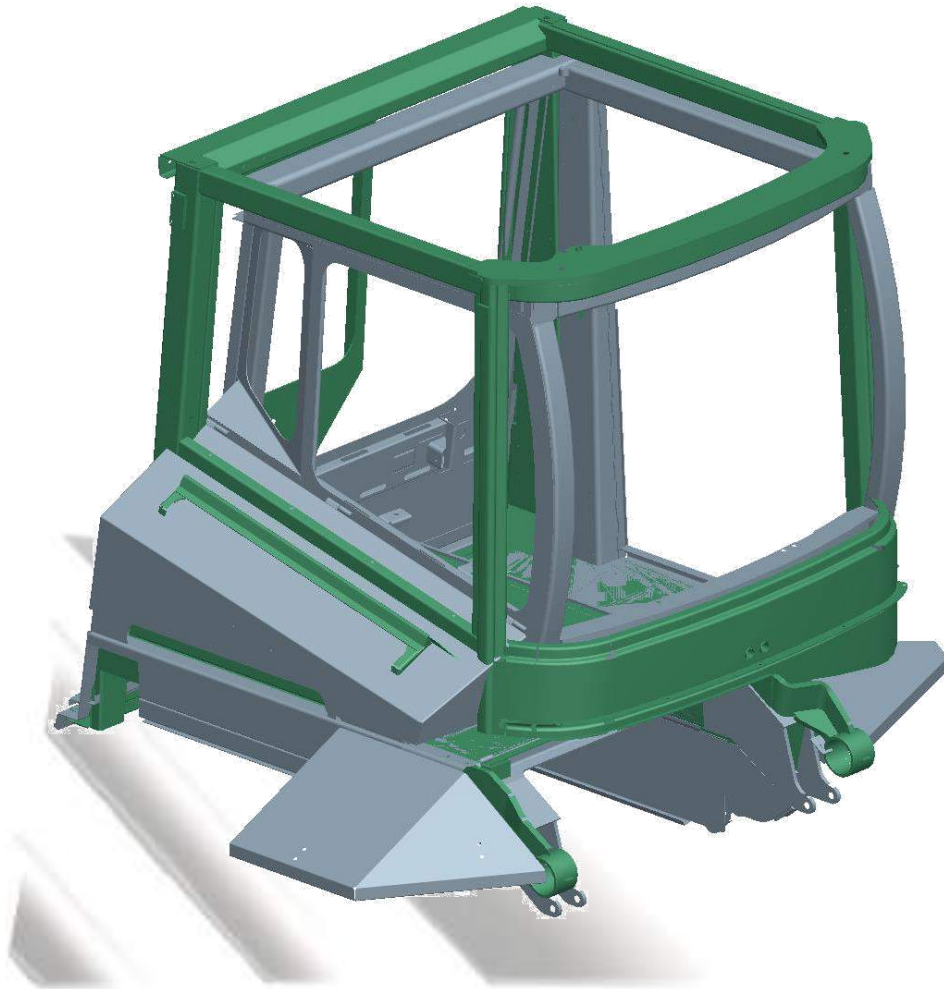
# INTRODUCTION

TERBERG TT / RT - 183 / 223 / 283 / 323





**> MORE CABIN VOLUME**



**> INTERIOR**

**OPTIMISED SIDE  
DASHBOARD**



**ROOF  
STORAGE**



**POSITION HYDRAULIC  
CONTROLS**



> CABIN HEATING SYSTEM



Controls  
**NEW** Infinitely  
variable fan



WINDOW  
DEFROSTER / HEATER



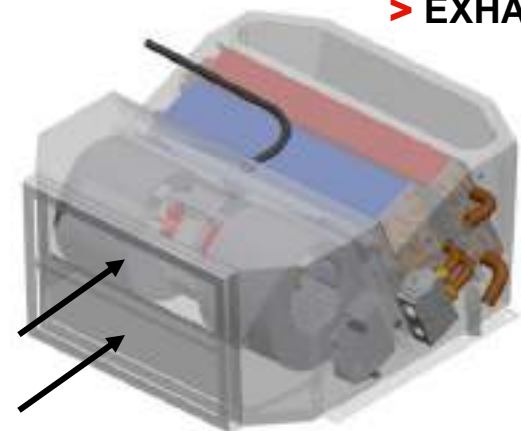
ADJUSTABLE OUTLETS  
FOR DRIVER COMFORT

> EXHAUST

> INTAKE:

Filtered  
Recycled  
air

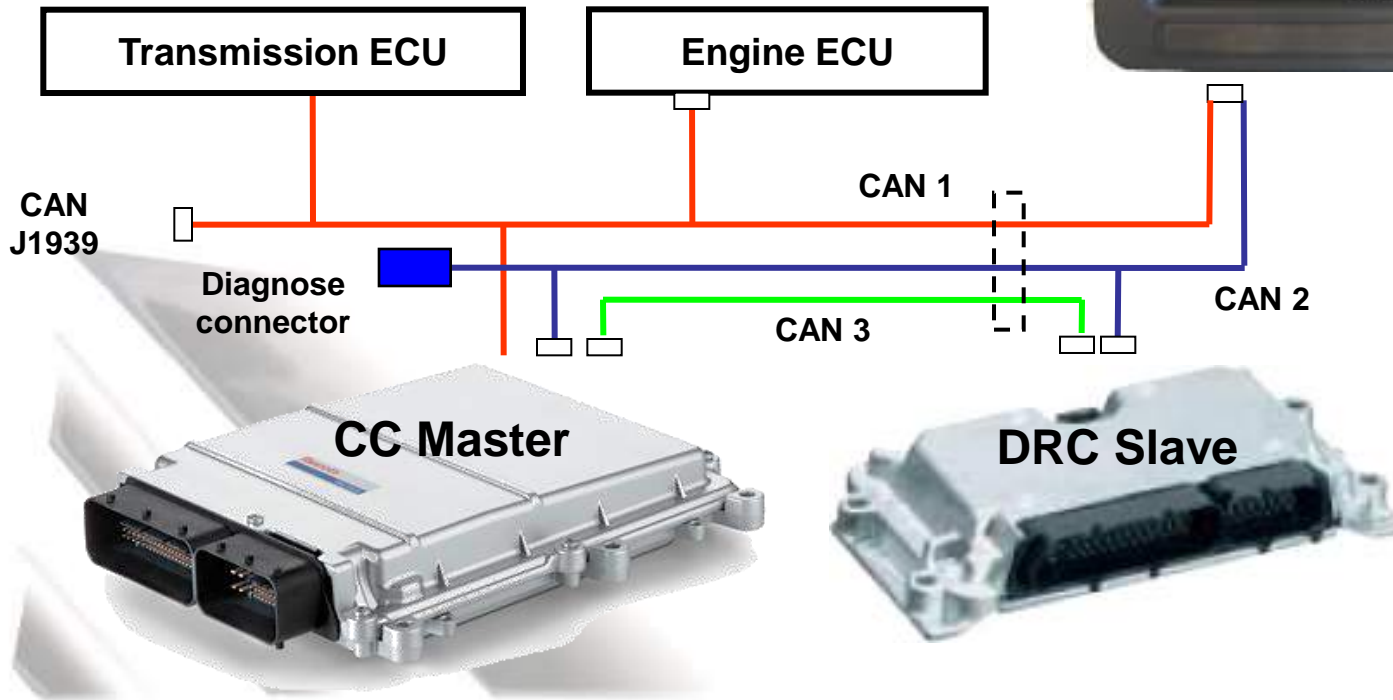
Filtered  
Fresh air



> Driver information module

> **CAN CONTROLLED ELECTRICAL SYSTEM**

- > Reduction of electrical wires in critical areas
- > Constant monitoring and guarding
- > Onboard diagnose with failure codes
- > Prepared to support a wide range of options



> **ELECTRO COMPARTMENT**

> **Switches &  
check lights  
with LED**

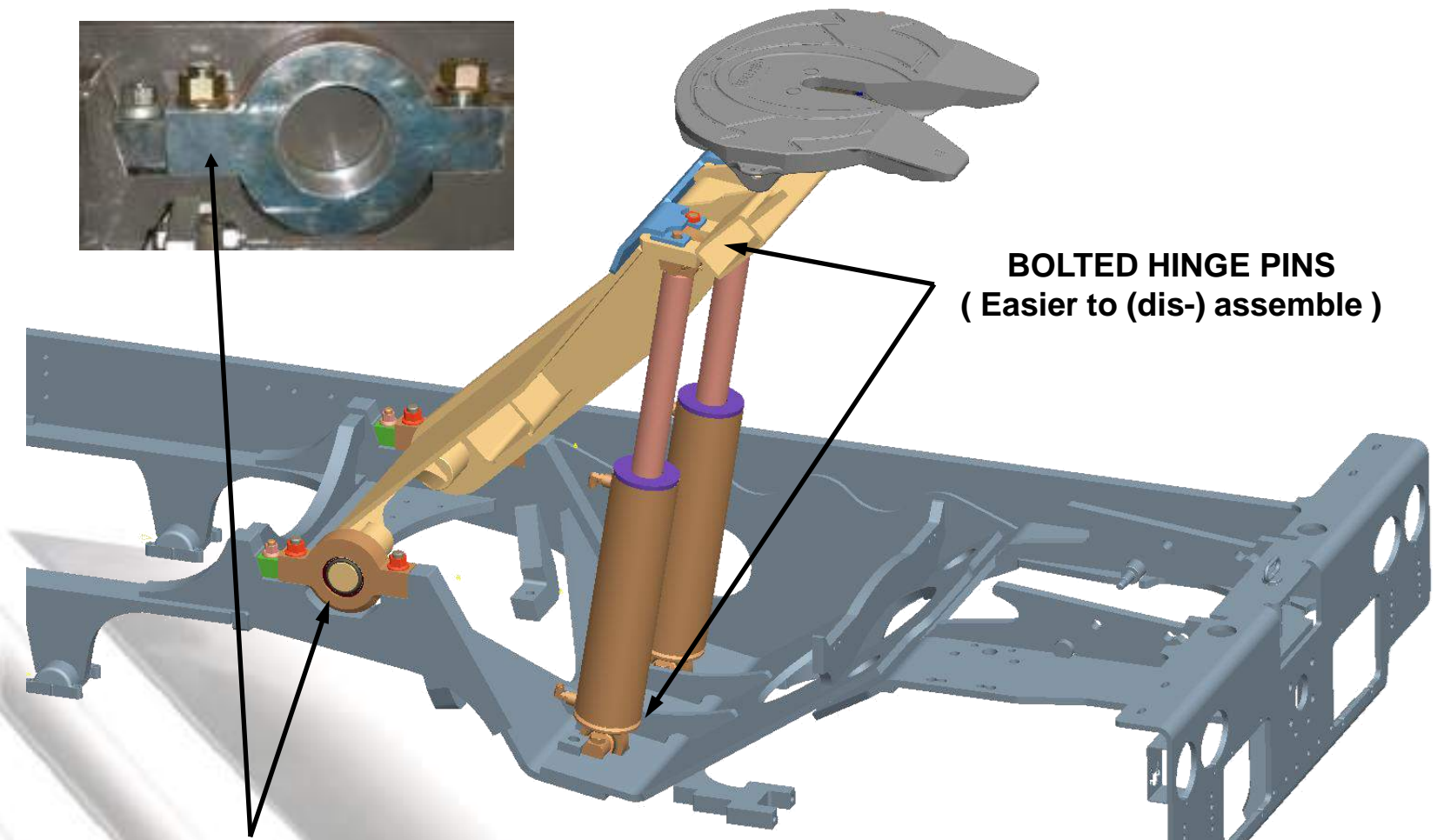




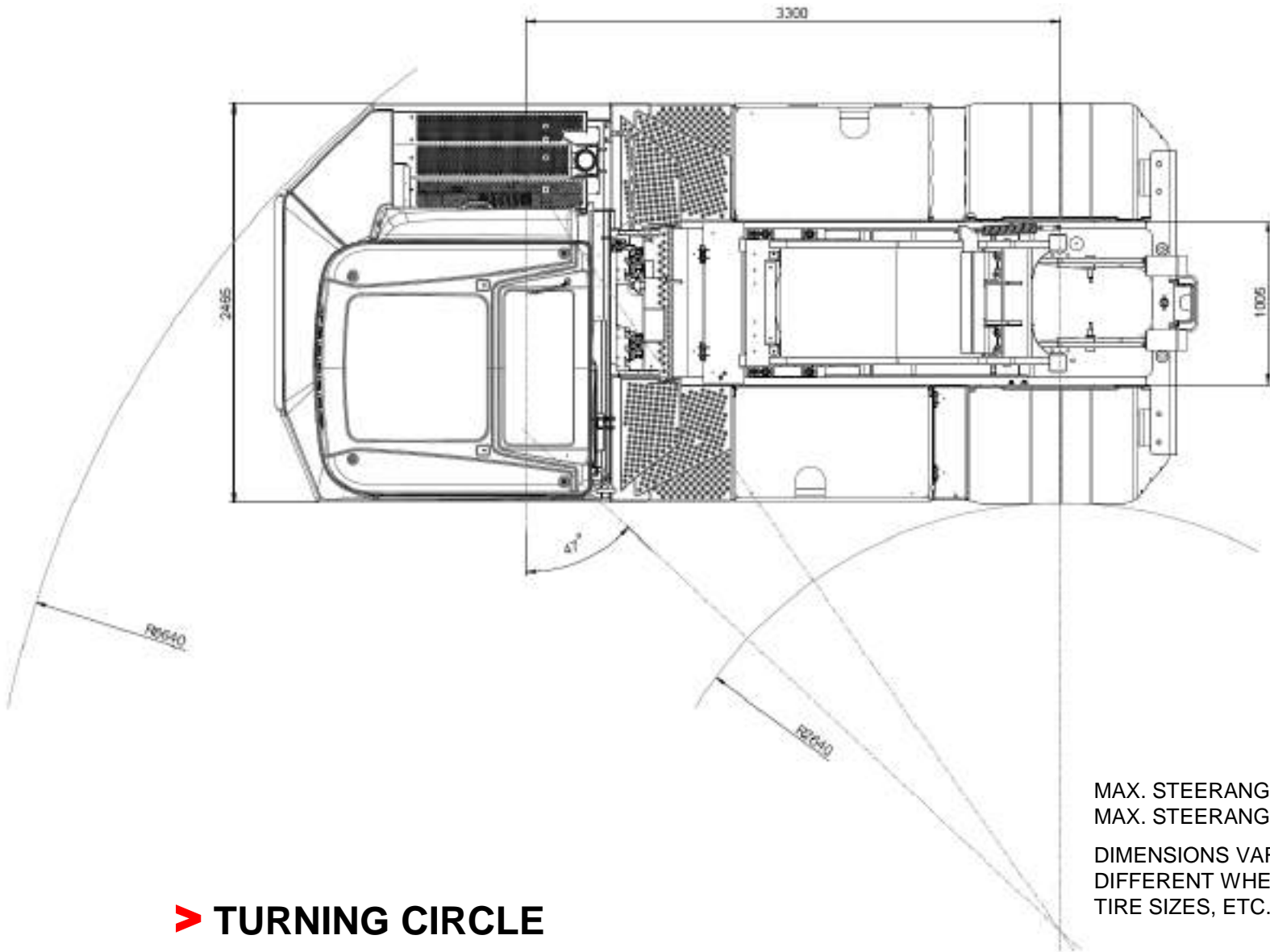
➤ **LIFT FRAME MOUNTING**



**BOLTED HINGE PINS**  
( Easier to (dis-) assemble )



**INCREASED LIFT FRAME BEARING**  
( All parts replaceable by bolting )



MAX. STEERANGLE TT= 50°  
MAX. STEERANGLE RT= 47°

DIMENSIONS VARY BY  
DIFFERENT WHEELBASES,  
TIRE SIZES, ETC.

**> TURNING CIRCLE**



**> SURFACE PROTECTION**

**> TRACTOR CHASSIS / PARTS:**

- > Completed chassis construction is prior shot blasted**
- > All steelwork is then pre-painted in 2- component chassis coating**
- > After the final assembly a final layer of 2- component chassis coating is supplied**
- > Functional blank parts are zinc coated and get blue passivation**

**> ASSEMBLY PARTS:**

- > Bigger visible parts are treated as above described**
- > Smaller visible parts are applied with cataphoresis primary and Electrostatic lacquer**
- > After the final assembly a final layer of 2- component chassis coating is supplied**
- > Not visible parts are applied with a thermal zinc coating**

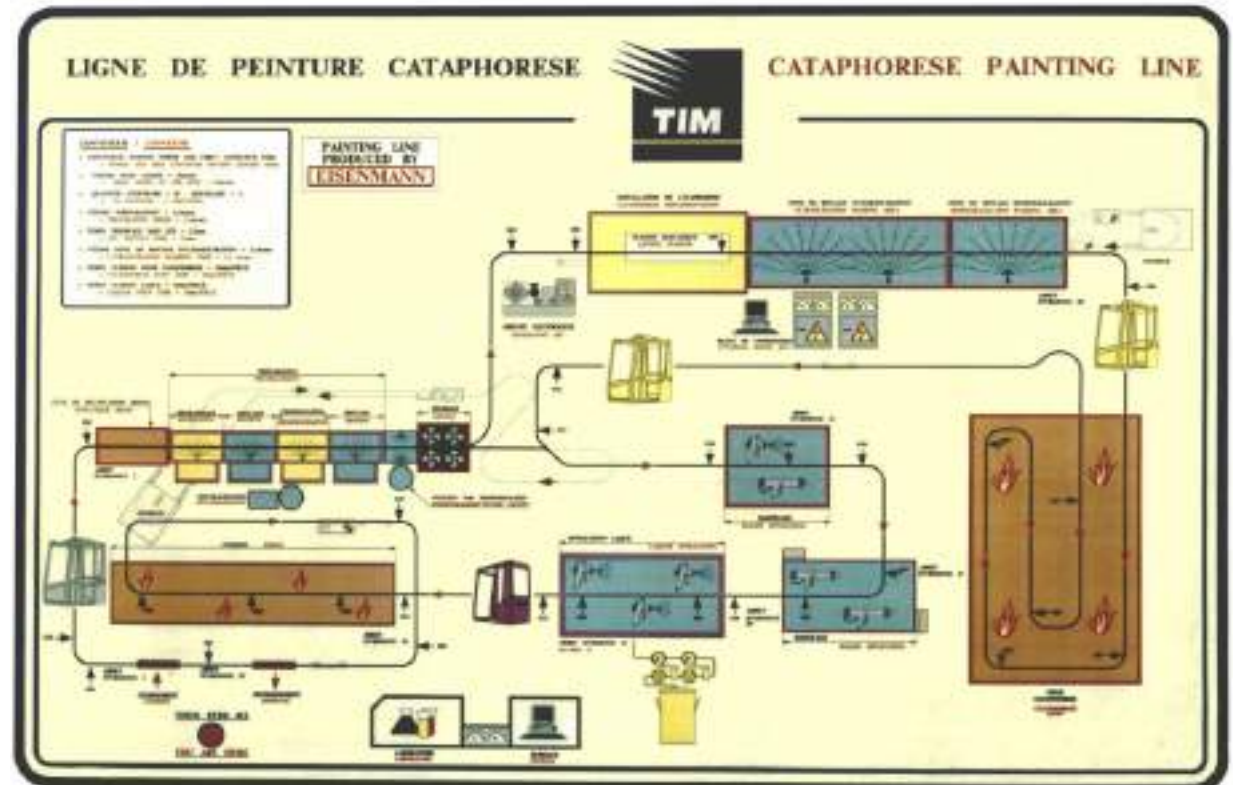
**> ALL PAINT SYSTEMS FULFIL THE LATEST ENVIRONMENTAL REQUIREMENTS**



> SURFACE PROTECTION

> TRACTOR CABIN:

- > Frame work gets zinc phosphatation
- > Application of cataphoresis primary
- > Electrostatic lacquer application
- > Oven heating according to the paint



## **> TOTAL COSTS OF OWNERSHIP**

**TERBERG CONTRIBUTES TO THE WELL BEING AND OPTIMUM PERFORMANCE OF YOUR STAFF, THROUGH THE FOLLOWING ERGONOMICALLY VERY IMPORTANT MEASURES:**

- > Low noise level inside and outside**
- > A very spacious, comfortable cabin**
- > Low cabin vibration level, using special rubber mountings**
- > Cabin air filtration, ensuring a clean driver environment**
- > Optimum temperature control**
- > Ergonomically positioned driver seat and instrument / controls lay out**
- > Standard air suspended seat, giving optimum driving comfort**
- > Safe and easy cabin and work platform entrance**
- > Easy, ergonomical access to all drive line components**
- > Cabin is Rops - Fops tested, to ensure driver safety**

**ALL IN ALL WILL THESE MEASURES RESULT IN LESS DRIVER FATIGUE / RISK, WHICH MEANS LESS ACCIDENTS AND ASSOCIATED LABOUR COSTS**

## **> TOTAL COSTS OF OWNERSHIP**

### **TECHNICAL ADVANTAGES:**

- > Usage of robust and well dimensioned components reduce the M&R requirement**
- > Easy and simple installation of tractor components for a quick and efficient M&R**
- > All componentry is installed well protected, to reduce risk of down time due to accidental damage**
- > Easy and good accessible daily inspection points, increase tractor utilisation and reduce M&R costs**

### **REDUCTION OF FUEL CONSUMPTION:**

- > Efficient engine cooling**
- > Inventive, flat radiator, easy to maintain, for an optimal heat exchange**
- > Optimum steering geometrie reduces rolling resistance and improves tyre lifetime**
- > Optional possibilities for speed and RPM limitation**
- > Optional air conditioning cutout**
- > optional engine cut out after X-minutes of idling**

**> TERBERG OFFERS OPTIMUM SUPPORT THROUGH:**

- > Worldwide network of dealers and distributors waiting to assist you.**
- > Large ware house holding all required parts in stock, also for the older Terberg vehicle**



- > Fast parts shipment all over the world**
- > Internet support for parts and warranty**

**More info** 





**ERGONOMY &  
SAFETY FEATURES**

TERBERG TT / RT - 183 / 223 / 283 / 323





**> EXCELLENT ACCESS**



**> STANDARD  
ANTISKID  
PLATEWORK**



**> ANTISKID  
EDGES**



Global Plot (Analysis system)  
Displacement (mm) (z)

1.500E+02
1.110E+02
1.080E+02
1.280E+02
1.000E+02
8.570E+01
8.430E+01
3.180E+01
2.160E+01
1.000E+00

Max = 1.020E+02 (Node 6221)  
Min = 0.000E+00 (Node 8748)



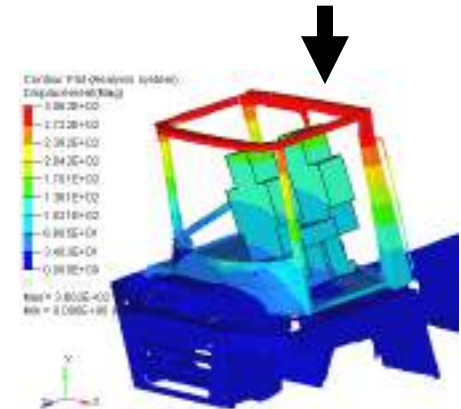
<b>TERBERG</b>		Orlando, Massachusetts, MA 14181-0001, Bannockburn The Netherlands	
TERBERG model N°:	10A3017	TERBERG model N°:	10001001
TERBERG model N°:	S2000		
ISO standard standard FOPS:	ISO 2488 - 2006	Level:	3
ISO standard standard ROPS:	ISO 4471 - 2006	cr:	15.000 kg



Global Plot (Analysis system)  
Displacement (mm) (z)

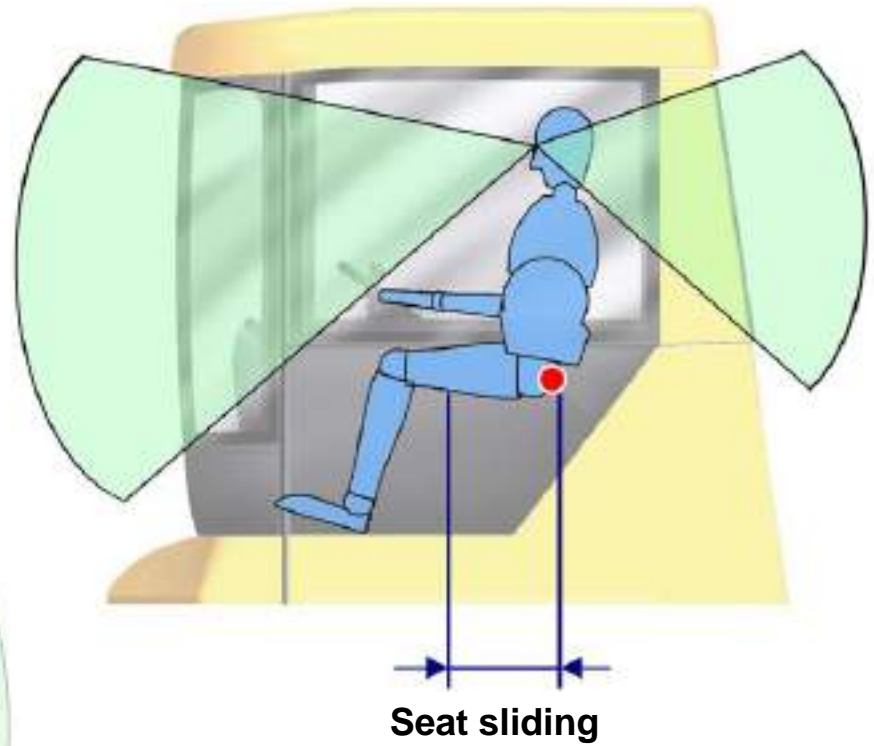
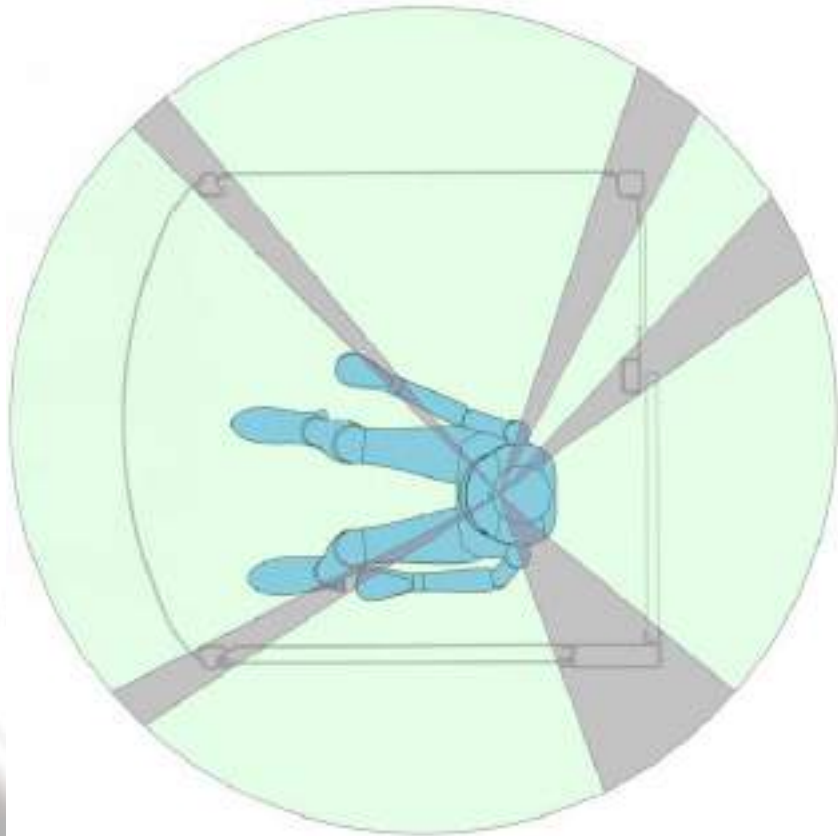
4.144E+01
3.694E+01
3.220E+01
2.762E+01
2.302E+01
1.842E+01
1.381E+01
8.200E+00
4.634E+00
0.000E+00

Max = 4.144E+01 (Node 44940)  
Min = 0.000E+00 (Node 67464)



➤ **ROPS & FOPS TESTED CABIN FRAME**

**> OPTIMUM VISION FROM  
DRIVERS POSITION:**



**> Visibility according ISO 5006**

➤ **OPTIMUM VISION FROM  
DRIVERS POSITION:**

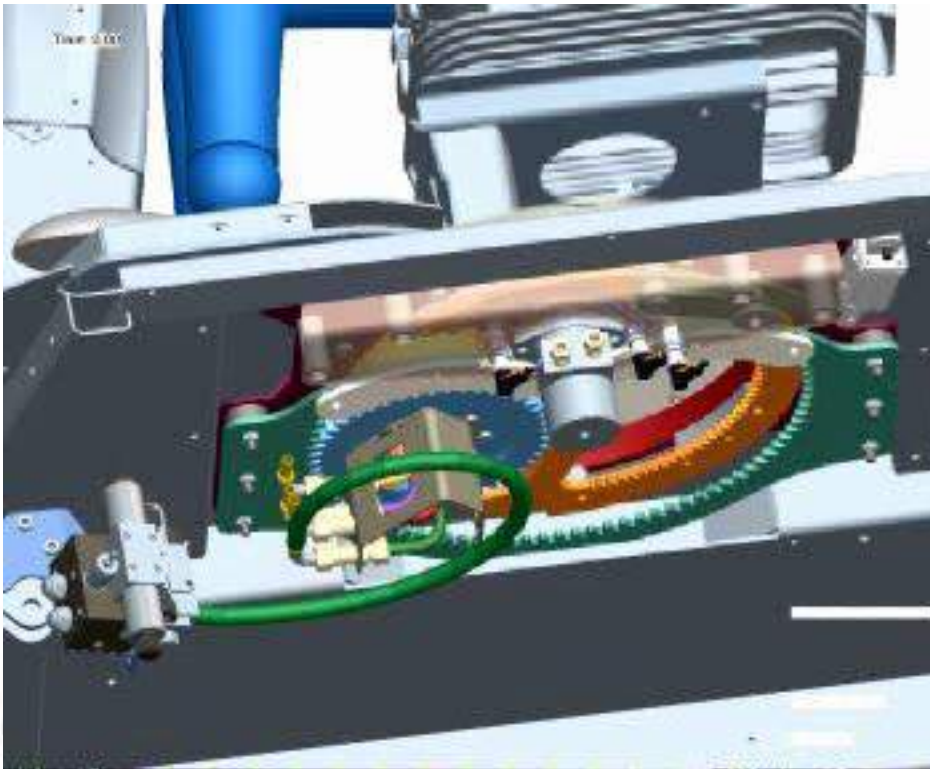


**> ROTATING SEAT ASSEMBLY**

- > Optimised seat rotation mechanism and hose / cable guiding**

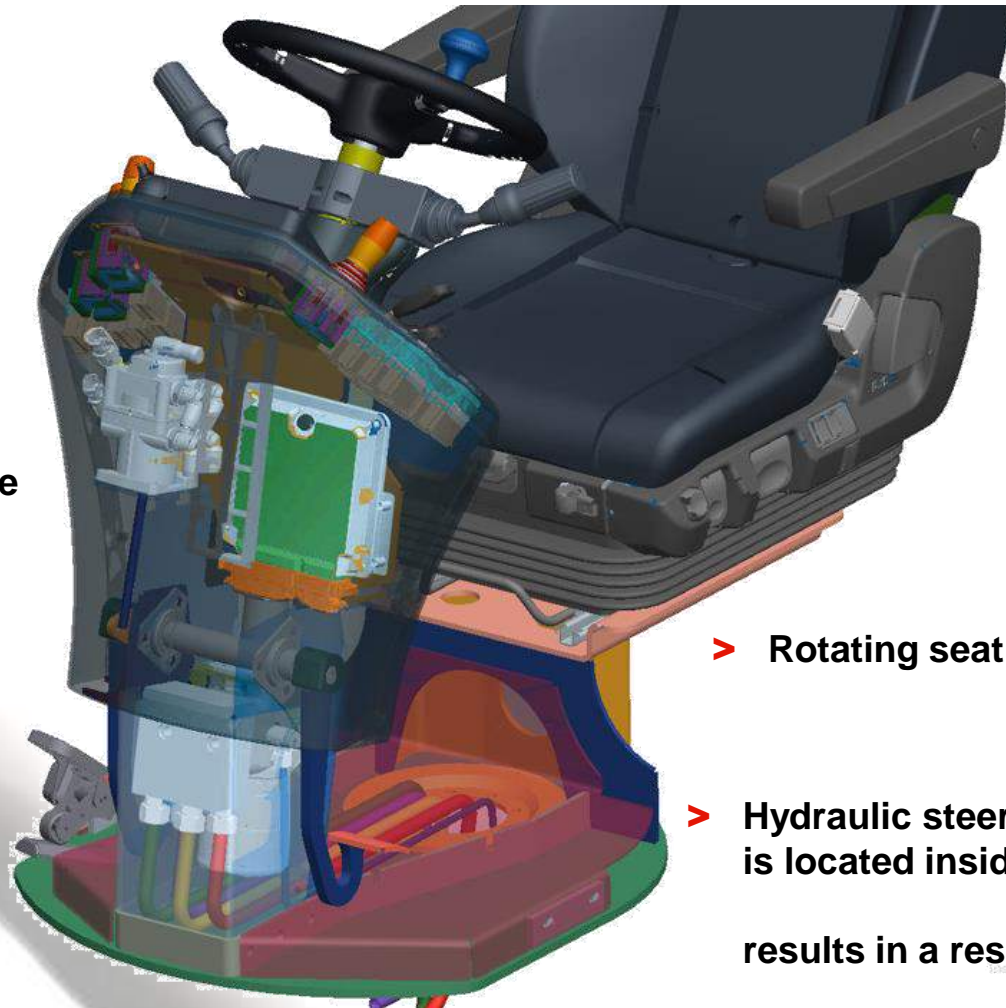


- > Seat & pedals all part of one rotating unit**



> **ROTATING SEAT ASSEMBLY**

> **Air foot  
brake valve**



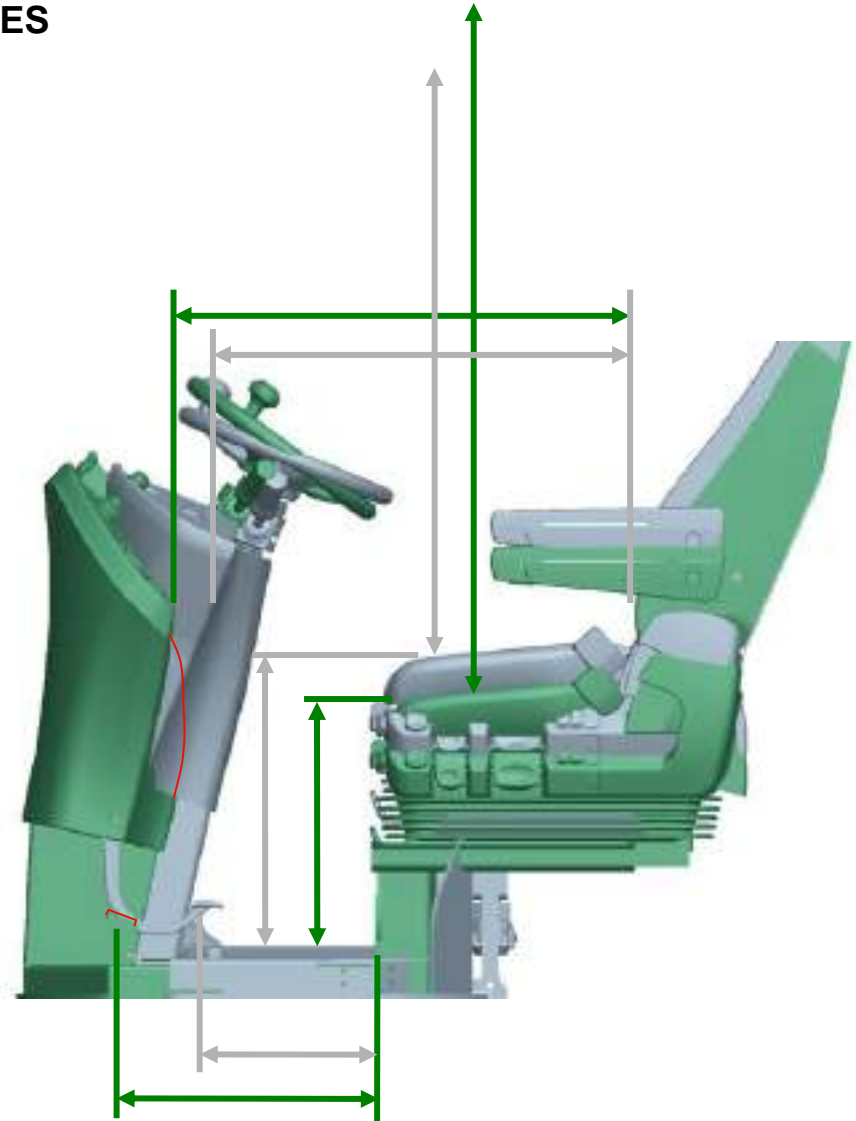
> **Rotating seat ECU**

> **Hydraulic steering orbitrol  
is located inside the cabin:**

**results in a responsive steer feeling**

**> ROTATING SEAT ASSEMBLY**

**> Adjustable steer position in height and angle**



**> Adjusting range of rotating seat in all directions enlarged to enable optimized driver sitting position**

> **AIRSUSPENDED ISRI DRIVER SEAT**

> **Standard seat 6860 / 880**

- > Automatic weight adjustment
- > Pneumatic height adjustment with memory function
- > Backrest adjustment
- > Horizontal adjustment ( 230mm )
- > Tilt adjustment
- > Adjustable shock absorber ( 100mm )
- > Seat cushion adjustment
- > Pneumatic lumbar support
- > Quick release ( air dump )
- > 2P seat belt

> **Arm rests are optional**

> **Head rest ( adjustable / removable ) optional**





**> EASY MAINTENANCE ACCESS**



**> EASY MAINTENANCE ACCESS**



**> LOW INSIDE / OUTSIDE NOISE LEVELS**

**> Noise insulation standard integrated**



**> Engine with visco fan standard**



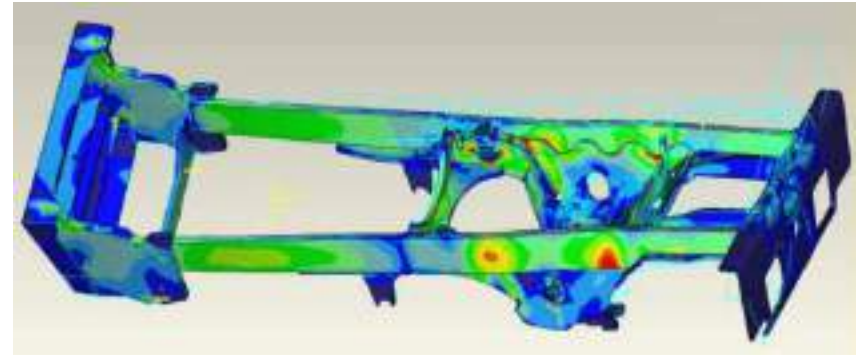
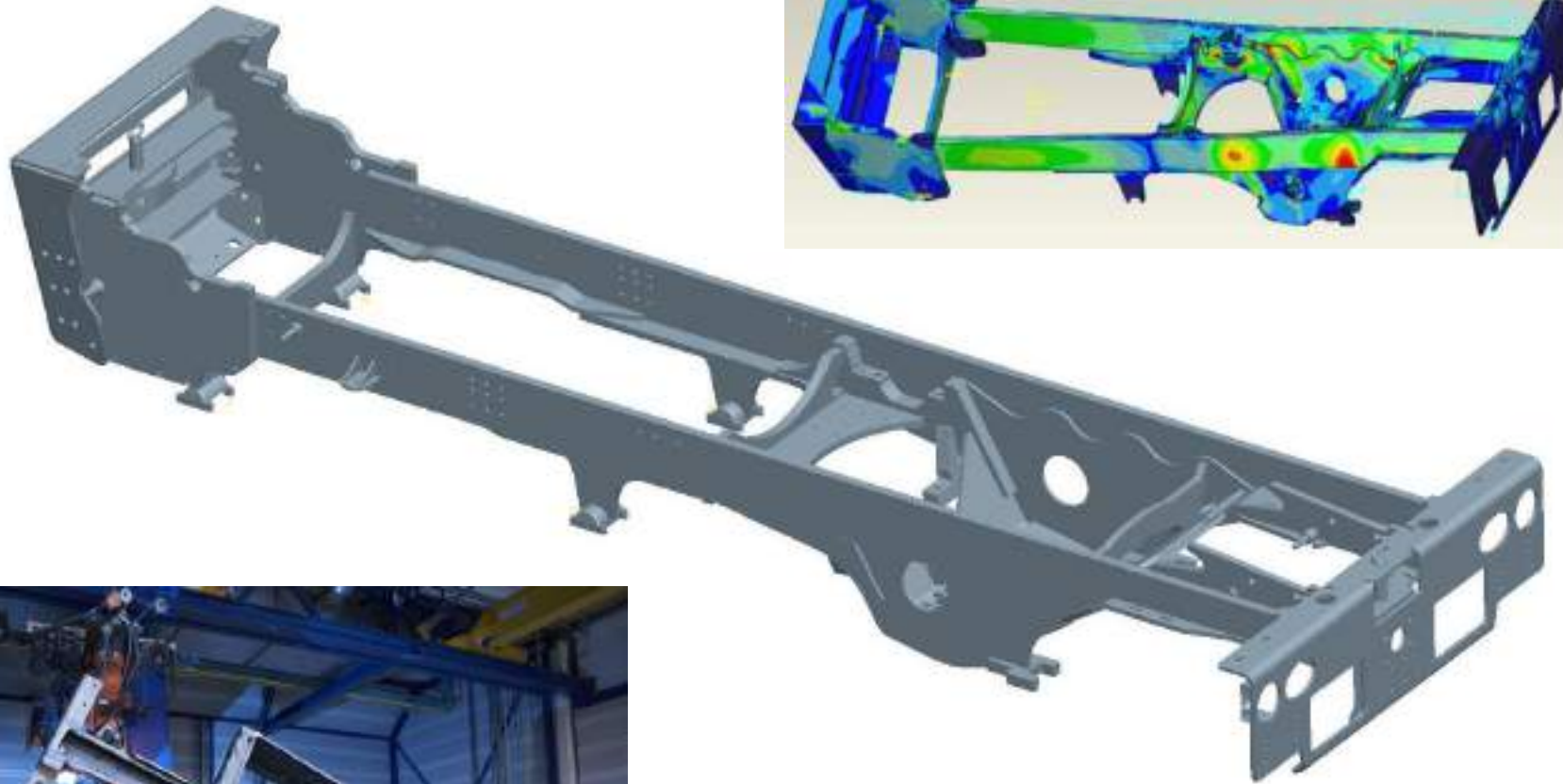
**> Newest driveline components are designed to produce less noise**

**> Big volume silencer offering best possible silencing**

# MAIN COMPONENTS

TERBERG TT / RT - 183 / 223 / 283 / 323





**> RIGID HEAVY DUTY FRAME**

- > Fully robot welded**
- > Results in constant quality**

**> STANDARD REAR BUMPER**

Prepared for installation of  
all kind of rear / working  
lights / connectors etc.



> **ENGINES**

EU Stage 4 / Tier 4f

**NEW**



**VOLVO PENTA**

TAD870VE  
(160kW)

TAD872VE  
(210kW)

TAD873VE  
(235kW)

SCR Aftertreatment

More info 



**MERCEDES**

OM 934 LA  
(129kW)

OM 936 LA  
(180 / 210 / 230 / 260kW)

SCR Aftertreatment

More info 



**> ENGINES**

EU Stage 3B / Tier 4i



MERCEDES

OM 924 LA  
(129kW)

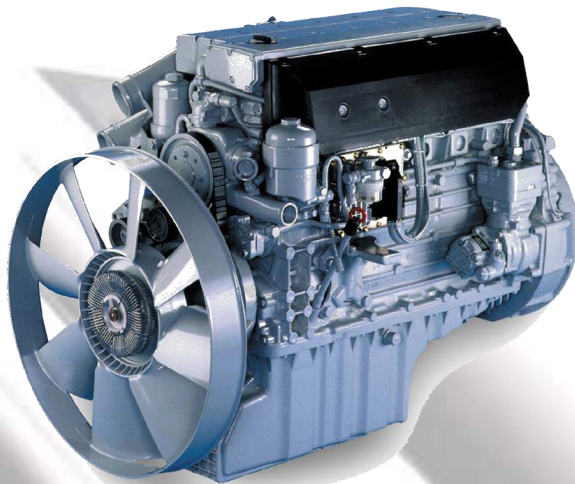
OM 926 LA  
(175 / 205 / 240kW)

SCR Aftertreatment

More info ▶



EU Stage 3A / Tier 3  
For outside EU / USA / CA only



MERCEDES

OM 906 LA  
(130 / 170 / 205kW)

OM 926 LA (240kW)

More info ▶

More info ▶

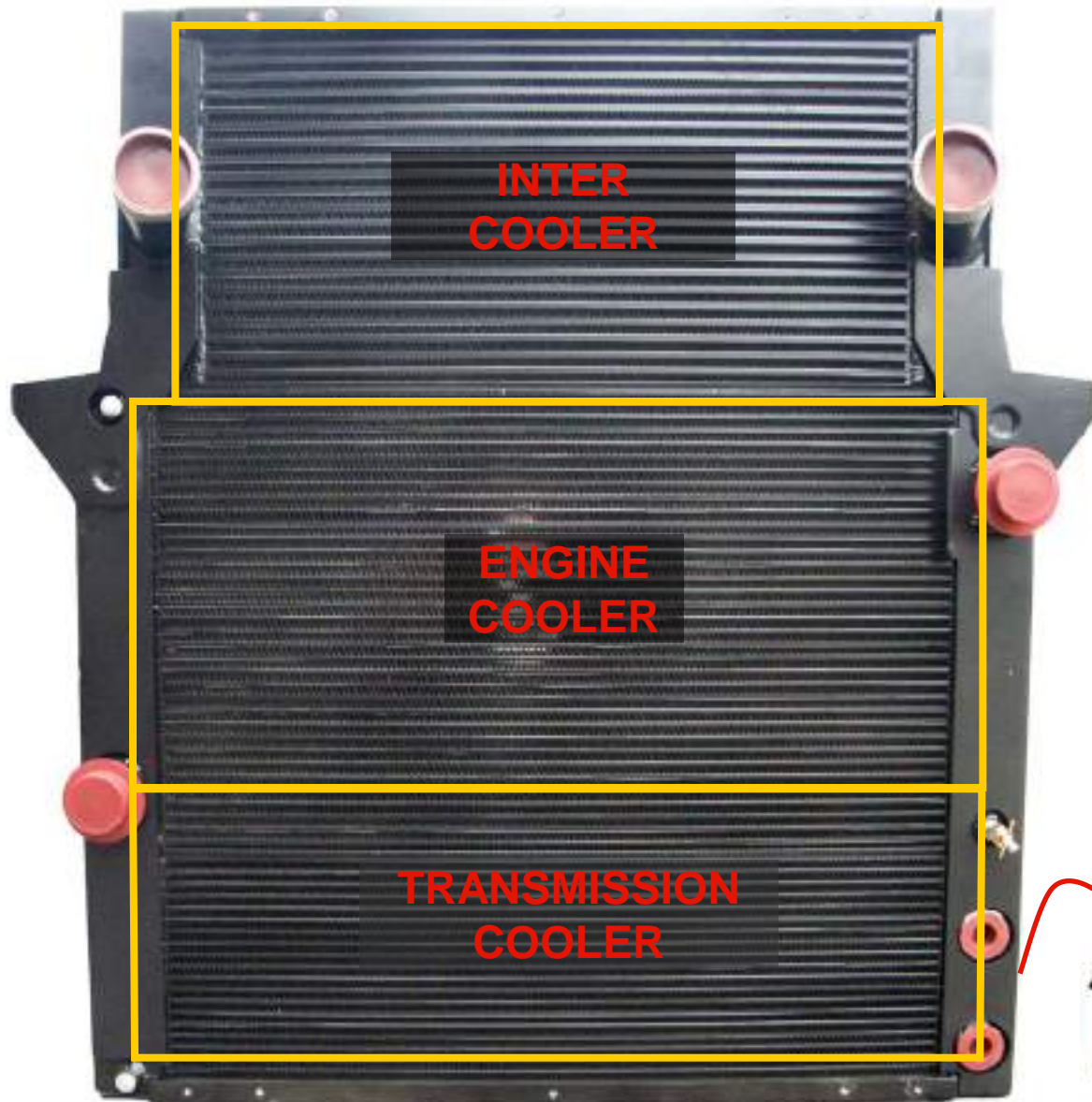
**NEW**

VOLVO PENTA

TAD850VE / TAD852VE / TAD853VE  
(160 / 210 / 235kW)



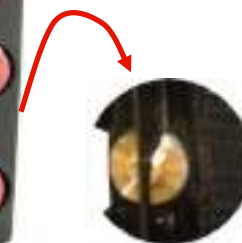




**> RADIATOR**

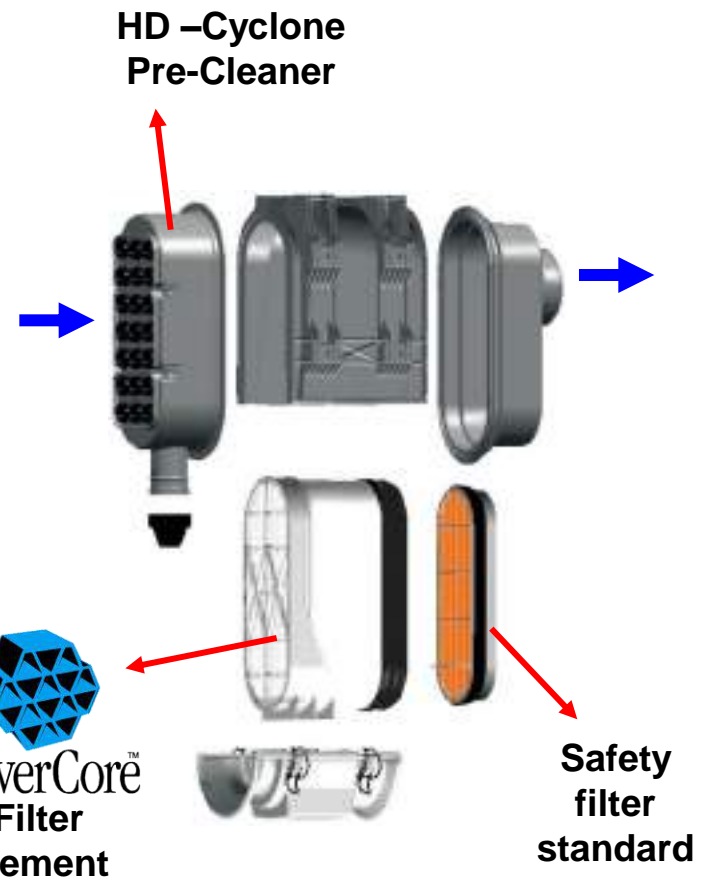
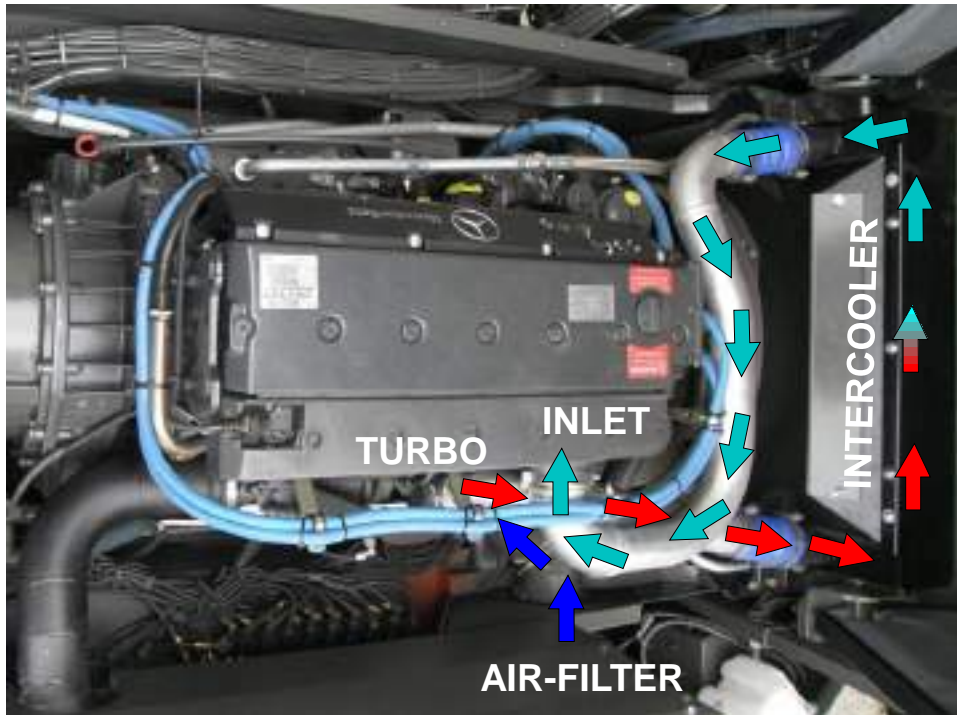
- > Enlarged frontal surface
- > 3 independent coolers on top of each other

- > Independent cooler processes
- > More open structure
- > Easier to clean



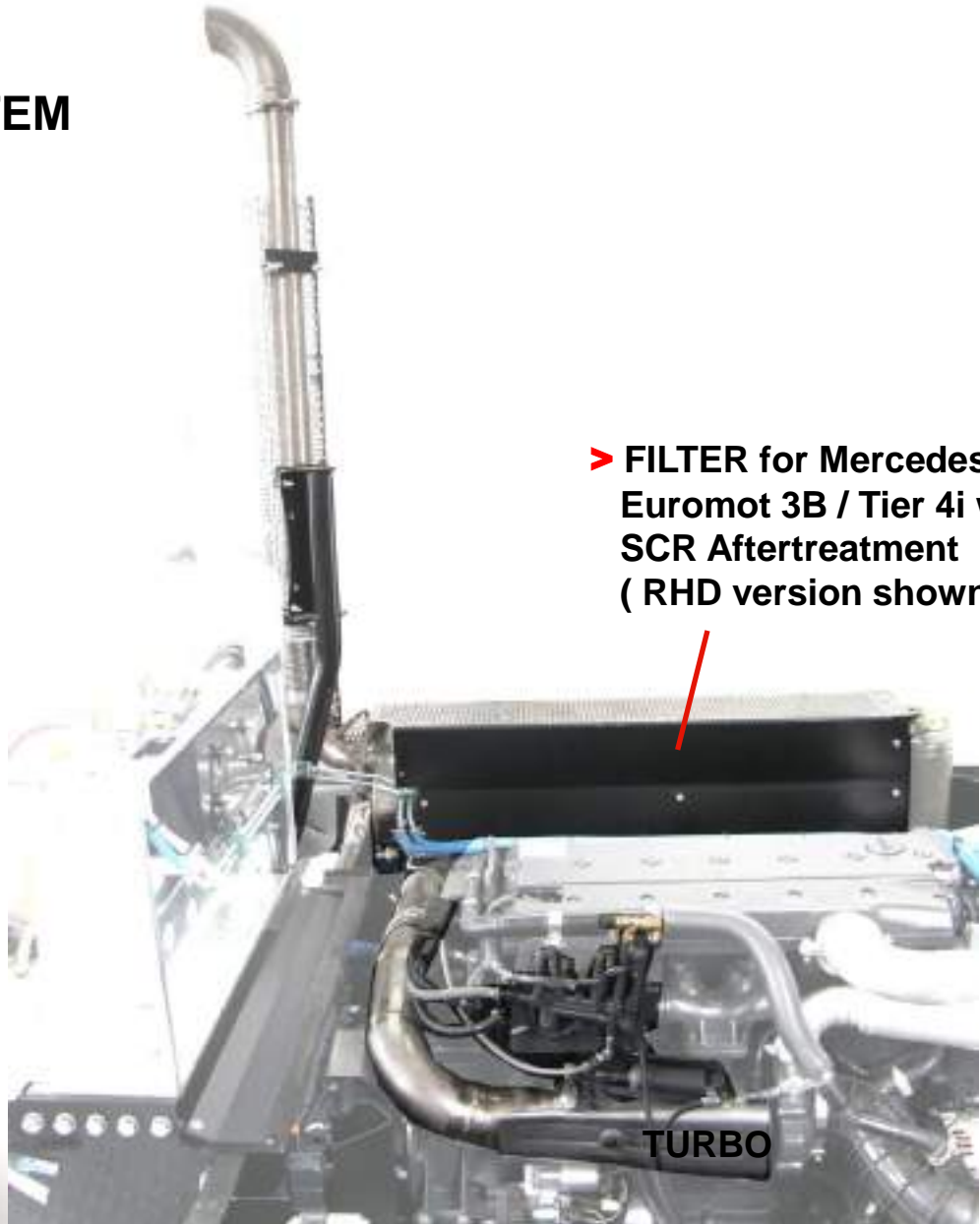
**THERMOSTATIC VALVE**

> **ENGINE AIR INTAKE SYSTEM**



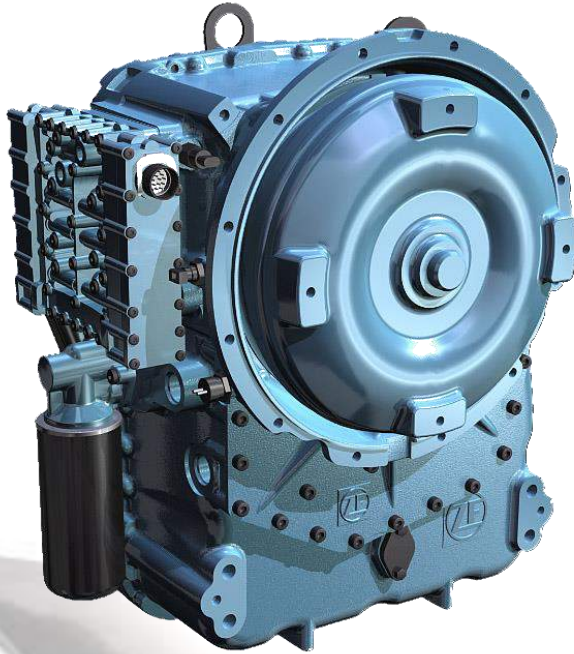
**> ENGINE EXHAUST SYSTEM**

**> FILTER for Mercedes  
Euromot 3B / Tier 4i with  
SCR Aftertreatment  
( RHD version shown )**



**TURBO**

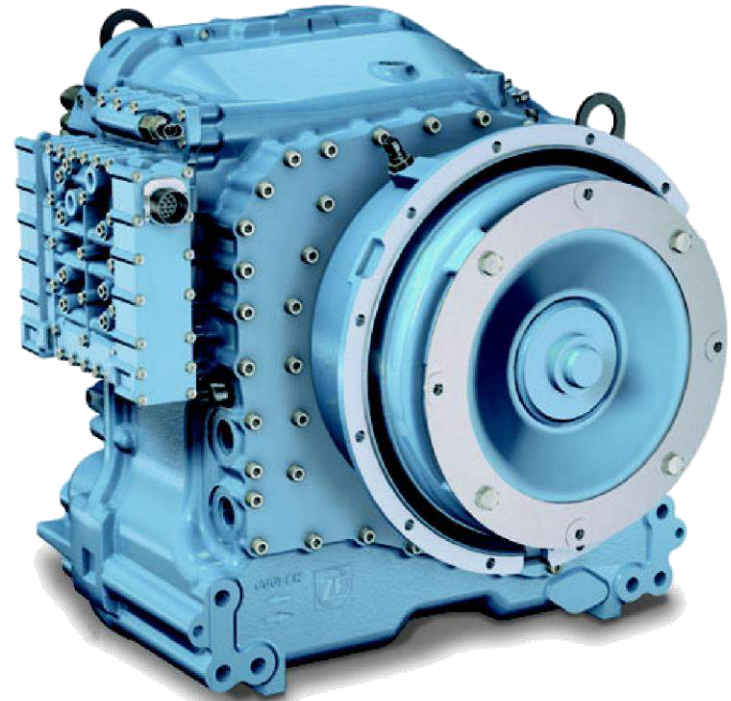
**> TRANSMISSIONS**



**ZF 3WG161 / 3WG171**

**More info** 

**( For TT only )**

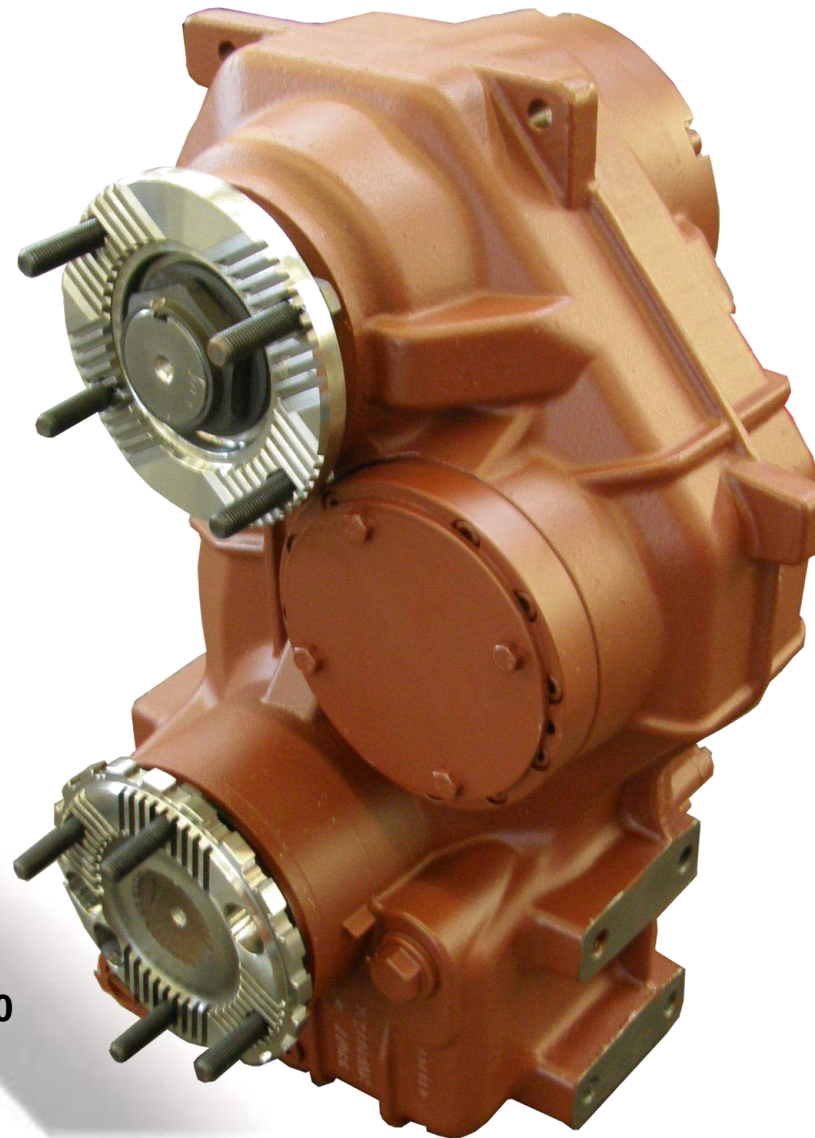


**ZF 5WG191 / 6WG211**

**More info** 

**> TRANSFER CASE**

For RT and  
TT with transmission  
ZF 5WG191 / 6WG211



**KESSLER W1000**  
**> Ratio 1.371 : 1**



> FRONT AXLE



**VOLVO FA8.2-LOW**

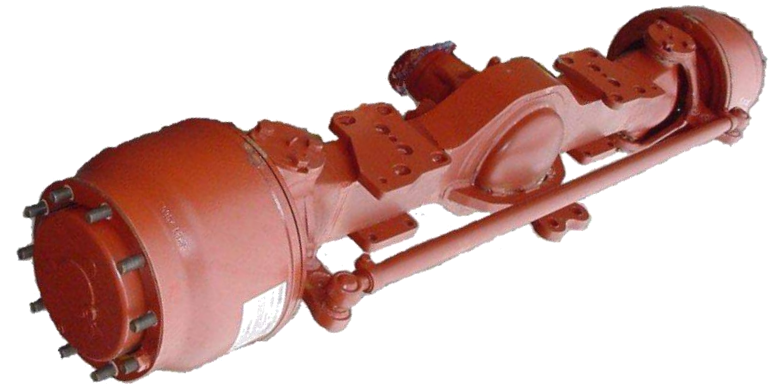
- > Heavy duty ( 11Ton @ 20km/h )
- > Drum brake ( Z-cam )
- > Optional park brake available
- > Option for TT 183 / 223
- > Non Driven



**TERBERG TTA62-xx**

- > Non Driven
- > Heavy duty ( 11Ton @ 20km/h )
- > Drum brake ( S-cam )
- > Standard for TT 183 / 223

Note: No park brake option available



**KESSLER LT61PL375**

- > Driven,  
ratio's 9.53:1 / 12.99:1 / 16.3:1
- > Heavy duty ( 20Ton @ 20km/h )
- > Drum brake ( Simplex wedge )
- > Optional park brake available
- > For RT 223 / 283 / 323

➤ REAR AXLE

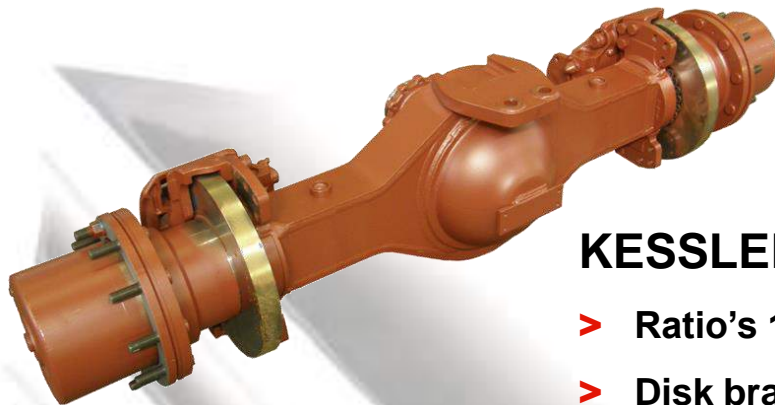


**TERBERG TTA 70-xx**

- Drum brake ( S-cam )
- Ratio's 9.49:1 / 11.98:1
- For TT183 / 223

**KESSLER D81PL478**

- Drum brake ( simplex wedge )
- Ratio's 9.76:1 / 12.73:1 / 16.13:1
- For RT223 / Optional for TT183 / 223



**KESSLER D81PL477**

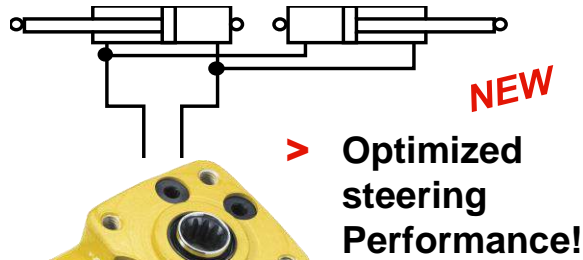
- Ratio's 13.2:1 / 16.36:1
- Disk brake, single jaw for RT223 / Optional for TT183 / 223
- Disk brake, double jaw for RT283 / 323

All Axles fully bolted,  
no weld on parts

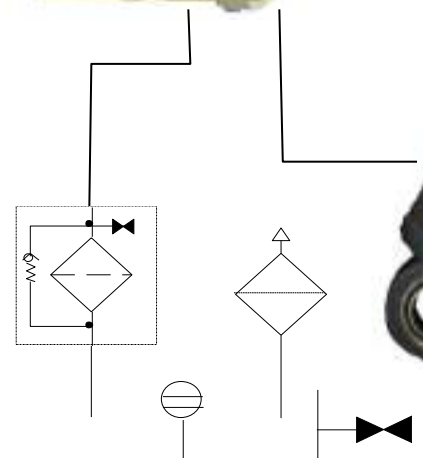
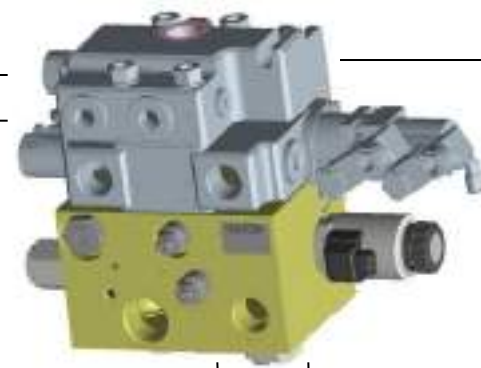


**NEW**

**> LOAD SENSING HYDRAULIC SYSTEM**



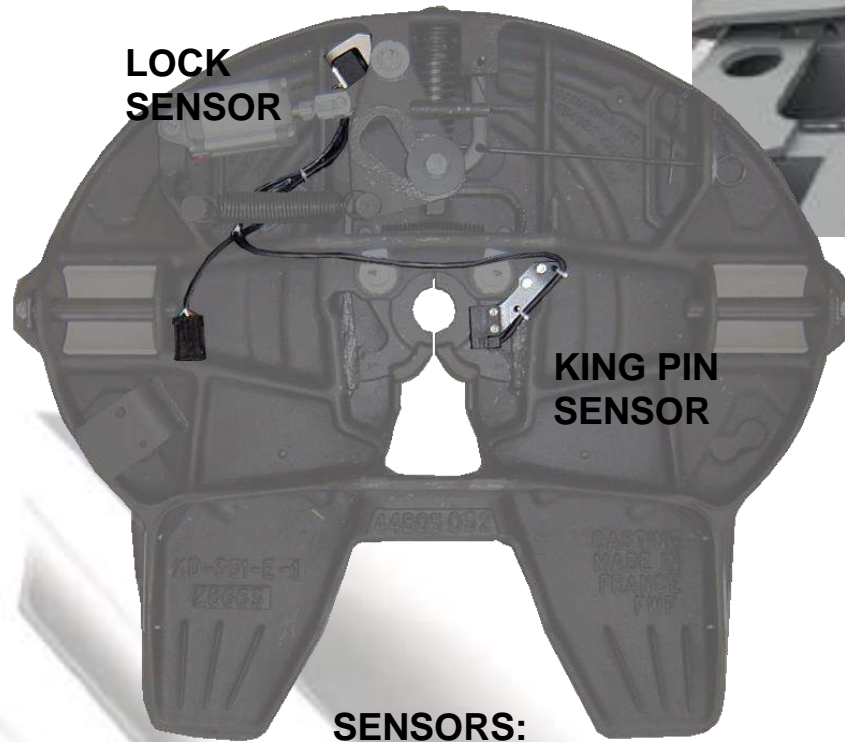
- > Piston pump
- > Priority valve, low noise
- > Steering orbitrol: Dynamic load sensing, low noise,
- > Modular lift valve assembly
- > Double acting lift cylinders



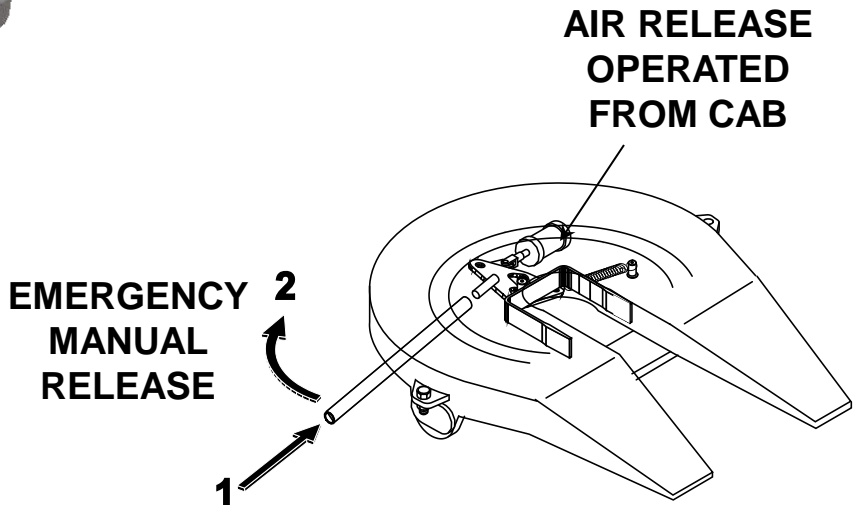


> **HEAVY DUTY 2" FIFTH WHEEL**

> **Double locking jaws**



- > **Lock sensor better positioned**
- > **King pin sensor not sensitive for metal debris**



Options shown is a selection  
of most common used.  
More options are available,  
ask your Terberg representative for  
more details.

# OPTIONS

TERBERG TT / RT - 183 / 223 / 283 / 323





➤ LEFT AND RIGHTHAND DRIVE

➤ ROOF WINDOWS / MANHOLES



**> LOW ROOF**



**> ROOF LOWERED WITH 120mm**

> INTEGRATED AIRCONDITIONER



> AIRCON CONTROLS

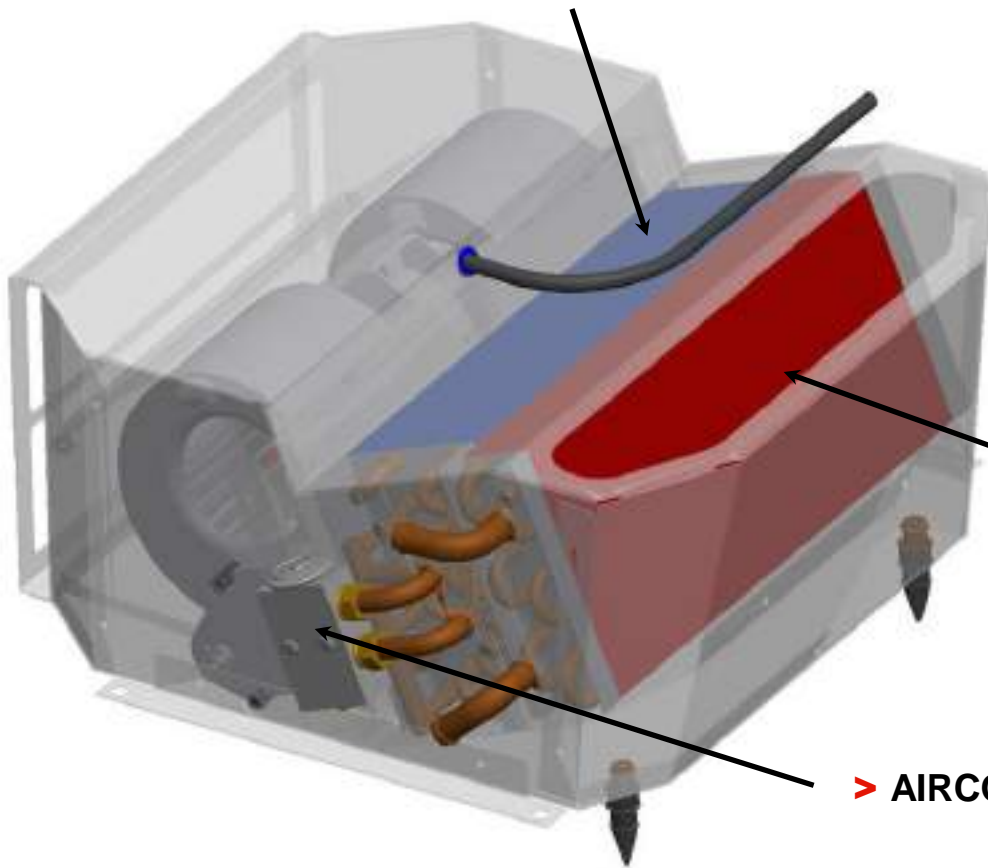
> Mechanical

> Electronic ( ECC )

> AIRCON ELEMENT



> HEATER ELEMENT ( standard )



> AIRCON EXPANSION VALVE

> **AIRSUSPENDED ISRI DRIVER SEAT**

> **Optional seat: 6860 / 880 Lux**

Equipped as 6860 / 880, with extra:

- > Horizontal suspension
- > Seat heating

> **Optional seat: 6860 / 870 Lux**

Equipped as 6860 / 880 Lux, with extra:

- > Integrated 3P seat belt
- > Adjustable / removable head rest

> **Arm rests are optional**



**> FOLD AWAY  
SECOND SEAT**





> RDT SUPPORTS

> Roof mounted  
on cabin rear  
( limited weight )



> A4 PAPER HOLDER

> In front of the  
side window



> Over the side dashboard

> **PNEUMATIC  
DOOR**



Safety release  
inside cab



Safety  
release  
outside  
cab

> **MIRRORS**

> **Curb Mirror**

> **Standard Mirror**

> **Wide angle Mirror**

Heated and non-heated available

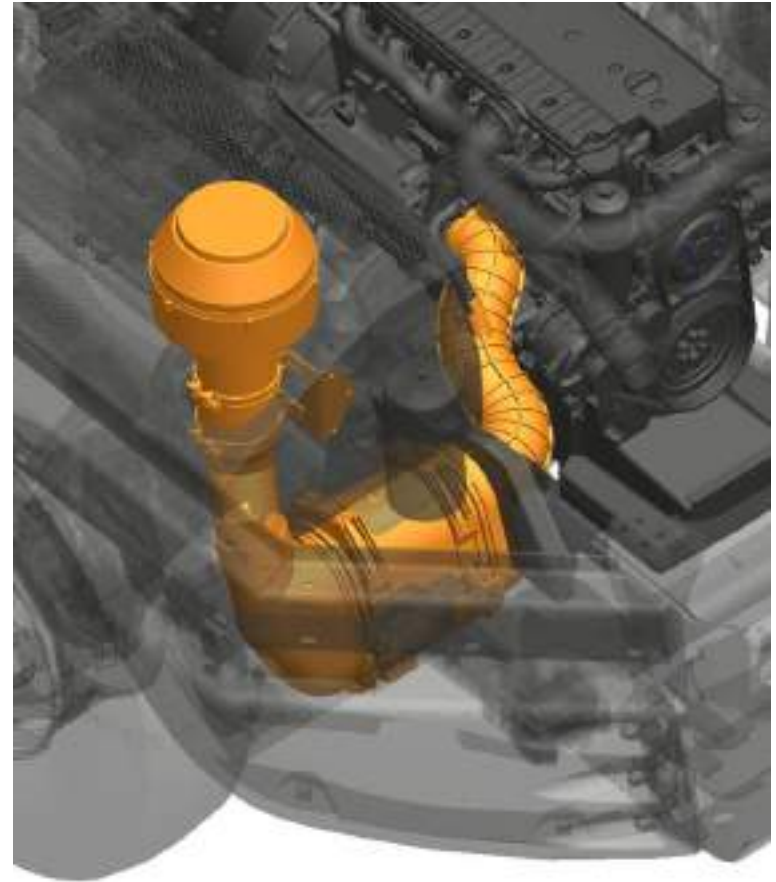


> **Front Mirror**

> **Extended mirror arms / additional tie bars**

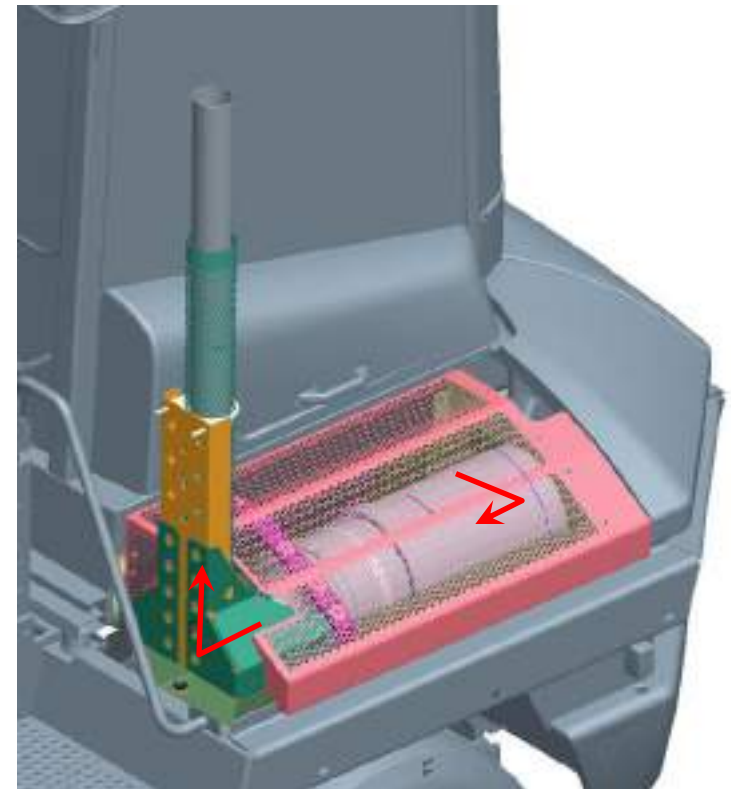
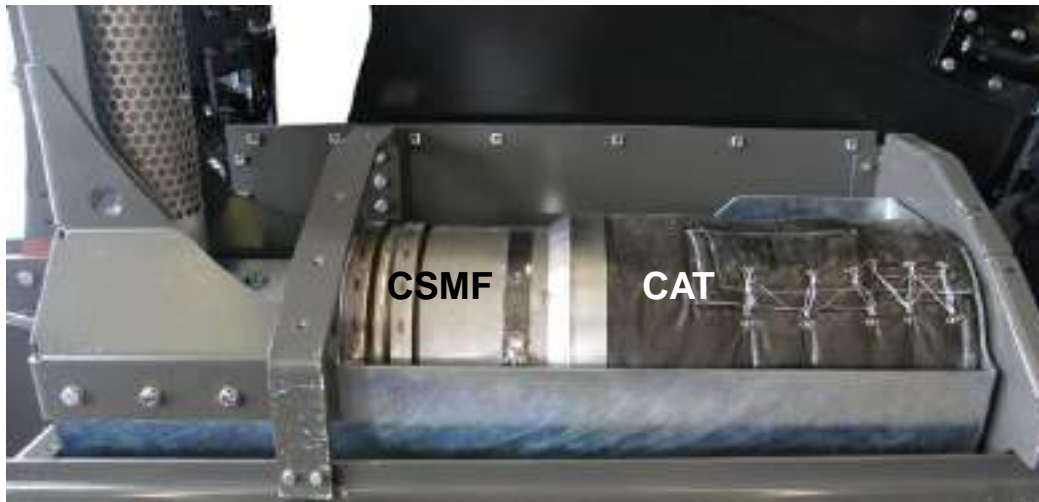


- > **RAISED AIR FILTER INLET** *NEW*
- > Cyclone type pre-cleaner Inlet
- > Air intake from a cleaner position, recommended for dusty circumstances
- > Replaces HD-cyclone cover on air filter assembly



> **EXHAUST GAS PURIFIER**

- > Catalytic filter ( CAT )
- > Coated sintered metal filter ( CSMF )
- > No additional heater required
- > Pressure datalogger with warning for cleaning
- > Cleaning possible with high pressure water
- > Only available for EU Stage 3A / Tier 3 engines



> LIGHTS



> ( LED ) Beacon



> Conventional Work lights



> LED high mounted rear lights



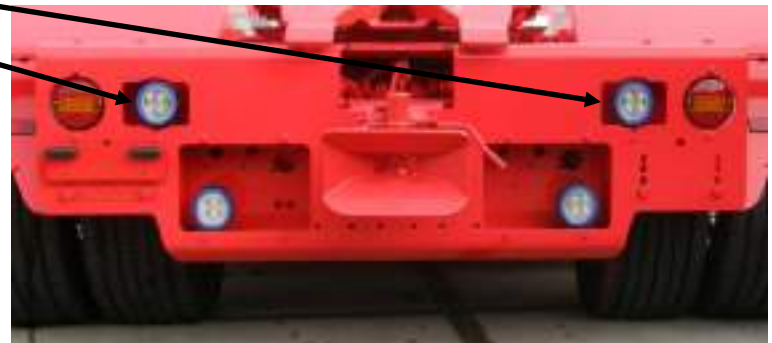
> Flash Beacon



> LED Logical lights



> LED Work lights



**> TRAILER CONNECTIONS  
AIR BRAKE SYSTEM**

**> Palm coupling ( glad hands )**



**> Palm coupling ( glad hands ) automatic**



**> C-coupling**



**> Duo-matic**



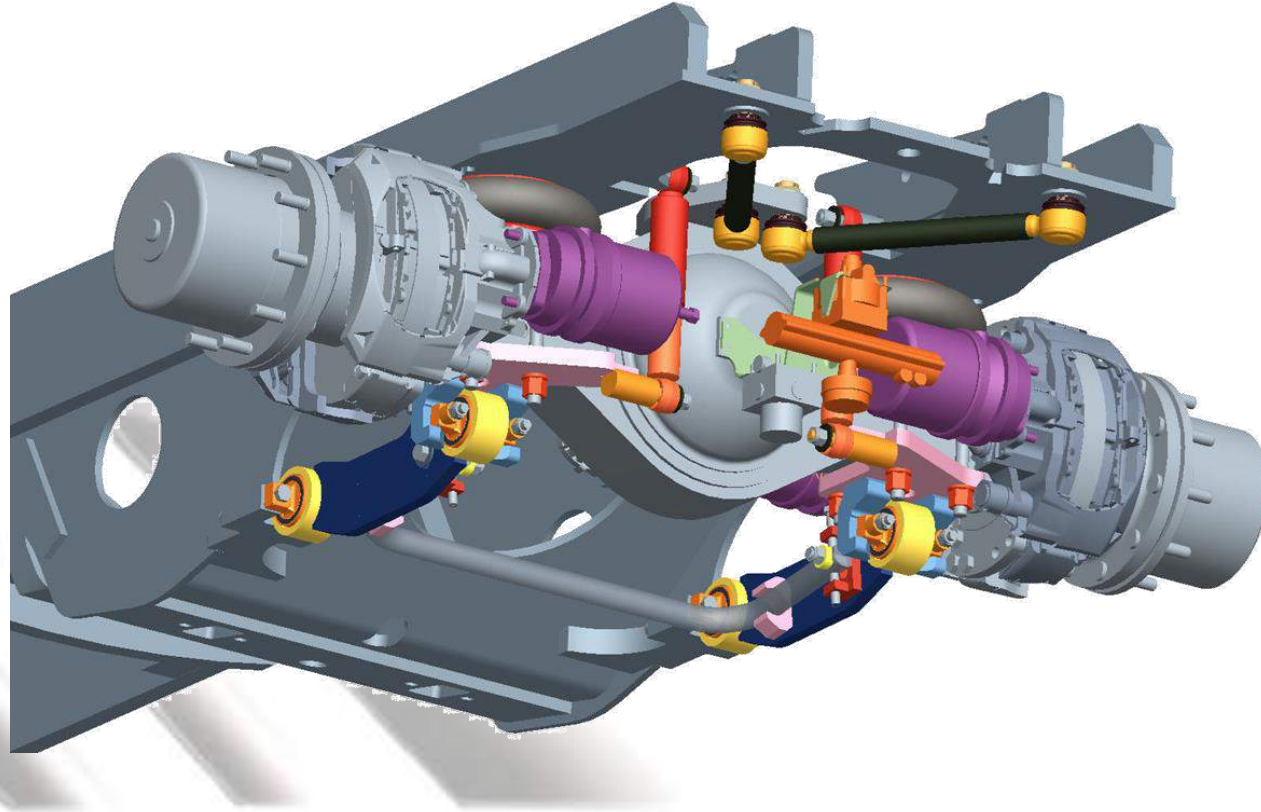
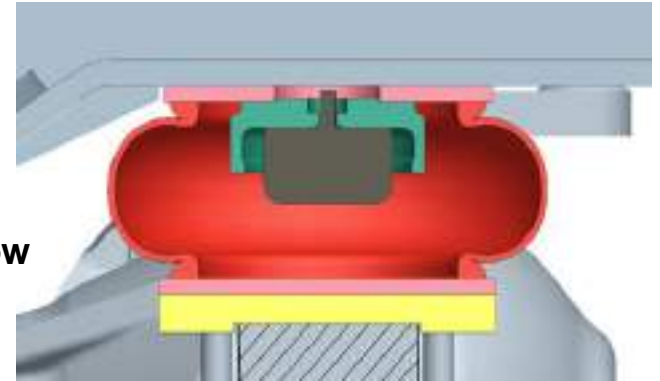
**> Air safety  
release  
for spiral  
hoses**



> **AIR SUSPENSION**

- > UP TO 10 TON ON AIR
- > UP TO 16 TON ON RUBBER
- > >16 TON STEEL SUPPORT

- > Rubber cushion in air bellow





> **INDUSTRIAL TYRES**

- > High allowable wheel loads
- > Max. single tire load shown, Front axle x2, Rear axle x4
- > Longer lifetime



> **XZM**

- > 9.00 R20  
4500kG @ 25km/h  
5850kG @ 10km/h

- > 11.00 R20  
5800kG @ 25km/h  
7540kG @ 10km/h

> **MICHELIN**

- > 10.00 R20  
5300kG @ 25km/h  
6890kG @ 10km/h

- > 12.00 R20  
7100kG @ 25km/h  
9230kG @ 10km/h

> **XTT**

- > 280/75 R22,5  
6300kG @ 25km/h  
7280kG @ 10km/h

- > 310/80 R22,5  
7762kG @ 25km/h  
8970kG @ 10km/h



- > Tubeless Bead Seal mounting

> **CONTINENTAL**

> **Terminal transport**

- > 300/80 R22,5  
7100kG @ 25km/h  
8100kG @ 10km/h

> **Tractor master**

- > 310/80 R22,5  
7760kG @ 25km/h  
8970kG @ 10km/h



> **MUD GUARDS**



> **No mud guards  
( standard )**



> **Plastic  
mud guards**



> **Steel  
mud guards**



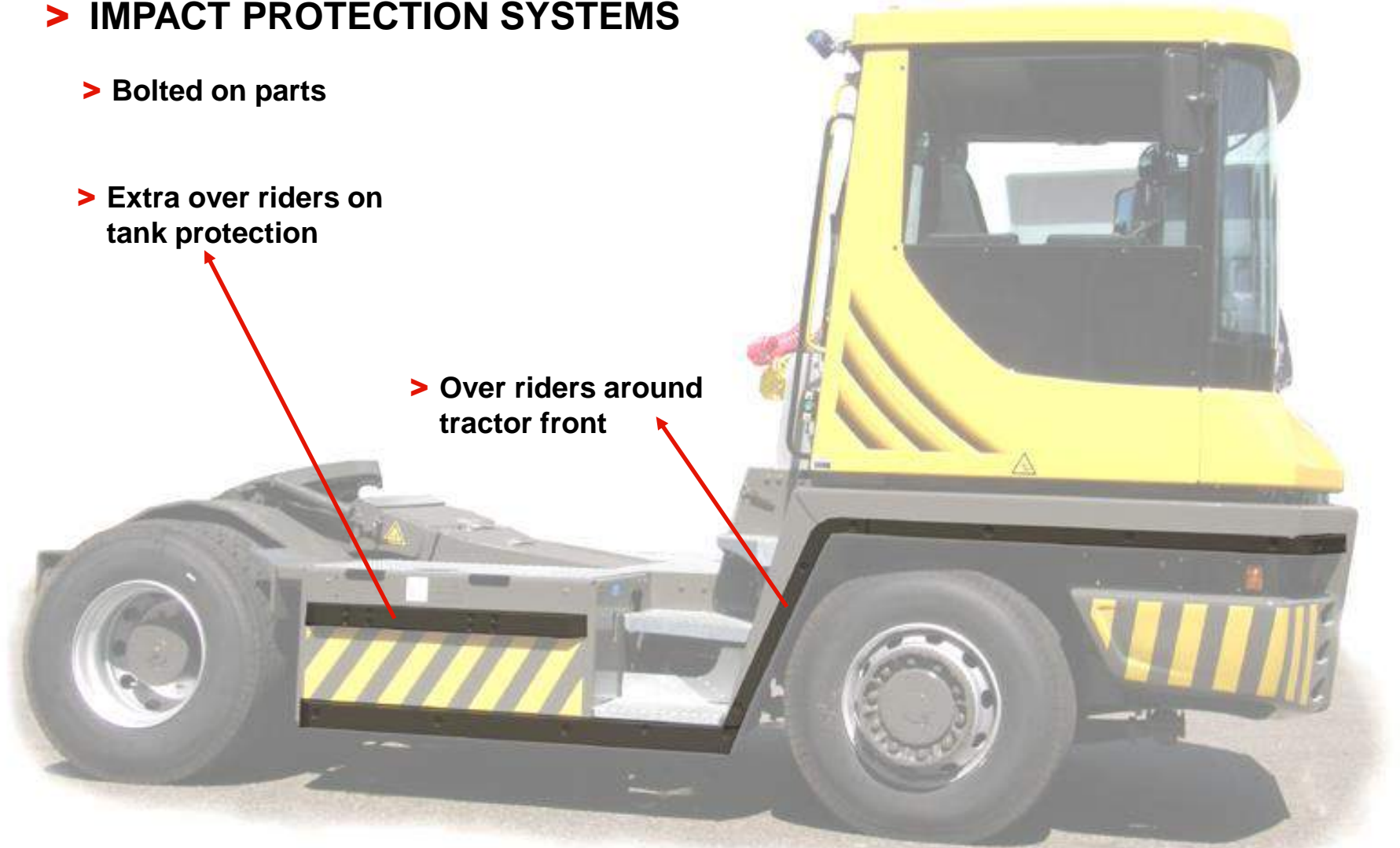
> **Half steel /  
plastic  
axle mounted  
mud guards**

> **IMPACT PROTECTION SYSTEMS**

> Bolted on parts

> Extra over riders on tank protection

> Over riders around tractor front



> **IMPACT PROTECTION SYSTEMS**

> Bolted on parts



> Corner post



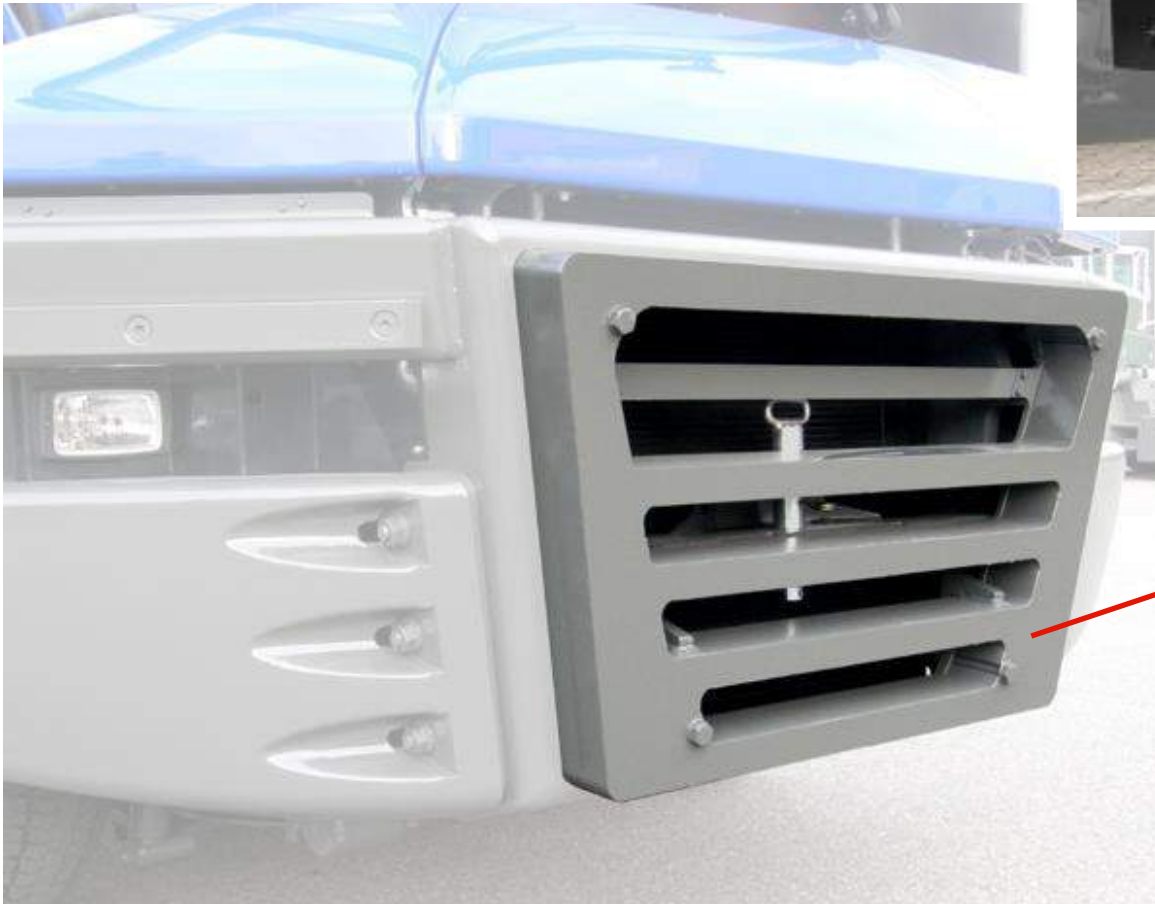
> Rubber overrider ( front bumper )



> Cab protections  
( left & right )

> **IMPACT PROTECTION SYSTEMS**

- > Front ballast
- > Bolted on part



- > Increases front axle weight with 913kG
- > Increases front axle weight with 466kG

**> OBSTACLE FREE CABIN REAR**



- > Standard cabin protector removed**
- > Expansion tank and air connections relocated to the side**



**> FRONT**

- > Mounting Plate**
- > Drawbar coupling**
- > Register coupling**
- > All modular, bolted on parts**



> REAR

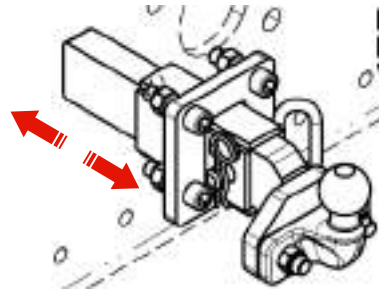
- > Mounting Plates
- > Drawbar coupling
- > Register coupling
- > All modular, bolted on parts







- > Caravan coupling
- > Various positions
- > Fixed or Extendable
- > Bolted on parts



> REAR



> Stow  
away



**> MODULAR HYDRAULIC SYSTEM**

Standard lift valve



**> SECONDARY HYDRAULIC SYSTEM**

Double pump ( LS / vane ) or sec. pump

Optional hydraulic section(s)



Optimized large capacity return filter with 2 ports

Large capacity Hydraulic tank(s)



**> TRESTLE GUIDING**

**> Wheel protector**



**> Rear and side guides**



## > CARDANIC LIFT FRAME

- > Lift frame can tilt  $\pm 6^\circ$  in transfer direction
- > Active tilting optional  
( hydraulics can tilt lift frame in transfer direction )





**TERBERG**  
*SafeNeck*<sup>®</sup>



More info 



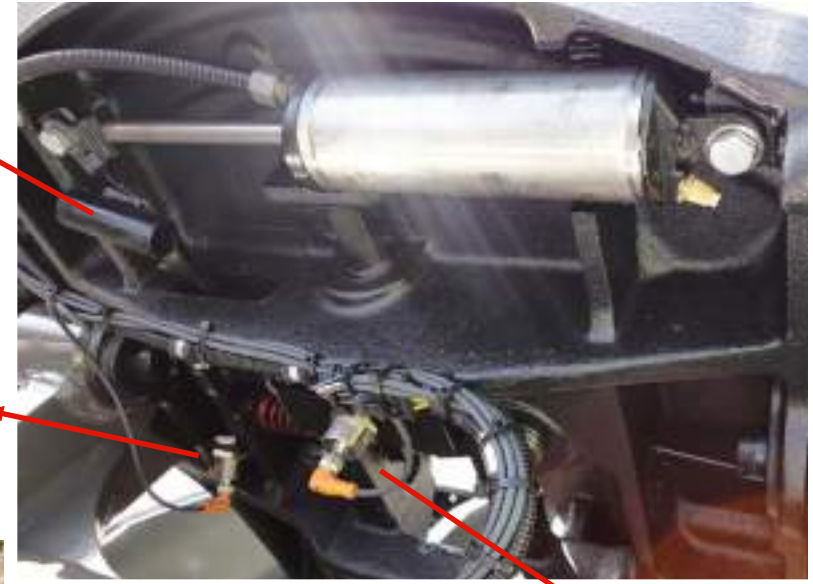
**OPTIONS**

> **HEAVY DUTY 2" – 3.5" FIFTH WHEEL**

> **Single jaw locking mechanism**

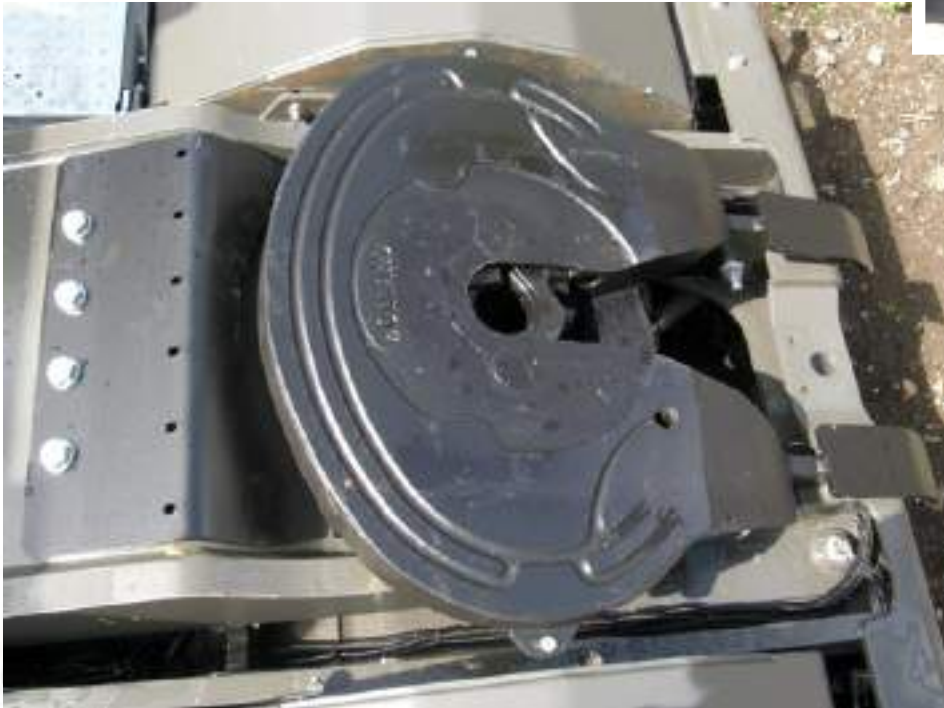
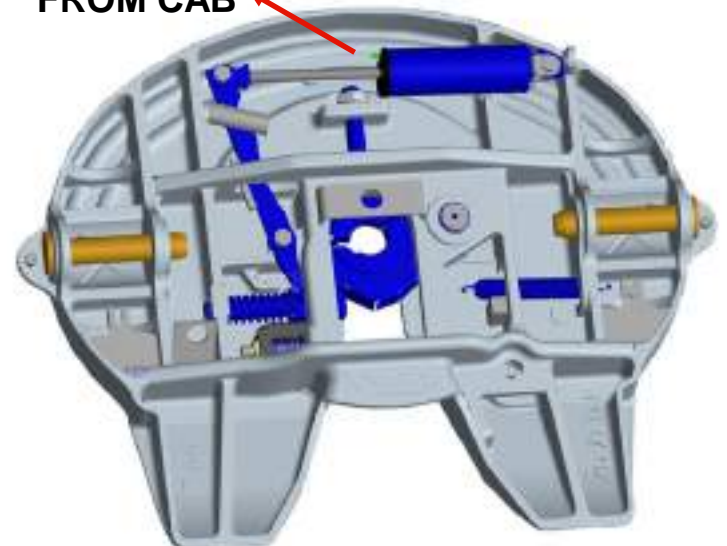
**EMERGENCY  
MANUAL  
RELEASE**

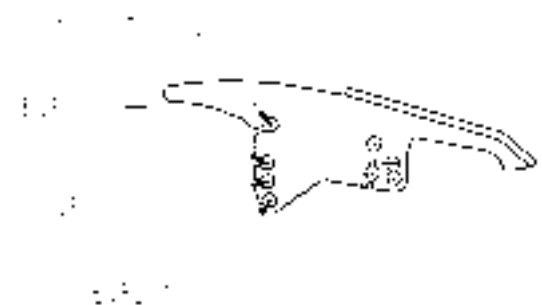
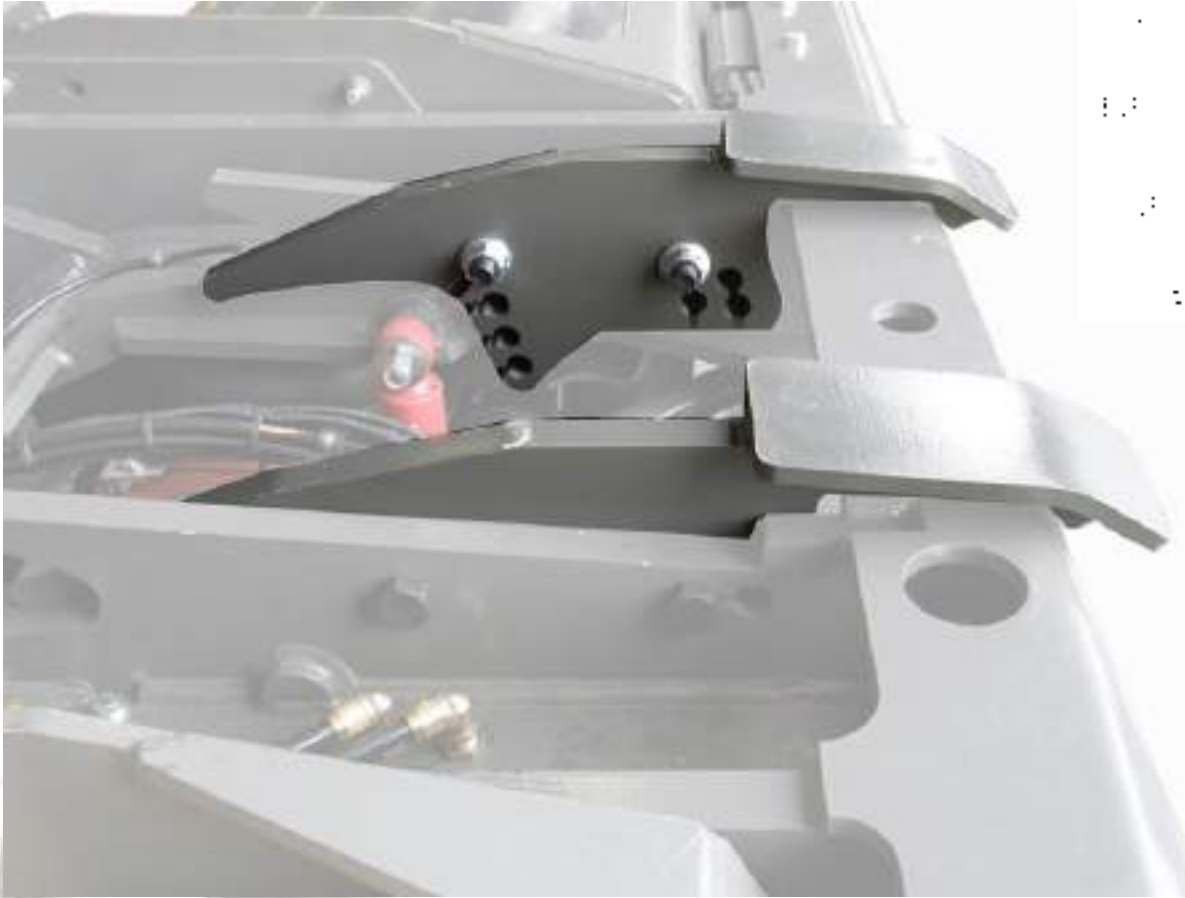
**LOCK  
SENSOR**



**AIR RELEASE  
OPERATED  
FROM CAB**

**KING PIN  
SENSOR**

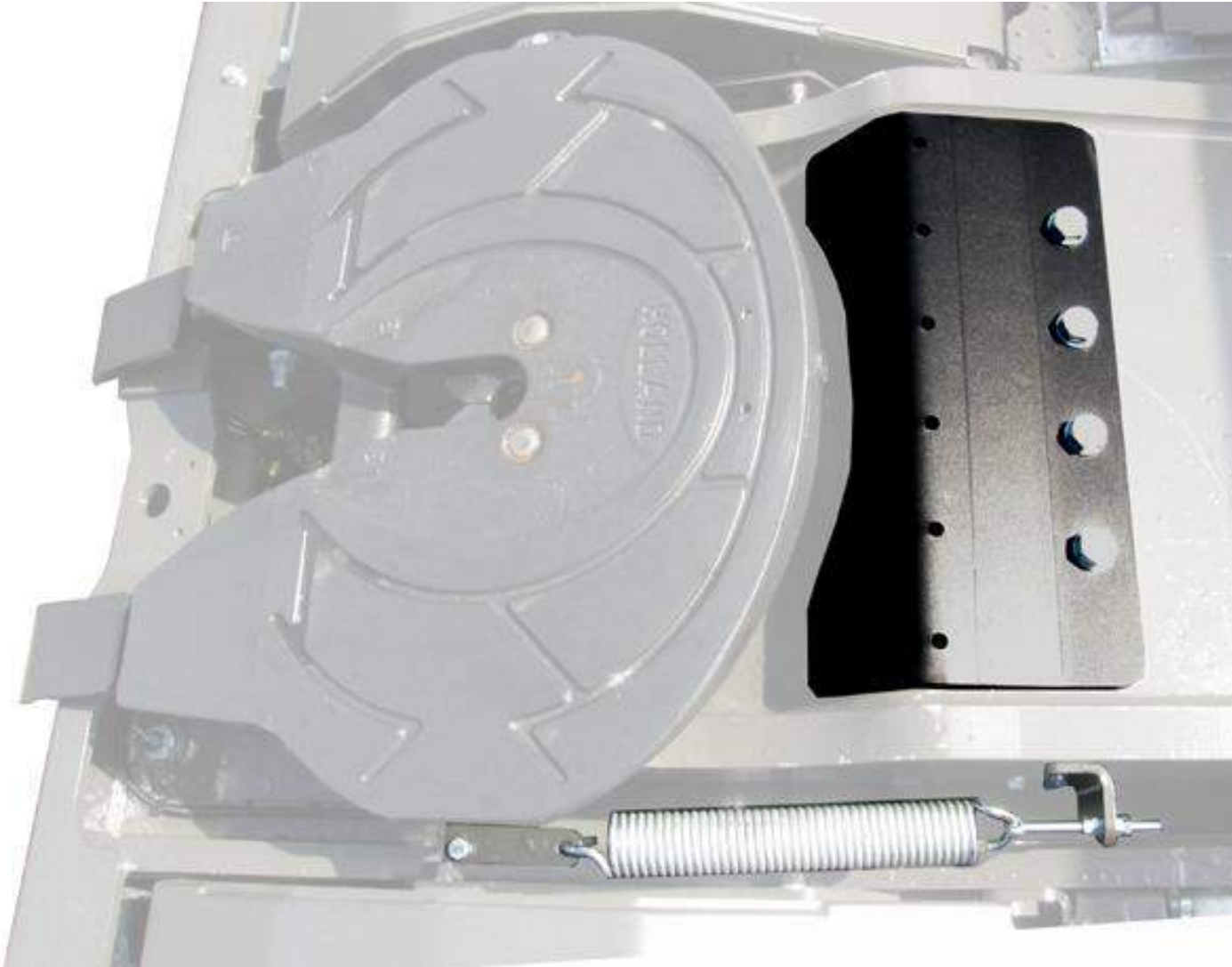




**> LEAD UP RAMPS**

**In 4 positions adjustable,  
depending on tyre size and mudguard type**

> **GOOSE NECK SUPPORT**

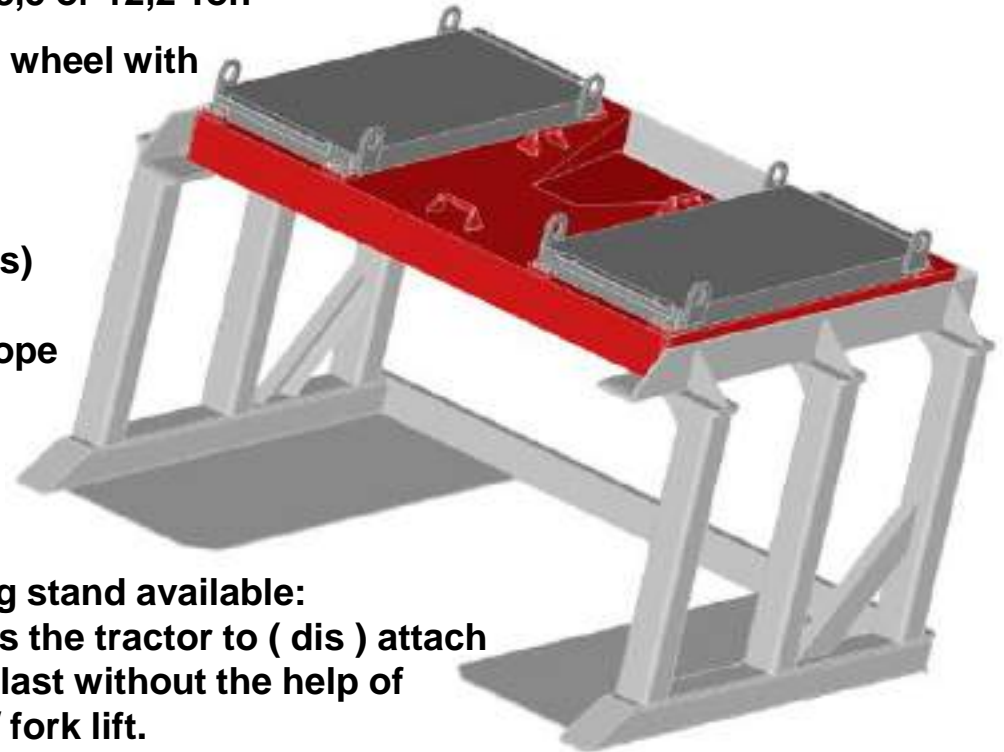
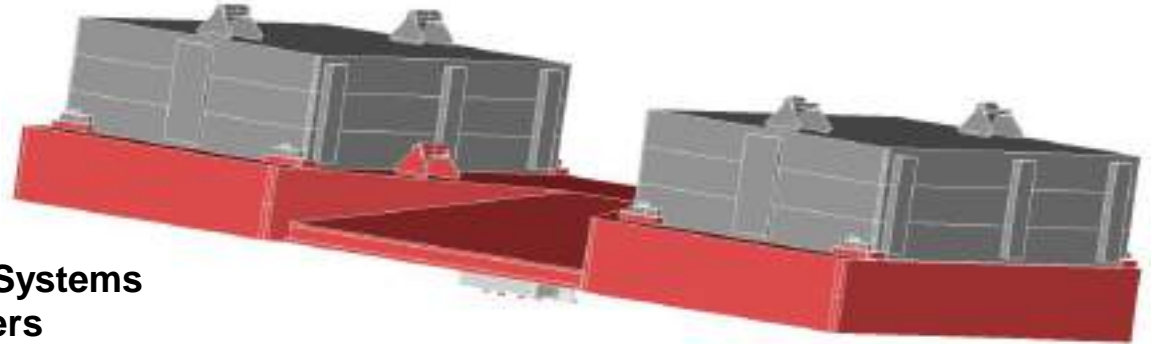


> **FLAT  
HOLD  
SPRING**



## > BALLAST

- > For operating Multiple Trailer Systems or pulling heavy drawbar trailers
- > Modular: Base plate 6,6Ton  
Can be increased with loose plates to 8,5 or 12,2 Ton
- > Ballast is connected to the tractor fifth wheel with a king pin ( 2" or 3,5" ) + wedge.  
Two mounting locations available
- > To calculate the required ballast we need to know:
  - > Weight of the trailer(s)
  - > Type of surface
  - > Percentage of the slope



- > Parking stand available:  
enables the tractor to ( dis ) attach  
the ballast without the help of  
crane / fork lift.

