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- Introduction
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- Main components
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TERBERG YT 182 / 222 / 282

The next generation Terminal Tractors
INTRODUCTION

TERBERG YT - 182 / 222 / 282
INTRODUCTION

LOW MOUNTED LIFTFRAME

Lift Capacity
Max. 27 / 31 TON

HIGH MOUNTED LIFTFRAME

Lift Capacity
Max. 34 / 36 TON

DECK HEIGHT ADJUSTED TO LIFTFRAME POSITION
INTRODUCTION

CABIN HEATING SYSTEM

HEATER CONTROL

Switch
Temperature
airco control
(Optional)

Circulation
control

Switch
Heater

Heater
Temperature
control

airco
(Optional)
INTRODUCTION

> ELECTRO SWITCHBOX

> Switches & check lights with LED
INTRODUCTION

TURNING CIRCLE

$\text{MAX. STEERANGLE YT} = 50^\circ$

$\text{DIMENSIONS VARY BY DIFFERENT WHEELBASES, TIRE SIZES, ETC.}$
INTRODUCTION

SURFACE PROTECTION

> TRACTOR + ASSEMBLY 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

> TRACTOR CABIN:
  > All steelwork is shot blasted
  > Cabin seams are filled up with sealing
  > After this it is painted in 3 layers: primer, 2-component epoxy primer & PU finish layer

> ALL PAINT SYSTEMS FULFIL THE LATEST ENVIRONMENTAL REQUIREMENTS
> 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
INTRODUCTION

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 warehouse 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
ERGONOMY & SAFETY FEATURES

TERBERG YT - 182 / 222 / 282
ERGONOMY & SAFETY FEATURES

FROM RIGHT..

EXCELLENT ACCESS

FROM LEFT..

NEW ANTISKID PLATEWORK
ERGONOMY & SAFETY FEATURES

ROPS & FOPS

LATERAL IMPACT

VERTICAL IMPACT

LONGITUDINAL IMPACT
ERGONOMY & SAFETY FEATURES

> OPTIMUM VIEW FROM DRIVER'S POSITION:

(For right hand drive)
ERGONOMY & SAFETY FEATURES

DOUBLE SLIDING WINDOW
Airsuspended ISRI 6860 / 880 Driver Seat

- 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

Optional
- Arm rests
- Head rest (adjustable/removable)
ERGONOMY & SAFETY FEATURES

> EASY MAINTENANCE

- Hydraulic
- Engine Oil
- Coolant
- Batteries + Air System
- Transmission
- Coolant
- Engine
ERGONOMY & SAFETY FEATURES

LOW INSIDE /OUTSIDE NOISE LEVELS

- Noise insulation standard integrated
- Engine with visco fan standard

- Newest driveline components are designed to produce less noise
- Standard Allison fuel efficiency package with Low RPM shift programs
- Big volume silencer offering best possible silencing
ERGONOMY & SAFETY FEATURES

> CAN CONTROLLED ELECTRICAL SYSTEM

Transmission ECU
Engine ECU

> Diagnose connector

> Standard CAN-bus

> Additional for tractors with emission level EU Stage 3B / Tier 4i engines and above

DIM

> USB-connector for DIM readout

NEW
ERGONOMY & SAFETY FEATURES

MULTIFUNCTIONAL Driver Information Module

> DIM becomes standard with EU Stage 3B / Tier 4i engines and above

> For tractors with lower emission level engines the original dashboard instrument stays in use
MAIN COMPONENTS

RIGID HEAVY DUTY FRAME
IMPROVED LIFT FRAME MOUNTING

- BOLTED HINGE PINS (Easier to assemble)
- INCREASED BEARING SIZE
- REINFORCED LIFT FRAME
STANDARD REAR BUMPER

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

RADIATOR

- Enlarged frontal surface
- 3 independent coolers on top of each other
- Independent cooler processes
- More open structure
- Easier to clean

INTERCOOLER

ENGINE COOLER

TRANSMISSION COOLER

THERMOSTATIC VALVE
MAIN COMPONENTS

ENGINE AIR INTAKE SYSTEM
(Air filter always located on turbo side)

- Air Filter
- Turbo
- HD-Cycloon Pre-Cleaner
- Safety filter
- Standard for EU-Stage 2 - 3A / Tier 2 - 3
- Standard for EU-Stage 3B - 4 / Tier 4i – 4f & Euro 5
MAIN COMPONENTS

**ENGINES**

- **EU Stage 4 / Tier 4f**
  - **VOLVO PENTA TAD870VE**
    - (160kW)
    - SCR Aftertreatment
  - **MERCEDES OM 934 LA**
    - (129 / 170kW)
    - SCR Aftertreatment

- **EU Stage 3B / Tier 4i**
  - **Cummins QSB6.7-190**
    - (142kW)
  - **Cummins QSB6.7-225**
    - (168kW)

- **MERCEDES OM 926 LA**
  - (175kW)
  - SCR Aftertreatment
MAIN COMPONENTS

ENGINES

CUMMINS
QSB6.7 173 (129kW)
QSB6.7 220 (164kW)

More info

CUMMINS
ISB6.7E5 205 (146kW)
ISB6.7E5 225 (162kW)
SCR Aftertreatment

More info

MERCEDES
OM 906 LA
(130 / 170kW)

More info

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

VOLVO PENTA
TAD850VE
(160kW)

More info

EU Stage 2 / Tier 2
For outside EU / USA / CA only

VOLVO PENTA
TAD720VE (170kW)

More info
MAIN COMPONENTS

ENGINE EXHAUST SYSTEM

- Standard for EU Stage 2 – 3A / Tier 2 – 3 (RHD version shown)

- For Mercedes EU Stage 3B - 4 / Tier 4i - 4f with SCR Aftertreatment (LHD version shown)
ENGINE EXHAUST SYSTEM

For Cummins
EU Stage 4 / Tier 4f & Euro 5 with
SCR Aftertreatment
(LHD version shown)
MAIN COMPONENTS

> TRANSMISSIONS

ALLISON 3000

ZF 5WG191 / 6WG211

ZF 3WG161 / 3WG171
MAIN COMPONENTS

FRONT AXLE
Non-Driven

VOLVO FA8.2-LOW
- Heavy duty (11Ton @ 20km/h)
- Drum brake (Z-cam)
- Optional park brake available
- Option for YT 182 / 222

TERBERG TTA 60-xx
- Medium duty (10Ton @ 20km/h)
- Drum brake (S-cam)
- Optional park brake available

TERBERG TTA62-xx
- Heavy duty (11Ton @ 20km/h)
- Drum brake (S-cam)
- No park brake option available
REAR AXLE

TERBERG TTA 70-xx
- Drum brake (S-cam)
- Ratio’s 9.49:1 / 11.98:1

OPTION YT 182 / 222:

KESSLER D81PL478
- Drum brake (simplex wedge)
- Ratio’s 9.76:1 / 12.73:1 / 16.13:1

KESSLER D81PL477
- Disk brake
- Ratio’s 13.2:1 / 16.36:1

MAIN COMPONENTS

All Axles fully bolted, no weld on parts
MAIN COMPONENTS

HYDRAULIC SYSTEM

- Priority valve, low noise
- Steering orbitrol: Dynamic load sensing, low noise,
- Modular lift valve assembly
- Single acting lift cylinders
MAIN COMPONENTS

HEAVY DUTY
2” & 3.5”
FIFTHWHEEL

NEW SENSORS:
> Lock sensor better positioned
> King pin sensor not sensitive for metal debri

LOCK SENSOR
KING PIN SENSOR

EMERGENCY MANUAL RELEASE

AIR RELEASE OPERATED FROM CAB
Options shown is a selection of most common used. More options are available, ask your Terberg representative for more details.
OPTIONS

LEFT AND RIGHAND DRIVE
FULL WIDTH CABIN

For use as training vehicle or as crew cab
CABIN SIDE DOOR
Options

CABIN REAR SLIDING DOOR
AIR SUSPENDED ISRI DRIVER SEAT

Optional seat: 6500 / 517

Optional seat: 6500 / 517 Pro

Equipped as 6500/517 but with extra:

- Lower seat cushion adjustment
- Horizontal suspension
- Lumbar adjustment
- Heating
> **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
SECOND SEAT
FOLD AWAY
OPTIONS

> AIRCONDITIONER

> Integrated in heater
> Manual operated or with ECC

( With ECC no speedometer possible )
RDT MOUNTING PROVISION
ROOF WINDOWS / MANHOLES
OPTIONS

MIRRORS

- Curb Mirror
- Standard Mirror
- Wide angle Mirror
- Not heated versions
- Heated versions
OPTIONS

> LNG POWER (Liquefied Natural Gas)

> Exhaust Catalyst

> Vent stack

CUMMINS ISL G 250 (186kW)

> LNG Gas tank (Isolated)

> Fill: Parker Kodiak

Vent: QDV connection

> Required Min. wheel base 3500mm
CNG POWER
(Compressed Natural Gas)

CUMMINS ISL G 250 (186kW)

- CNG Gas tanks (L & R)
  - Fill: NGV1 optional: NGV2
  - Can only be used in extended wheel base vehicles

- Exhaust Catalyst
EXHAUST GAS PURIFIER

- Catalytic filter (CAT)
- Sintered metal filter (CSMF)
- No additional heater required
- Pressure datalogger with warning for cleaning
- Cleaning possible with high pressure water
- Only available for Euromot 3A / Tier3 engines
OPTIONS

IMPACT PROTECTION SYSTEMS

> Front bumper reinforcement

> Additional cab guard

> Bolt on front protections
OPTIONS

LED FRONT LIGHTS
TRAILER CONNECTIONS
AIR BRAKE SYSTEM

> C - coupling

> Palm coupling (glad hands)

> Palm coupling (glad hands) automatic

> Duo-matic
AIR SUSPENSION

UP TO 10 TON ON AIR
OVER 10 TON ON RUBBER SUSPENSION

Rubber cushion in air bellow
INDUSTRIAL TYRES

> 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

> 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

 OPTIONS

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

> Tubeless Bead Seal mounting
MUDGUARDS

- Bolted construction
- Afterwards adjustable over 3 positions for changed tyre sizes
- Easy replaceable

Plastic part moves with axle body
OPTIONS

FRONT

> Mounting plate

> Drawbar coupling
> Register coupling
OPTIONS

> REAR

- Caravan coupling
- Drawbar coupling
- Register coupling
OPTIONS

OPTIONAL DOUBLE ACTING LIFT CYLINDERS

DOUBLE ACTING MODULAR LIFT VALVE

DOUBLE ACTING LIFT CYLINDERS
OPTIONS

MODULAR HYDRAULIC SYSTEM

STANDARD LIFT VALVE

OPTIONAL EXTRA HYDRAULIC SECTIONS

Double acting
Single acting

OPERATION OF EXTRA HYDRAULICS

Trailer connectors on customer request
MAIN COMPONENTS

OPTIONAL TIPPER TRAILER HYDRAULICS

- DOUBLE ACTING MODULAR LIFT VALVE
- DOUBLE ACTING LIFT CYLINDERS
- QUICK RELEASE VALVE
- PUMP 65CC 160LPM Full RPM
- LARGE CAPACITY TANK (221L / NET 145L) & RETURN FILTER
OPTIONS

- HEAVY DUTY 2” – 3.5” FIFTH WHEEL

- Single jaw locking mechanism

EMERGENCY MANUAL RELEASE

LOCK SENSOR

KING PIN SENSOR

AIR RELEASE OPERATED FROM CAB

Single jaw locking mechanism
OPTIONS

GREASE COVER PLATE

Protects Air valves and rear axle from grease coming from the fifth wheel

LEAD UP RAMPS

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

GOOSE NECK SUPPORT

( RIGID)
BALLAST

- For operating Multiple Trailer Systems or pulling heavy drawbar trailers
- Modular: Base plate 6,6 Ton 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. To mounting locations available
- Parking stand available: enables the tractor to (dis)attach the ballast without the help of crane / fork lift.