

MAZ-650108-8230-700

PURPOSE:

Transportation of different bulk loads on the roads with allowed axial load on double axes (carriage) to 32 tp.

THE WHEEL FORMULA:

6×4

1.0. OVERALL DIMENSIONS:

Total length : 7750mm

Tipper dimensions : 5700 x 2320x1500 = 20m³

2.0 LOAD PARAMETERS:

Payload carried, kg: 20200

Mass of the equipped automobile, kg. 13150

Technically admissible gross mass of the automobile, kg. 33500

Technically admissible load on a road by the automobile by gross mass, kgp:

- through tyres of front wheels; 7500

- through tyres of the carriage. 26000

Max rise overcome by the automobile by gross mass, % not less 25

2.1 ENGINE:

Model ЯМЗ-
Diesel, 8 cylinder, V-type, with turbo- 75117.10
supercharging and intercooler. (Euro-2)

Displacement, l 14,86

Power, kW (hp). 294(400)

- at frequency of rotation, min⁻¹ 1900

Max torque, N·m (Kg·m) 1715(175)

- at frequency of rotation, min⁻¹ 1200-1400

Cooling system:

liquid, closed type with forced circulation of cooling liquid, extension tank and coupling of fan disconnecting,.

- capacity, l 48

Lubrication system:

mixed with the water-to-oil cooler, filter with the paper element and filter of centrifugal clearing.

- capacity, l 32

Fuel system:

In-line, fuel injection pump, filters of primary and secondary clearing.

- Fuel tank, l. 300

- 2.2 COUPLING:**
Friction, dry, single-disk. **MFZ-430**
The hydraulic drive with pneumatic booster.
- 2.3 GEARBOX:**
Mechanical with dual high transmission. **12JS200TA**
Quantity of transfers is 12 with synchronizers on all transmissions, except of backward motion.
- 2.4 DRIVING AXLES:** **U₀=5,33**
Rear and middle, two-stage with the central reducer, interwheel lock and wheel cylindrical transmissions of planetary type. It is equipped with interwheel and interaxle lock.
Maximum speed, km/h. **89**
- 2.5 FRONT AXLE:**
Controlled type, beam of I-section axis with rotary cams fixed on needle bearings.
- 2.6 FRAME:**
With pressed parts with the amplifier on all length of a frame.
- 2.7 FRONT SUSPENSION:**
Dependent strengthened, on longitudinal leaf springs, with two hydraulic shock-absorbers of telescopic type, the stabilizer of cross-section stability.
- 2.8 REAR SUSPENSION:**
Walking-beam type with six torque rods and cross-sectional stability device.
- 2.9 WHEELS:**
Disk, fastened by 10 nuts **9,00×22,5**
Quantity: **10**
Spare wheel: **1**
- 2.10 TYRES:**
Pneumatic, with universal figure of the protector. Layer norm 18.
Dimensionality: **315/80R22,5**
Index of payload capacity: **154/150**
Index of speed: **M**
- 2.11 STEERING GEAR:**
With the hydraulic booster. The control column is regulated on altitude, angle of declination, is supplied with anti-thief and trauma protection devices.

2.12 BRAKE SYSTEM:

Pneumatic, with the separate drive of front and rear wheels.

2.12.1 -WORKING:

Working brake is foot type, brake mechanism is drum type.

2.12.2 -PARKING:

Influences on rear wheels from spring power accumulators, having the pneumatic drive.

2.12.3 -AUXILIARY:

Throttling type, has a throttle plate installed in the engine exhaust pipeline and controlled by air cylinder.

2.12.4 ANTILOCKING BRAKE SYSTEM (ABS)**2.13 ELECTRIC EQUIPMENT SYSTEM:**

Single-wire, direct current with nominal voltage 24V. The negative pole energy of accumulator battery is connected to the frame. There are 2 batteries by capacity of 190 Amp-hrs. There is a signal of reverse. Generator: 28V, 80A, with the built-in integral relay assembly of voltage. Starter: 24V, 9kW.

2.14 CABIN:

All-metal, short, with low roof, fixed on spring suspension, double-places, double-door, single sleeping place. can be pushed forward. Seat of the driver on a pneumatic suspension bracket.

2.15 WIND SCREEN:

Triplex with electrical windshield washer.
- capacity of electrical windshield washer, l

10,0**2.16 BODY:**

Welded, all-metal with a folding rear side and automatic lock device. There is a device of insurance of the lifted body;

- capacity, m³

20 m³**2.17 BODY RISE SYSTEM:**

Hydraulic with the telescopic cylinder of the tipping mechanism, with gear pump fixed on gearbox. The control is carried out from driver's place.

- capacity, l

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The manufacturer reserves the right to itself to make modifications, which directed on improving automobile parameters