

ECLA**EUROPEAN CLASSIFICATION****B60D****VEHICLE CONNECTIONS** (components of brake systems [B60T17/04](#))**Note**

Attention is drawn to the note following the class [B60](#)

B60D1/00

Traction couplings; Hitches; Draw-gear; Towing devices (devices specially adapted for connection between tractors and agricultural machines or implements [A01B59/00](#); fifth-wheel couplings [B62D](#))

- B60D1/01 . Traction couplings or hitches characterised by their type
- B60D1/01B . . [N: Fifth wheel couplings] [\[N1204\]](#)
- B60D1/02 . . Bolt or shackle-type couplings
- B60D1/02B . . . [N: comprising release or locking lever pins] [\[N1204\]](#)
- B60D1/04 . . Hook or hook-and-hasps couplings
- B60D1/06 . . Ball-and-socket hitches [N: e.g. constructional details, auxiliary devices, their arrangement on the vehicle]
- B60D1/06B . . . [\[N: characterised by the hitch mechanism\]](#)
- B60D1/07 . . Multi-hitch devices, i.e. comprising several hitches of the same or of a different type; Hitch-adaptors, i.e. for converting hitches from one type to another
- B60D1/07B . . . [N: Hitch-adaptors] [\[N1204\]](#)
- B60D1/14 . Draw-gear or towing devices characterised by their type
- B60D1/14B . . [\[N: Arrangements or frames adapted to allow the connection of trailers to tractor three point hitches \(coupling of multipurpose tractors with equipment \[B62D49/06E\]\(#\)\)\]](#)
- B60D1/14C . . [\[N: characterised by the mounting of the draw-gear on the towed vehicle \(\[B60D1/18D\]\(#\) takes precedence\)\]](#) [\[C1207\]](#)
- B60D1/145 . . consisting of an elongated single bar or tube
- B60D1/155 . . . comprising telescopic or foldable parts
- B60D1/167 . . consisting of articulated or rigidly assembled bars or tubes forming a V-, Y-, or U-shaped draw gear ([B60D1/173](#) takes precedence)
- B60D1/167B . . . [N: comprising extendable, retractable or foldable members] [\[N1204\]](#)
- B60D1/173 . . consisting of at least two bars which are not connected or articulated to each other
- B60D1/18 . . Tow ropes, chains or the like
- B60D1/18B . . . [\[N: comprising resilient members\]](#)
- B60D1/18C . . . [\[N: comprising a cable or chain winding device \(\[B60D1/38\]\(#\) takes precedence\)\]](#)
- B60D1/18D . . . [\[N: characterised by the connection to the towing vehicle or to the trailer\]](#)
- B60D1/24 . characterised by arrangements for particular functions
- B60D1/24B . . [N: for suppressing noise generation] [\[N1204\]](#)
- B60D1/24D . . [N: for supporting braking actions, e.g. braking means integrated with hitches; Braking sensors] [\[N1204\]](#)
- B60D1/24F . . [N: for protection in case of crash, collision, impact, or the like] [\[N1204\]](#)
- B60D1/24F2 . . . [N: involving weakened zones in the hitches] [\[N1204\]](#)

B60D1/24H	. . [N: for facilitating push back or parking of trailers] [N1204]
B60D1/24J	. . [N: for actuating the hitch by powered means] [N1204]
B60D1/24L	. . [N: for improving weight distribution] [N1204]
B60D1/24N	. . [N: for measuring, indicating or displaying the weight] [N1204]
B60D1/24P	. . [N: for damping in the pulling direction and being integrated with the hitch, e.g. resilient dampers integrated with the hitch] [N1204]
B60D1/26	. . for remote control, e.g. for releasing
B60D1/28	. . for preventing unwanted disengagement, e.g. safety appliances
B60D1/30	. . for sway control, [N: e.g. stabilising or anti-fishtail devices; Sway alarm means] [C1207]
B60D1/30B	. . . [N: Sway alarm means] [N1204]
B60D1/32	. . . involving damping devices [C0506]
B60D1/32B [N: using fluid dampers (fluid dampers per se F16F9/00)]
B60D1/32C [N: using friction dampers (friction dampers per se F16F7/02 to F16F7/08)] [N0506] [C0506]
B60D1/32D [N: using cables] [N0506]
B60D1/34	. . . involving springs
B60D1/34B [N: the springs being of the bar or leaf type (torsion bars per se F16F1/14, leaf springs per se F16F1/18)]
B60D1/36	. . for facilitating connection, e.g. hitch catchers [N: , visual guide means, signalling aids (B60D1/46B takes precedence; vehicle signalling in general B60Q; optical arrangements specially adapted for viewing trailer-hitches B60R1/00G2)]
B60D1/36B	. . . [N: Hitch guiding or catching elements, e.g. V-shaped plates partially surrounding a coupling member for guiding the other coupling member]
B60D1/36B2 [N: comprising braking means] [N1204]
B60D1/38	. . . involving auxiliary cables for drawing the trailer to the tractor before coupling
B60D1/40	. . . involving a temporarily extensible or alignable member (B60D1/38 takes precedence)
B60D1/42	. . for being adjustable
B60D1/44	. . . horizontally
B60D1/46	. . . vertically
B60D1/46B [N: comprising a lifting mechanism, e.g. for coupling while lifting]
B60D1/48	. characterised by the mounting
B60D1/48B	. . [N: adapted for being mounted to the front and back of trailers, carts, trolleys, or the like to form a train] [N1204]
B60D1/48D	. . [N: adapted for being mounted to the side of a vehicle] [N1204]
B60D1/48F	. . [N: mounted by means of transversal members attached to the frame of a vehicle] [N1204]
B60D1/48H	. . [N: adapted for being mounted to the wheel axle of the vehicle] [N1204]
B60D1/48J	. . [N: mounted directly to the chassis of the towing vehicle] [N1204]
B60D1/50	. . resiliently mounted (B60D1/30 takes precedence) [N: (B60D1/18B takes precedence; springs or dampers per se F16F)]
B60D1/52	. . removably mounted (B60D1/56 takes precedence)
B60D1/54	. . collapsible or retractable when not in use, e.g. hide-away hitches (B60D1/52 takes precedence)

B60D1/56	. . . securing to the vehicle bumper
B60D1/56B	. . . [N: having an eyelet] [N1204]
B60D1/58	. Auxiliary devices
B60D1/58B	. . [N: Holding down means, e.g. holding down retainers] [N1204]
B60D1/58D	. . [N: Lubrication means] [N1204]
B60D1/60	. . Covers, caps or guards [N: e.g. comprising anti-theft devices]
B60D1/60B	. . . [N: Protection caps] [N1204]
B60D1/62	. . involving supply lines, electric circuits, or the like
B60D1/64	. . . Couplings or joints therefor
B60D1/66	. . Props
B60D1/66B	. . . [N: comprising supporting wheels, e.g. dollies] [N1204]
B60D3/00	Fittings to facilitate pushing (B60D1/00 takes precedence; vehicle bumpers B60R19/02 ; steering arrangements for backing a normally-drawn trailer B62D13/06)
B60D5/00	Gangways for coupled vehicles, e.g. of concertina type
B60D5/00B	. [N: Bellows for interconnecting vehicle parts] [N1204]
B60D5/00D	. [N: Passages between articulated vehicles, e.g. bridges or rotating plates] [N1204]
B60D7/00	Other connections