

mobile
Derailment safety test
according to EN14363 Method 3

Twist test $\Delta Q/Q_0$

Roll coefficient test $s_R = \eta^*/\eta_0$

Rotational resistance test factor X

Vehicle Weighing Q_0

Center of Gravity evaluation CoG



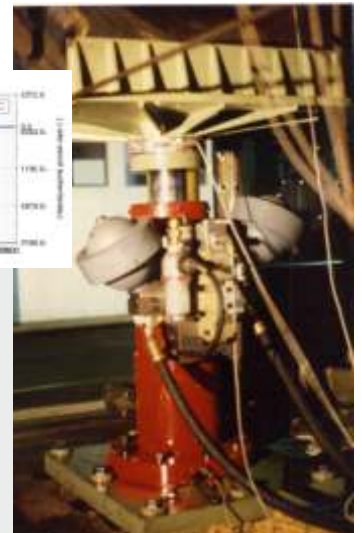
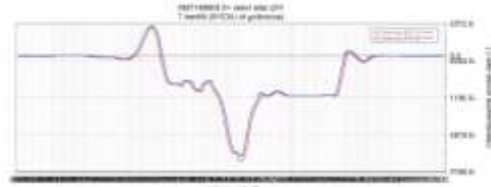
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Background

Since 1989 SAMES is working in sector of testing services, test rig design and supply, special test machine design and supply. Due to our knowledge regarding hydraulic actuators construction and a long-term experience in test field, enable us to perform complex test tasks, especially in the railway sector.

Concept

To transport e.g. carbody shell structures or entire coaches to the testing laboratory is often an expensive, complex and time intensive job. SAMES provides mobile testing service at your factory. Our engineers will ship all test equipment to your company all around the world. That will save cost and time.



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Our equipment allows us to perform:

- Rotational resistance test
- Roll coefficient test
- Twist test of either carbody or bogie dQ/Q_0
- Weighing and CoG test

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saving time and cost

- Locomotive
- Coach
- Freight car
- Maintenance of way vehicles
- Special vehicles



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Mobile rotational resistance test jig

X-factor testing



Gauges from 1000, 1067, 1435, 1520, 1600, 1667 mm can be tested. Other special gauges due to request. The test rig can be loaded with an axle load up to 25 t and a maximum rotational angle of 15°.

Mobile bogie or carbody shell twist

dQ/Q₀ or torsional stiffness measurement



Using hydraulic or electric actuators we perform a twist test in accordance with all regulations of the EN14363. The hydraulic actuators are powered by SAMES own hydraulic power units; so customer just provides electric power.

Test equipment

Hydraulic & electric actuators, measurement equipment



Our testing equipment consist of modern measurement electronic with displacement, force, pressure, etc. sensors as well as strain gauges for e.g. torsional stiffness measurements.