



MACKINA - WESTFALIA



Product description

# Rebuild Electric Locomotive TRARIASA T80

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**Electric Locomotive T80****1.- TECHNICAL CHARACTERISTICS**

Electric locomotive with batteries to be used underground.

**1.1.- Technical Characteristics**

Service aprox. weight (kg)	<b>7500</b>
Tractive effort (kg) at 25% adherence	<b>1875</b>
Tractive effort (kg) at 16% adherence	<b>1200</b>
Number of tractive motors	<b>2</b>
Total power per hour (Kw)	<b>24,4</b>
Battery voltage (V)	<b>108</b>
Discharge capacity in 5 h (Ah)	<b>875</b>
Number of battery elements	<b>54</b>
Minimum curve radius (m)	<b>8</b>
Length with buffers (mm)	<b>3750</b>
Width (mm)	<b>985</b>
Height (mm)	<b>1750</b>
Full load horizontal velocity (km/h)	<b>10</b>
Width of track (mm)	<b>600</b>

**1.2.- Chassis**

Constructed in welded steel, suspended by rubber studs on grease boxes with oscillating roller bearings.

**1.3.- Sanders**

Mechanical sanding system to the rails in both directions

**1.4.- Brakes**

Break hydraulic to the four wheels by break shoes. Mechanical stop break – manual, and emergency brake electrical.



### 1.5.- Buffers and motor suspension

The locomotive has two buffers which may be removed and with rubber stud shock absorbers, achieving complete sock absorption against collisions and battery vibrations. Equally, the motor is suspended from the chassis by a brace with rubber studs.

### 1.6.- Battery

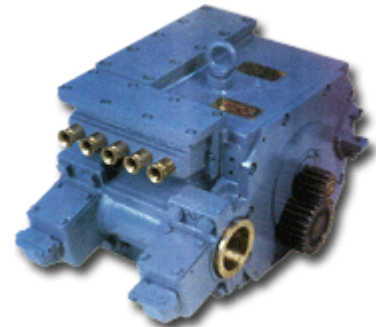
The battery housing is constructed in steel plating with an interior anti-acid covering. Bipolar current connection. The locomotive includes a battery discharge indicator. Possibility of construction of the battery housing with protection against firedamp by increased safety, with current connection with anti-firedamp protection.

### 1.7.- Motor and transmission

Technical Characteristics

- Firedamp Protection
- Insulation Class
- Protection Mode
- Used at Models
- Power per Hour
- Input Voltage

IP54  
F  
EEx de I M2  
T-80  
24,4 Kw  
108 V



The DC motors (2) type **MU800**, is constructed with steel casing (possibility of anti-flagrant construction in the event of firedamp mines), coupled to the wheel-set by various bronze cushions , thus forming a motor-wheel-set with direct Pinion-Crown transmission to each axle protected with steel casing with a hatch for greasing.

### 1.8.- Speed control

In order to achieve continuous speed regulation, an electronic speed control with high reliability and minimum maintenance thyristors.

### 1.9.- Headlights

The locomotive has two headlights (diodes led), one in each direction

### 1.10.- Warning signal

The locomotive has acoustic and luminous position warning signal by red led in light contrary to the direction selected.





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