

**ECLA****EUROPEAN CLASSIFICATION****A43D****MACHINES, TOOLS, EQUIPMENT OR METHODS FOR MANUFACTURING OR REPAIRING FOOTWEAR****Note**

In this subclass, a method of manufacturing footwear which is dependent on a distinct machine or tool, is classified in the group covering the machine or tool for the manufacture.

**Guide heading:****Measuring devices; Lasts; Tools****A43D1/00****Foot or last measuring devices; Measuring devices for shoe parts**

- A43D1/02 . Foot-measuring devices (measuring the shape, pattern or size of the body for diagnostic purposes [A61B5/103](#), e.g. measuring physical dimensions [A61B5/107](#))
- A43D1/02B . . [N: involving making footprints or permanent moulds of the foot]
- A43D1/02C . . [N: comprising optical means, e.g. mirrors, photo-electric cells, for measuring or inspecting feet]
- A43D1/02D . . [N: Shoe fit indicating devices]
- A43D1/04 . Last-measuring devices
- A43D1/06 . Measuring devices for the inside measure of shoes, for the height of heels, or for the arrangement of heels
- A43D1/08 . Measuring devices for shoe parts

**A43D3/00****Lasts**

- A43D3/02 . Lasts for making or repairing shoes (making of wooden lasts [B27M3/20](#))
- A43D3/02B . . [N: for orthopaedic footwear]
- A43D3/02C . . [N: comprising means, e.g. hooks, for holding, fixing or centering shoe parts on the last]
- A43D3/02D . . [N: Hinge constructions for articulated lasts]
- A43D3/02E . . [N: Lasts with a fore part and heel section relatively slideable to one another along an inclined line of cut]
- A43D3/02F . . [N: Longitudinally expansible lasts]
- A43D3/02G . . [N: Lasts for making rubber footwear or for vulcanizing rubber soles to footwear]
- A43D3/02H . . [N: Lasts with exchangeable parts, e.g. for changing the form or for remodelling]
- A43D3/02I . . [N: Tack retaining means for lasts]
- A43D3/02K . . [N: Constructional features of the heel section]
- A43D3/04 . Pneumatic lasts; Elastic lasts
- A43D3/06 . Wedge locks for lasts

- A43D3/08 . Devices for stretching special parts of shoes
- A43D3/10 . Devices for removing lasts
- A43D3/12 . Devices for inserting or reinserting lasts
- A43D3/14 . Stretching or spreading lasts; Boot-trees; Fillers; Devices for maintaining the shape of the shoe ([drying of footwear A47L23/20](#))
- A43D3/14B . . [N: Devices for heating or drying shoes]
- A43D3/14C . . [N: Boot-trees]
- A43D3/14D . . [N: Devices for sole stretching]
- A43D3/14E . . [N: Shoe-trees]
- A43D3/14E2 . . . [N: spreading the width of a shoe, i.e. laterally expandable] [N0006]
- A43D3/14E2A . . . . [N: adjustable] [N0006]
- A43D3/14E2A1 . . . . . [N: by a screw] [N0006]
- A43D3/14E4 . . . [N: stretching the length of a shoe, i.e. longitudinally expandable] [N0006]
- A43D3/14E4A . . . . [N: adjustable] [N0006]
- A43D3/14E4A1 . . . . . [N: by a screw] [N0006]
- A43D3/14E8 . . . [N: with means for sweaty feet, e.g. with disinfecting or deodorant means ([cleaning of a footwear A47L23/20](#))] [N0406]

**A43D5/00 Hand appliances or hand tools for making or repairing shoes, other than those covered by groups [A43D15/00](#), [A43D19/00](#), [A43D95/00](#), [A43D100/00](#), [A43D117/00](#)**

- A43D5/00A . [N: for heel removing]
- A43D5/02 . Stands for making footwear ([stands for cleaning shoes A47L23/16](#))
- A43D5/04 . Knives ([knives in general B26B](#))
- A43D5/06 . Tools for cutting off the ends of nails or pegs in shoes
- A43D5/08 . Awls ([making B21G](#))
- A43D5/10 . Shoe-peg rasps ([wood rasps B27G17/06](#))
- A43D5/12 . Hand nailing apparatus for shoemaking ([A43D19/02](#) takes precedence; nailing apparatus in general [B25C](#), [B27F](#))
- A43D5/14 . . Hand pincers for stapling

**A43D8/00 Machines for cutting, ornamenting, marking or otherwise working up shoe part blanks ([pulling-over or lasting A43D9/00](#) to [A43D23/00](#); making or fastening soles, heels or welts [A43D25/00](#) to [A43D83/00](#))**

- A43D8/00A . [N: specially adapted for forming upper blanks or leggings by stretching]
- A43D8/00B . [N: for forming shoe stiffeners]

- A43D8/02 . Cutting-out ([cutting in general B26D, B26E](#); of leather articles in general [C14B5/00](#))
- A43D8/04 . . Stamping-out ([A43D8/10](#) takes precedence)
- A43D8/06 . . . Dies therefor
- A43D8/08 . . . Combined stamping-out and bonding, e.g. high frequency electric current being applied between cutting edge and work support
- A43D8/10 . . Cutting-out using pattern grading ([for trimming A43D8/38](#); [pattern grading in making clothes A41H3/00](#); [pattern copying in general B23Q33/00, B23Q35/00](#))
- A43D8/12 . . . Patterns or templates therefor
- A43D8/14 . . . . Applying bindings to pattern edges
- A43D8/16 . Ornamentation ([by creasing A43D8/44](#); of leather in general [C14B1/56](#))
- A43D8/18 . . by punching or perforating ([punching for eyelet-setting A43D100/02](#))
- A43D8/20 . . . Dies therefor
- A43D8/22 . . by embossing or printing ([printing per se, stamping per se B41](#))
- A43D8/24 . . . Embossing using heat, e.g. high frequency electric current
- A43D8/26 . Marking for future work ([A43D8/16](#) takes precedence; [printing per se, stamping per se B41](#))
- A43D8/26A . . [N: [Marking buttonhole locations](#)]
- A43D8/28 . . Patterns for drawing cut-outs ([in making clothes A41H3/00](#))
- A43D8/30 . . Charting sheet material for subsequent cutting
- A43D8/32 . Working on edges or margins ([of leather in general C14B1/02, C14B11/00](#))
- A43D8/34 . . by skiving ([A43D8/48](#) takes precedence)
- A43D8/36 . . by trimming the margins of sole blanks ([trimming as an intermediate operation in shoemaking A43D27/00, as a finishing operation in shoemaking A43D87/00](#))
- A43D8/38 . . . by cutting-out, e.g. using templates
- A43D8/40 . . by folding, turning in or over, hammering
- A43D8/42 . . by singeing, contracting, dyeing
- A43D8/44 . Creasing presses ([folding on margins A43D8/40](#))
- A43D8/46 . Splitting ([of leather in general C14B1/02](#))
- A43D8/48 . . combined with skiving
- A43D8/50 . . Combined splitting and trimming of the heel-seat portions of sole blanks ([of soles fixed to shoe bottoms A43D27/04](#))
- A43D8/52 . Flexing ([of leather in general C14B](#))
- A43D8/54 . . by milling
- A43D8/56 . . of sole blanks by slitting

**Guide heading:** **Pulling-over or lasting**

**A43D9/00** **Devices for binding the uppers upon the lasts** ([for the toe ends A43D15/00](#))

**A43D11/00** **Machines for preliminary treatment or assembling of upper-parts, counters, or**

**insoles on their lasts preparatory to the pulling-over or lasting operations;  
Applying or removing protective coverings**

- A43D11/00A . [N: Applying or removing protective coverings]
- A43D11/00B . [N: Devices for temporarily fixing or aligning insoles on lasts]
- A43D11/01 . Machines for applying reinforcement or ornamental straps to the margins of uppers (to soles or insoles A43D43/06) [N0607]
- A43D11/02 . . to the margins thereof [N0607]
- A43D11/03 . . Coating with thermoplastic materials to stiffen the toe or heel portion [N0607]
- A43D11/04 . Machines for seam-pressing or flattening shoe parts, quarters, or the like (on lasted shoes [A43D55/00](#))
- A43D11/06 . Machines for temporary buttoning of shoe parts
- A43D11/08 . Machines for temporary lacing of shoe parts or for cutting-away the lacing strips after lasting
- A43D11/08A . . [N: Lacing machines]
- A43D11/10 . Devices for holding the lacing portions in position during lasting
- A43D11/12 . Machines for forming the toe part or heel part of shoes, with or without use of heat
- A43D11/14 . Devices for treating shoe parts, e.g. stiffeners, with steam or liquid (for soled shoes [A43D95/12](#))
- A43D11/14B . . [N: with means, e.g. transport chains, for continuously transferring the shoe parts through the machines]
  
- A43D13/00** **Machines for pulling-over the uppers when loosely laid upon the last and tacking the toe end**
- A43D13/02 . Devices for locating caps or stiffeners on pulling-over machines
  
- A43D15/00** **Pulling-over or lasting machines for binding the toe end with cord, string, or wire; Machines for lasting with clamps; Lasting machines with sewing devices, also for platform shoes (special sewing machines for leather or shoes [D05B](#))**
  
- A43D17/00** **Pulling-over or lasting machines with oscillating shoe supports**
  
- A43D19/00** **Hand lasting; Lasting pincers**
- A43D19/02 . Tacking or nailing devices for use with lasting pincers
  
- A43D21/00** **Lasting machines**
- A43D21/00B . [N: with lasting strings, stretching straps or the like, for forming the shank portions of

shoes]

- A43D21/00C . [N: with rotating lasting means]
- A43D21/02 . with one single lasting gripper
- A43D21/04 . for lasting the opposite sides of the shoe one after another
- A43D21/06 . for wooden soles ([A43D21/16](#), [A43D21/18](#) take precedence)
- A43D21/08 . with last supports and toe- or heel-embracing wipers movable both horizontally and vertically ([A43D21/16](#) takes precedence)
- A43D21/10 . Bed-lasting machines
- A43D21/12 . with lasting clamps, shoe-shaped clamps, [N: pincers,] wipers, stretching straps or the like for forming the toe or heel parts of the last [N: ([A43D21/16](#), [A43D21/18](#) take precedence)] [C0010]
- A43D21/12C . . [N: with pincers and clamps] [N0010]
- A43D21/12P . . [N: with a plurality of pincers ([A43D21/12C](#) takes precedence)] [N0010]
- A43D21/12W . . [N: with wipers ([A43D21/16](#), [A43D21/18](#) take precedence)] [N0010]
- A43D21/14 . for toe or heel parts, with nailing devices
- A43D21/16 . with lasting pincers [N: and] toe- or heel-embracing wipers [C0010]
- A43D21/16H . . [N: with heel-embracing wipers] [N0010]
- A43D21/16T . . [N: with toe-embracing wipers] [N0010]
- A43D21/18 . with lasting pincers and straight-acting wipers, also for forming the shank portions of shoes

**A43D23/00**      **Single parts for pulling-over or lasting machines** ([nailing devices A43D75/00](#))

- A43D23/02 . Wipers; Sole-pressers; Last-supports; Pincers
- A43D23/02B . . [N: Sole-pressers]
- A43D23/02C . . [N: Last-supports]
- A43D23/02D . . [N: Pincers]
- A43D23/04 . Last-carriers; Shoe-guides
- A43D23/06 . Devices for cutting-off superfluous material on the uppers or linings

**Guide heading:**      **Making or fastening soles, heels or welts, or preparing same for fastening to the shoe; Carrying out other operations subsequent to lasting; Turning** ([sewing D05B](#))

**A43D25/00**      **Devices for gluing shoe parts**

- A43D25/047 . Devices for lasting with adhesives or for gluing together insoles and uppers ([A43D25/18](#), [A43D25/20](#) take precedence)

- A43D25/053 . . with rotating gripping means
- A43D25/06 . Devices for gluing soles on shoe bottoms ([A32D25/18](#), [A43D25/20](#) take precedence)
- A43D25/06A . . [N: Multiple pressing devices in a closed circuit, e.g. rotating multiple pressing devices] [N9811]
- A43D25/06H . . [N: Heel clamps or heel presses for glueing heels to shoe bottoms] [N0010]
- A43D25/07 . . using flexible diaphragm pressing devices
- A43D25/08 . . Welt hold-down devices
- A43D25/10 . . Press-pads or other supports of shoe-gluing presses
- A43D25/12 . Devices for gluing heel-breasts to heels or for gluing coverings on heels ([A43D25/18](#), [A43D25/20](#) take precedence)
- A43D25/12B . . [N: Devices for glueing heel-breasts to heels] [N0010]
- A43D25/12C . . [N: Devices for glueing coverings on heels] [N0010]
- A43D25/14 . Devices for filling the shoe bottom
- A43D25/16 . Devices for making glued platform shoes
- A43D25/18 . Devices for applying adhesives to shoe parts ([A43DF25/20](#) takes precedence; applying liquids or other fluent materials to surfaces in general [B05](#))
- A43D25/18B . . [N: by rollers]
- A43D25/18C . . [N: by nozzles]
- A43D25/18D . . [N: by imprinter plates]
- A43D25/18E . . [N: by dipping]
- A43D25/18F . . [N: by grids]
- A43D25/20 . Arrangements for activating or for accelerating setting of adhesives, e.g. by using heat
- A43D27/00** **Machines for trimming as an intermediate operation** (working on edges or margins, e.g. by trimming, of shoe part blanks [A33D8/32](#); trimming as a finishing operation in shoemaking [A43D87/00](#))
- A43D27/02 . Soles or heels fixed on shoe bottoms (stamps or dies for soles or heel-lifts [C14B](#))
- A43D27/04 . . Heel-end portions of soles fixed on shoe bottoms (on loose soles [A43D8/46](#))
- A43D27/06 . . Heel breast flaps
- A43D29/00** **Machines for making soles from strips of material**
- A43D31/00** **Machines for making or inserting shank stiffeners**
- A43D31/02 . Machines for making shank stiffeners
- A43D31/04 . Machines for inserting shank stiffeners
- A43D33/00** **Machines for assembling lifts for heels** (cutting-out heel lifts [A43D8/02](#))

- A43D33/02
  - . Gauges for heel lifts; Magazines for piling up heel lifts
- A43D33/04
  - . Nailing machines for building the heels from lifts
- A43D33/06
  - . Machines for sorting heel lifts
- A43D35/00** **Presses for shaping pre-existing loose soles, shoe bottoms or soles fixed to shoe bottoms** ([glueing soles on shoe bottoms A43D25/06](#))
- A43D37/00** **Machines for roughening soles or other shoe parts preparatory to gluing**
- A43D37/00B
  - . [N: characterised by constructional details of the rotative tools used therewith]
- A43D39/00** **Machines for making foot-supporting pads or instep-raisers for flat feet**
- A43D43/00** **Machines for making stitch lips, or other preparatory treatment of soles or insoles before fixing same** ([flexing of soles or insoles A43D8/52](#))
- A43D43/02
  - . for making stitch lips by cutting
- A43D43/06
  - . for applying reinforcing materials to insoles; Attachment of ornamental tapes or ribs, e.g. sewing ribs, on soles, or the like
- A43D44/00** **Machines for attaching welts or rands**
- A43D47/00** **Machines for trimming or butting welts fixed on uppers**
- A43D49/00** **Machines for pounding**
- A43D51/00** **Machines for lip-setting**
- A43D53/00** **Machines for trimming-off surplus material along the in seam**
- A43D55/00** **Machines for flattening, pressing, or rubbing the in seams of lasted shoes**
- A43D57/00** **Machines for attaching the welt ends**
- A43D59/00** **Machines for rasping the lasting-margins of shoes which are sewn through**
- A43D61/00** **Machines for nail-pulling, nail-cutting, or nail-detecting**
- A43D63/00** **Machines for carrying-out other finishing operations**

- A43D67/00**                    **Machines for fastening soles or heels by means of screws or screwed wire**
- A43D69/00**                    **Shoe-nailing machines** ([nailing machines in general B27E](#))
- A43D69/00B                    . [\[N: using nails being made from alternative materials, e.g. leather\] \[N0010\]](#)
- A43D69/02                    . using ready-made nails
- A43D69/04                    . with apparatus for separating the nails from a wire or from a strip of metal or other material
- A43D69/06                    . using ready-made staples
- A43D69/08                    . with apparatus for making staples
- A43D69/10                    . using ready-made wooden pegs
- A43D69/12                    . with apparatus for separating the pegs from a strip of wood
- A43D69/14                    . for nailing or stapling the lasted margin onto shoes with wooden soles
- A43D71/00**                    **Elements of nailing machines; Nail-feeding devices**
- A43D71/02                    . Driving mechanisms for moving the horn; Nail-cutting apparatus connected with the horn
- A43D75/00**                    **Nailing devices on pulling-over or lasting machines**
- A43D79/00**                    **Combined heel-pressing and nailing machines**
- A43D81/00**                    **Machines for attaching top-lifts**
- A43D83/00**                    **Heel-presses without nailing apparatus; Machines for pressing single lifts or punching holes for nailing**
- A43D85/00**                    **Machines or apparatus for turning, e.g. for making turn-shoes**
- A43D86/00**                    **Machines for assembling soles or heels onto uppers, not provided for in groups A43D25/00 to A43D83/00, e.g. by welding**
- Guide heading:**            **Performing finishing operations upon uppers, soles, or heels on soled shoes; Making shoe appurtenances**
- A43D87/00**                    **Edge or heel cutters; Machines for trimming the heel breast** ([trimming machines for wooden heels B27M](#); [copying machines B44B](#))

- A43D89/00**                    **Sole-levelling machines with rolls**
- A43D91/00**                    **Stitch-separating or seam-indenting machines**
- A43D93/00**                    **Edge-indenting machines**
- A43D95/00**                    **Shoe-finishing machines**
- A43D95/02                    . Machines for treating or smoothing shoe uppers to remove wrinkles, folds, or the like
- A43D95/04                    . Machines for laying channel-flaps
- A43D95/06                    . Machines for colouring or chemical treatment; Ornamenting the sole bottoms (burnishing [A43D95/20](#))
- A43D95/08                    . Machines or tools for scouring, abrading, or finishing, with or without dust-separating (suction cleaners for removing dust [A47L5/00](#); domestic cleaning of footwear [A47L23/00](#))
- A43D95/10                    . Drying or heating devices for shoes
- A43D95/12                    . Devices for conditioning, tempering, or moistening (preparatory to pulling-over or lasting [A43D11/14](#))
- A43D95/12B                    . . [N: with means, e.g. transport chains, for continuously transferring shoes through the devices]
- A43D95/14                    . incorporating marking, printing, or embossing apparatus (ornamentation of shoe part blanks [A43D8/16](#); printing *per se* , stamping *per se* [B41](#))
- A43D95/16                    . Burnishing tools for shoemaking (in general [B24D](#))
- A43D95/18                    . . Devices for heating the burnishing tools for shoemaking
- A43D95/20                    . Machines for burnishing soles or heels
- A43D95/22                    . Machines for burnishing the edges of soles, with or without devices for edge-indenting
- A43D95/24                    . Machines for buffing soles
- A43D95/26                    . Devices for applying wax
- A43D95/28                    . Machines for attaching protectors to soles or heels
- A43D97/00**                    **Machines for making pulling-on pieces**
- A43D98/00**                    **Machines for making laces (of leather [C14B](#); braidings in general [D04C](#)); Applying fibre or celluloid to ends of laces (making tags from metal sheet [B21D](#); from wire [B21F](#)) [[N0607](#)]**

- A43D100/00**      **Setting or removing eyelets, buttons, lacing-hooks, or elastic gussets in shoes**
- A43D100/02      .    Punching and eyelet-setting machines or tools (for garments in general [A41H37/02](#))
- A43D100/04      .    .    inserting invisible eyelets
- A43D100/06      .    .    inserting two eyelets simultaneously
- A43D100/08      .    Setting buttons on footwear (for garments [A41H37/00](#))
- A43D100/10      .    Machines or tools for setting lacing-hooks in shoes
- A43D100/12      .    Machines for inserting elastic gussets in shoes
- A43D100/14      .    Devices for removing buttons, lacing-hooks, or the like from shoes
- Guide heading:**      **Miscellaneous mechanisms for shoemaking**
- A43D111/00**      **Shoe machines with conveyers for jacked shoes [N: or for shoes or shoe parts] [C0209]**
- A43D111/00C      .    with clamping or gripping mechanism [N0209]
- A43D111/00D      .    with special means to place the shoe or shoe part in the following machine [N0209]
- A43D113/00**      **Machines for making shoes with out-turned flanges of the uppers or for making moccasins**
- A43D115/00**      **Machines for skiving or removing heel-lifts, heels, or soles, or for removing stitches, preparatory to repair**
- A43D117/00**      **Racks for receiving or transporting shoes or shoe parts; Other conveying means**
- A43D119/00**      **Driving or controlling mechanisms of shoe machines; Frames for shoe machines**
- A43D999/00**      **Subject matter not provided for in other groups of this subclass [N0607]**