# 25 Braiding, lace-making, knitting, trimmings, tapestry work and net-making

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| **25a** | **Knitting** |
| **25b** | **Lace and braid production** |
| **25c** | **Trimmings** |
| **25d** | **Tapestry: carpet knotting, etc.** |
| **25e** | **Net-making** |

## 25a Knitting

### Flat-knitting machines for weft-knit fabrics

25a-1    Flat knitting machines with one needle row in a horizontal plane: Paget machines

Flat knitting machines with one needle row in a vertical plane: Cotton machines

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| 25a-2/01 | General |
| 25a-2/02 | Drives for the yarn guide bars |
| 25a-2/03 | Knitted lace devices - spring devices |
| 25a-2/04 | Manufacture of colour patterns |
| 25a-2/05 | Narrowing devices |
| 25a-3 | Flat knitting machines with one needle row |
| 25a-4 | Flat knitting machines with two needle rows: rib machines |

Flat knitting machines with two rows: Lamb machines

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| 25a-5/01 | General |
| 25a-5/02 | Manufacture of tubular fabrics |
| 25a-5/03 | Devices for rejecting needles, e.g. Jacquard mechanisms |
| 25a-5/04 | Narrowing, widening and lace devices |
| 25a-6 | Flat knitting machines with three and more needle rows |

### Circular knitting machines for weft-knit fabrics

Circular knitting machines with needles in a horizontal plane

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| 25a-7/01 | General |
| 25a-7/02 | Striping and plating mechanisms |
| 25a-7/03 | Looping and stitch wheels |
| 25a-8 | Circular knitting machines with needles in a vertical plane |

Circular knitting machines with one needle row

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| 25a-9/01 | General |
| 25a-9/02 | Circular knitting machines for the manufacture of specific articles, such as stockings, gloves, etc. |
| 25a-9/03 | Devices for reinforcement and split |
| 25a-9/04 | Colour pattern mechanisms |
| 25a-9/05 | Loop pattern mechanisms |
| 25a-9/06 | Flat knitting, also narrowing and widening of tubular and flat fabrics |
| 25a-9/07 | Gearings for circular knitting machines |
| 25a-9/08 | Hand-operated circular knitting machines and machines for narrow tubular fabrics |
| 25a-10 | Circular knitting machines with several needle rows (double-cylinder machines 25a-12) |

**Knitting machines for purl fabrics**

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| 25a-11 | Flat knitting machines |
| 25a-12 | Circular knitting machines and all double-cylinder machines |

**Special machines for the manufacture of weft-knit fabrics**

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| 25a-13 | Knitting machines operating in the manner of sewing machines |
| 25a-14 | Knitting machines with spiral fabric carrier |

**Knitting machines for warp fabrics**

Flat warp knitting machines

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| 25a-15/01 | General |
| 25a-15/02 | Pattern gear for the back guide bars |
| 25a-15/03 | Pressing devices |
| 25a-15/04 | Warp knitting machines with individually movable needles |
| 25a-15/05 | Manufacture of warp pile |
| 25a-15/06 | Manufacture of filling warp fabrics |
| 25a-15/07 | Milanese warp knitting machines |
| 25a-16 | Circular warp knitting machines |

**Formation of loops and manufacture of knit goods**

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| 25a-17/01 | Knitted goods in general |
| 25a-17/05 | Warp knit fabrics in general |
| 25a-18/01 | Manufacture of stockings |
| 25a-18/05 | Manufacture of other articles |

**Elements of knitting machines**

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|---|---|
| 25a-19/01 | Needles |
| 25a-19/05 | Sinkers |
| 25a-20 | Needle bars and beds |
| 25a-21 | Latch openers |

Cams for knitting machines

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| 25a-22/01 | for flat knitting machines |
| 25a-22/05 | for circular knitting machines |
| 25a-23 | Transfer and stop mechanisms |
| 25a-24 | Welting devices |

Thread guides and thread guiding devices

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|---|---|
| 25a-25/01 | for flat knitting machines |
| 25a-25/05 | for circular knitting machines |

Engaging and disengaging devices

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| 25a-26/01 | for flat knitting machines |
| 25a-26/05 | for circular knitting machines |

Driving devices

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| 25a-26/10 | for flat knitting machines |
| 25a-26/15 | for circular knitting machines |
| 25a-27 | Pattern devices (for weaving 86b, 86h) |

Take-up devices

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| 25a-28/01 | for flat knitting machines |
| 25a-28/05 | for circular knitting machines |
| 25a-29 | Auxiliary devices |

**Miscellaneous**

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| 25a-30/01 | Devices for darning and unravelling of knit goods |

| 25a-30/02 | Devices for the manufacture of loop-like thread connections |
| 25a-31 | Hand knitting implements |

## 25b — Lace and braid production

### Braiding and bobbin lace machines in general

| 25b-1 | Braiding machines with carriers for flat braids |
| 25b-2 | Circular braiding machines with carriers: Barmer type |
| 25b-3/01 | Circular braiding machines with bobbin rows rotating at a constant distance from the braid centre and with shedding by means of controlled thread guides |
| 25b-3/50 | Circular braiding machines with rolling bobbin carriages |
| 25b-4 | Circular braiding machines with bobbin rows rotating at a constant distance from the braid centre and with shedding by opening the threads |
| 25b-5 | Braiding and bobbin lace machines without carrier: lace bobbin and picker connections |
| 25b-6 | Braiding and bobbin lace machines of special construction for flat and circular braids |

### Special apparatus in braiding and lace making machines

| 25b-7 | Braiding and lace machines for making braids with foundation patterns: embroidery patterns |
| 25b-8 | Braiding and lace machines for making patterned braids apart from embroidery patterns, centre-end threads |
| 25b-9 | Braiding and lace machines for making braids with eyelet pattern |
| 25b-10 | Braiding machines for braiding ropes |

### Elements of braiding and bobbin lace machines

| 25b-11 | Individual parts: carriers, frames, bobbin guides, pickers, disks, switches, bobbin locks, thread tensioners, lubrication, etc. |
| 25b-12 | Braiders with vertical bobbins |
| 25b-13 | Braiders and bobbin holders with horizontal bobbins |

#### Devices for engaging and disengaging the bobbins

| 25b-14/01 | Engaging devices |
| 25b-14/02 | Stopping the bobbins from the picker flyer |
| 25b-14/03 | Control forks |
| 25b-14/04 | Slides, switches, locks for stopping the braider, delivery tracks |
| 25b-15 | Take-up and doffing devices |
| 25b-16 | Beaters |
| 25b-17 | Pattern units |
| 25b-18 | Driving and disengaging devices |
| 25b-19 | Finishing devices |

#### Basket making

| 25b-20/01 | Basket-making machines |
| 25b-20/02 | Basket making and hand implements for same |

#### Braids of various kinds

| 25b-21/01 | Braided edging, borders, ribbons, covers, glowing articles, etc. (wickerwork 25b-20/02) |
| 25b-21/02 | Braid material |
| 25b-21/03 | Braided mats |
| 25b-22 | Bobbin lace and foundation fabric |
| 25b-23 | Implements for hand and machine bobbin lace work |

### Bobbinet machines

| 25b-24 | Net machines |
| 25b-25 | Curtain and lace machines |

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| 25b-26 | Elements of bobbinet machines: drives, disengaging devices, fabric take off, pattern devices, bobbin carriages, etc. |
| 25b-27 | Tulle, lace and lace foundation |

## 25c    Trimmings (ribbon weaving 86c)

Covering: plating, thread lapping, wire, paper, etc., also manufacture of thread buttons (covering, wrapping of electric conductors and cables 21c-7/02; horsehair covering machines 76c-28/01; galvanic plating of wire and metal bands 48a-9, 48a-5/58; doubling of wire 49l-5)

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| 25c-1/01 | Covering machines |
| 25c-1/02 | Covering heads |
| 25c-1/05 | Covering of rings, etc. |
| 25c-1/10 | Ribbon wrapping devices |
| 25c-2 | Crocheting, crocheting machines, crochet needles; crochet work and its manufacture |
| 25c-3 | Fringes and their manufacture (fringe making on looms 86c-13/05; etched lace 52b-10/02) |
| 25c-4 | Ornamental cording and manufacture |
| 25c-5 | Ribbons and their manufacture (woven ribbons 86c-1/15, 86c-10; mourning bands 76b) |
| 25c-6 | Strings of beads and their manufacture (ornamental chains 44a-40) |
| 25c-7 | Manufacture of beaded trimmings and beaded goods |
| 25c-8 | Chenille and its manufacture (chenille from chenille raw material 86d-3) |
| 25c-9 | Insertion of ribbons into lace, etc., ribbon inserting needles, application of chenille dots |
| 25c-10 | Miscellaneous trimmings, e.g. thread balls, tassels, ornamental knots |
| 25c-11 | Miscellaneous auxiliary apparatus for the manufacture of trimmings |

## 25d    Tapestry: carpet knotting, etc.

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| 25d-1 | Manufacture of yarn patterns by yarn manipulation (needle embroidery 52b) |

Manufacture of knot work

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| 25d-2/01 | Knot work in general and implements for same |
| 25d-2/02 | Shuttle work, tatting |
| 25d-2/03 | Machine knotting of carpets with the use of finished backing (manufacture of knotted carpets by simultaneous knotting and weaving 86d-2) |

Tapestry apart from knot work

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| 25d-3/01 | Tapestry work |
| 25d-3/02 | Implements for the manufacture of tapestry |
| 25d-3/03 | Foundation fabrics for tapestry |
| 25d-3/04 | Drawing threads out of fabric |

## 25e    Net-making (wire nets 7d)

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| 25e-1 | Nets, also hair nets and their manufacture |

Net-making machines

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| 25e-2/01 | with a single thread |
| 25e-2/02 | with a thread system and a single thread |
| 25e-2/03 | with two thread systems |
| 25e-2/04 | Other machinery and implements for net-making |