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Translation

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Tractive units - Bogies and running gear - General conditions applicable to component parts

*Engins moteurs - Bogies et organes de roulement - Dispositions générales applicables aux organes
constitutifs*

Triebfahrzeuge - Drehgestelle und Laufwerke - Allgemeine Vorschriften für die Bestandteile



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Leaflet to be classified in Volumes :

V - Rolling stock

VI - Traction

VIII - Technical specifications

Application :

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All members of the International Union of Railways

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Important: the articles (points) in this leaflet have been renumbered in the new edition. The first digit of each point has been increased by one (i.e. 0 becomes 1, 1 becomes 2, and so on). Please take account of this when using cross-references from other leaflets.

The person responsible for this leaflet is named in the UIC Code

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Summary

This leaflet forms part of a series covering the official testing and approval of motor bogies. It defines the conditions with which motor-bogie component parts must comply.

1 - Scope

This leaflet forms part of a series covering the official testing and approval of motor bogies.

In addition to the provisions laid down in *UIC Leaflet 615-0, 615-4, 513, 515-3 and 515-5* (see [Bibliography - page 14](#)), it defines the conditions with which the motor-bogie component parts must comply.

2 - Conditions relating to wheelsets

2.1 - Wheelset

The electrical resistance of the wheelset, as measured between the running treads of the two wheels, shall comply with *UIC Leaflet 813-0 and 512* (see Bibliography - page 14).

2.2 - Wheels

The wheel rim profile shall comply with the conditions specified in *UIC Leaflet 510-2* (see Bibliography - page 14).

2.3 - Axle

Axle dimensions and design profiles shall comply with the conditions laid down in *UIC Leaflet 515-3* (see Bibliography - page 14).

The diameter and length of axle journals shall permit compliance with the following two conditions:

- mechanical strength as prescribed by *UIC Leaflet 515-3*,
- bearings to function correctly in accordance with *UIC Leaflet 515-3*.

2.4 - Axle-boxes - Bearings - Lubricant

Axle-boxes shall have roller bearings and comply with *UIC Leaflet 515-5* (see Bibliography - page 14).

The lower part of axle-boxes shall be visible to hot-box detectors located along the track. Where such visibility cannot be obtained, axle-boxes shall be fitted with a temperature monitoring device providing data to the driving cab.

Where systems are fitted to the ends of axles (e.g. current return, recorders measuring speed of rotation), they shall not have any effect on the operation of the bearings, even in cases of failure or malfunction.

Bearings shall be electrically insulated to prevent currents passing through them. In order to ensure current return to the rail, part of the bogie axle-boxes shall be fitted with suitable systems for earthing to rail.

Where necessary, the axle-box shall be designed in such a way as to facilitate wheel re-profiling on underfloor wheel lathes. If the use of a wheel-centering device is required, the casing of the bearings of the axle must be adapted accordingly.

The grease used shall comply with the conditions prescribed in *UIC Leaflet 814 et n° 515-5* (see Bibliography - page 14).