



**Manufacturers of custom built
machinery for the railway industry**

Bogie Test Machine and Spring Test Machine

The Bogie Test machine is designed to test complete bogies to ensure that the weight is evenly distributed across all four wheels. Installed in a pit beneath the rails, the machine allows for direct loading and unloading of bogies and can also be configured to allow trains to pass through when not in use.

Load cells beneath each wheel calculate the loading, and, should adjustment be necessary, hydraulic rams can lift the bogie to facilitate shimming.

The Atlas Rail Bogie Spring Tester has been designed to either work with the Bogie Test Machine or as an independent machine., and can be used to handle multiple types of spring. When used in conjunction with the Test Bench the same services can be utilised for both machines.

The machine incorporates a linear transducer which is used to measure the spring free length. Measurements taken in this test are used to determine the size of any shims required.

The machine consists of two movable bolsters which are guided by linear bearings running on four shafts. Once the spring is positioned between the bolsters a hydraulic cylinder applies the required force down on the top bolster and a load of up to 20kN applied to measure the spring compression. While each spring is loaded the force is measured using a load cell which is mounted under the bottom bolster. This measurement is displayed on the operator panel.



For more information regarding these units and other railway workshop equipment, please contact Atlas Rail

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Specifications

General Parameters

Lifting cylinder capacity	20T
Lifting cylinder stroke	600mm
Load cell capacity	60T
Length of floating rails	1000mm
bogie axle range	1500mm to 3300mm.
Bogie Lifting Jacks	4
Bogie lifting jacks capacity	3T
Total lifting capacity	12T
Spring tester max laod	20kN

