

Technical Specification **YT180, 4x2**

ENGINE

Cummins, 6BTAA 5.9-173 (Euromot 2)
Six-cylinder four stroke direct injection diesel engine with turbo charging and intercooler.

| | |
|-------------------|-------------------------------|
| Displacement | 5.88dm ³ |
| Bore | 102mms |
| Stroke | 120mms |
| Compression ratio | 18,0:1 |
| Coolant Capacity | 33dm ³ |
| Oil capacity | 16.4dm ³ |
| Output | 129kW (173 hp) at 2500 rpm |
| Torque | 700 Nm at 1500rpm |

Acc. SAE j1995

GEARBOX

Allison, type MT 643

Automatic shift transmission with four gears forward and gear reverse.

| Gear Ratios | Theoretical Speed |
|-------------|-------------------|
| (km/h) | |
| 3.583 | 9 (F1) |
| 2.093 | 15 (F2) |
| 1.387 | 26 (F3) |
| 1.00 | 40 (F4) |
| 5.674 | 7 (R) |

(Tyre size 11R22.5, Axleratio 12.6:1)

Optional

- Allison MD3060 (4F/1R)
- Clark power shift R32000 (4F/4R) (16.33 axle ratio only)
- ZF power shift 6WG201

FRONT AXLE

YT180 4x2 E Version 2004 - 1

Volvo

Non driven steering axle

Capacity: 11,000KGs (at 20km/h)*

*Depending on tyre rating

REAR AXLE

Axletech

Reduction ratio 12,6:1

Capacity: 32000KGs (at 20km/h)*

*Depending on tyre rating

Optional

Axle ratio 9,45:1/Axle ratio 16,33:1

SUSPENSION

Front: Parabolic leafsprings in rubber mountings with 2 telescopic shock absorbers. Maintenance free system.

Rear: Directly bolted to chassis frame.

Optional:

- Leafspring mounted with rubber stops and triangle stabiliser.
- Air suspension with rubber stops and triangle stabiliser.

RIMS AND TYRES

Tyres: 11R22,5 (6 pieces)

Rims: 10 stud discwheels 22,5 x 7,5

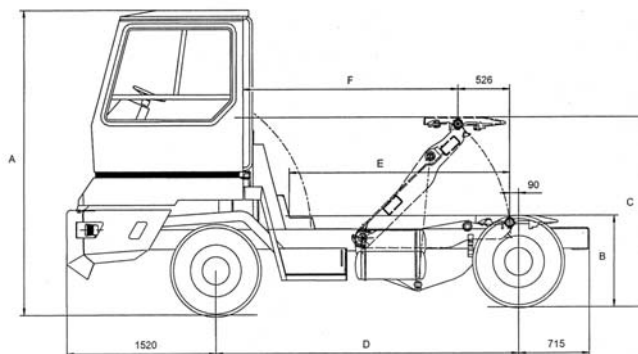
STEERING SYSTEM

Fully hydraulic orbitrol steering system with priority valve and double acting steering cylinder. Emergency steering property. Steering wheel diameter 350mm.

Turning cycle over front bumper(m)

W.B.

| | |
|------|------|
| 2900 | 12.6 |
| 3100 | 13.0 |



| TYRES | A | B | C | WHEELBASE | | |
|---------------|------|------|------|-----------|------|------|
| | D | E | F | D | E | F |
| 295/60 R 22.5 | 3070 | 920 | 1916 | 2900 | 2055 | 2003 |
| 11 R 22.5 | 3138 | 1059 | 1984 | 3100 | 2255 | 2203 |
| 10.00 R 20 | 3130 | 1100 | 1985 | 3300 | 2455 | 2403 |
| 295/60 R 22.5 | 3140 | 1101 | 1988 | | | |
| 11.00 R 20 | 3155 | 1171 | 2001 | | | |

5th WHEEL

2" Cast steel plate

Technical capacity 34,000kgs. Lifting capacity 35,000kgs. Automatic locking of jaw system. Pneumatic unlocking of the 5th wheel operated from the cabin. Indicator light for positive locking inside the cabin.

Optional:

- 28,500kgs lifting capacity
- 30,500kgs lifting capacity
- 34,000kgs lifting capacity

HYDRAULIC SYSTEM

Engine driven hydraulic pump for steering and lifting 5th wheel plate, directly mounted to engine with priority valve for the steering system. Hydraulic oil tank protected mounted to the chassis frame.

Tank capacity 50dm³.

Hydraulic valve pneumatically operated from inside the cab to lift lower hold the 5th wheel.

Working pressure 230-250 Bar.

2 heavy duty hydraulic single stage liftrams.

CHASSIS

Welded construction of rolled steel channels 200x100x10mm. Air reservoirs and fuel tank protected mounted to the chassis, access steps with anti-slip surface integrated in chassis. Towing pin attachment at front and rear.

BRAKE SYSTEM

Full air brake system with split front and rear axle circuits. Front axle with Z cam brake system, rear axle with Duplex wedge-brake system. Automatic adjusters front and rear. Tank reservoirs: 3 x 40 dm³. 2 Line trail brake system mounted on rear side of cabin, with yellow and red spiral hoses with glad-hands. Airdryer. Brake cylinders: Front axle diagram and rear axle spring brake. Brake pressure: 7.5-8.1 Bar.

FUEL TANK

Capacity 200dm³ and integrated with hydraulic tank.

COOLING SYSTEM

Fin and tube type radiator of heavy duty construction mounted on rubber silent blocks with separate air to air transmission oilcooler and engine intercooler all mounted side by side.

EXHAUST

Vertically mounted muffler with curved endpipe. Exhaust in critical area protected with steel grille.

ELECTRICAL SYSTEM

24 Volt negative earth.

Alternator 28 V/70A

Batteries 2x12Volt/135Ah

Out starter 4kW

Fuses and relays mounted in central electrical box.

Wiring with code numbers and easy readable/visible mounted in central electrical box. 7 pin S.A.E. socket at rear of cab for trailer connection.

(DIN ISO 1185).

LIGHTING

H4 headlights with dipped and main beam and direction indicators. Rear lights mounted behind cabin with direction indicators and main lights.

5th wheel floodlight behind cabin.

Gauge illumination. Interior light in cabin.

Mounting for rotating beaconlight.

CABIN

1 person-left hand drive position.

Forward facing drivers position.

Dimensions outside:

| | |
|--------|-----------------------------|
| Width | 1160mm |
| Length | 1255mm top 1525mm bottom |
| Height | 1565mm |

Cabin construction of over dimensioned strong steel profiles to resist latest Rops/Fops regulations. Cab mounted on 3 anti-vibration mounted in combination with shock absorbers. Entrance to cab by inbound door for safe and easy entrance/exit to/from drivers position. Horizontal sliding windows at drivers side. Cabin can be tilted by hydraulic hand pump to 55°.

Large windows with excellent visibility. All window panes hardened safety glass. Noise insulation exceeds international standards. Drivers seat with air suspension and fully adjustable, mounted on console Demister/heater with 3 speed blower and re-circulation system. Steering column with 1 brake pedal and 1 accelerator pedal, mounted at right side of column.

Front dash board switches:

- Ignition
 - Preheating engine
 - Differential lock
 - Work light
 - Hazard lights
 - Lighting
 - Gear Sector
 - Switches for:
 - 5th wheel high/low
 - 5th wheel unlocking (2x)
 - Indicator lights:
 - Alternator charging
 - Direction indicator
 - Hi beam
 - Differential lock
 - Handbrake activated
 - Air filter clogged
 - Voltmeter
 - Engine revolution counter
 - Running hours counter
 - Indicator lights check system with optical system with buzzer on:
 - High temperature gear box
 - Low oil pressure engine
 - High temperature engine
 - Low air pressure circuit 1
 - Low air pressure circuit 2
 - Low fuel level
 - Low voltage
- Steering column:**
- Combi switch for:
 - Direction indicators
 - Wiper front
 - Hi/Low beam
 - Horn