

ABTUS

TS GAUGE

TRACK SPREAD GAUGE FOR DYNAMIC RUNNING GAUGE MEASUREMENT



- ~ Measures track spread, lateral and twist, up to 30mm
- ~ Shows maximum spread, no calculation required
- ~ Fits any gauge 1370-1500mm
- ~ Fully non-conductive construction using GRP and Nylon 6
- ~ Factory calibrated for guaranteed accuracy

ABTUS Limited, Falconer Road, Haverhill, Suffolk, CB9 7XU.
Tel: +44 1440 702938 Fax: +44 1440 702961 Email: info@abtus.co.uk

INSTRUCTIONS FOR USE (ALL RAIL TYPES)

Track Spread Gauge

Instructions for Use

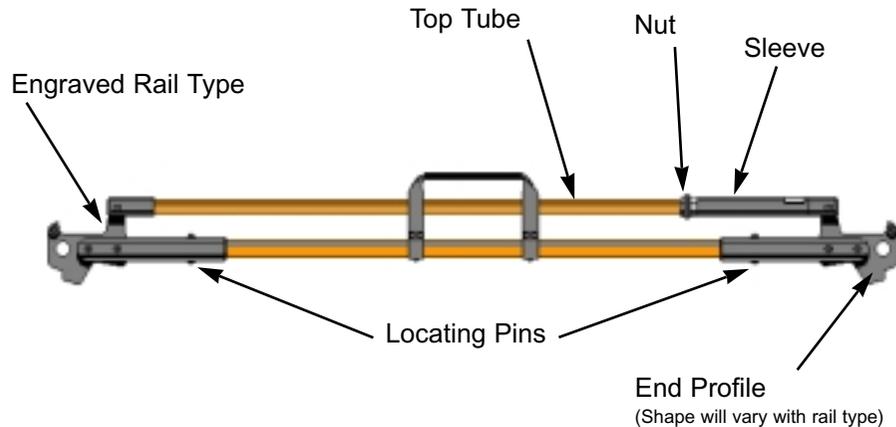
1.0 Description

1.1 This tool is used to measure the dynamic track gauge *ie* the opening of the track by lateral or twisting forces due to the passage of rolling stock.

1.2 Where possible, the tool has been designed to work on more than one rail type. However, it is important to ensure that the correctly profiled tool has been selected for the measuring job to be undertaken. The gauge has the appropriate rail type(s) engraved onto the upper portion of the profiled ends.

2.0 Method of Use

2.1 Place one end of the tool into the rail web and shorten the tool by forcing the other end inward. Insert the second end into the opposite rail web so that the



tool sits squarely. On narrower gauges it may be necessary to introduce the tool at a slight angle to fit between the rail heads prior to squaring up. Check that both end profiles are square up to the rail webs.

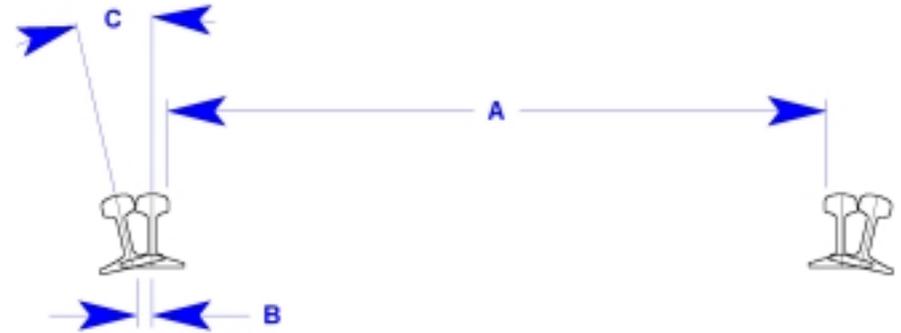
2.2 Slide the sleeve towards the centre of the tool so that the scale indicates zero.

2.3 Upon passage of the train the scale will indicate the maximum amount by which the gauge (A), measured 13mm below rail head, has opened. Note that this may be a combination of lateral (B) and angular (C) movement, see diagram below.

3.0 Checking and Adjusting Friction Sleeve

3.1 In order for this tool to operate efficiently the friction of the outer sleeve must be great enough to prevent bogus movement due to vibration, yet low enough to allow the springs within the tool to return the end profiles after the passage of the train. As the friction may be affected by different weather conditions it is advisable to check this prior to use.

3.2 Stand the tool upright and press down on the end profile until the tool is fully compressed, that is when both locating pins reach the other end of their slots.



Slowly release the force and check that the sleeve is pulled back up the top pole by the indicator pin under the spring force only.

3.3 If the springs cannot force the sleeve to return then the friction should be reduced by rotating the nut towards the inside of the sleeve.

3.4 If the sleeve appears to be too loose then the nut should be rotated towards the outside of the sleeve, as long as the condition in paragraph 3.2 is met.

4.0 Storage

4.1 For best results the tool should be stored in an unstressed condition. At maximum extension of the tool and maximum outward twist of the end profiles, pull the sleeve just clear of the top pole onto the tapered ferrule.