

## ECLA EUROPEAN CLASSIFICATION

### B61C LOCOMOTIVES; MOTOR RAILCARS (vehicles in general B60; frames or bogies B61F; special railroad equipment for locomotives B61J, B61K)

#### Note

[N0003] This subclass covers:

- o general design features or items of locomotives and motor railcars not otherwise provided for;
- o non-electric features of electric locomotives

**Guide heading:** Locomotives or motor railcars in general or characterised by the types of motive power plant used

**B61C1/00** Steam locomotives or railcars (engines F01; characterised by power transmissions [B61C9/00](#); boilers F22B)

B61C1/02 . of articulated construction; with two or more engines ([appliances of booster engines B61C15/02](#))

B61C1/04 . with steam accumulators ([steam accumulators F01K](#))

B61C1/06 . Streamlining ([of coachwork B61D](#))

B61C1/08 . Arrangement or disposition of combustion apparatus or accessories therefor

B61C1/10 . Arrangement or disposition of steam generators

B61C1/12 . Arrangement or disposition of condensers

B61C1/14 . Arrangement or disposition of exhaust apparatus

**B61C3/00** Electric locomotives or railcars (characterised by power transmission [B61C9/00](#); electrical features [B60L](#); [H02](#))

B61C3/02 . with electric accumulators

**B61C5/00** Locomotives or motor railcars with IC engines or gas turbines (characterised by power transmission [B61C9/00](#); engines F02)

B61C5/02 . Arrangement or disposition of intakes and apparatus for supplying, circulating, and filtering air for combustion and engine-cooling purposes

B61C5/04 . Arrangement or disposition of exhaust apparatus

**B61C7/00** Other locomotives or motor railcars

- B61C7/02 . Locomotives or motor railcars with pneumatic accumulators
- B61C7/04 . Locomotives or motor railcars with two or more different kinds or types of engine, e.g. steam and IC engines
- B61C8/00 Filling stations for steam- or pneumatic-accumulator locomotives or motor railcars**
- B61C9/00 Locomotives or motor railcars characterised by the type of transmission system used; Transmission systems specially adapted for locomotives or motor railcars (machine elements F16)**
- B61C9/02 . Transmission systems in or for locomotives or motor railcars with reciprocating piston steam engines
- B61C9/04 . . consisting of cranked axles and coupling rods
- B61C9/06 . . having toothed, chain, friction, or belt gearing
- B61C9/08 . Transmission systems in or for locomotives or motor railcars with IC reciprocating piston engines
- B61C9/10 . . mechanical ([combined with hydraulic gearing B61C9/14](#))
- B61C9/12 . . . with change-speed gearing
- B61C9/14 . . hydraulic, including combinations with mechanical gearing
- B61C9/16 . . . using gearing of the hydrostatic type
- B61C9/18 . . . using gearing of the hydrokinetic type
- B61C9/20 . . . . with mechanical change-speed gearing
- B61C9/22 . . pneumatic
- B61C9/24 . . electric ([B61C9/38 takes precedence](#))
- B61C9/26 . . with transmission shafts at an angle to the driving axles
- B61C9/28 . Transmission systems in or for locomotives or motor railcars with rotary prime movers, e.g. turbines
- B61C9/30 . . mechanical ([combined with hydraulic gearing B61C9/34](#))
- B61C9/32 . . . with change-speed gearing
- B61C9/34 . . hydraulic, including combinations with mechanical gearing
- B61C9/36 . . electric ([B61C9/38 takes precedence](#))
- B61C9/38 . Transmission systems in or for locomotives or motor railcars with electric motor propulsion ([electrical features B60L](#))
- B61C9/40 . . with cranked axles and coupling rods
- B61C9/42 . . hydraulic
- B61C9/44 . . with hollow transmission shaft concentric with wheel axis
- B61C9/46 . . with motors forming parts of wheels
- B61C9/48 . . with motors supported on vehicle frames and driving axles, e.g. axle or nose suspension
- B61C9/50 . . . in bogies
- B61C9/52 . . with transmission shafts at an angle to the driving axles

**Guide heading:** **Locomotives or motor railcars characterised by the type of means applying the tractive effort, or by their application to special railway systems or purposes**

**B61C11/00** **Locomotives or motor railcars characterised by the type of means applying the tractive effort; Arrangement or disposition of running gear other than normal driving wheel** (constructions wheels [B60B](#))

**B61C11/00B** . [N: tractive effort applied by a transported road vehicle (railway wagons or vans adapted for carrying vehicles in general [B61D3/18](#); vehicles for use both on rail and road, e.g. with rail and road wheels on the same axle [B60F](#))]

**B61C11/02** . tractive effort applied to cables or chains

**B61C11/04** . tractive effort applied to racks

**B61C11/06** . tractive effort applied or supplied by aerodynamic force or fluid reaction, e.g. air-screws and jet or rocket propulsion

**B61C13/00** **Locomotives or motor railcars characterised by their application to special systems or purposes** ([B61C11/00](#) takes precedence; self-propelled scaffold cars, break-down cranes, inspection trolleys [B61D15/00](#); general design of track recording vehicles [B61K9/00](#))

**B61C13/02** . for towing or transporting ships or for like special purposes

**B61C13/04** . for elevated railways with rigid rails ([B61C13/08](#) takes precedence)

**B61C13/06** . for railways with suspended flexible tracks, i.e. rope railways

**B61C13/08** . for saddle or like balanced type railways

**Guide heading:** **Details or accessories not otherwise provided for**

**B61C15/00** **Maintaining or augmenting the starting or braking power by auxiliary devices and measures; Preventing wheel slippage; Controlling distribution of tractive effort between driving wheels** (propelling locomotives or motor railcars by special means [B61C11/00](#); driving wheels with non-slipping devices [B60B](#); brakes [B61H](#); wetting or lubricating rails [B61K](#))

**B61C15/02** . by auxiliary driving wheels; by temporary coupling or use of fly wheels or booster engines

**B61C15/04** . by controlling wheel pressure, e.g. by movable weights or heavy parts or by magnetic devices (magnetic brakes [B61H](#))

**B61C15/04B** . . [N: Specially adapted for tunnel systems vehicles e.g. with pressure increasing arrangements]

**B61C15/06** . . by displacing fuel, ballast, or the like

**B61C15/08** . Preventing wheel slippage (adjusting wheel-braking force to prevent wheel slippage [B60T8/00](#); [N: removing undesirable matter from the permanent way of railways

[E01H8/00](#))

- B61C15/08B . . [N: by dispersion of a fluid, e.g. containing chemicals]
- B61C15/10 . . by depositing sand or like friction increasing materials (for vehicles in general [B60B](#); combined control of sanding apparatus and brakes [B61H](#))
- B61C15/10B . . . [N: with sanding equipment of mechanical or fluid type, e.g. by means of steam]
- B61C15/10C . . . [N: with gravity activated sanding equipment]
- B61C15/10D . . . [N: with electrically or electromagnetically controlled sanding equipment]
- B61C15/12 . . by reducing the driving power
  
- B61C15/14 . controlling distribution of tractive effort between driving wheels

**B61C17/00****Arrangement or disposition of parts; Details or accessories not otherwise provided for; Use of control gear and control systems**

- B61C17/02 . Bunkers; Tanks; Tenders ([coachwork B61D](#)); Water or fuel pick-up or scoop apparatus; Water or fuel supply fittings ([track-side installations, e.g. bunkers, tanks, for filling locomotives with sand or water B61K11/00](#))
- B61C17/04 . Arrangement or disposition of driving cabins, footplates or engine rooms; Ventilation thereof ([driving cabins and accessories B61D](#))
- B61C17/06 . Power storing devices
- B61C17/08 . Lubrication systems ([in general F16N](#))
- B61C17/10 . Connecting-rods for driving wheels; Arrangements of their bearings ([connection-rods or bearings, in general F16C7/00, B61C9/04](#))
- B61C17/12 . Control gear; Arrangements for controlling locomotives from remote points in the train or when operating in multiple units ([control from points outside the train B61L3/00](#); [fluid-actuated telemotors, servomotors F15B](#); [control devices in general G05](#))