

84.48 - Auxiliary machinery for use with machines of heading 84.44, 84.45, 84.46 or 84.47 (for example, dobbies, jacquards, automatic stop motions, shuttle changing mechanisms); parts and accessories suitable for use solely or principally with the machines of this heading or of heading 84.44, 84.45, 84.46 or 84.47 (for example, spindles and spindle flyers, card clothing, combs, extruding nipples, shuttles, healds and heald-frames, hosiery needles).

- Auxiliary machinery for machines of heading 84.44, 84.45, 84.46 or 84.47 :

8448.11 -- Dobbies and Jacquards; card reducing, copying, punching or assembling machines for use therewith

8448.19 -- Other

8448.20 - Parts and accessories of machines of heading 84.44 or of their auxiliary machinery

- Parts and accessories of machines of heading 84.45 or of their auxiliary machinery :

8448.31 -- Card clothing

8448.32 -- Of machines for preparing textile fibres, other than card clothing

8448.33 -- Spindles, spindle flyers, spinning rings and ring travellers

8448.39 -- Other

- Parts and accessories of weaving machines (looms) or of their auxiliary machinery :

8448.42 -- Reeds for looms, healds and heald-frames

8448.49 -- Other

- Parts and accessories of machines of heading 84.47 or of their auxiliary machinery :

8448.51 -- Sinkers, needles and other articles used in forming stitches

8448.59 -- Other

This heading covers :

- (I) All auxiliary machines and apparatus which exercise, either separately or concurrently, a function complementary to those of the machines of heading 84.44, 84.45, 84.46 or 84.47 (in particular spinning, weaving, knitting or embroidery machines). These auxiliary machines may either extend the possibilities of the main machines (as in the case of dobbies and Jacquards), or may perform mechanically a particular job necessary for the proper working of the main machine (as is the case with warp stop motions, weft stop motions, warp knotting machines).

84.48

- (II) Parts of the machines of this heading and also parts of the machines of heading 84.44, 84.45, 84.46 or 84.47 (see the General Explanatory Note to Section XVI).
- (III) Various accessories used with the machines of heading 84.44, 84.45, 84.46 or 84.47 or of this heading; in general, the term "accessories" refers to articles of equipment, not forming an integral part of the machines, which are interchangeable and must be frequently replaced (for example, because they are rapidly worn out, or because different types are necessary for different types of work).

(A) AUXILIARY MACHINERY

This group includes :

- (1) **Auxiliary machines for use with textile spinning machines**, for example, automatic devices which remove fully wound reels and replace them with empty ones, and mobile appliances for setting up rows of empty reels.
- (2) **Warp beam stands or creels**. These hold the warp beams during the sizing process, or during the winding of the warp beam; in certain cases, they hold the warp beam, in the course of weaving.
- (3) **Dobbies and Jacquards**, used to adapt a loom for producing weaves more complicated than it could otherwise execute. Dobbies control the separate lifting of a large number of harnesses, and Jacquards the lifting of individual warp threads. They operate by a number of lags with projecting pegs which form a chain, or in many cases (particularly Jacquards) by a series of suitably perforated cards loosely laced together edge to edge to form a continuous chain. These pegs or a number of needles, certain of which come into play according to the different perforations of the cards, actuate the mechanisms for lifting the warp threads. Similar mechanisms (Verdol machines) are operated with continuous strips of perforated paper.
- (4) **Machines for mounting on Jacquards** to enable certain of the cards to remain in position while more than one weft is inserted. This reduces the number of cards required and increases the speed of weaving.
- (5) **Card lacing machines** for assembling the cards in a loose chain ready for use on the Jacquard machines.
- (6) **Warp stop motions and weft stop motions**. These cause the immediate stopping of the loom in the event of a warp or weft thread breaking; also **bobbin control mechanisms** for ensuring a continuous supply of weft yarn by replenishing the bobbin when necessary. The heading includes apparatus of this kind whether or not operated electrically.
- (7) **Warp tyers**; small machines placed on a loom above the sheet of warp yarns, and used to join them if they break during weaving.

This heading **does not cover** warp tying-in or twisting-in machines of heading 84.45.

- (8) **Leno attachments** which, during weaving, cross over certain of the warp threads to form loops through which weft threads pass. They are used in the manufacture of gauze and other leno fabrics.

- (9) **Swivel shuttle attachments**; these enable a swivel shuttle to be passed between certain warps to produce broché designs.
- (10) **Warp pile motions** which, by a variable motion of the comb, form loops on one or both surfaces of the fabric (Terry fabrics, etc.).
- (11) **Split selvage machines**. When a wide loom is used to produce simultaneously a number of narrow fabrics, these machines produce a leno weave or insert a form of oversewing where the weft threads are to be cut to separate the narrow fabrics.
- (12) **Apparatus incorporating photoelectric cells, which detect faults in fabrics being knitted, yarns being wound on a warping frame, etc.**, and stop the motion of the machine with which they are used as soon as they detect a fault.
- (13) **Automatic spool changers for weaving machines.**
- (14) **Machines for placing thin plates in automatic stop motions.**
- (15) **Warp-protectors** for warpers, warp sizing machines and knitting machines.
- (16) **Bobbin holders.**
- (17) **Screens and beaters (beating wings) for openers and beaters for mechanical stitchers.**
- (18) **Cylinders and drums for mechanical stitchers, cards or combing machines.**
- (19) **Agitators, drums and cylinders for wool degreasing machines or for greasing machines.**
- (20) **Stretching devices** for drawing bench, roving benches or continuous ring threading machines, and cylinders thereof.
- (21) **Mechanical yarn separators** of simple design, for bobbin machines, intended to remove knots and other faults from the yarns.

Certain of the items listed above may be designed to form integral parts of particular looms (Jacquard looms, automatic looms, etc.). When presented separately these are classified in this heading, not as auxiliary machinery, but as parts of the machines of heading 84.44, 84.45, 84.46 or 84.47.

(B) PARTS AND ACCESSORIES

This group includes :

- (1) **Creels** for holding bobbins during warping.
- (2) **Spindles and spindle flyers** for spinning frames.
- (3) **Centrifugal pots** (Topham boxes) (often of plastics) inside which man-made textile yarns are coiled in the form of cakes as they are produced.
- (4) **Combs** for combing machines; **fallers or gills**, i.e., toothed bars used in gill boxes.

- (5) **Card clothing** (including narrow strips known as card fillets), set with their wire teeth, and all-steel card clothing in the form of saw-toothed wire.
- (6) **Ring travellers**, open rings placed on the spinning ring of a spinning frame to provide the twist necessary in forming the yarn.
- (7) **Extruding nipples**, spinnerets, etc., used in extruding man-made filaments, including those of precious metal but **excluding** those of ceramics (**heading 69.09**) or of glass (**heading 70.20**).
- (8) **Thread guides** (but not those of glass or ceramics, see **headings 70.20 and 69.09**, nor those wholly of agate or other precious or semi-precious stones, see **heading 71.16**).
- (9) **Warp beams**, from which the warp yarns are unrolled during weaving.
- (10) **Reeds for looms** (including adjustable expansion combs). These beat up each line of weft against the preceding one as the weaving proceeds.
- (11) **Frames** in which the healds for looms are mounted.
- (12) **Shuttles**, but **excluding** the bobbins on which the yarn is wound.
- (13) **Metallic healds**, either flat or as lengths of two twisted wires, with a control eye through which the warp yarn passes, and **metallic harness cords** which connect heald frames to the lifting mechanism.
The heading **excludes** healds and harness cords of textile yarn or textile cord (**heading 59.11**).
- (14) **Lingoes**, thin metal weights with eyes at their upper ends to be attached to each cord of a loom harness.
- (15) **Needle boards and bottom boards**, i.e., perforated boards (usually of wood or vulcanised fibre) used with Jacquard or similar machines.
- (16) **Jacquard hooks**. Large numbers of these specialised latched hooks are used on Jacquard machines to attach the neck cords of the Jacquard to the harness cords.
- (17) **Needles for knitting machines**, for example, **bearded needles**, including **stiletos and needles for remeshing machines**, **hinged needles** (also called valve or blade needles), equipped with one or more tongues, **grooved needles** the tongue of which is replaced by a mobile slot, **tubular needles**, **crochet needles** for crochet machines.
- (18) **Slides, combs, slide bars, etc.**, for tulle, lace-making and embroidery machines.
- (19) **Sliders** for knitting machines.
- (20) **Drawing sleeves** of plastics.
- (21) **Shuttles for weaving machines (weaving shuttles), embroidery machines and net-making machines.**
- (22) **Plates for knitting machines**, for example, braking plates, forming, lowering, chasing plates, double-edge plates, thread guiding plates, transfer plates, plates for Jacquard stitches. These are articles made of thin plates of steel about 0.1 to 2 mm in thickness with very variable profiles, which assist the needles (generally bearded or hinged needles) to form stitches.

- (23) **Accessories to form stitches**, for example, waves, wave guides, design griffs, stretchers, grooves, pins and push rods.
- (24) **Warping beams, divided beams and beam trays, brakes and regulators of automatic roll beams.**
- (25) **Plates and suspension hooks of blades and teeth for combs.**
- (26) **Tamplers for weaving machines.**
- (27) **Shuttle boxes.**
- (28) **Iron parts used in weaving machines**, for forming a loop, including those with a cutting section.
- (29) **Hooks for crochet machines** (without shuttle).
- (30) **Needle bars for hosiery machines, sliding plates, cams and plates for needles for rectilinear knitting machines, needle cams and needle cylinders for circular knitting machines.**
- (31) **Needles for bobinot tulle machines and hooks for net-making machines.**
- (32) **Embroidery needles and frames for embroidery machines.**
- (33) **Spindles for braiding machines and bobbin machines.**
- (34) **Thread brakes (tensioners) and combs for warpers and mechanical warp sizing machines.**
- (35) **Needles, plates, "knives" and griffs for dobbies or Jacquards.**
- (36) **Magazines (lifting, turning boxes, etc.) for automatic shuttle changers.**
- (37) **Magazines for automatic changers of woof bobbins.**
- (38) **Lamellae (thin plates) for automatic warp-protectors.**

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The heading also **excludes**, *inter alia* :

- (a) Pumps used in the extrusion of man-made fibres (**heading 84.13**).
- (b) Filters used in the extrusion of man-made fibres (**heading 84.21**).
- (c) Needles of a type used on sewing machines (**heading 84.52**).
- (d) Recorded media for controlling Jacquard or similar machines (**heading 85.23**).
- (e) Roving or sliver cans (classified according to their constituent materials).
- (f) Lease rods (simple lengths of wood or metal, used on the loom to limit the beginning of the shed) (classified according to their constituent materials).
- (g) Bobbins, pirns, cops, cones, spools and similar supports (classified according to their constituent materials).