

**CPC****COOPERATIVE PATENT 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.

**Guidance heading:** Measuring devices; Lasts; Tools

**A43D 1/00****Foot or last measuring devices; Measuring devices for shoe parts**

## A43D 1/02

- . Foot-measuring devices (measuring the shape, pattern or size of the body for diagnostic purposes [A61B 5/103](#), e.g. measuring physical dimensions [A61B 5/107](#))

## A43D 1/022

- .. {involving making footprints or permanent moulds of the foot}

## A43D 1/025

- .. {comprising optical means, e.g. mirrors, photo-electric cells, for measuring or inspecting feet}

## A43D 1/027

- .. {Shoe fit indicating devices}

## A43D 1/04

- . Last-measuring devices

## A43D 1/06

- . Measuring devices for the inside measure of shoes, for the height of heels, or for the arrangement of heels

## A43D 1/08

- . Measuring devices for shoe parts

**A43D 3/00****Lasts**

## A43D 3/02

- . Lasts for making or repairing shoes (making of wooden lasts [B27M 3/20](#))

## A43D 3/021

- .. {for orthopaedic footwear}

## A43D 3/022

- .. {comprising means, e.g. hooks, for holding, fixing or centering shoe parts on the last}

## A43D 3/023

- .. {Hinge constructions for articulated lasts}

## A43D 3/024

- .. {Lasts with a fore part and heel section relatively slideable to one another along an inclined line of cut}

## A43D 3/025

- .. {Longitudinally expansible lasts}

## A43D 3/026

- .. {Lasts for making rubber footwear or for vulcanizing rubber soles to footwear}

## A43D 3/027

- .. {Lasts with exchangeable parts, e.g. for changing the form or for remodelling}

## A43D 3/028

- .. {Tack retaining means for lasts}

## A43D 3/029

- .. {Constructional features of the heel section}

## A43D 3/04

- . Pneumatic lasts; Elastic lasts

## A43D 3/06

- . Wedge locks for lasts

## A43D 3/08

- . Devices for stretching special parts of shoes

## A43D 3/10

- . Devices for removing lasts

## A43D 3/12

- . Devices for inserting or reinserting lasts

- A43D 3/14 . Stretching or spreading lasts; Boot-trees; Fillers; Devices for maintaining the shape of the shoe ([drying of footwear A47L 23/20](#))
- A43D 3/1408 .. {Devices for heating or drying shoes}
- A43D 3/1416 .. {Boot-trees}
- A43D 3/1425 .. {Devices for sole stretching}
- A43D 3/1433 .. {Shoe-trees}
- A43D 3/1441 ... {spreading the width of a shoe, i.e. laterally expandable}
- A43D 3/145 .... {adjustable}
- A43D 3/1458 ..... {by a screw}
- A43D 3/1466 ... {stretching the length of a shoe, i.e. longitudinally expandable}
- A43D 3/1475 .... {adjustable}
- A43D 3/1483 ..... {by a screw}
- A43D 3/1491 ... {with means for sweaty feet, e.g. with disinfecting or deodorant means ([cleaning of a footwear A47L 23/20](#))}

**A43D 5/00**

**Hand appliances or hand tools for making or repairing shoes, other than those covered by groups [A43D 15/00](#), [A43D 19/00](#), [A43D 95/00](#), [A43D 100/00](#), [A43D 117/00](#)**

- A43D 5/005 . {for heel removing}
- A43D 5/02 . Stands for making footwear ([stands for cleaning shoes A47L 23/16](#))
- A43D 5/04 . Knives ([knives in general B26B](#))
- A43D 5/06 . Tools for cutting off the ends of nails or pegs in shoes
- A43D 5/08 . Awls ([making B21G](#))
- A43D 5/10 . Shoe-peg rasps ([wood rasps B27G 17/06](#))
- A43D 5/12 . Hand nailing apparatus for shoemaking ([A43D 19/02](#) takes precedence; [nailing apparatus in general B25C, B27F](#))
- A43D 5/14 .. Hand pincers for stapling

**A43D 8/00**

**Machines for cutting, ornamenting, marking or otherwise working up shoe part blanks** ([pulling-over or lasting A43D 9/00 to A43D 23/00](#); [making or fastening soles, heels or welts A43D 25/00 to A43D 83/00](#))

- A43D 8/003 . {specially adapted for forming upper blanks or leggings by stretching}
- A43D 8/006 . {for forming shoe stiffeners}
- A43D 8/02 . Cutting-out ([cutting in general B26D, B26F](#); [of leather articles in general C14B 5/00](#))
- A43D 8/04 .. Stamping-out ([A43D 8/10](#) takes precedence)
- A43D 8/06 ... Dies therefor
- A43D 8/08 ... Combined stamping-out and bonding, e.g. high frequency electric current being applied between cutting edge and work support
- A43D 8/10 .. Cutting-out using pattern grading ([for trimming A43D 8/38](#); [pattern grading in making clothes A41H 3/00](#); [pattern copying in general B23Q 33/00, B23Q 35/00](#))
- A43D 8/12 ... Patterns or templates therefor
- A43D 8/14 .... Applying bindings to pattern edges
- A43D 8/16 . Ornamentation ([by creasing A43D 8/44](#); [of leather in general C14B 1/56](#))
- A43D 8/18 .. by punching or perforating ([punching for eyelet-setting A43D 100/02](#))

- A43D 8/20 . . . Dies therefor
- A43D 8/22 . . by embossing or printing ([printing per se, stamping per se B41](#))
- A43D 8/24 . . . Embossing using heat, e.g. high frequency electric current
- A43D 8/26 . Marking for future work ([A43D 8/16 takes precedence; printing per se, stamping per se B41](#))
- A43D 8/265 . . {[Marking buttonhole locations](#)}
- A43D 8/28 . . Patterns for drawing cut-outs ([in making clothes A41H 3/00](#))
- A43D 8/30 . . Charting sheet material for subsequent cutting
- A43D 8/32 . Working on edges or margins ([of leather in general C14B 1/02, C14B 11/00](#))
- A43D 8/34 . . by skiving ([A43D 8/48 takes precedence](#))
- A43D 8/36 . . by trimming the margins of sole blanks ([trimming as an intermediate operation in shoemaking A43D 27/00, as a finishing operation in shoemaking A43D 87/00](#))
- A43D 8/38 . . . by cutting-out, e.g. using templates
- A43D 8/40 . . by folding, turning in or over, hammering
- A43D 8/42 . . by singeing, contracting, dyeing
- A43D 8/44 . Creasing presses ([folding on margins A43D 8/40](#))
- A43D 8/46 . Splitting ([of leather in general C14B 1/02](#))
- A43D 8/48 . . combined with skiving
- A43D 8/50 . . Combined splitting and trimming of the heel-seat portions of sole blanks ([of soles fixed to shoe bottoms A43D 27/04](#))
- A43D 8/52 . Flexing ([of leather in general C14B](#))
- A43D 8/54 . . by milling
- A43D 8/56 . . of sole blanks by slitting

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

- A43D 9/00** **Devices for binding the uppers upon the lasts** ([for the toe ends A43D 15/00](#))
- A43D 11/00** **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**
  - . {[Applying or removing protective coverings](#)}
  - . {[Devices for temporarily fixing or aligning insoles on lasts](#)}
  - . Machines for applying reinforcement or ornamental straps to the margins of uppers ([to soles or insoles A43D 43/06](#))
  - . . to the margins thereof
  - . . Coating with thermoplastic materials to stiffen the toe or heel portion
  - . Machines for seam-pressing or flattening shoe parts, quarters, or the like ([on lasted shoes A43D 55/00](#))
  - . Machines for temporary buttoning of shoe parts
  - . Machines for temporary lacing of shoe parts or for cutting-away the lacing strips after lasting
  - . . {[Lacing machines](#)}
- A43D 11/003 . {[Applying or removing protective coverings](#)}
- A43D 11/006 . {[Devices for temporarily fixing or aligning insoles on lasts](#)}
- A43D 11/01 . Machines for applying reinforcement or ornamental straps to the margins of uppers ([to soles or insoles A43D 43/06](#))
- A43D 11/02 . . to the margins thereof
- A43D 11/03 . . Coating with thermoplastic materials to stiffen the toe or heel portion
- A43D 11/04 . Machines for seam-pressing or flattening shoe parts, quarters, or the like ([on lasted shoes A43D 55/00](#))
- A43D 11/06 . Machines for temporary buttoning of shoe parts
- A43D 11/08 . Machines for temporary lacing of shoe parts or for cutting-away the lacing strips after lasting
- A43D 11/085 . . {[Lacing machines](#)}

A43D 11/10	<ul style="list-style-type: none"> <li>Devices for holding the lacing portions in position during lasting</li> </ul>
A43D 11/12	<ul style="list-style-type: none"> <li>Machines for forming the toe part or heel part of shoes, with or without use of heat</li> </ul>
A43D 11/14	<ul style="list-style-type: none"> <li>Devices for treating shoe parts, e.g. stiffeners, with steam or liquid (<a href="#">for soled shoes A43D 95/12</a>)</li> </ul>
A43D 11/145	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{with means, e.g. transport chains, for continuously transferring the shoe parts through the machines}</li> </ul> </li> </ul>
<b>A43D 13/00</b>	<b>Machines for pulling-over the uppers when loosely laid upon the last and tacking the toe end</b>
A43D 13/02	<ul style="list-style-type: none"> <li>Devices for locating caps or stiffeners on pulling-over machines</li> </ul>
<b>A43D 15/00</b>	<b>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 (<a href="#">special sewing machines for leather or shoes D05B</a>)</b>
<b>A43D 17/00</b>	<b>Pulling-over or lasting machines with oscillating shoe supports</b>
<b>A43D 19/00</b>	<b>Hand lasting; Lasting pincers</b>
A43D 19/02	<ul style="list-style-type: none"> <li>Tacking or nailing devices for use with lasting pincers</li> </ul>
<b>A43D 21/00</b>	<b>Lasting machines</b>
A43D 21/003	<ul style="list-style-type: none"> <li>{with lasting strings, stretching straps or the like, for forming the shank portions of shoes}</li> </ul>
A43D 21/006	<ul style="list-style-type: none"> <li>{with rotating lasting means}</li> </ul>
A43D 21/02	<ul style="list-style-type: none"> <li>with one single lasting gripper</li> </ul>
A43D 21/04	<ul style="list-style-type: none"> <li>for lasting the opposite sides of the shoe one after another</li> </ul>
A43D 21/06	<ul style="list-style-type: none"> <li>for wooden soles (<a href="#">A43D 21/16</a>, <a href="#">A43D 21/18</a> take precedence)</li> </ul>
A43D 21/08	<ul style="list-style-type: none"> <li>with last supports and toe- or heel-embracing wipers movable both horizontally and vertically (<a href="#">A43D 21/16</a> takes precedence)</li> </ul>
A43D 21/10	<ul style="list-style-type: none"> <li>Bed-lasting machines</li> </ul>
A43D 21/12	<ul style="list-style-type: none"> <li>with lasting clamps, shoe-shaped clamps, {pincers,} wipers, stretching straps or the like for forming the toe or heel parts of the last ({<a href="#">A43D 21/16</a>, <a href="#">A43D 21/18</a> take precedence})</li> </ul>
A43D 21/122	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{with pincers and clamps}</li> </ul> </li> </ul>
A43D 21/125	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{with a plurality of pincers (<a href="#">A43D 21/122</a> takes precedence)}</li> </ul> </li> </ul>
A43D 21/127	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{with wipers (<a href="#">A43D 21/16</a>, <a href="#">A43D 21/18</a> take precedence)}</li> </ul> </li> </ul>
A43D 21/14	<ul style="list-style-type: none"> <li>for toe or heel parts, with nailing devices</li> </ul>
A43D 21/16	<ul style="list-style-type: none"> <li>with lasting pincers {and} toe- or heel-embracing wipers</li> </ul>
A43D 21/163	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{with heel-embracing wipers}</li> </ul> </li> </ul>
A43D 21/166	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{with toe-embracing wipers}</li> </ul> </li> </ul>
A43D 21/18	<ul style="list-style-type: none"> <li>with lasting pincers and straight-acting wipers, also for forming the shank portions of shoes</li> </ul>
<b>A43D 23/00</b>	<b>Single parts for pulling-over or lasting machines (<a href="#">nailing devices A43D 75/00</a>)</b>
A43D 23/02	<ul style="list-style-type: none"> <li>Wipers; Sole-pressers; Last-supports; Pincers</li> </ul>

- A43D 23/022 .. {Sole-pressers}
- A43D 23/025 .. {Last-supports}
- A43D 23/027 .. {Pincers}
- A43D 23/04 . Last-carriers; Shoe-guides
- A43D 23/06 . Devices for cutting-off superfluous material on the uppers or linings

**Guidance 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](#))

#### **A43D 25/00**

##### **Devices for gluing shoe parts**

- A43D 25/047 . Devices for lasting with adhesives or for gluing together insoles and uppers ([A43D 25/18](#), [A43D 25/20](#) take precedence)
- A43D 25/053 .. with rotating gripping means
- A43D 25/06 . Devices for gluing soles on shoe bottoms ([A43D 25/18](#), [A43D 25/20](#) take precedence)
- A43D 25/063 .. {Multiple pressing devices in a closed circuit, e.g. rotating multiple pressing devices}
- A43D 25/066 .. {Heel clamps or heel presses for glueing heels to shoe bottoms}
- A43D 25/07 .. using flexible diaphragm pressing devices
- A43D 25/08 .. Welt hold-down devices
- A43D 25/10 .. Press-pads or other supports of shoe-gluing presses
- A43D 25/12 . Devices for gluing heel-breasts to heels or for gluing coverings on heels ([A43D 25/18](#), [A43D 25/20](#) take precedence)
- A43D 25/123 .. {Devices for glueing heel-breasts to heels}
- A43D 25/126 .. {Devices for glueing coverings on heels}
- A43D 25/14 . Devices for filling the shoe bottom
- A43D 25/16 . Devices for making glued platform shoes
- A43D 25/18 . Devices for applying adhesives to shoe parts ([A43DF25/20](#) takes precedence; applying liquids or other fluent materials to surfaces in general [B05](#))
- A43D 25/181 .. {by rollers}
- A43D 25/183 .. {by nozzles}
- A43D 25/185 .. {by imprinter plates}
- A43D 25/186 .. {by dipping}
- A43D 25/188 .. {by grids}
- A43D 25/20 . Arrangements for activating or for accelerating setting of adhesives, e.g. by using heat

#### **A43D 27/00**

**Machines for trimming as an intermediate operation** (working on edges or margins, e.g. by trimming, of shoe part blanks [A43D 8/32](#); trimming as a finishing operation in shoemaking [A43D 87/00](#))

- A43D 27/02 . Soles or heels fixed on shoe bottoms (stamps or dies for soles or heel-lifts [C14B](#))
- A43D 27/04 .. Heel-end portions of soles fixed on shoe bottoms (on loose soles [A43D 8/46](#))
- A43D 27/06 .. Heel breast flaps

#### **A43D 29/00**

##### **Machines for making soles from strips of material**

<b>A43D 31/00</b>	<b>Machines for making or inserting shank stiffeners</b>
A43D 31/02	. Machines for making shank stiffeners
A43D 31/04	. Machines for inserting shank stiffeners
<b>A43D 33/00</b>	<b>Machines for assembling lifts for heels</b> ( <a href="#">cutting-out heel lifts A43D 8/02</a> )
A43D 33/02	. Gauges for heel lifts; Magazines for piling up heel lifts
A43D 33/04	. Nailing machines for building the heels from lifts
A43D 33/06	. Machines for sorting heel lifts
<b>A43D 35/00</b>	<b>Presses for shaping pre-existing loose soles, shoe bottoms or soles fixed to shoe bottoms</b> ( <a href="#">glueing soles on shoe bottoms A43D 25/06</a> )
<b>A43D 37/00</b>	<b>Machines for roughening soles or other shoe parts preparatory to gluing</b>
A43D 37/005	. {characterised by constructional details of the rotative tools used therewith}
<b>A43D 39/00</b>	<b>Machines for making foot-supporting pads or instep-raisers for flat feet</b>
<b>A43D 43/00</b>	<b>Machines for making stitch lips, or other preparatory treatment of soles or insoles before fixing same</b> ( <a href="#">flexing of soles or insoles A43D 8/52</a> )
A43D 43/02	. for making stitch lips by cutting
A43D 43/06	. for applying reinforcing materials to insoles; Attachment of ornamental tapes or ribs, e.g. sewing ribs, on soles, or the like
<b>A43D 44/00</b>	<b>Machines for attaching welts or rands</b>
<b>A43D 47/00</b>	<b>Machines for trimming or butting welts fixed on uppers</b>
<b>A43D 49/00</b>	<b>Machines for pounding</b>
<b>A43D 51/00</b>	<b>Machines for lip-setting</b>
<b>A43D 53/00</b>	<b>Machines for trimming-off surplus material along the inseam</b>
<b>A43D 55/00</b>	<b>Machines for flattening, pressing, or rubbing the in seams of lasted shoes</b>
<b>A43D 57/00</b>	<b>Machines for attaching the welt ends</b>
<b>A43D 59/00</b>	<b>Machines for rasping the lasting-margins of shoes which are sewn through</b>
<b>A43D 61/00</b>	<b>Machines for nail-pulling, nail-cutting, or nail-detecting</b>
<b>A43D 63/00</b>	<b>Machines for carrying-out other finishing operations</b>
<b>A43D 67/00</b>	<b>Machines for fastening soles or heels by means of screws or screwed wire</b>
<b>A43D 69/00</b>	<b>Shoe-nailing machines</b> ( <a href="#">nailing machines in general B27F</a> )
A43D 69/005	. {using nails being made from alternative materials, e.g. leather}

A43D 69/02	<ul style="list-style-type: none"> <li>using ready-made nails</li> </ul>
A43D 69/04	<ul style="list-style-type: none"> <li>with apparatus for separating the nails from a wire or from a strip of metal or other material</li> </ul>
A43D 69/06	<ul style="list-style-type: none"> <li>using ready-made staples</li> </ul>
A43D 69/08	<ul style="list-style-type: none"> <li>with apparatus for making staples</li> </ul>
A43D 69/10	<ul style="list-style-type: none"> <li>using ready-made wooden pegs</li> </ul>
A43D 69/12	<ul style="list-style-type: none"> <li>with apparatus for separating the pegs from a strip of wood</li> </ul>
A43D 69/14	<ul style="list-style-type: none"> <li>for nailing or stapling the lasted margin onto shoes with wooden soles</li> </ul>
<b>A43D 71/00</b>	<b>Elements of nailing machines; Nail-feeding devices</b>
A43D 71/02	<ul style="list-style-type: none"> <li>Driving mechanisms for moving the horn; Nail-cutting apparatus connected with the horn</li> </ul>
<b>A43D 75/00</b>	<b>Nailing devices on pulling-over or lasting machines</b>
<b>A43D 79/00</b>	<b>Combined heel-pressing and nailing machines</b>
<b>A43D 81/00</b>	<b>Machines for attaching top-lifts</b>
<b>A43D 83/00</b>	<b>Heel-presses without nailing apparatus; Machines for pressing single lifts or punching holes for nailing</b>
<b>A43D 85/00</b>	<b>Machines or apparatus for turning, e.g. for making turn-shoes</b>
<b>A43D 86/00</b>	<b>Machines for assembling soles or heels onto uppers, not provided for in groups <a href="#">A43D 25/00</a> to <a href="#">A43D 83/00</a>, e.g. by welding</b>
<b>Guidance heading:</b>	<b><u>Performing finishing operations upon uppers, soles, or heels on soled shoes; Making shoe appurtenances</u></b>
<b>A43D 87/00</b>	<b>Edge or heel cutters; Machines for trimming the heel breast (<a href="#">trimming machines for wooden heels B27M</a>; <a href="#">copying machines B44B</a>)</b>
<b>A43D 89/00</b>	<b>Sole-levelling machines with rolls</b>
<b>A43D 91/00</b>	<b>Stitch-separating or seam-indenting machines</b>
<b>A43D 93/00</b>	<b>Edge-indenting machines</b>
<b>A43D 95/00</b>	<b>Shoe-finishing machines</b>
A43D 95/02	<ul style="list-style-type: none"> <li>Machines for treating or smoothing shoe uppers to remove wrinkles, folds, or the like</li> </ul>
A43D 95/04	<ul style="list-style-type: none"> <li>Machines for laying channel-flaps</li> </ul>
A43D 95/06	<ul style="list-style-type: none"> <li>Machines for colouring or chemical treatment; Ornamenting the sole bottoms (<a href="#">burnishing A43D 95/20</a>)</li> </ul>
A43D 95/08	<ul style="list-style-type: none"> <li>Machines or tools for scouring, abrading, or finishing, with or without dust-separating (<a href="#">suction cleaners for removing dust A47L 5/00</a>; <a href="#">domestic cleaning of footwear A47L 23/00</a>)</li> </ul>



- A43D 95/10 . Drying or heating devices for shoes
- A43D 95/12 . Devices for conditioning, tempering, or moistening ([preparatory to pulling-over or lasting A43D 11/14](#))
- A43D 95/125 . . {with means, e.g. transport chains, for continuously transferring shoes through the devices}
- A43D 95/14 . incorporating marking, printing, or embossing apparatus ([ornamentation of shoe part blanks A43D 8/16](#); [printing per se](#) , [stamping per se B41](#))
- A43D 95/16 . Burnishing tools for shoemaking ([in general B24D](#))
- A43D 95/18 . . Devices for heating the burnishing tools for shoemaking
- A43D 95/20 . Machines for burnishing soles or heels
- A43D 95/22 . Machines for burnishing the edges of soles, with or without devices for edge-indenting
- A43D 95/24 . Machines for buffing soles
- A43D 95/26 . Devices for applying wax
- A43D 95/28 . Machines for attaching protectors to soles or heels

**A43D 97/00      Machines for making pulling-on pieces**

**A43D 98/00      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](#))**

**A43D 100/00      Setting or removing eyelets, buttons, lacing-hooks, or elastic gussets in shoes**

- A43D 100/02 . Punching and eyelet-setting machines or tools ([for garments in general A41H 37/02](#))
- A43D 100/04 . . inserting invisible eyelets
- A43D 100/06 . . inserting two eyelets simultaneously
- A43D 100/08 . Setting buttons on footwear ([for garments A41H 37/00](#))
- A43D 100/10 . Machines or tools for setting lacing-hooks in shoes
- A43D 100/12 . Machines for inserting elastic gussets in shoes
- A43D 100/14 . Devices for removing buttons, lacing-hooks, or the like from shoes

**Guidance heading:      Miscellaneous mechanisms for shoemaking**

**A43D 111/00      Shoe machines with conveyers for jacked shoes {or for shoes or shoe parts}**

- A43D 111/003 . with clamping or gripping mechanism
- A43D 111/006 . with special means to place the shoe or shoe part in the following machine

**A43D 113/00      Machines for making shoes with out-turned flanges of the uppers or for making moccasins**

**A43D 115/00      Machines for skiving or removing heel-lifts, heels, or soles, or for removing stitches, preparatory to repair**

**A43D 117/00      Racks for receiving or transporting shoes or shoe parts; Other conveying means**

**A43D 119/00      Driving or controlling mechanisms of shoe machines; Frames for shoe machines**

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**A43D 2200/00**

**Machines or methods characterised by special features**

A43D 2200/10

. Fully automated machines, i.e. machines working without human intervention

A43D 2200/20

. Machines including a carousel with different working posts around a turning table

A43D 2200/30

. Machines including a magazine, e.g. for feeding blanks, pre-forms or sheets

A43D 2200/40

. Multitool machines, e.g. machines with a plurality of tools or working heads

A43D 2200/50

. Machines using pneumatic means

A43D 2200/60

. Computer aided manufacture of footwear, e.g. CAD or CAM

**A43D 999/00**

**Subject matter not provided for in other groups of this subclass**