



MACKINA - WESTFALIA



# WAGON TIPPER

## 01M128400xxx

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Product description





## 1.- EQUIPMENT DESCRIPTION.

### 1.1.- General description

Tipper for wagons with complete 360° rotation, automatic, with two different rotation cycles, and return to the initial position.

Turning cycles:

- ✓ Continuous.
- ✓ Discontinuous, with programmable intermediate stop.

Models for 1, 2, 3 and 4 wagon tipping.

Configurable for different wagon dimensions and silhouettes.

Manufactured in two versions:

- ✓ No protection mode, for areas without risk of explosive atmosphere
- ✓ With protection mode, for areas with risk of explosive atmosphere

Machine built in steel and electro-welded profiles, composed of two parts:

- ✓ Chassis for support.
- ✓ Rotating drum.

The chassis is composed of UPN profiles, 6 steel wheels, with axles and bearings to support and turn the drum and 4 axial wheels to guide the drum and prevent its lateral displacement.

The drum consists of profiles electro-welded to two mechanized rings and conformed with an entrance silhouette for the wagons, with some fixings at an angle and others in the form of a nail that is responsible for holding the wagon so that when it rotates does not move inside the drumokdiario

### 1.2.- Drive mechanism

The drum is attached to one of the rings with a gear wheel of the same diameter as the ring.



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This sprocket is embraced by a chain, which also passes through an idler pinion that acts as a turnbuckle and a drive pinion on which it is mounted in a motor-reducer unit with an incorporated electro-brake, making up the machine's drive assembly.

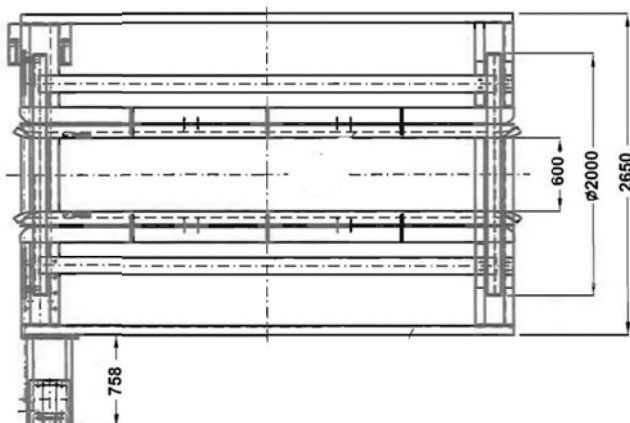
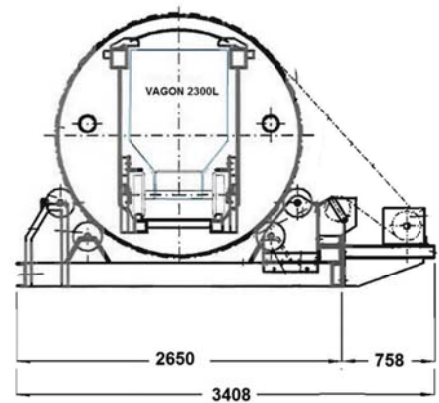
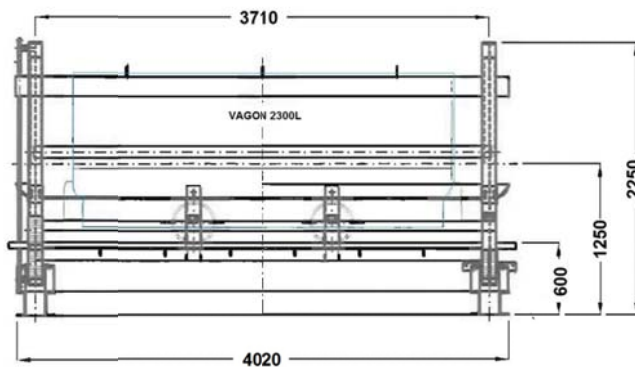
The geared motor is compact in one piece.

The transmission of the motor-reducer pinion with the chain, the tensioning pinion and the sprocket, are equipped with a bolted metal protection eliminating the possibility of entrapment when the machine makes its turn.

## 2.- CARACTERISTICAS

Example of a machine designed to tip 1 wagon with a capacity of 2,300 liters.

### 2.1.- Dimensions





### 2.2.- Functional Characteristics

- ✓ Weight Roller ..... 3.200 Kgr
- ✓ Diameter roller ..... 2.00 m
- ✓ Length roller..... 3.710 m
- ✓ Drum speed ..... 3.8 rpm
  
- ✓ Supply voltage ..... 3x 440 V
- ✓ Frequency..... 60 Hz
- ✓ Installed Power ..... 3.00 kW

### 3.- VERSION WITH PROTECTION MODE

It only differs from the version without protection mode in the electrical equipment by fitting the following elements and their corresponding protection modes:

- ✓ Motor-Brake ..... IIG Ex db IIB
- ✓ Power Box ..... Ex I M2 EEx d I
- ✓ Control Box ..... Ex II G
- ✓ Retroreflective Sensors ..... NAMUR IEC 60947-5-6:2007
- ✓ Proximity detector ..... NAMUR IEC 60947-5-6:1999
- ✓ Emergency Stop ..... Ex I M1 Ex ia I
- ✓ Start/stop button panel ..... Ex I M1 Ex ia I





# MACKINA-WESTFALIA, S.A.

Carretera M-300 Km.29,5 28802 Alcalá de Henares MADRID ESPAÑA  
Tel. + 34 91 889 44 12 Fax. + 34 91 883 21 74  
Email. [mackwest@mackina-westfalia.com](mailto:mackwest@mackina-westfalia.com)  
Web [www.mackina-westfalia.com](http://www.mackina-westfalia.com)

