



TATOMA SELF-PROPELLED MIXER MBS-30 TECHNICAL SPECIFICATIONS



OVERVIEW

What follows is a presentation of the machine we have designed and manufactured, our 30m³ capacity TATOMA self-propelled mixer MBS-30, designed to collect, chop, mix and distribute to feedlot cattle.

A machine with this capacity is in itself something of an innovation, given that they have only appeared recently on the market and are being developed by few manufacturers. Thanks to this type of machine the resources required for cattle feeding have been streamlined, while obtaining excellent results in the homogenization of the products used for cattle feed and savings in both time and fuel for the herd owner. These machines are specially designed for use on large farms or yards given their capacity to deliver around 200 rations in a single mix and distribution process.

The machine is supported on three axles, the front axle with hydraulic suspension and the two rear ones with tandem suspension springs. The first and third axles also incorporate steering, providing excellent manoeuvrability, achieving a turning circle normally only possible on smaller capacity two-axle machines.

TECHNICAL SPECIFICATIONS

TATOMA SELF-PROPELLED MIXER MBS-30, with two horizontal augers and 30 m³ capacity.

MIXING CHAMBER

30 m³ capacity for a maximum product weight of 12,000 kp. Stainless steel bottom (optional).

MIXER

Two mixing augers at the bottom of the mixing chamber with an external auger diameter of 690 mm, 244.5 mm pipe diameter and 450 mm pitch.

CUTTER AND LOADING BELT

Power 130 kW. Width 2200 mm. 600 mm wide rubber loading belt. Hydraulically operated cutter action protection.

UNLOADING BELT

Width 990 mm, PVC band, length depending on customer needs.

WEIGHSCALE

Programmable with modem output.

LOAD

Total weight, 22500 kp unladen and 34500 kp laden

CHASSIS

Built in hot-rolled structural steel, supporting all elements of the machine.

FUEL TANK

On the right side of the vehicle with a capacity of 250 litres

ENGINE

Diesel, Cummins QSL9 in-line 6-cylinder, Tier-3. Maximum power 242 kW @ 2100 rpm. Maximum torque, 1424 Nm @ 1500 rpm.

TRANSMISSION

Hydrostatic closed circuit

AXLES

Three, one front axle and two rear axles.

The first a 12t capacity steer drive

The second, a 13 t capacity drive

The third, an 11.5 t capacity drive

BRAKES

Service, hydraulic on first and second axles. The parking brake is a negative hydraulic brake on the first and second axles.

SUSPENSION

Parallel arm system on the front axle and hydraulic cylinders connected by crossing chambers together with nitrogen bladder type accumulators.

Leaf-spring tandem system on the rear axle



STEERING

Orbitrol Hydraulics on the first axle and forced on the third axle.

TYRES

Six tyres size 445/65R22.5

CABIN

One-seater. With suspension. Manufactured anti-corrosion chemically treated steel. Extremely comfortable with excellent visibility. Fitted with safety glass, air conditioning, controls and indicators for machine handling. Seat with pneumatic suspension.

HYDRAULIC SYSTEM

Responsible for producing machine movements. Comprising the following elements:

Oil tank: 3 mm thick carbon sheet steel with internal reinforcements. Total capacity of 350 lt. and a filling capacity of 300 lt. located at the rear of the vehicle and incorporates, level gauge, return filters, filling and emptying caps and removable cap for cleaning.

Hydraulic pipes: rigid metal piping and flexible hose diameter and resistance in accordance with pressure and flow rate.

Mixer: Two variable flow pumps and two fixed displacement motors.

Cutter: Two fixed displacement motors.

ELECTRICAL SYSTEM

The electrical system is designed and built to withstand harsh environments (dusty). All circuits are protected by thermal fuses

CONTROL SYSTEM

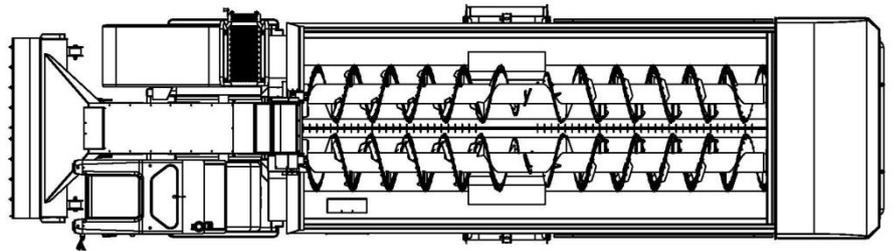
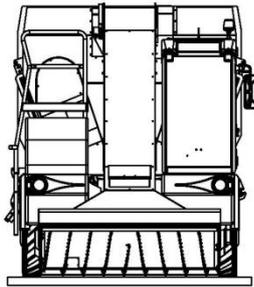
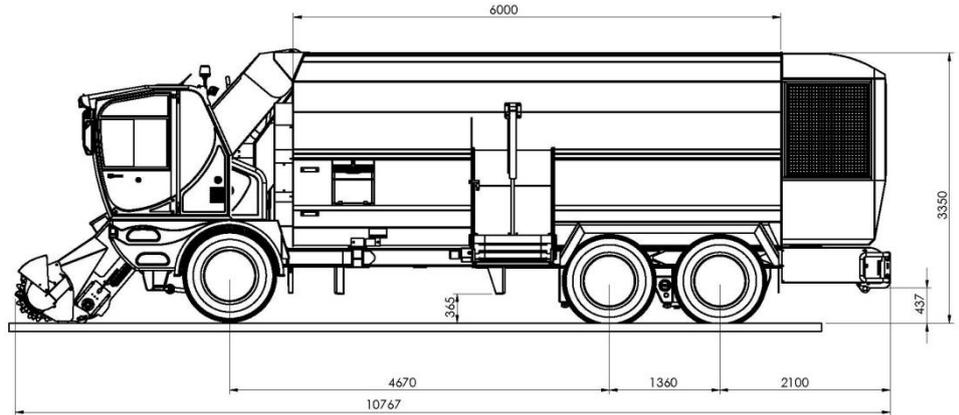
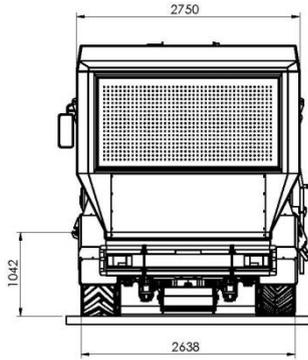
Side console and steering column in the cab with electric multifunction joystick, buttons and information screen to control and monitor all machine functions (engine, tanks and operations)

DIMENSIONS:

Cutter Height (centre)	5000 mm
Inner turning circle	5400 mm
Outer wheel turning circle	9420 mm
Wall-to-wall turning circle	10 715 mm
Minimum track	2100 mm

PERFORMANCE

Driving speed	10 kph laden, 30 kph unladen
% Maximum gradeability,	25% unladen, 10% laden
Feeding Capacity:	200 cattle per mix in 22 minutes over a distance of 1 km
Average consumption:	22.5 litres of fuel per hour



OPTIONAL EQUIPMENT:

- Stainless steel or HARDOX 400 anti-wear on the chamber bottom and the silage cutter
- Air conditioning
- Farm Link 4 Feed management system
- Hydraulic swing lateral unloading belt
- Ready to drive on the public highway (in accordance with the legislation in each country)
- LED Technology working lights
- Control camera on mixing chamber and rear of vehicle

