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TRESCAL - SYCON

RAILWAY CALIPERS



Doc. 2013-01-10

Table of Contents

- 1 **BOWARROW 330 ... Three-point caliper (wheel diameter)**
- 2 **WHEELY 200 Railway wheel parameters (caliper)**
- 3 **WHEELY 346 Railway wheel parameters (digital caliper)**
- 4 **GAUGEAL Wheel distance gauge**
- 5 **LASERTOUCHE 140 Low-cost wheel profilometer**



Doc. 2013-01-10

BOWARROW 330 WHEEL DIAMETER MEASUREMENT CALIPER

1 DESCRIPTION OF THE EQUIPMENT

The Bowarrow 330 (13") caliper calculates the wheel diameter by measuring the versine of the wheel arc encompassed between two tungsten carbide spherical points.

The equipment is based on the Mitutoyo ID-C 543-485B indicator, which is capable of doing this type of calculation.

PLEASE NOTE: Given that there are two support balls and that the indicator has a roller point, the caliper can slide over the tread and the diameter reading can be fine-tuned, or a wheel can be checked to see if it is out of round.

2 CHARACTERISTICS OF THE CALIPER

The bracket for the roller point is 70 mm from the inner face of the wheel (other distances when an order is placed).

The equipment is delivered with two reference arcs that have the diameter selected by the customer or TGV diameters.





Doc. 2013-01-10

WHEELY 200 RAILWAY WHEEL CALIPER

3 DESCRIPTION OF THE EQUIPMENT

The Wheely 200 is used to measure the wheel parameters of train and tram wheels:

Flange thickness (G)

Flange height (H)

qR factor (flange wear)

Wheel conicity (P%) (conicity of the tread)

4 CHARACTERISTICS OF THE CALIPER

The roller bracket is adjustable (60 mm, 70 mm, etc.).

The equipment incorporates a square with the standard values of G, H, qR and conicity (0%).

Models:

WHEELY 200 RAIL for controlling the parameters of train wheels.

WHEELY 200 TRAM for controlling the parameters of tram wheels.

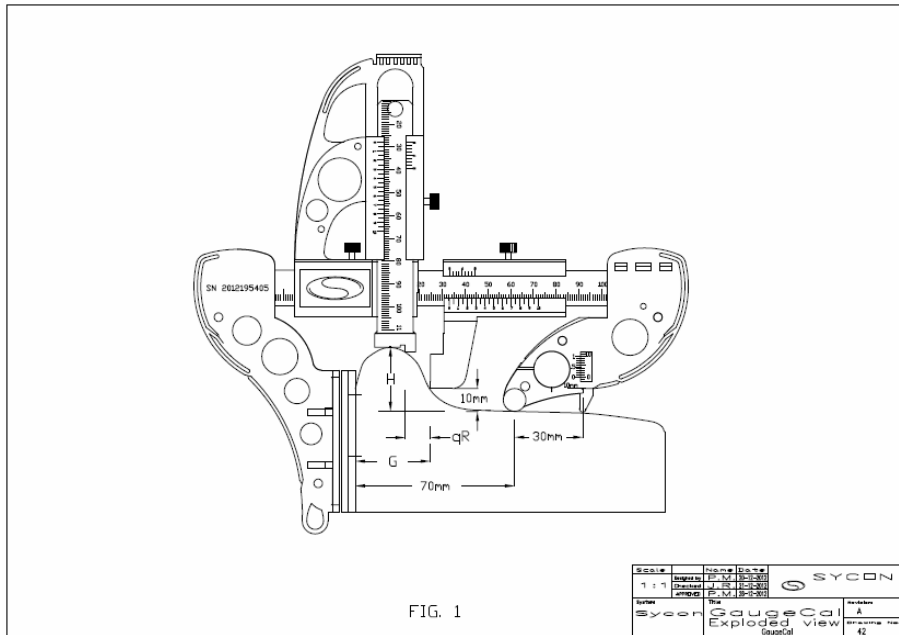
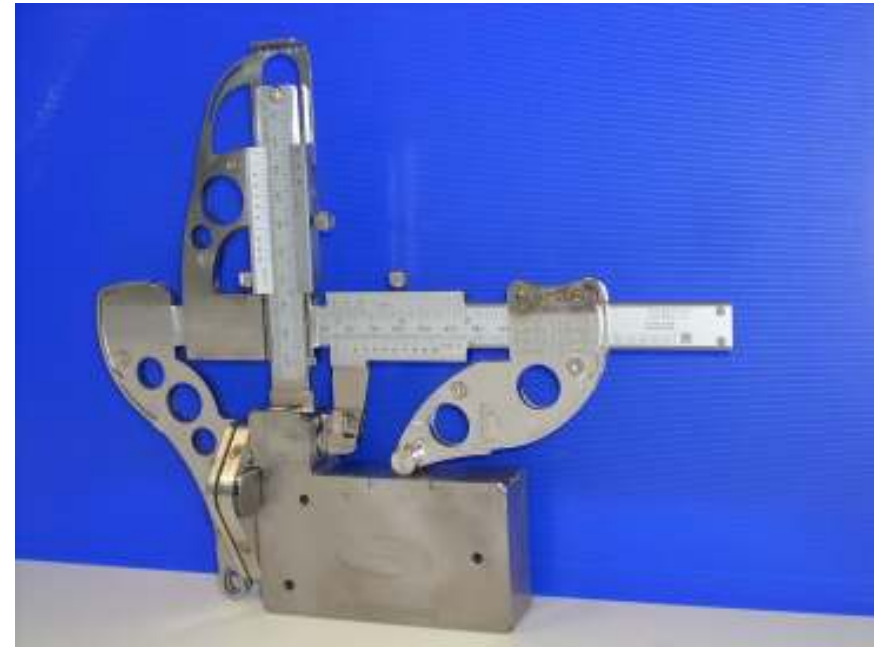


FIG. 1





Doc. 2013-01-10

WHEELY 346 RAILWAY WHEEL CALIPER

5 DESCRIPTION OF THE EQUIPMENT

The Wheely 346 caliper is used to measure the parameters of train wheels.

Flange thickness (G)

Flange height (H)

qR factor (flange wear)

6 CHARACTERISTICS OF THE CALIPER

The roller bracket is 70 mm from the face of the magnets.

The equipment incorporates a square with the standard values of G, H and qR.

Weight: 840 gr.

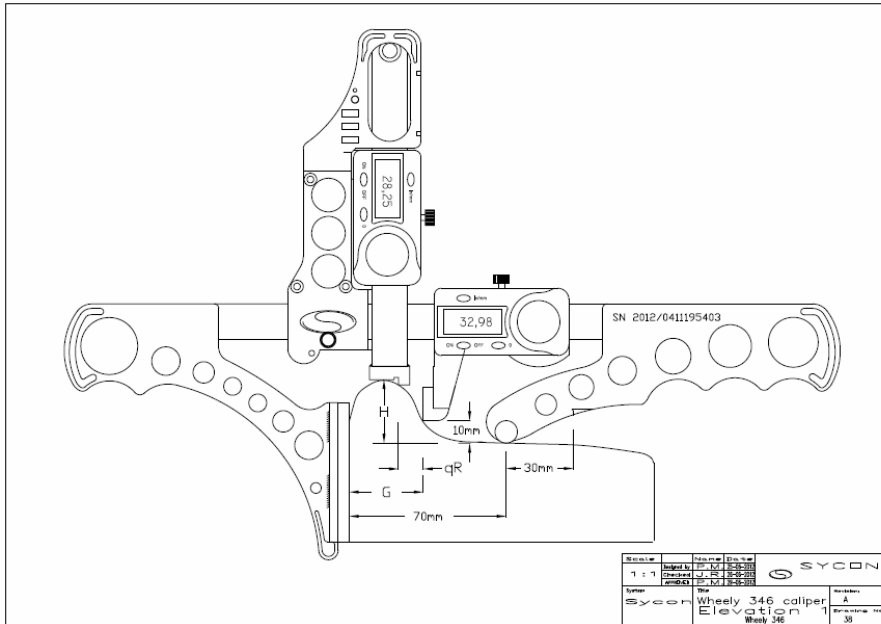
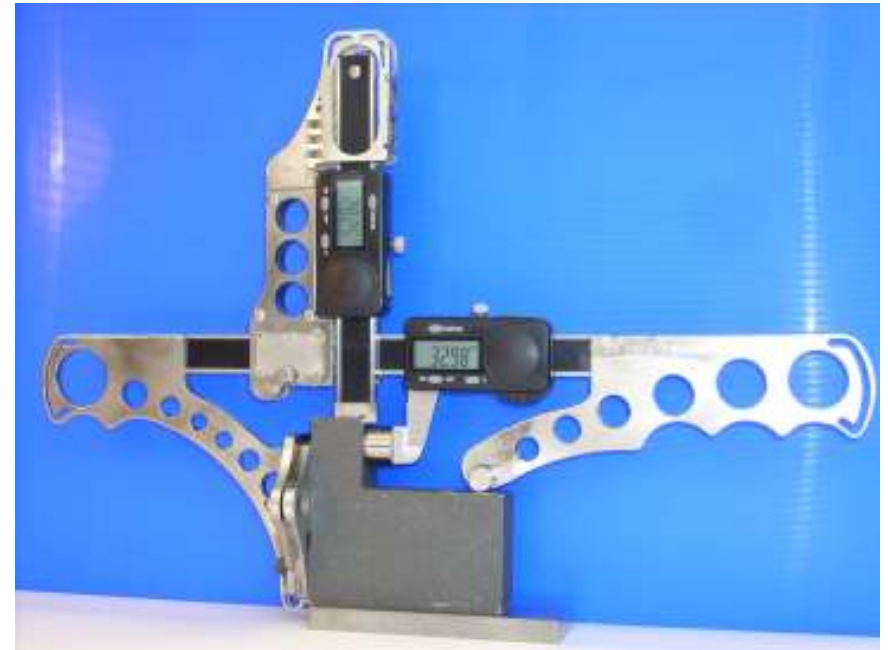


FIG. 1





Doc. 2013-01-10

GAUGEAL WHEEL DISTANCE GAUGE

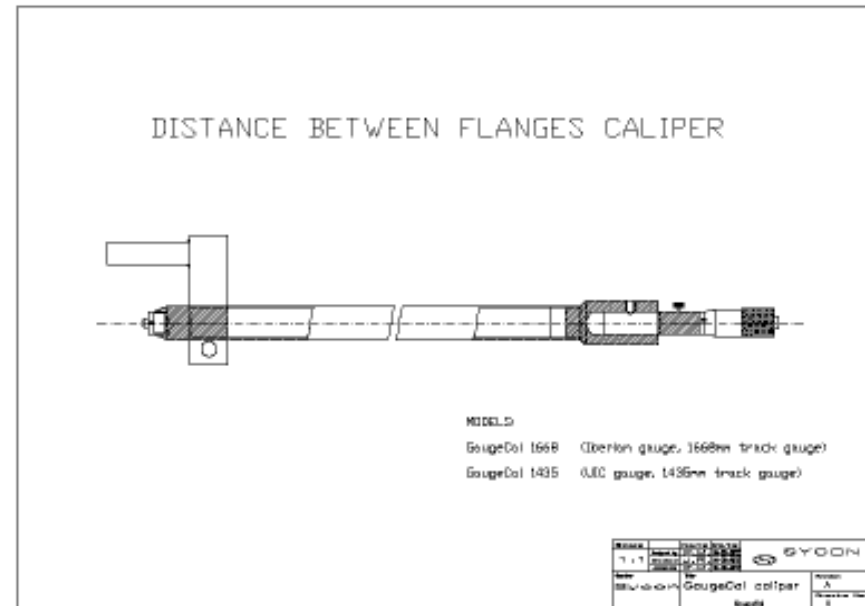
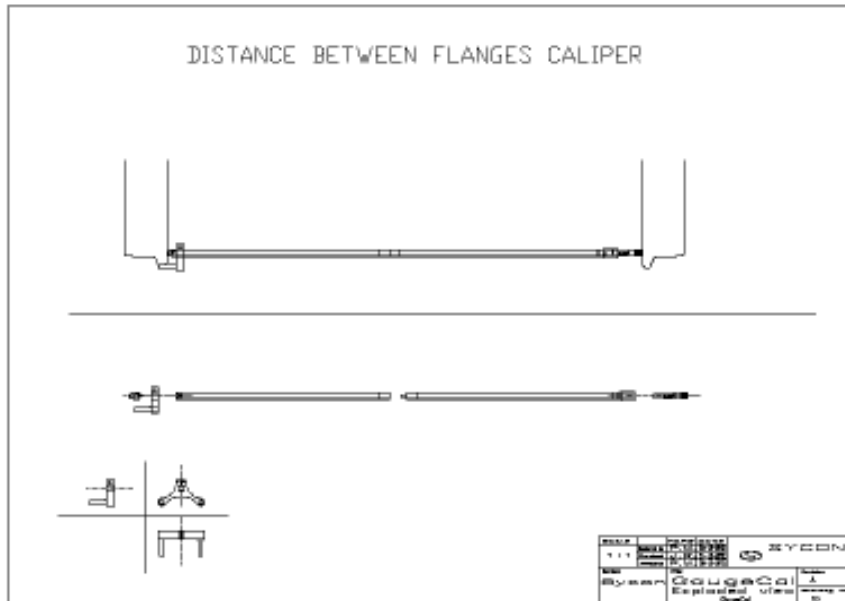
7 DESCRIPTION OF THE EQUIPMENT

The GaugeCal gauge is used to measure the distance between the inner faces of wheels.

8 CHARACTERISTICS OF THE GAUGE

The gauge has a pair of tongues that sit on the edge of the flange, thereby making it more convenient when measuring the distance between wheels.

Weight: 2.8 kg.





Doc. 2013-01-10

LASERTOUCHE 140 PROFILOMETER

9 DESCRIPTION OF THE EQUIPMENT

The LASERTOUCHE 140 measures the wheel profile and delivers a point cloud in Excel format.

The equipment also provides the wheel parameters and a representation of the profile.

PLEASE NOTE: This profilometer provides wheel parameters that MATCH those measured by the Wheely 200 or Wheely 347, due to the fact that it uses the same bracket (at 70 mm) over the tread.

10 CHARACTERISTICS OF THE GAUGE

It is a low-cost profilometer. The laser sensor is moved manually.

If the gauge has been positioned correctly and the laser point has moved over the entire width of the wheel, the operation will be approved by the equipment, and the data will be stored in an Excel spreadsheet. The wheel profile and the wheel parameters can also be viewed.

The equipment incorporates a square with the standard values of G, H, qR and conicity (0%).

The equipment's small PC can support the METRA control program for measurement equipment.