

T10000FS

GENERAL CHARACTERISTICS

- **Engine**

Diesel DEUTZ engine, direct injection, turbocharged, 4 strokes, 6 cylinders, 129 Kw power (152CV) at 2300 rpm, displacement 6472 cm³, air cooling electric starting. Low exhaust emission in according 2004/26/EU Step III and EPA Nonroad CFR 40 Tier III

- **Transmission**

All wheels drive with epicyclical reduction gear on hub wheels of the axle.

Hydrostatic transmission with hydraulic motor axial piston variable displacement fitted on the speed gear.

Machine provided with a three (3) speed gear box forward and reverse selected by hydraulic control from the cab.

Front axle steering by hydraulic power steering unit.

Locking steering in rail travel operation.

Speed of machine on-road and on-rail is of 0-22 km/h

Lock the swinging of the front axle by hydraulic cylinders

- **Rail – guide system**

The rail wheel is driving by friction to tires.

The rail system axle is draft in a way that with the same operation, when lowering the axle, there is the contact between iron and tyres.

Adjustable pressure of contact between tire-steel wheel by threaded device.

The machine with road and rail axels permits a great versatility on the use.

In the short time the machine switch from rails operating state to the road operating state and vice-versa.

- **Tyres**

The loader is equipped with eight (8) tyres model 9.00 R20.

- **Brakes**

Service brake, servo-assisted by hydraulic system, independent front and rear brakes circuits controlled by pedal.

Braking system is in according to the CEE rules for road vehicles.

Release of parking brake by hydraulic switch.

Therefore a lack of pressure in the hydraulic system causes the parking brake operation.

- **Turret**

The rotation of the turret is given by a hydraulic axial piston motor coupled with an epicyclical reduction gear.

Mechanical safety locking of the swing turret for travel on the road and electro hydraulic locking at 180° for rail operation.

Counterweight swing turret radius: 1750 mm.

Extended counterweight (940mm) by n.2 cylinders controlled from the cab.

- **Boom**

Boom in two pieces, arm with hydraulically extension (stroke 1000 mm).

Hydraulic cylinder & lever to operate the backhoe bucket.

- **Machine hydraulic system**

The machine is equipped with two (2) axial piston pumps variable displacement power control and four (4) gear pumps.

The two axial piston pumps feed oil to main control block to operate the boom, arm, swing, travel, bucket, telescopic extension and rail axle positioning.

Maximum capacity: 184 L/min lifting circuit + 184 L/min operation circuit

Maximum pressure at elevation circuit: 350 bar

Gear pump n°. 1 feed oil to pilot circuit

Maximum pressure at pilot circuit: 30 bar

Gear pump n°. 2 feed oil to power steering circuit

Gear pump n°. 3 feeds oil to brake system and auxiliary operation.

Maximum pressure at auxiliary circuit: 150 bar

Gear pump n°. 4 feed oil to the fan of hydraulic oil radiator

Air cooling system with hydraulically drive fan.

Control block valve hydraulic by means pilot device (joystick / pedal)

The total capacity of hydraulic system is 340 litres.

- **Electrical Installation and lightening**

The voltage is 24 V and the plant is provided with a couple of accumulators of 100 Ah. The accumulators are fed by the alternator which supplies current at 55 A.

There is a light system to obtain excellent light during night work and tunnel work. The machine is equipped with front & rear light, stop lamp, working light, rotating strobe light on the cabin and lights and acoustic warning for reverse travelling.

- **Cabin**

The cabin is located on the side turret; it permits a very good visibility of the operation area

The front cabin glazed wind screen is protected with a metallic grid.

The seat of the operator is provided with shock absorbers and it is anatomically designed.

The machine has wide rear mirrors to get complete visibility of the whole working area

- **Controls and Work Safety**

All the operations of the machine must be operated only if the operator is sitting on his seat. Moreover all the levers for loading are provided with safe devices against undesired manoeuvring.

The machine is equipped with safety device to prevent the overload of machine.

- **Paint**

All components being exposed to surrounding conditions are painted with RAL 1003 numbered yellow paint on a layer of anticorrosive paint.

All warnings and labels written on the machine and in the cabin are in English language.

- **Performance**

Service weight: **32 t**

Lifting service capacities:

- On tires

At side at max. reach counterweight extended **6000 daN**

At side at max. reach counterweight retracted **5000 daN**

- On level rail

At side at max. reach counterweight retracted **4200 daN**