

ECLA**EUROPEAN CLASSIFICATION****B26D****CUTTING; DETAILS COMMON TO MACHINES FOR PERFORATING, PUNCHING, CUTTING-OUT, STAMPING-OUT OR SEVERING**

(soil-working A01B; for growing crops or plants A01D, G; for fodder or straw A01F; for bulk butter A01J; for dough A21C; slaughtering A22B; for tobacco, cigars or cigarettes A24; marking-out, perforating or making buttonholes [A41H25/00](#); manufacturing footwear A43D; brushmaking A46D; surgery A61B; disintegrating, mincing or shredding in general B02C; cutting wire, making pins or nails B21F, G; of the kind used for metal B23; cutting by abrasive fluid jets [B24C5/02](#); hand-held cutting tools B26B; perforating, cutting-out, stamping-out or punching, or severing by means other than cutting B26F; for wood B27; for stone B28D; working of plastics or substances in a plastic state B29; making boxes, cartons, envelopes or bags, of paper or similarly worked materials, e.g. metal foil, B31B; article or web delivery apparatus incorporating cutting or line-perforating devices [B65H35/00](#); for leather or upholstery B68; C14B; for glass C03B; making matches C06F; for peat C10F; for sugar C13H; for textile materials D06H; civil engineering, building, mining, see Section E; for light guides [G02B6/25](#); cutting processed photographic material [G03D15/04](#) [C9608]

Notes

1. This subclass covers:
 - cutting non-metallic sheet material and metal foil in general;
 - cutting other forms of non-metallic material not otherwise provided for;
 - features specific to machines for cutting, perforating, punching, cutting-out, stamping-out and severing by means other than cutting, which relate to a requirement or problem of a nature which is not peculiar to a machine for these purposes, that is, details of or arrangements for operating or controlling such machines, although the realisation of such features may differ according to the kind of machine concerned. This subclass covers such features in general even if the feature in any particular case is to some extent peculiar to, or is claimed only for, a machine designed for perforating, punching, cutting-out, stamping-out, or for severing other than by cutting.
2. If the details or arrangements have no essential features specific to cutting, perforating, punching, cutting-out, stamping-out or severing machines, the more general classes, e.g. F16, take precedence.
3. In this subclass, in groups [B26D5/00](#) and [B26D7/00](#), the following term is used with the meaning indicated:
 - "cutting" includes cutting-out, stamping-out, punching, perforating, and severing by means other than cutting.

B26D1/00

Cutting through work characterised by the nature or movement of the cutting member [N: or particular materials not otherwise provided for]; Apparatus or machines therefor; Cutting members therefor

B26D1/00C

. [N: Cutting members therefor]

- B26D1/01 . involving a cutting member which does not travel with the work
- B26D1/01B . . [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/02 . . having a stationary cutting member ([B26D1/547](#) takes precedence)
- B26D1/02B . . . [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/03 . . . with a plurality of cutting members
- B26D1/03B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/04 . . having a linearly-movable cutting member ([B26D1/46](#), [B26D1/547](#) take precedence)
- B26D1/04B . . . [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/06 . . . wherein the cutting member reciprocates ([cup or like cutting members B26D1/44](#))
- B26D1/06B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/08 of the guillotine type
- B26D1/08B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/09 with a plurality of cutting members
- B26D1/09B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/10 in, or substantially in, a direction parallel to the cutting edge
- B26D1/10B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/11 with a plurality of cutting members
- B26D1/11B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/12 . . having a cutting member moving about an axis ([B26D1/547](#) takes precedence; [cup or like cutting members B26D1/44](#))
- B26D1/12B . . . [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/14 . . . with a circular cutting member, e.g. disc cutter
- B26D1/14B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/143 rotating about a stationary axis ([B26D1/20](#) to [B26D1/24](#) take precedence)
- B26D1/143B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/147 with horizontal cutting member
- B26D1/147B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/15 with vertical cutting member
- B26D1/15B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/153 with inclined cutting member
- B26D1/153B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/157 rotating about a movable axis ([B26D1/20](#) to [B26D1/24](#) take precedence)
- B26D1/157B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/16 mounted on a movable arm or the like
- B26D1/16B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/18 mounted on a movable carriage
- B26D1/18B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/20 coacting with a fixed member
- B26D1/20B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/22 coacting with a movable member, e.g. a roller ([B26D1/24](#) takes precedence)

B26D1/22B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/24	. . . . .	coacting with another disc cutter
B26D1/24B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/25	. . . . .	with a non-circular cutting member
B26D1/25B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/26	. . . . .	moving about an axis substantially perpendicular to the line of cut
B26D1/26B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/28	. . . . .	and rotating continuously in one direction during cutting
B26D1/28B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/29	. . . . .	with cutting member mounted in the plane of a rotating disc, e.g. for slicing beans
B26D1/29B	. . . . .	{7 dots} [N: for thin material, e.g. for sheets, strips or the like]
B26D1/30	. . . . .	with limited pivotal movement to effect cut
B26D1/30B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/34	. . . . .	moving about an axis parallel to the line of cut
B26D1/34B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/36	. . . . .	and rotating continuously in one direction during cutting, e.g. mounted on a rotary cylinder (for flying cutting B26D1/62)
B26D1/36B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/38	. . . . .	and coacting with a fixed blade or other fixed member
B26D1/38B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/40	. . . . .	and coacting with a rotary member
B26D1/40B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/42	. . . . .	and slidably mounted in a rotary member
B26D1/42B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/43	. . . . .	moving about another axis, e.g. mounted on the surface of a cone or curved body
B26D1/43B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/44	. . . . .	having a cup or like cutting member
B26D1/44B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/45	. . . . .	having a cutting member the movement of which is not covered by any preceding group
B26D1/45B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/46	. . . . .	having an endless band-knife or the like
B26D1/46B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/48	. . . . .	with tensioning means
B26D1/48B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/50	. . . . .	with a plurality of band-knives or the like
B26D1/50B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/52	. . . . .	having adjustable spacing between knives
B26D1/52B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]
B26D1/54	. . . . .	Guides for band-knives or the like
B26D1/54B	. . . . .	[N: for thin material, e.g. for sheets, strips or the like]

- B26D1/547 . . . having a wire-like cutting member ([endless wire B26D1/46](#); [severing using a heated wire B26F3/12](#))
- B26D1/547B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/553 with a plurality of wire-like cutting members
- B26D1/553B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/56 . . . involving a cutting member which travels with the work [N: otherwise than in the direction of the cut] i.e. flying cutter ([flying shears for metal B23D25/00](#); [flying saws for metal B23D45/18](#))
- B26D1/56B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/58 . . . and is mounted on a movable arm or the like [N: ([for metal B23D25/06](#))] [C9611]
- B26D1/58B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/60 . . . and is mounted on a movable carriage
- B26D1/60B [N: for thin material, e.g. for sheets, strips or the like]
- B26D1/62 . . . and is rotating about an axis parallel to the line of cut, e.g. mounted on a rotary cylinder
- B26D1/62B [N: for thin material, e.g. for sheets, strips or the like]

B26D3/00 Cutting work characterised by the nature of the cut made; Apparatus therefor

- B26D3/00B . . . [N: Cutting tubes longitudinally]
- B26D3/00C . . . [N: specially adapted for cutting rubber] [N1110]
- B26D3/00C2 [N: for cutting used tyres] [N1110]
- B26D3/00D . . . [N: specially adapted for cutting blocs of plastic material] [N1110]
- B26D3/00D2 [N: by sliding] [N1110]
- B26D3/02 . . . Beveling
- B26D3/06 . . . Grooving involving removal of material from the surface of the work
- B26D3/06B [N: On sheet material]
- B26D3/08 . . . Making a superficial cut in the surface of the work without removal of material, e.g. scoring, incising
- B26D3/08B [N: On sheet material]
- B26D3/10 . . . Making cuts of other than simple rectilinear form ([cutting-out B26F](#))
- B26D3/11 to obtain pieces of spiral or helical form
- B26D3/12 . . . Slitting marginal portions of the work, i.e. forming cuts, without removal of material, at an angle, e.g. a right angle, to the edge of the work
- B26D3/14 . . . Forming notches in marginal portion of work by cutting ([by punching B26F1/12](#))
- B26D3/16 . . . Cutting rods or tubes transversely [N: ([cutting tubes longitudinally B26D3/00B](#))] [N: [Note: B26D3/16B takes precedence over groups B26D3/16C to B26D3/16G2](#)]
- B26D3/16B [N: for obtaining more than one product at a time]

- B26D3/16C . . [N: cutting tubes obliquely] [C9608]
- B26D3/16D . . [N: Cutting tubes from the inside]
- B26D3/16E . . [N: characterised by means for supporting the tube from the inside]
- B26D3/16E2 . . . [N: by fluid under pressure]
- B26D3/16F . . [N: Trimming tube-ends]
- B26D3/16G . . [N: Cutting tubes having a non-circular cross-section]
- B26D3/16G2 . . . [N: flattened tubes]
- B26D3/16H . . [N: Hand held tube cutters]

- B26D3/18 . to obtain cubes or the like (ice harvesting [F25C5/02](#))
- B26D3/18B . . [N: Grid like cutters]
- B26D3/20 . . using reciprocating knives
- B26D3/22 . . using rotating knives
- B26D3/22B . . . [N: with adjustable knives]

- B26D3/24 . to obtain segments other than slices, e.g. cutting pies
- B26D3/24B . . [N: having means to change the number of equal segments e.g. for pies]
- B26D3/26 . . specially adapted for cutting fruit or vegetables, e.g. for onions

- B26D3/28 . Splitting layers from work; Mutually separating layers by cutting (B26D3/30 takes precedence; Recovery of plastics or other constituents of waste material containing plastics B29B17/00) [C0707]
- B26D3/28B . . [N: the work being simultaneously deformed [N: by the application of pressure to obtain profiled workpieces] [C0707]
- B26D3/28C . . [N: by peeling-off]
- B26D3/28E . . [N: Household devices therefor] [N0707]

- B26D3/30 . Halving devices, e.g. for halving buns

- B26D5/00** **Arrangements for operating and controlling machines or devices for cutting, cutting-out, stamping-out, punching, perforating, or severing by means other than cutting**

- B26D5/00B . [N: Computer numerical control means] [N1110]
- B26D5/00C . [N: Control means comprising cameras, vision or image processing systems] [N1110]

- B26D5/02 . Means for moving the cutting member into its operative position for cutting
- B26D5/04 . . by fluid pressure
- B26D5/06 . . by electrical means

- B26D5/08 . Means for actuating the cutting member to effect the cut
- B26D5/08B . . [N: Rack-and-pinion means] [N1110]
- B26D5/08C . . [N: Electric, magnetic, piezo-electric, electro-magnetic means] [N1110]
- B26D5/10 . . Hand or foot actuated means
- B26D5/12 . . Fluid-pressure means

- B26D5/14 . . Crank and pin means
- B26D5/16 . . Cam means
- B26D5/18 . . Toggle-link means ([B26D5/10](#) to [B26D5/16](#) take precedence)

- B26D5/20 . with interrelated action between the cutting member and work feed
- B26D5/22 . . having the cutting member and work feed mechanically connected
- B26D5/24 . . . including a metering device
- B26D5/26 . . wherein control means on the work feed means renders the cutting member operative
- B26D5/28 . . . the control means being responsive to presence or absence of work
- B26D5/30 . . having the cutting member controlled by scanning a record carrier
- B26D5/32 . . . with the record carrier formed by the work itself
- B26D5/34 . . . scanning being effected by a photo-sensitive device
- B26D5/36 . . . scanning being effected by magnetic means

- B26D5/38 . with means operable by the moving work to initiate the cutting action
- B26D5/40 . . including a metering device

- B26D5/42 . with interrelated action between work feed and clamp ([work clamping arrangements B26D7/02](#))

- B26D7/00** **Details of apparatus for cutting, cutting-out, stamping-out, punching, perforating, or severing by means other than cutting (cutters [B26D1/00](#); arrangements for guiding hand cutting tools [B26B29/06](#); punching tools or dies, cutting-out knives or dies [B26F](#))**

- B26D7/00B . [N: Means for guiding the cutter (for hand knives [B26B29/06](#); for band-knives [B26D1/54](#))] [C9612]

- B26D7/01 . Means for holding or positioning work
- B26D7/01C . . [N: for sheet material or piles of sheets ([B26D7/01F](#) and [B26D7/02](#) take precedence)]
- B26D7/01C1 . . . [N: Back gauges (for metal shearing machines [B23D33/10](#))] [N9611]
- B26D7/01F . . [N: Holding the work by suction]
- B26D7/02 . . with clamping means [N: ([B26D7/01F](#) takes precedence)]
- B26D7/02B . . . [N: acting upon planar surfaces ([B26D7/04](#) takes precedence)] [N9611]
- B26D7/04 . . . providing adjustable clamping pressure

- B26D7/06 . Arrangements for feeding or delivering work of other than sheet, web, or filamentary form ([feeding or discharging sheets, webs, or filaments B65H](#))
- B26D7/06B . . [N: by pushers ([B26D7/06C](#), [B26D7/06D](#) and [B26D7/06E](#) take precedence)]
- B26D7/06C . . [N: by carriages, e.g. for slicing machines]
- B26D7/06D . . [N: by endless conveyers, e.g. belts]
- B26D7/06D2 . . . [N: by grippers]
- B26D7/06E . . [N: using chutes, hoppers, magazines]
- B26D7/06F . . [N: by the cutter itself because of its form]
- B26D7/06G . . [N: using fluid, e.g. hydraulic, acting directly on the work]

- B26D7/06H . . [N: by screw or rotary spiral conveyers]
- B26D7/06K . . [N: specially adapted for piles of sheets]
- B26D7/06L . . [N: specially adapted for elongated articles]
- B26D7/06M . . [N: by centrifugal force] [N1110]

- B26D7/08 . Means for treating work or cutting member to facilitate cutting ([tensioning band cutters B26D1/48](#))
- B26D7/08B . . [N: specially adapted for cutting articles composed of at least two different materials, e.g. using cutters of different shapes ([cutting concrete B28B11/14](#))] [C1110]
- B26D7/08C . . [N: by vibrating, e.g. ultrasonically] [N9703]
- B26D7/08D . . [N: by cleaning or lubricating ([sterilizing B26D1/00](#))] [N9710]
- B26D7/10 . . by heating (with Laser B23K26; severing by heating B26F) [C0605]
- B26D7/12 . . by sharpening the cutting member
- B26D7/14 . . by tensioning the work

- B26D7/18 . Means for removing cut-out material or waste
- B26D7/18B . . [N: by pushing out]
- B26D7/18C . . [N: by tearing]
- B26D7/18D . . [N: by pulling out]
- B26D7/18E . . [N: by non mechanical means]
- B26D7/18E2 . . . [N: by air under pressure]
- B26D7/18E3 . . . [N: by suction]

- B26D7/20 . Cutting beds [N: ([B26D7/01F](#) takes precedence; supporting beds for severing by means of a fluid jet [B26F3/00C2](#))]
- B26D7/20B . . [N: Anvil rollers] [N1110]

- B26D7/22 . Safety devices specially adapted for cutting machines ([safety devices in general F16P](#))
- B26D7/22B . . [N: for food slicers] [N1110]
- B26D7/24 . . arranged to disable the operating means for the cutting member

- B26D7/26 . Means for mounting or adjusting the cutting member; Means for adjusting the stroke of the cutting member
- B26D7/26B . . [N: Means for mounting the cutting member]
- B26D7/26B2 . . . [N: for circular cutters]
- B26D7/26C . . [N: Means for adjusting the position of the cutting member]
- B26D7/26C2 . . . [N: for circular cutters]
- B26D7/26C3 . . . [N: for slotting cutters]
- B26D7/26C4 . . . [N: Journals, bearings or supports for positioning rollers or cylinders relatively to each other] [N1110]

- B26D7/27 . Means for performing other operations combined with cutting ([B26D9/00](#) takes precedence)
- B26D7/28 . . for counting the number of cuts or measuring cut lengths ([B26D5/24](#), [B26D5/40](#) take precedence)

- B26D7/30
 - . . for weighing cut product
- B26D7/32
 - . . for conveying or stacking cut product (means for removing cut-out material or waste [B26D7/18](#))
- B26D7/32B
 - . . . [N: stacking the cut product individually separated by separator elements]
[N1110]
- B26D7/34
 - . . for applying a coating, such as butter, to cut product

- B26D9/00**
 - Cutting apparatus combined with punching or perforating apparatus or with dissimilar cutting apparatus**

- B26D11/00**
 - Combinations of several similar cutting apparatus**