# Section XVI Machinery and mechanical appliances; electrical equipment; parts thereof, sound recorders and reproducers, television image and sound recorders and reproducers, and parts and accessories of such articles

### There are important section notes for this part of the tariff:

1. This section does not cover:

(a) transmission or conveyor belts or belting, of plastics of Chapter 39, or of vulcanized rubber (heading 4010); or other articles of a kind used in machinery or mechanical or electrical appliances or for other technical uses, of vulcanized rubber other than hard rubber (heading 4016);

(b) articles of leather or of composition leather (heading 4205) or of furskin (heading 4303), of a kind used in machinery or mechanical appliances or for other technical uses;

(c) bobbins, spools, cops, cones, cores, reels or similar supports, of any material (for example, Chapter 39, 40, 44 or 48 or Section XV);

(d) perforated cards for jacquard or similar machines (for example, Chapter 39 or 48 or Section XV);

(e) transmission or conveyor belts or belting, of textile material (heading 5910) or other articles of textile material for technical uses (heading 5911);

(f) precious or semi-precious stones (natural, synthetic or reconstructed) of headings 7102 to 7104, or articles wholly of such stones of heading 7116, except unmounted worked sapphires and diamonds for styli (heading 8522);

(g) parts of general use, as defined in note 2 to Section XV, of base metal (Section XV), or similar goods of plastics (Chapter 39);

(h) drill pipe (heading 7304);

(ij) endless belts of metal wire or strip (Section XV);

(k) articles of Chapter 82 or 83;

(l) articles of Section XVII;

(m) articles of Chapter 90;

(n) clocks, watches or other articles of Chapter 91;

(o) interchangeable tools of heading 8207 or brushes of a kind used as parts of machines (heading 9603); similar interchangeable tools are to be classified according to the constituent material of their working part (for example, in Chapter 40, 42, 43, 45 or 59 or heading 6804 or 6909);

(p) articles of Chapter 95; or

(q) typewriter or similar ribbons, whether or not on spools or in cartridges (classified according to their constituent material, or in heading 9612 if inked or otherwise prepared for giving impressions), or monopods, bipods, tripods and similar articles, of heading 9620.

2. Subject to note 1 to this section, note 1 to Chapter 84 and to note 1 to Chapter 85, parts of machines (not being parts of the articles of heading 8484, 8544, 8545, 8546 or 8547) are to be classified according to the following rules:

(a) Parts which are goods included in any of the headings of Chapter 84 or 85 (other than headings 8409, 8431, 8448, 8466, 8473, 8487, 8503, 8522, 8529, 8538 and 8548) are in all cases to be classified in their respective headings.

(b) Other parts, if suitable for use solely or principally with a particular kind of machine, or with a number of machines of the same heading (including a machine of heading 8479 or 8543) are to be classified with the machines of that kind or in heading 8409, 8431, 8448, 8466, 8473, 8503, 8522, 8529 or 8538 as appropriate. However, parts which are equally suitable for use principally with the goods of headings 8517 and 8525 to 8528 are to be classified in heading 8517.

(c) All other parts are to be classified in heading 8409, 8431, 8448, 8466, 8473, 8503, 8522, 8529 or 8538 as appropriate or, failing that, in heading 8487 or 8548.

3. Unless the context otherwise requires, composite machines consisting of two or more machines fitted together to form a whole and other machines designed for the purpose of performing two or more complementary or alternative functions are to be classified as if consisting only of that component or as being that machine which performs the principal function.

4. Where a machine (including a combination of machines) consists of individual components (whether separate or interconnected by piping, by transmission devices, by electric cables or by other devices) intended to contribute together to a clearly defined function covered by one of the headings in Chapter 84 or 85, then the whole falls to be classified in the heading appropriate to that function.

5. For the purposes of these notes, the expression ‘machine’ means any machine, machinery, plant, equipment, apparatus or appliance cited in the headings of Chapter 84 or 85.

### Additional notes

1. Tools necessary for the assembly or maintenance of machines are to be classified with those machines if imported with them. Interchangeable tools imported with machines are also to be classified therewith if they form part of the normal equipment of the machines and are normally sold with them.

2. Should the customs so require, the declarant shall produce, in support of his declaration, an illustrated document (for example, instructions, prospectus, a page from a catalogue, a photograph) giving the normal description of the machine, its uses and essential characteristics and, in respect of an unassembled or disassembled machine, an assembly plan and a list of the contents of the various packages.

3. The provisions of general rule 2(a) are also applicable, at the request of the declarant and subject to conditions stipulated by the competent authorities, to machines imported in split consignments.

## Chapter 84 Nuclear Reactors, Boilers, Machinery and Mechanical Appliances; Parts Thereof

### Chapter Notes

1. This chapter does not cover:

(a) millstones, grindstones or other articles of Chapter 68;

(b) machinery or appliances (for example, pumps) of ceramic material and ceramic parts of machinery or appliances of any material (Chapter 69);

(c) laboratory glassware (heading 7017); machinery, appliances or other articles for technical uses or parts thereof, of glass (heading 7019 or 7020);

(d) articles of heading 7321 or 7322 or similar articles of other base metals (Chapters 74 to 76 or 78 to 81);

(e) vacuum cleaners of heading 8508;

(f) electromechanical domestic appliances of heading 8509; digital cameras of heading 8525; or

(g) radiators for the articles of Section XVII; or

(h) hand-operated mechanical floor sweepers, not motorised (heading 9603).

2. Subject to the operation of note 3 to Section XVI and subject to note 9 to this chapter, a machine or appliance which answers to a description in one or more of the headings 8401 to 8424, or heading 8486 and at the same time to a description in one or other of the headings 8425 to 8480 is to be classified under the appropriate heading of the former group or under heading 8486, as the case may be, and not the latter group.

Heading 8419 does not, however, cover:

(a) germination plant, incubators or brooders (heading 8436);

(b) grain dampening machines (heading 8437);

(c) diffusing apparatus for sugar juice extraction (heading 8438);

(d) machinery for the heat treatment of textile yarns, fabrics or made-up textile articles (heading 8451); or

(e) machinery, plant or laboratory equipment, designed for mechanical operation, in which a change of temperature, even if necessary, is subsidiary.

Heading 8422 does not cover:

(a) sewing machines for closing bags or similar containers (heading 8452); or

(b) office machinery of heading 8472.

Heading 8424 does not cover:

(a) ink-jet printing machines (heading 8443); or

(b) water-jet cutting machines (heading 8456).

3. A machine tool for working any material which answers to a description in heading 8456 and at the same time to a description in heading 8457, 8458, 8459, 8460, 8461, 8464 or 8465 is to be classified in heading 8456.

4. Heading 8457 applies only to machine tools for working metal, other than lathes (including turning centres), which can carry out different types of machining operations either:

(a) by automatic tool change from a magazine or the like in conformity with a machining programme (machining centres),

(b) by the automatic use, simultaneously or sequentially, of different unit heads working on a fixed position workpiece (unit construction machines, single station); or

(c) by the automatic transfer of the workpiece to different unit heads (multi-station transfer machines).

5. (A) For the purposes of heading 8471, the expression 'automatic data-processing machines' means machines, capable of

(1) storing the processing program or programs and at least the data immediately necessary for the execution of the program;

(2) being freely programmed in accordance with the requirements of the user;

(3) performing arithmetical computations specified by the user; and

(4) executing, without human intervention, a processing program which requires them to modify their execution, by logical decision during the processing run.

(B) Automatic data-processing machines may be in the form of systems consisting of a variable number of separate units.

(C) Subject to paragraphs (D) and (E) below, a unit is to be regarded as being a part of an automatic data processing system if it meets all the following conditions:

(1) it is of a kind solely or principally used in an automatic data-processing system;

(2) it is connectable to the central processing unit either directly or through one or more other units; and

(3) it is able to accept or deliver data in a form (codes or signals) which can be used by the system.

Separately presented units of an automatic data-processing machine are to be classified in heading 8471.

However keyboards, X-Y coordinate input devices and disk storage units which satisfy the conditions of paragraphs (C)(2) and (C)(3) above, are in all cases to be classified as units of heading 8471.

(D) Heading 8471 does not cover the following when presented separately, even if they meet all of the conditions set forth in note 5(C) above:

(1) printers, copying machines, facsimile machines, whether or not combined;

(2) apparatus for the transmission or reception of voice, images or other data, including apparatus for communication in a wired or wireless network (such as a local or wide area network);

(3) loudspeakers and microphones;

(4) television cameras, digital cameras and video camera recorders;

(5) monitors and projectors, not incorporating television reception apparatus.

(E) Machines incorporating or working in conjunction with an automatic data-processing machine and performing a specific function other than data processing are to be classified in the headings appropriate to their respective functions or, failing that, in residual headings.

6. Heading 8482 applies, inter alia, to polished steel balls, the maximum and minimum diameters of which do not differ from the nominal diameter by more than 1% or by more than 0.05 mm, whichever is less.

Other steel balls are to be classified in heading 7326.

7. A machine which is used for more than one purpose is, for the purposes of classification, to be treated as if its principal purpose were its sole purpose.

Subject to note 2 to this chapter and note 3 to Section XVI, a machine the principal purpose of which is not described in any heading or for which no one purpose is the principal purpose is, unless the context otherwise requires, to be classified in heading 8479. Heading 8479 also covers machines for making rope or cable (for example, stranding, twisting or cabling machines) from metal wire, textile yarn or any other material or from a combination of such materials.

8. For the purposes of heading 8470, the term 'pocket-size' applies only to machines the dimensions of which do not exceed 170 mm x 100 mm x 45 mm.

9. (A) Notes 8(a) and 8(b) to Chapter 85 also apply with respect to the expressions 'semiconductor devices' and 'electronic integrated circuits', respectively, as used in this note and in heading 8486. However, for the purposes of this note and of heading 8486, the expression 'semiconductor devices' also covers photosensitive semiconductor devices and light emitting diodes.

(B) For the purposes of this note and of heading 8486, the expression 'manufacture of flat panel displays' covers the fabrication of substrates into a flat panel. It does not cover the manufacture of glass or the assembly of printed circuit boards or other electronic components onto the flat panel. The expression 'flat panel display' does not cover cathode-ray tube technology.

(C) Heading 8486 also includes machines and apparatus solely or principally of a kind used for:

(1) the manufacture or repair of masks and reticles;

(2) assembling semiconductor devices or electronic integrated circuits; and

(3) lifting, handling, loading or unloading of boules, wafers, semiconductor devices, electronic integrated circuits and flat panel displays.

(D) Subject to note 1 to Section XVI and note 1 to Chapter 84, machines and apparatus answering to the description in heading 8486 are to be classified in that heading and in no other heading of the nomenclature.

### Subheading notes

1. For the purposes of subheading 8465 20, the term “machining centres” applies only to machine-tools for working wood, cork, bone, hard rubber, hard plastics or similar hard materials, which can carry out different types of machining operations by automatic tool change from a magazine or the like in conformity with a machining programme.

2. For the purposes of subheading 8471 49, the term ‘systems’ means automatic data-processing machines whose units satisfy the conditions laid down in note 5(C) to Chapter 84 and which comprise at least a central processing unit, one input unit (for example, a keyboard or a scanner), and one output unit (for example, a visual display unit or a printer).

3. For the purposes of subheading 8481 20, the expression “valves for oleohydraulic or pneumatic transmissions” means valves which are used specifically in the transmission of “fluid power” in a hydraulic or pneumatic system, where the energy source is supplied in the form of pressurized fluids (liquid or gas). These valves may be of any type (for example, pressure-reducing type, check type). Subheading 8481 20 takes precedence over all other subheadings of heading 8481.

4. Subheading 8482 40 applies only to bearings with cylindrical rollers of a uniform diameter not exceeding 5 mm and having a length which is at least three times the diameter. The ends of the rollers may be rounded.

### Additional notes

1. For the purposes of subheadings 8407 10 and 8409 10, the expression 'aircraft engines' shall apply only to engines designed for fitting with an airscrew or rotor.

2. Subheading 8471 70 30 shall also apply to CD-ROM drives, being storage units for automatic data processing machines, which consist of drive units designed for retrieving the signals from CD-ROMs, audio CDs and photo CDs and equipped with a jack for earphones, a volume-control button or a start/stop button.

| Classification | Description |
| --- | --- |
| **8400** | **NUCLEAR REACTORS, BOILERS, MACHINERY AND MECHANICAL APPLIANCES; PARTS THEREOF** |
| **8401** | **Nuclear reactors; fuel elements (cartridges), non-irradiated, for nuclear reactors; machinery and apparatus for isotopic separation** |
| **8401 10 00 00** | **- Nuclear reactors** |
| **8401 20 00 00** | **- Machinery and apparatus for isotopic separation, and parts thereof** |
| **8401 30** | **- Fuel elements (cartridges), non-irradiated** |
| **8401 30 00 20** | - - Non-irradiated hexagonal fuel modules (elements) for use in nuclear reactors |
| **8401 30 00 80** | - - Other |
| **8401 40** | **- Parts of nuclear reactors** |
| **8401 40 00 10** | - - Stainless steel absorber control rods, filled with neutron absorbing chemical elements |
| **8401 40 00 90** | - - Other |
| **8402** | **Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); superheated water boilers** |
|  | **- Steam or other vapour generating boilers** |
| **8402 11 00 00** | - - Watertube boilers with a steam production exceeding 45 tonnes per hour |
| **8402 12 00 00** | - - Watertube boilers with a steam production not exceeding 45 tonnes per hour |
| **8402 19** | - - Other vapour generating boilers, including hybrid boilers |
| **8402 19 10 00** | - - - Firetube boilers |
| **8402 19 90 00** | - - - Other |
| **8402 20 00 00** | **- Superheated water boilers** |
| **8402 90 00 00** | **- Parts** |
| **8403** | **Central heating boilers other than those of heading 8402** |
| **8403 10** | **- Boilers** |
| **8403 10 10 00** | - - Of cast iron |
| **8403 10 90 00** | - - Other |
| **8403 90** | **- Parts** |
| **8403 90 10 00** | - - Of cast iron |
| **8403 90 90 00** | - - Other |
| **8404** | **Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economisers, superheaters, soot removers, gas recoverers); condensers for steam or other vapour power units** |
| **8404 10 00 00** | **- Auxiliary plant for use with boilers of heading 8402 or 8403** |
| **8404 20 00 00** | **- Condensers for steam or other vapour power units** |
| **8404 90 00 00** | **- Parts** |
| **8405** | **Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers** |
| **8405 10 00 00** | **- Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers** |
| **8405 90** | **- Parts** |
| **8405 90 00 10** | - - Metal casing for automobile safety belt pre-tension gas generators |
| **8405 90 00 90** | - - Other |
| **8406** | **Steam turbines and other vapour turbines** |
| **8406 10 00 00** | **- Turbines for marine propulsion** |
|  | **- Other turbines** |
| **8406 81 00 00** | - - Of an output exceeding 40 MW |
| **8406 82 00 00** | - - Of an output not exceeding 40 MW |
| **8406 90** | **- Parts** |
| **8406 90 10 00** | - - Stator blades, rotors and their blades |
| **8406 90 90 00** | - - Other |
| **8407** | **Spark-ignition reciprocating or rotary internal combustion piston engines** |
| **8407 10** | **- Aircraft engines** |
| **8407 10 00 10** | - - For use in civil aircraft |
| **8407 10 00 20** | - - Intended to be fitted in aircraft imported duty free or built within the Community |
| **8407 10 00 90** | - - Other |
|  | **- Marine propulsion engines** |
| **8407 21** | - - Outboard motors |
| **8407 21 10 00** | - - - Of a cylinder capacity not exceeding 325 cm3 |
|  | - - - Of a cylinder capacity exceeding 325 cm3 |
| **8407 21 91 00** | - - - - Of a power not exceeding 30 kW |
| **8407 21 99 00** | - - - - Of a power exceeding 30 kW |
| **8407 29 00 00** | - - Other |
|  | **- Reciprocating piston engines of a kind used for the propulsion of vehicles of Chapter 87** |
| **8407 31 00 00** | - - Of a cylinder capacity not exceeding 50 cm3 |
| **8407 32** | - - Of a cylinder capacity exceeding 50 cm3 but not exceeding 250 cm3 |
| **8407 32 10 00** | - - - Of a cylinder capacity exceeding 50 cm3 but not exceeding 125 cm3 |
| **8407 32 90 00** | - - - Of a cylinder capacity exceeding 125 cm3 but not exceeding 250 cm3 |
| **8407 33** | - - Of a cylinder capacity exceeding 250 cm3 but not exceeding 1 000 cm3 |
| **8407 33 20** | - - - Of a cylinder capacity exceeding 250 cm3 but not exceeding 500 cm3 |
| **8407 33 20 10** | - - - - Spark-ignition reciprocating or rotary internal combustion piston engines, having a cylinder capacity of not less than 300 cm3 and a power of not less than 6 kW but not exceeding 20.0 kW, for the manufacture of: - self-propelled lawn mowers, with a seat of subheading 8433 11 51, and hand-operated lawn mowers of heading 8433 11 90, - tractors of subheading 8701 91 90, whose main function is that of a lawn mower, - four stroke mowers with motor of a cylinder capacity of not less than 300 cc of subheading 8433 20 10 or - snowploughs and snow blowers of subheading 8430 20 |
| **8407 33 20 90** | - - - - Other |
| **8407 33 80** | - - - Of a cylinder capacity exceeding 500 cm3 but not exceeding 1000 cm3 |
| **8407 33 80 10** | - - - - Spark-ignition reciprocating or rotary internal combustion piston engines, having a cylinder capacity of not less than 300 cm3 and a power of not less than 6 kW but not exceeding 20.0 kW, for the manufacture of: - self-propelled lawn mowers, with a seat of subheading 8433 11 51, and hand-operated lawn mowers of heading 8433 11 90, - tractors of subheading 8701 91 90, whose main function is that of a lawn mower, - four stroke mowers with motor of a cylinder capacity of not less than 300 cc of subheading 8433 20 10 or - snowploughs and snow blowers of subheading 8430 20 |
| **8407 33 80 90** | - - - - Other |
| **8407 34** | - - Of a cylinder capacity exceeding 1 000 cm3 |
| **8407 34 10 00** | - - - For the industrial assembly of: pedestrian-controlled tractors of subheading 8701 10; motor vehicles of heading 8703; motor vehicles of heading 8704 with an engine of a cylinder capacity of less than 2 800 cm3; motor vehicles of heading 8705 |
|  | - - - Other |
| **8407 34 30 00** | - - - - Used |
|  | - - - - New, of a cylinder capacity |
| **8407 34 91 00** | - - - - - Not exceeding 1 500 cm3 |
| **8407 34 99 00** | - - - - - Exceeding 1 500 cm3 |
| **8407 90** | **- Other engines** |
| **8407 90 10** | - - Of a cylinder capacity not exceeding 250 cm3 |
| **8407 90 10 10** | - - - Four-stroke petrol engines of a cylinder capacity of not more than 250cm³ for use in the manufacture of lawnmowers of sub-heading 8433 11, mowers with motor of subheading 8433 20 10, rotovators of sub-heading 8432 29 50, garden shredders of subheading 8436 80 90 or scarifiers of subheading 8432 29 10 |
| **8407 90 10 90** | - - - Other |
|  | - - Of a cylinder capacity exceeding 250 cm3 |
| **8407 90 50 00** | - - - For the industrial assembly of: pedestrian-controlled tractors of subheading 8701 10; motor vehicles of heading 8703; motor vehicles of heading 8704 with an engine of a cylinder capacity of less than 2 800 cm3; motor vehicles of heading 8705 |
|  | - - - Other |
| **8407 90 80** | - - - - Of a power not exceeding 10 kW |
| **8407 90 80 10** | - - - - - Spark-ignition reciprocating or rotary internal combustion piston engines, having a cylinder capacity of not less than 300 cm³ and a power of not less than 6 kW but not exceeding 20.0 kW, for the manufacture of: • self-propelled lawn mowers, with a seat of subheading 8433 11 51, and hand-operated lawn mowers of heading 8433 11 90, • tractors of subheading 8701 91 90, whose main function is that of a lawn mower, • four stroke mowers with motor of a cylinder capacity of not less than 300 cc of subheading 8433 20 10 or • snowploughs and snow blowers of subheading 8430 20 |
| **8407 90 80 90** | - - - - - Other |
| **8407 90 90** | - - - - Of a power exceeding 10 kW |
| **8407 90 90 10** | - - - - - Spark-ignition reciprocating or rotary internal combustion piston engines, having a cylinder capacity of not less than 300 cm³ and a power of not less than 6 kW but not exceeding 20.0 kW, for the manufacture of: • self-propelled lawn mowers, with a seat of subheading 8433 11 51, and hand-operated lawn mowers of heading 8433 11 90, • tractors of subheading 8701 91 90, whose main function is that of a lawn mower, • four stroke mowers with motor of a cylinder capacity of not less than 300 cc of subheading 8433 20 10 or • snowploughs and snow blowers of subheading 8430 20 |
| **8407 90 90 20** | - - - - - Compact Liquid Petroleum Gas (LPG) Engine System, with: - 6 cylinders, - an output of 75 kW or more, but not more than 80 kW, - inlet and exhaust valves modified to operate continuously in heavy duty applications, for use in the manufacture of vehicles of heading 8427 |
| **8407 90 90 90** | - - - - - Other |
| **8408** | **Compression-ignition internal combustion piston engines (diesel or semi-diesel engines)** |
| **8408 10** | **- Marine propulsion engines** |
|  | - - Used |
| **8408 10 11 00** | - - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 8904 00 10 and warships of subheading 8906 10 00 |
| **8408 10 19 00** | - - - Other |
|  | - - New, of a power |
|  | - - - Not exceeding 50 kW |
| **8408 10 23 00** | - - - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 8904 00 10 and warships of subheading 8906 10 00 |
| **8408 10 27 00** | - - - - Other |
|  | - - - Exceeding 50 kW but not exceeding 100 kW |
| **8408 10 31 00** | - - - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 8904 00 10 and warships of subheading 8906 10 00 |
| **8408 10 39 00** | - - - - Other |
|  | - - - Exceeding 100 kW but not exceeding 200 kW |
| **8408 10 41 00** | - - - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 8904 00 10 and warships of subheading 8906 10 00 |
| **8408 10 49 00** | - - - - Other |
|  | - - - Exceeding 200 kW but not exceeding 300 kW |
| **8408 10 51 00** | - - - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 8904 00 10 and warships of subheading 8906 10 00 |
| **8408 10 59 00** | - - - - Other |
|  | - - - Exceeding 300 kW but not exceeding 500 kW |
| **8408 10 61 00** | - - - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 8904 00 10 and warships of subheading 8906 10 00 |
| **8408 10 69 00** | - - - - Other |
|  | - - - Exceeding 500 kW but not exceeding 1 000 kW |
| **8408 10 71 00** | - - - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 8904 00 10 and warships of subheading 8906 10 00 |
| **8408 10 79 00** | - - - - Other |
|  | - - - Exceeding 1 000 kW but not exceeding 5 000 kW |
| **8408 10 81 00** | - - - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 8904 00 10 and warships of subheading 8906 10 00 |
| **8408 10 89 00** | - - - - Other |
|  | - - - Exceeding 5 000 kW |
| **8408 10 91 00** | - - - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 8904 00 10 and warships of subheading 8906 10 00 |
| **8408 10 99 00** | - - - - Other |
| **8408 20** | **- Engines of a kind used for the propulsion of vehicles of Chapter 87** |
| **8408 20 10 00** | - - For the industrial assembly of: pedestrian-controlled tractors of subheading 8701 10; motor vehicles of heading 8703; motor vehicles of heading 8704 with an engine of a cylinder capacity of less than 2 500 cm3; motor vehicles of heading 8705 |
|  | - - Other |
|  | - - - For wheeled agricultural or forestry tractors, of a power |
| **8408 20 31 00** | - - - - Not exceeding 50 kW |
| **8408 20 35 00** | - - - - Exceeding 50 kW but not exceeding 100 kW |
| **8408 20 37 00** | - - - - Exceeding 100 kW |
|  | - - - For other vehicles of Chapter 87, of a power |
| **8408 20 51 00** | - - - - Not exceeding 50 kW |
| **8408 20 55 00** | - - - - Exceeding 50 kW but not exceeding 100 kW |
| **8408 20 57 00** | - - - - Exceeding 100 kW but not exceeding 200 kW |
| **8408 20 99 00** | - - - - Exceeding 200 kW |
| **8408 90** | **- Other engines** |
| **8408 90 21 00** | - - For rail traction |
|  | - - Other |
| **8408 90 27** | - - - Used |
| **8408 90 27 10** | - - - - For use in civil aircraft |
| **8408 90 27 90** | - - - - Other |
|  | - - - New, of a power |
| **8408 90 41** | - - - - Not exceeding 15 kW |
| **8408 90 41 10** | - - - - - For use in civil aircraft |
| **8408 90 41 20** | - - - - - Diesel engines of a power of not more than 15 kW, with 2 or 3 cylinders, for use in the manufacture of vehicle mounted temperature control systems |
| **8408 90 41 90** | - - - - - Other |
| **8408 90 43** | - - - - Exceeding 15 kW but not exceeding 30 kW |
| **8408 90 43 10** | - - - - - For use in civil aircraft |
| **8408 90 43 20** | - - - - - Diesel engines of a power of not more than 30 kW, with 4 cylinders, for use in the manufacture of vehicle mounted temperature control systems |
| **8408 90 43 40** | - - - - - 4 Cylinder, 4 cycle, liquid cooled, compression-ignition engine having: - a capacity of not more than 3 850 cm3, and - a rated output of 15 kW or more but not more than 85 kW, for use in the manufacture of vehicles of heading 8427 |
| **8408 90 43 90** | - - - - - Other |
| **8408 90 45** | - - - - Exceeding 30 kW but not exceeding 50 kW |
| **8408 90 45 10** | - - - - - For use in civil aircraft |
| **8408 90 45 30** | - - - - - 4 Cylinder, 4 cycle, liquid cooled, compression-ignition engine having: - a capacity of not more than 3 850 cm3, and - a rated output of 15 kW or more but not more than 85 kW, for use in the manufacture of vehicles of heading 8427 |
| **8408 90 45 90** | - - - - - Other |
| **8408 90 47** | - - - - Exceeding 50 kW but not exceeding 100 kW |
| **8408 90 47 10** | - - - - - For use in civil aircraft |
|  | - - - - - Other |
| **8408 90 47 50** | - - - - - - 4 Cylinder, 4 cycle, liquid cooled, compression-ignition engine having: - a capacity of not more than 3 850 cm3, and - a rated output of 15 kW or more but not more than 85 kW, for use in the manufacture of vehicles of heading 8427 |
| **8408 90 47 99** | - - - - - - Other |
| **8408 90 61** | - - - - Exceeding 100 kW but not exceeding 200 kW |
| **8408 90 61 10** | - - - - - For use in civil aircraft |
| **8408 90 61 90** | - - - - - Other |
| **8408 90 65** | - - - - Exceeding 200 kW but not exceeding 300 kW |
| **8408 90 65 10** | - - - - - For use in civil aircraft |
| **8408 90 65 90** | - - - - - Other |
| **8408 90 67** | - - - - Exceeding 300 kW but not exceeding 500 kW |
| **8408 90 67 10** | - - - - - For use in civil aircraft |
| **8408 90 67 90** | - - - - - Other |
| **8408 90 81** | - - - - Exceeding 500 kW but not exceeding 1 000 kW |
| **8408 90 81 10** | - - - - - For use in civil aircraft |
| **8408 90 81 90** | - - - - - Other |
| **8408 90 85** | - - - - Exceeding 1 000 kW but not exceeding 5 000 kW |
| **8408 90 85 10** | - - - - - For use in civil aircraft |
| **8408 90 85 90** | - - - - - Other |
| **8408 90 89** | - - - - Exceeding 5 000 kW |
| **8408 90 89 10** | - - - - - For use in civil aircraft |
| **8408 90 89 90** | - - - - - Other |
| **8409** | **Parts suitable for use solely or principally with the engines of heading 8407 or 8408** |
| **8409 10** | **- For aircraft engines** |
| **8409 10 00 10** | - - For engines for use in civil aircraft |
| **8409 10 00 20** | - - Intended to be fitted in aircraft imported duty free or built within the Community |
| **8409 10 00 90** | - - Other |
|  | **- Other** |
| **8409 91** | - - Suitable for use solely or principally with spark-ignition internal combustion piston engines |
| **8409 91 00 40** | - - - Fuel injector with solenoid valve for optimized atomization in the combustion chamber for use in the manufacture of spark-ignition internal combustion piston engines of motor vehicles |
| **8409 91 00 50** | - - - Exhaust manifold with turbine housing of turbochargers with:   - a heat-resistance of not more than 1 050 °C, and   - a hole to insert a turbine wheel, whereby the hole has a diameter of 28 mm or more, but not more than 181 mm |
| **8409 91 00 90** | - - - Other |
| **8409 99** | - - Other |
| **8409 99 00 10** | - - - Injectors with solenoid valve for optimised atomisation in the engine combustion chamber |
| **8409 99 00 40** | - - - Plastic or aluminum cylinder head cover with: - a camshaft position sensor (CMPS), - metal brackets for mounting on an engine, and - two or more gaskets, for use in the manufacture of engines of motor vehicles |
| **8409 99 00 55** | - - - Exhaust manifold with turbine housing of turbochargers with:   - a heat-resistance of not more than 1 050 °C, and   - a hole to insert a turbine wheel, whereby the hole has a diameter of 28 mm or more, but not more than 181 mm |
| **8409 99 00 60** | - - - Intake manifold for air supply to the engine cylinders, comprising at least: - a throttle, - a boost pressure sensor for use in the manufacture of compression ignition engines of motor vehicles |
| **8409 99 00 70** | - - - Metal alloy intake and exhaust valve with a Rockwell hardness HRC 20 or more, but not more than HRC 50 for use in the manufacture of compression ignition engines of motor vehicles |
| **8409 99 00 80** | - - - High pressure oil jet nozzle for engine piston cooling and lubrication with: - an opening pressure of 1 bar or more, but not more than 3 bar, - a closing pressure of more than 0.7 bar, - a one-way valve for use in the manufacture of compression ignition engines of motor vehicles |
| **8409 99 00 90** | - - - Other |
| **8410** | **Hydraulic turbines, water wheels, and regulators therefor** |
|  | **- Hydraulic turbines and water wheels** |
| **8410 11 00 00** | - - Of a power not exceeding 1 000 kW |
| **8410 12 00 00** | - - Of a power exceeding 1 000 kW but not exceeding 10 000 kW |
| **8410 13 00 00** | - - Of a power exceeding 10 000 kW |
| **8410 90 00 00** | **- Parts, including regulators** |
| **8411** | **Turbojets, turbopropellers and other gas turbines** |
|  | **- Turbojets** |
| **8411 11** | - - Of a thrust not exceeding 25 kN |
| **8411 11 00 10** | - - - For use in civil aircraft |
| **8411 11 00 20** | - - - Intended to be fitted in aircraft imported duty free or built within the Community |
| **8411 11 00 90** | - - - Other |
| **8411 12** | - - Of a thrust exceeding 25 kN |
| **8411 12 10** | - - - Of a thrust exceeding 25 kN but not exceeding 44 kN |
| **8411 12 10 10** | - - - - For use in civil aircraft |
| **8411 12 10 20** | - - - - Intended to be fitted in aircraft imported duty free or built within the Community |
| **8411 12 10 90** | - - - - Other |
| **8411 12 30** | - - - Of a thrust exceeding 44 kN but not exceeding 132 kN |
| **8411 12 30 10** | - - - - For use in civil aircraft |
| **8411 12 30 20** | - - - - Intended to be fitted in aircraft imported duty free or built within the Community |
| **8411 12 30 90** | - - - - Other |
| **8411 12 80** | - - - Of a thrust exceeding 132 kN |
| **8411 12 80 10** | - - - - For use in civil aircraft |
| **8411 12 80 20** | - - - - Intended to be fitted in aircraft imported duty free or built within the Community |
| **8411 12 80 90** | - - - - Other |
|  | **- Turbopropellers** |
| **8411 21** | - - Of a power not exceeding 1 100 kW |
| **8411 21 00 10** | - - - For use in civil aircraft |
| **8411 21 00 20** | - - - Intended to be fitted in aircraft imported duty free or built within the Community |
| **8411 21 00 90** | - - - Other |
| **8411 22** | - - Of a power exceeding 1 100 kW |
| **8411 22 20** | - - - Of a power exceeding 1 100 kW but not exceeding 3 730 kW |
| **8411 22 20 10** | - - - - For use in civil aircraft |
| **8411 22 20 20** | - - - - Intended to be fitted in aircraft imported duty free or built within the Community |
| **8411 22 20 90** | - - - - Other |
| **8411 22 80** | - - - Of a power exceeding 3 730 kW |
| **8411 22 80 10** | - - - - For use in civil aircraft |
| **8411 22 80 20** | - - - - Intended to be fitted in aircraft imported duty free or built within the Community |
| **8411 22 80 90** | - - - - Other |
|  | **- Other gas turbines** |
| **8411 81** | - - Of a power not exceeding 5 000 kW |
| **8411 81 00 10** | - - - For use in civil aircraft |
| **8411 81 00 90** | - - - Other |
| **8411 82** | - - Of a power exceeding 5 000 kW |
| **8411 82 20** | - - - Of a power exceeding 5 000 kW but not exceeding 20 000 kW |
| **8411 82 20 10** | - - - - For use in civil aircraft |
| **8411 82 20 90** | - - - - Other |
| **8411 82 60** | - - - Of a power exceeding 20 000 kW but not exceeding 50 000 kW |
| **8411 82 60 10** | - - - - For use in civil aircraft |
| **8411 82 60 90** | - - - - Other |
| **8411 82 80** | - - - Of a power exceeding 50 000 kW |
| **8411 82 80 10** | - - - - For use in civil aircraft |
| **8411 82 80 90** | - - - - Other |
|  | **- Parts** |
| **8411 91** | - - Of turbojets or turbopropellers |
| **8411 91 00 10** | - - - For use in civil aircraft |
| **8411 91 00 20** | - - - Intended to be fitted in aircraft imported duty free or built within the Community |
| **8411 91 00 90** | - - - Other |
| **8411 99** | - - Other |
| **8411 99 00 10** | - - - Of gas turbines, for use in civil aircraft |
|  | - - - Other |
| **8411 99 00 20** | - - - - Wheel-shaped gas turbine component with blades, of a kind used in turbochargers: - of a precision-cast nickel based alloy complying with standard DIN G- NiCr13Al6MoNb or DIN G- NiCr13Al16MoNb or DIN G- NiCo10W10Cr9AlTi or DIN G- NiCr12Al6MoNb or AMS AISI:686, - with a heat-resistance of not more than 1 100 °C, - with a diameter of 28 mm or more, but not more than 180 mm, - with a height of 20 mm or more, but not more than 150 mm |
| **8411 99 00 30** | - - - - Turbine housing of turbochargers with:   - a heat-resistance of not more than 1 050 °C, and   - a hole to insert a turbine wheel, whereby the hole has a diameter of 28 mm or more, but not more than 181 mm |
| **8411 99 00 80** | - - - - Actuator for a single-stage turbocharger: - whether or not with conducting horns and connecting sleeves, having an operating distance of 20 mm or more but not more than 40 mm, - with a length of not more than 350 mm, - with a diameter of not more than 75 mm, - with a height of not more than 110 mm |
| **8411 99 00 99** | - - - - Other |
| **8412** | **Other engines and motors** |
| **8412 10** | **- Reaction engines other than turbojets** |
| **8412 10 00 10** | - - For use in civil aircraft |
| **8412 10 00 20** | - - Intended to be fitted in aircraft imported duty free or built within the Community |
| **8412 10 00 90** | - - Other |
|  | **- Hydraulic power engines and motors** |
| **8412 21** | - - Linear acting (cylinders) |
| **8412 21 20** | - - - Hydraulic systems |
| **8412 21 20 10** | - - - - For use in civil aircraft |
| **8412 21 20 90** | - - - - Other |
| **8412 21 80** | - - - Other |
| **8412 21 80 10** | - - - - For use in civil aircraft |
| **8412 21 80 90** | - - - - Other |
| **8412 29** | - - Other |
| **8412 29 20** | - - - Hydraulic systems |
| **8412 29 20 10** | - - - - For use in civil aircraft |
| **8412 29 20 90** | - - - - Other |
|  | - - - Other |
| **8412 29 81** | - - - - Hydraulic fluid power motors |
| **8412 29 81 10** | - - - - - For use in civil aircraft |
| **8412 29 81 90** | - - - - - Other |
| **8412 29 89** | - - - - Other |
| **8412 29 89 10** | - - - - - For use in civil aircraft |
| **8412 29 89 90** | - - - - - Other |
|  | **- Pneumatic power engines and motors** |
| **8412 31** | - - Linear acting (cylinders) |
| **8412 31 00 10** | - - - For use in civil aircraft |
| **8412 31 00 90** | - - - Other |
| **8412 39** | - - Other |
| **8412 39 00 10** | - - - For use in civil aircraft |
| **8412 39 00 20** | - - - Actuator for a single-stage turbocharger:   - whether or not with conducting horns and connecting sleeves, having an operating distance of 20 mm or more but not more than 40 mm,   - with a length of not more than 350 mm,   - with a diameter of not more than 75 mm,   - with a height of not more than 110 mm |
| **8412 39 00 90** | - - - Other |
| **8412 80** | **- Other** |
| **8412 80 10 00** | - - Steam or other vapour power engines |
| **8412 80 80** | - - Other |
| **8412 80 80 10** | - - - For use in civil aircraft |
| **8412 80 80 90** | - - - Other |
| **8412 90** | **- Parts** |
| **8412 90 20** | - - Of reaction engines other than turbojets |
| **8412 90 20 10** | - - - For use in civil aircraft |
| **8412 90 20 20** | - - - Intended to be fitted in aircraft imported duty free or built within the Community |
| **8412 90 20 90** | - - - Other |
| **8412 90 40** | - - Of hydraulic power engines and motors |
| **8412 90 40 10** | - - - For use in civil aircraft |
| **8412 90 40 90** | - - - Other |
| **8412 90 80** | - - Other |
| **8412 90 80 10** | - - - For use in civil aircraft |
| **8412 90 80 90** | - - - Other |
| **8413** | **Pumps for liquids, whether or not fitted with a measuring device; liquid elevators** |
|  | **- Pumps fitted or designed to be fitted with a measuring device** |
| **8413 11 00 00** | - - Pumps for dispensing fuel or lubricants, of the type used in filling stations or in garages |
| **8413 19** | - - Other |
| **8413 19 00 10** | - - - For use in civil aircraft |
| **8413 19 00 90** | - - - Other |
| **8413 20** | **- Handpumps, other than those of subheading 8413 11 or 8413 19** |
| **8413 20 00 10** | - - For use in civil aircraft |
| **8413 20 00 90** | - - Other |
| **8413 30** | **- Fuel, lubricating or cooling medium pumps for internal combustion piston engines** |
| **8413 30 20** | - - Injection pumps |
| **8413 30 20 10** | - - - For use in civil aircraft |
| **8413 30 20 30** | - - - Single-cylinder radial-piston high pressure pump for gasoline direct injection with: - an operating pressure of 200 bar or more, but not more than 350 bar, - a flow control, and - a pressure relief valve, for use in the manufacture of engines of motor vehicles |
| **8413 30 20 90** | - - - Other |
| **8413 30 80** | - - Other |
| **8413 30 80 10** | - - - For use in civil aircraft |
| **8413 30 80 90** | - - - Other |
| **8413 40 00 00** | **- Concrete pumps** |
| **8413 50** | **- Other reciprocating positive displacement pumps** |
| **8413 50 20** | - - Hydraulic units |
| **8413 50 20 10** | - - - For use in civil aircraft |
| **8413 50 20 90** | - - - Other |
| **8413 50 40** | - - Dosing and proportioning pumps |
| **8413 50 40 10** | - - - For use in civil aircraft |
| **8413 50 40 90** | - - - Other |
|  | - - Other |
|  | - - - Piston pumps |
| **8413 50 61** | - - - - Hydraulic fluid power |
| **8413 50 61 10** | - - - - - For use in civil aircraft |
| **8413 50 61 90** | - - - - - Other |
| **8413 50 69** | - - - - Other |
| **8413 50 69 10** | - - - - - For use in civil aircraft |
| **8413 50 69 90** | - - - - - Other |
| **8413 50 80** | - - - Other |
| **8413 50 80 10** | - - - - For use in civil aircraft |
| **8413 50 80 90** | - - - - Other |
| **8413 60** | **- Other rotary positive displacement pumps** |
| **8413 60 20** | - - Hydraulic units |
| **8413 60 20 10** | - - - For use in civil aircraft |
| **8413 60 20 90** | - - - Other |
|  | - - Other |
|  | - - - Gear pumps |
| **8413 60 31** | - - - - Hydraulic fluid power |
| **8413 60 31 10** | - - - - - For use in civil aircraft |
| **8413 60 31 90** | - - - - - Other |
| **8413 60 39** | - - - - Other |
| **8413 60 39 10** | - - - - - For use in civil aircraft |
| **8413 60 39 90** | - - - - - Other |
|  | - - - Vane pumps |
| **8413 60 61** | - - - - Hydraulic fluid power |
| **8413 60 61 10** | - - - - - For use in civil aircraft |
| **8413 60 61 90** | - - - - - Other |
| **8413 60 69** | - - - - Other |
| **8413 60 69 10** | - - - - - For use in civil aircraft |
| **8413 60 69 90** | - - - - - Other |
| **8413 60 70** | - - - Screw pumps |
| **8413 60 70 10** | - - - - For use in civil aircraft |
| **8413 60 70 90** | - - - - Other |
| **8413 60 80** | - - - Other |
| **8413 60 80 10** | - - - - For use in civil aircraft |
| **8413 60 80 90** | - - - - Other |
| **8413 70** | **- Other centrifugal pumps** |
|  | - - Submersible pumps |
| **8413 70 21 00** | - - - Single-stage |
| **8413 70 29 00** | - - - Multi-stage |
| **8413 70 30 00** | - - Glandless impeller pumps for heating systems and warm water supply |
|  | - - Other, with a discharge outlet diameter |
| **8413 70 35** | - - - Not exceeding 15 mm |
| **8413 70 35 10** | - - - - For use in civil aircraft |
|  | - - - - Other |
| **8413 70 35 20** | - - - - - Single phase centrifugal pump: - discharging at least 400 cm3 fluid per minute - with a noise level limited to 6 dBA, - with the inside diameter of the suction opening and discharge outlet of not more than 15 mm, and - working at ambient temperatures down to -10°C |
| **8413 70 35 90** | - - - - - Other |
|  | - - - Exceeding 15 mm |
| **8413 70 45** | - - - - Channel impeller pumps and side channel pumps |
| **8413 70 45 10** | - - - - - For use in civil aircraft |
| **8413 70 45 90** | - - - - - Other |
|  | - - - - Radial flow pumps |
|  | - - - - - Single-stage |
|  | - - - - - - With single entry impeller |
| **8413 70 51** | - - - - - - - Monobloc |
| **8413 70 51 10** | - - - - - - - - For use in civil aircraft |
| **8413 70 51 90** | - - - - - - - - Other |
| **8413 70 59** | - - - - - - - Other |
| **8413 70 59 10** | - - - - - - - - For use in civil aircraft |
| **8413 70 59 90** | - - - - - - - - Other |
| **8413 70 65** | - - - - - - With more than one entry impeller |
| **8413 70 65 10** | - - - - - - - For use in civil aircraft |
| **8413 70 65 90** | - - - - - - - Other |
| **8413 70 75** | - - - - - Multi-stage |
| **8413 70 75 10** | - - - - - - For use in civil aircraft |
| **8413 70 75 90** | - - - - - - Other |
|  | - - - - Other centrifugal pumps |
| **8413 70 81** | - - - - - Single-stage |
| **8413 70 81 10** | - - - - - - For use in civil aircraft |
| **8413 70 81 90** | - - - - - - Other |
| **8413 70 89** | - - - - - Multi-stage |
| **8413 70 89 10** | - - - - - - For use in civil aircraft |
| **8413 70 89 90** | - - - - - - Other |
|  | **- Other pumps; liquid elevators** |
| **8413 81** | - - Pumps |
| **8413 81 00 10** | - - - For use in civil aircraft |
| **8413 81 00 90** | - - - Other |
| **8413 82 00 00** | - - Liquid elevators |
|  | **- Parts** |
| **8413 91** | - - Of pumps |
| **8413 91 00 10** | - - - For use in civil aircraft |
| **8413 91 00 30** | - - - Fuel pump cover: - consisting of aluminum alloys, - with a diameter of 38 mm or 50 mm, - with two concentric, annular grooves formed on its surface, - anodized, of a kind used in motor vehicles with petrol engines |
| **8413 91 00 40** | - - - Keypads of silicone or plastic, - whether or not with parts of metal, plastic, glass fibre reinforced epoxide resin or wood, - whether or not printed or surface treated, - whether or not with electrical conducting elements - whether or not with keypads foil glued on the keyboard - whether or not with protective foil - single or multilayer |
| **8413 91 00 50** | - - - Pump head for two cylinder high pressure pump made of forged steel, with: - milled threaded fittings with a diameter of 10 mm or more but not more than 36.8 mm, and - drilled fuel channels with a diameter of 3.5 mm or more but not more than 10 mm of a kind used in diesel injection systems |
| **8413 91 00 90** | - - - Other |
| **8413 92 00 00** | - - Of liquid elevators |
| **8414** | **Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters** |
| **8414 10** | **- Vacuum pumps** |
| **8414 10 15 00** | - - Of a kind used for the manufacture of semiconductors or solely or principally used for the manufacture of flat panel displays |
|  | - - Other |
| **8414 10 25** | - - - Rotary piston pumps, sliding vane rotary pumps, molecular drag pumps and Roots pumps |
| **8414 10 25 10** | - - - - For use in civil aircraft |
| **8414 10 25 90** | - - - - Other |
|  | - - - Other |
| **8414 10 81** | - - - - Diffusion pumps, cryopumps and adsorption pumps |
| **8414 10 81 10** | - - - - - For use in civil aircraft |
| **8414 10 81 90** | - - - - - Other |
| **8414 10 89** | - - - - Other |
| **8414 10 89 10** | - - - - - For use in civil aircraft |
| **8414 10 89 90** | - - - - - Other |
| **8414 20** | **- Hand- or foot-operated air pumps** |
| **8414 20 20 00** | - - Handpumps for cycles |
| **8414 20 80** | - - Other |
| **8414 20 80 10** | - - - For use in civil aircraft |
| **8414 20 80 90** | - - - Other |
| **8414 30** | **- Compressors of a kind used in refrigerating equipment** |
| **8414 30 20** | - - Of a power not exceeding 0.4 kW |
| **8414 30 20 10** | - - - For use in civil aircraft |
| **8414 30 20 90** | - - - Other |
|  | - - Of a power exceeding 0.4 kW |
| **8414 30 81** | - - - Hermetic or semi-hermetic |
| **8414 30 81 10** | - - - - For use in civil aircraft |
|  | - - - - Other |
| **8414 30 81 50** | - - - - - Hermetic or semi-hermetic variable-speed electric scroll compressors, with a nominal power rating of 0.5 kW or more but not more than 10 kW, with a displacement volume of not more than 35 cm3, of the type used in refrigeration equipment |
| **8414 30 81 60** | - - - - - Hermetic rotary compressors for Hydro-Fluoro-Carbon (HFC) refrigerants:  - driven by 'on-off' single phase alternate current' (AC) or 'brushless direct current' (BLDC) variable speed motors  - with a nominal power rating of not more than 1.5 kW of a kind used in the production of household heat pump laundry tumble dryers |
| **8414 30 81 89** | - - - - - Other |
| **8414 30 89** | - - - Other |
| **8414 30 89 10** | - - - - For use in civil aircraft |
| **8414 30 89 20** | - - - - Vehicle air conditioning system part, consisting of an open shaft reciprocating compressor of a power of more than 0.4 kW but not more than 10 kW |
| **8414 30 89 90** | - - - - Other |
| **8414 40** | **- Air compressors mounted on a wheeled chassis for towing** |
| **8414 40 10 00** | - - Giving a flow per minute not exceeding 2 m3 |
| **8414 40 90 00** | - - Giving a flow per minute exceeding 2 m3 |
|  | **- Fans** |
| **8414 51** | - - Table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output not exceeding 125 W |
| **8414 51 00 10** | - - - For use in civil aircraft |
| **8414 51 00 90** | - - - Other |
| **8414 59** | - - Other |
| **8414 59 15 00** | - - - Fans of a kind used solely or principally for cooling microprocessors, telecommunication apparatus, automatic data processing machines or units of automatic data processing machines |
|  | - - - Other |
| **8414 59 25** | - - - - Axial fans |
| **8414 59 25 10** | - - - - - For use in civil aircraft |
| **8414 59 25 40** | - - - - - Axial fan with an electric motor, of an output of not more than 2 W, for use in the manufacture of products of heading 8521 or 8528 |
| **8414 59 25 90** | - - - - - Other |
| **8414 59 35** | - - - - Centrifugal fans |
| **8414 59 35 10** | - - - - - For use in civil aircraft |
| **8414 59 35 90** | - - - - - Other |
| **8414 59 95** | - - - - Other |
| **8414 59 95 10** | - - - - - For use in civil aircraft |
| **8414 59 95 90** | - - - - - Other |
| **8414 60 00 00** | **- Hoods having a maximum horizontal side not exceeding 120 cm** |
| **8414 80** | **- Other** |
|  | - - Turbo-compressors |
| **8414 80 11** | - - - Single-stage |
| **8414 80 11 10** | - - - - For use in civil aircraft |
| **8414 80 11 90** | - - - - Other |
| **8414 80 19** | - - - Multi-stage |
| **8414 80 19 10** | - - - - For use in civil aircraft |
| **8414 80 19 90** | - - - - Other |
|  | - - Reciprocating displacement compressors, having a gauge pressure capacity of |
|  | - - - Not exceeding 15 bar, giving a flow per hour |
| **8414 80 22** | - - - - Not exceeding 60 m3 |
| **8414 80 22 10** | - - - - - For use in civil aircraft |
| **8414 80 22 20** | - - - - - Air membrane compressor with: - a flow of 4.5 l/min or more, but not more than 7 l/min, - power input of not more than 8.1 W, and - a gauge pressure capacity not exceeding 400 hPa (0.4 bar) of a kind used in the production of motor vehicle seats |
| **8414 80 22 90** | - - - - - Other |
| **8414 80 28** | - - - - Exceeding 60 m3 |
| **8414 80 28 10** | - - - - - For use in civil aircraft |
| **8414 80 28 90** | - - - - - Other |
|  | - - - Exceeding 15 bar, giving a flow per hour |
| **8414 80 51** | - - - - Not exceeding 120 m3 |
| **8414 80 51 10** | - - - - - For use in civil aircraft |
| **8414 80 51 90** | - - - - - Other |
| **8414 80 59** | - - - - Exceeding 120 m3 |
| **8414 80 59 10** | - - - - - For use in civil aircraft |
| **8414 80 59 90** | - - - - - Other |
|  | - - Rotary displacement compressors |
| **8414 80 73** | - - - Single-shaft |
| **8414 80 73 10** | - - - - For use in civil aircraft |
|  | - - - - Other |
| **8414 80 73 30** | - - - - - Hermetic rotary compressors for Hydro-Fluoro-Carbon (HFC) refrigerants:  - driven by 'on-off' single phase alternate current' (AC) or 'brushless direct current' (BLDC) variable speed motors  - with a nominal power rating of not more than 1.5 kW of a kind used in the production of household heat pump laundry tumble dryers |
| **8414 80 73 89** | - - - - - Other |
|  | - - - Multi-shaft |
| **8414 80 75** | - - - - Screw compressors |
| **8414 80 75 10** | - - - - - For use in civil aircraft |
| **8414 80 75 90** | - - - - - Other |
| **8414 80 78** | - - - - Other |
| **8414 80 78 10** | - - - - - For use in civil aircraft |
| **8414 80 78 90** | - - - - - Other |
| **8414 80 80** | - - Other |
| **8414 80 80 10** | - - - For use in civil aircraft |
| **8414 80 80 20** | - - - Air membrane compressor with: - a flow of 4.5 l/min or more, but not more than 7 l/min, - power input of not more than 8.1 W, and - a gauge pressure capacity not exceeding 400 hPa (0.4 bar) of a kind used in the production of motor vehicle seats |
| **8414 80 80 90** | - - - Other |
| **8414 90** | **- Parts** |
| **8414 90 00 10** | - - For use in civil aircraft |
| **8414 90 00 20** | - - Aluminium pistons, for incorporation into compressors of air conditioning machines of motor vehicles |
| **8414 90 00 30** | - - Pressure-regulating system, for incorporation into compressors of air conditioning machines of motor vehicles |
| **8414 90 00 40** | - - Drive part, for compressors of air conditioning machines of motor vehicles |
| **8414 90 00 70** | - - Aluminium alloy compressor wheel with: - a diameter of 20 mm or more, but not more than 130 mm, and - a weight of 5 g or more, but not more than 800 g for use in the assembly of turbochargers without further machining |
| **8414 90 00 90** | - - Other |
| **8415** | **Air-conditioning machines, comprising a motor-driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be separately regulated** |
| **8415 10** | **- Of a kind designed to be fixed to a window, wall, ceiling or floor, self-contained or "split-system"** |
| **8415 10 10** | - - Self-contained |
| **8415 10 10 10** | - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8415 10 10 90** | - - - Other |
| **8415 10 90** | - - Split-system |
| **8415 10 90 10** | - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8415 10 90 90** | - - - Other |
| **8415 20** | **- Of a kind used for persons, in motor vehicles** |
| **8415 20 00 10** | - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8415 20 00 90** | - - Other |
|  | **- Other** |
| **8415 81** | - - Incorporating a refrigerating unit and a valve for reversal of the cooling/heat cycle (reversible heat pumps) |
| **8415 81 00 10** | - - - For use in civil aircraft |
|  | - - - Other |
| **8415 81 00 91** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8415 81 00 99** | - - - - Other |
| **8415 82** | - - Other, incorporating a refrigerating unit |
| **8415 82 00 10** | - - - For use in civil aircraft |
|  | - - - Other |
| **8415 82 00 91** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8415 82 00 99** | - - - - Other |
| **8415 83** | - - Not incorporating a refrigerating unit |
| **8415 83 00 10** | - - - For use in civil aircraft |
| **8415 83 00 90** | - - - Other |
| **8415 90** | **- Parts** |
| **8415 90 00 10** | - - Of air conditioning machines of subheading Nos 8415 81, 8415 82 or 8415 83, for use in civil aircraft |
| **8415 90 00 30** | - - Aluminium arc-welded removable receiver dryer with a connection block, containing polyamide and ceramic elements, with: - a length of 166 mm (+/- 1 mm), - a diameter of 70 mm (+/- 1 mm), - an internal capacity of 280 cm3 or more, - a water absorption rate of 17 g or more, and - an internal purity expressed by permissible amount of impurities of not more than 0.9 mg/dm2 of a kind used in car air-conditioning systems |
| **8415 90 00 40** | - - Flame-soldered aluminium block with extruded, bent connector lines, of a kind used in car air-conditioning systems |
| **8415 90 00 55** | - - Aluminium arc-welded removable receiver dryer with polyamide and ceramic elements with: - a length of 143 mm or more but not more than 292 mm, - a diameter of 31 mm or more but not more than 99 mm, - a spangle length of not more than 0.2 mm and a thickness of not more than 0.06 mm, and - a solid particle diameter of not more than 0.06 mm of a kind used in car air-conditioning systems |
|  | - - Other |
| **8415 90 00 91** | - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8415 90 00 99** | - - - Other |
| **8416** | **Furnace burners for liquid fuel, for pulverised solid fuel or for gas; mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances** |
| **8416 10** | **- Furnace burners for liquid fuel** |
| **8416 10 10 00** | - - Incorporating an automatic control device |
| **8416 10 90 00** | - - Other |
| **8416 20** | **- Other furnace burners, including combination burners** |
| **8416 20 10 00** | - - Only for gas, monobloc, incorporating a ventilator and a control device |
|  | - - Other |
| **8416 20 20 00** | - - - Combination burners |
| **8416 20 80 00** | - - - Other |
| **8416 30 00 00** | **- Mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances** |
| **8416 90 00 00** | **- Parts** |
| **8417** | **Industrial or laboratory furnaces and ovens, including incinerators, non-electric** |
| **8417 10 00 00** | **- Furnaces and ovens for the roasting, melting or other heat treatment of ores, pyrites or of metals** |
| **8417 20** | **- Bakery ovens, including biscuit ovens** |
| **8417 20 10 00** | - - Tunnel ovens |
| **8417 20 90 00** | - - Other |
| **8417 80** | **- Other** |
| **8417 80 30 00** | - - Ovens and furnaces for firing ceramic products |
| **8417 80 50 00** | - - Ovens and furnaces for firing cement, glass or chemical products |
| **8417 80 70 00** | - - Other |
| **8417 90 00 00** | **- Parts** |
| **8418** | **Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air-conditioning machines of heading 8415** |
| **8418 10** | **- Combined refrigerator-freezers, fitted with separate external doors** |
| **8418 10 20** | - - Of a capacity exceeding 340 litres |
| **8418 10 20 10** | - - - For use in civil aircraft |
|  | - - - Other |
| **8418 10 20 91** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 10 20 99** | - - - - Other |
| **8418 10 80** | - - Other |
| **8418 10 80 10** | - - - For use in civil aircraft |
|  | - - - Other |
| **8418 10 80 91** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 10 80 99** | - - - - Other |
|  | **- Refrigerators, household type** |
| **8418 21** | - - Compression-type |
| **8418 21 10** | - - - Of a capacity exceeding 340 litres |
| **8418 21 10 10** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 21 10 90** | - - - - Other |
|  | - - - Other |
| **8418 21 51** | - - - - Table model |
| **8418 21 51 10** | - - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 21 51 90** | - - - - - Other |
| **8418 21 59** | - - - - Building-in type |
| **8418 21 59 10** | - - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 21 59 90** | - - - - - Other |
|  | - - - - Other, of a capacity |
| **8418 21 91** | - - - - - Not exceeding 250 litres |
| **8418 21 91 10** | - - - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 21 91 90** | - - - - - - Other |
| **8418 21 99** | - - - - - Exceeding 250 litres but not exceeding 340 litres |
| **8418 21 99 10** | - - - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 21 99 90** | - - - - - - Other |
| **8418 29** | - - Other |
| **8418 29 00 10** | - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 29 00 90** | - - - Other |
| **8418 30** | **- Freezers of the chest type, not exceeding 800 litres capacity** |
| **8418 30 20** | - - Of a capacity not exceeding 400 litres |
| **8418 30 20 10** | - - - For use in civil aircraft |
|  | - - - Other |
| **8418 30 20 91** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 30 20 99** | - - - - Other |
| **8418 30 80** | - - Of a capacity exceeding 400 litres but not exceeding 800 litres |
| **8418 30 80 10** | - - - For use in civil aircraft |
|  | - - - Other |
| **8418 30 80 91** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 30 80 99** | - - - - Other |
| **8418 40** | **- Freezers of the upright type, not exceeding 900 litres capacity** |
| **8418 40 20** | - - Of a capacity not exceeding 250 litres |
| **8418 40 20 10** | - - - For use in civil aircraft |
|  | - - - Other |
| **8418 40 20 91** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 40 20 99** | - - - - Other |
| **8418 40 80** | - - Of a capacity exceeding 250 litres but not exceeding 900 litres |
| **8418 40 80 10** | - - - For use in civil aircraft |
|  | - - - Other |
| **8418 40 80 91** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 40 80 99** | - - - - Other |
| **8418 50** | **- Other furniture (chests, cabinets, display counters, showcases and the like) for storage and display, incorporating refrigerating or freezing equipment** |
|  | - - Refrigerated showcases and counters (incorporating a refrigerating unit or evaporator) |
| **8418 50 11** | - - - For frozen food storage |
| **8418 50 11 10** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 50 11 90** | - - - - Other |
| **8418 50 19** | - - - Other |
| **8418 50 19 10** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 50 19 90** | - - - - Other |
| **8418 50 90** | - - Other refrigerating furniture |
| **8418 50 90 10** | - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 50 90 90** | - - - Other |
|  | **- Other refrigerating or freezing equipment; heat pumps** |
| **8418 61** | - - Heat pumps other than air conditioning machines of heading 8415 |
| **8418 61 00 10** | - - - For use in civil aircraft |
|  | - - - Other |
| **8418 61 00 91** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 61 00 99** | - - - - Other |
| **8418 69** | - - Other |
| **8418 69 00 10** | - - - For use in civil aircraft |
|  | - - - Other |
| **8418 69 00 91** | - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 69 00 99** | - - - - Other |
|  | **- Parts** |
| **8418 91 00 00** | - - Furniture designed to receive refrigerating or freezing equipment |
| **8418 99** | - - Other |
| **8418 99 10** | - - - Evaporators and condensers, excluding those for refrigerators of the household type |
| **8418 99 10 10** | - - - - For use in certain types of aircraft |
|  | - - - - Other |
|  | - - - - - Evaporator composed of aluminium fins and a copper coil of the kind used in refrigeration equipment |
| **8418 99 10 51** | - - - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 99 10 59** | - - - - - - Other |
|  | - - - - - Condenser composed of two concentric copper tubes of the kind used in refrigeration equipment |
| **8418 99 10 61** | - - - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 99 10 69** | - - - - - - Other |
| **8418 99 10 70** | - - - - - Evaporator made of aluminium for use in the manufacture of air conditioning machines for automobiles |
|  | - - - - - Other |
| **8418 99 10 81** | - - - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 99 10 87** | - - - - - - Other |
| **8418 99 90** | - - - Other |
| **8418 99 90 10** | - - - - Of refrigerating equipment adapted to the air-conditioning system, for use in certain types of aircraft |
|  | - - - - Other |
| **8418 99 90 91** | - - - - - Pre-charged with hydrofluorocarbons (HFCs) |
| **8418 99 90 99** | - - - - - Other |
| **8419** | **Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 8514), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric** |
|  | **- Instantaneous or storage water heaters, non-electric** |
| **8419 11 00 00** | - - Instantaneous gas water heaters |
| **8419 19 00 00** | - - Other |
| **8419 20 00 00** | **- Medical, surgical or laboratory sterilisers** |
|  | **- Dryers** |
| **8419 31 00 00** | - - For agricultural products |
| **8419 32 00 00** | - - For wood, paper pulp, paper or paperboard |
| **8419 39 00 00** | - - Other |
| **8419 40 00 00** | **- Distilling or rectifying plant** |
| **8419 50** | **- Heat-exchange units** |
| **8419 50 20 00** | - - Heat exchange units made of fluoropolymers and with inlet and outlet tube bores with inside diameters measuring 3 cm or less |
| **8419 50 80** | - - Other |
| **8419 50 80 10** | - - - For use in civil aircraft |
| **8419 50 80 90** | - - - Other |
| **8419 60 00 00** | **- Machinery for liquefying air or other gases** |
|  | **- Other machinery, plant and equipment** |
| **8419 81** | - - For making hot drinks or for cooking or heating food |
| **8419 81 20** | - - - Percolators and other appliances for making coffee and other hot drinks |
| **8419 81 20 10** | - - - - For use in civil aircraft |
| **8419 81 20 90** | - - - - Other |
| **8419 81 80** | - - - Other |
| **8419 81 80 10** | - - - - For use in civil aircraft |
| **8419 81 80 90** | - - - - Other |
| **8419 89** | - - Other |
| **8419 89 10 00** | - - - Cooling towers and similar plant for direct cooling (without a separating wall) by means of recirculated water |
| **8419 89 30 00** | - - - Vacuum-vapour plant for the deposition of metal |
| **8419 89 98 00** | - - - Other |
| **8419 90** | **- Parts** |
| **8419 90 15 00** | - - Of sterilisers of subheading 8419 20 00 |
| **8419 90 85** | - - Other |
| **8419 90 85 10** | - - - Of heat exchange units, for use in civil aircraft |
| **8419 90 85 30** | - - - Keypads of silicone or plastic, - whether or not with parts of metal, plastic, glass fibre reinforced epoxide resin or wood, - whether or not printed or surface treated, - whether or not with electrical conducting elements - whether or not with keypads foil glued on the keyboard - whether or not with protective foil - single or multilayer |
| **8419 90 85 90** | - - - Other |
| **8420** | **Calendering or other rolling machines, other than for metals or glass, and cylinders therefor** |
| **8420 10** | **- Calendering or other rolling machines** |
| **8420 10 10 00** | - - Of a kind used in the textile industry |
| **8420 10 30 00** | - - Of a kind used in the paper industry |
|  | - - Other |
| **8420 10 81 00** | - - - Roll laminators of a kind used solely or principally for the manufacture of printed circuit substrates or printed circuits |
| **8420 10 89 00** | - - - Other |
|  | **- Parts** |
| **8420 91** | - - Cylinders |
| **8420 91 10 00** | - - - Of cast iron |
| **8420 91 80 00** | - - - Other |
| **8420 99 00 00** | - - Other |
| **8421** | **Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases** |
|  | **- Centrifuges, including centrifugal dryers** |
| **8421 11 00 00** | - - Cream separators |
| **8421 12 00 00** | - - Clothes dryers |
| **8421 19** | - - Other |
| **8421 19 20 00** | - - - Centrifuges of a kind used in laboratories |
| **8421 19 70 00** | - - - Other |
|  | **- Filtering or purifying machinery and apparatus for liquids** |
| **8421 21** | - - For filtering or purifying water |
| **8421 21 00 10** | - - - For use in civil aircraft |
| **8421 21 00 20** | - - - Water pre-treatment system comprising one or more of the following elements, whether or not incorporating modules for sterilization and sanitization of these elements: - ultrafiltration system - carbon filtration system - water softener system for use in a biopharmaceutical laboratory |
| **8421 21 00 90** | - - - Other |
| **8421 22 00 00** | - - For filtering or purifying beverages other than water |
| **8421 23** | - - Oil or petrol filters for internal combustion engines |
| **8421 23 00 10** | - - - For use in civil aircraft |
| **8421 23 00 90** | - - - Other |
| **8421 29** | - - Other |
| **8421 29 20 00** | - - - Made of fluoropolymers and with filter or purifier membrane thickness not exceeding 140 microns |
| **8421 29 80** | - - - Other |
| **8421 29 80 10** | - - - - For use in civil aircraft |
| **8421 29 80 90** | - - - - Other |
|  | **- Filtering or purifying machinery and apparatus for gases** |
| **8421 31** | - - Intake air filters for internal combustion engines |
| **8421 31 00 10** | - - - For use in civil aircraft |
| **8421 31 00 90** | - - - Other |
| **8421 39** | - - Other |
| **8421 39 15 00** | - - - With stainless steel housing, and with inlet and outlet tube bores with inside diameters not exceeding 1.3 cm |
|  | - - - Other |
| **8421 39 25** | - - - - Machinery and apparatus for filtering or purifying air |
| **8421 39 25 10** | - - - - - For use in civil aircraft |
| **8421 39 25 90** | - - - - - Other |
|  | - - - - Machinery and apparatus for filtering or purifying other gases |
| **8421 39 35** | - - - - - By a catalytic process |
| **8421 39 35 10** | - - - - - - For use in civil aircraft |
| **8421 39 35 90** | - - - - - - Other |
| **8421 39 85** | - - - - - Other |
| **8421 39 85 10** | - - - - - - For use in civil aircraft |
| **8421 39 85 90** | - - - - - - Other |
|  | **- Parts** |
| **8421 91 00 00** | - - Of centrifuges, including centrifugal dryers |
| **8421 99** | - - Other |
| **8421 99 10 00** | - - - Parts of machinery and apparatus of subheadings 8421 29 20 or 8421 39 15 |
| **8421 99 90** | - - - Other |
| **8421 99 90 10** | - - - - Of filtering or purification machinery and apparatus for liquids or gases, for use in certain types of aircrafts |
| **8421 99 90 91** | - - - - Parts of equipment, for the purification of water by reverse osmosis, consisting of a bundle of hollow fibres of artificial plastic material with permeable walls, embedded in a block of artificial plastic material at one end and passing through a block of artificial plastic material at the other end, whether or not housed in a cylinder |
| **8421 99 90 92** | - - - - Parts of equipment for the purification of water by reverse osmosis, consisting essentially of plastic-based membranes, supported internally by woven or non-woven textile materials which are wound round a perforated tube, and enclosed in a cylindrical plastic casing of a wall-thickness of not more than 4 mm, whether or not housed in a cylinder of a wall-thickness of 5 mm or more |
| **8421 99 90 99** | - - - - Other |
| **8422** | **Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages** |
|  | **- Dishwashing machines** |
| **8422 11 00 00** | - - Of the household type |
| **8422 19 00 00** | - - Other |
| **8422 20 00 00** | **- Machinery for cleaning or drying bottles or other containers** |
| **8422 30 00 00** | **- Machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; machinery for aerating beverages** |
| **8422 40 00 00** | **- Other packing or wrapping machinery (including heat-shrink wrapping machinery)** |
| **8422 90** | **- Parts** |
| **8422 90 10 00** | - - Of dishwashing machines |
| **8422 90 90 00** | - - Other |
| **8423** | **Weighing machinery (excluding balances of a sensitivity of 5 cg or better), including weight-operated counting or checking machines; weighing machine weights of all kinds** |
| **8423 10** | **- Personal weighing machines, including baby scales; household scales** |
| **8423 10 10 00** | - - Household scales |
| **8423 10 90 00** | - - Other |
| **8423 20** | **- Scales for continuous weighing of goods on conveyors** |
| **8423 20 10 00** | - - Using electronic means for gauging weight |
| **8423 20 90 00** | - - Other |
| **8423 30** | **- Constant weight scales and scales for discharging a predetermined weight of material into a bag or container, including hopper scales** |
| **8423 30 10 00** | - - Using electronic means for gauging weight |
| **8423 30 90 00** | - - Other |
|  | **- Other weighing machinery** |
| **8423 81** | - - Having a maximum weighing capacity not exceeding 30 kg |
|  | - - - Using electronic means for gauging weight |
| **8423 81 21 00** | - - - - Check weighers and automatic control machines operating by reference to a pre-determined weight |
| **8423 81 23 00** | - - - - Machinery for weighing and labelling pre-packaged goods |
| **8423 81 25 00** | - - - - Shop scales |
| **8423 81 29 00** | - - - - Other |
| **8423 81 80 00** | - - - Other |
| **8423 82** | - - Having a maximum weighing capacity exceeding 30 kg but not exceeding 5 000 kg |
| **8423 82 20 00** | - - - Using electronic means for gauging weight, excluding machines for weighing motor vehicles |
|  | - - - Other |
| **8423 82 81 00** | - - - - Check weighers and automatic control machines operating by reference to a pre-determined weight |
| **8423 82 89 00** | - - - - Other |
| **8423 89** | - - Other |
| **8423 89 20 00** | - - - Using electronic means for gauging weight |
| **8423 89 80 00** | - - - Other |
| **8423 90** | **- Weighing machine weights of all kinds; parts of weighing machinery** |
| **8423 90 10 00** | - - Parts of weighing machinery of subheadings 8423 20 10, 8423 30 10, 8423 81 21, 8423 81 23 , 8423 81 25, 8423 81 29, 8423 82 20 or 8423 89 20 |
| **8423 90 90 00** | - - Other |
| **8424** | **Mechanical appliances (whether or not hand-operated) for projecting, dispersing or spraying liquids or powders; fire extinguishers, whether or not charged; spray guns and similar appliances; steam or sandblasting machines and similar jet projecting machines** |
| **8424 10** | **- Fire extinguishers, whether or not charged** |
| **8424 10 00 10** | - - For use in civil aircraft |
| **8424 10 00 90** | - - Other |
| **8424 20 00 00** | **- Spray guns and similar appliances** |
| **8424 30** | **- Steam or sandblasting machines and similar jet projecting machines** |
|  | - - Water cleaning appliances, with built-in motor |
| **8424 30 01 00** | - - - With heating device |
| **8424 30 08 00** | - - - Other |
|  | - - Other machines |
| **8424 30 10 00** | - - - Compressed air operated |
| **8424 30 90 00** | - - - Other |
|  | **- Agricultural or horticultural sprayers** |
| **8424 41 00 00** | - - Portable sprayers |
| **8424 49** | - - Other |
| **8424 49 10 00** | - - - Sprayers and powder distributors designed to be mounted on or drawn by tractors |
| **8424 49 90 00** | - - - Other |
|  | **- Other appliances** |
| **8424 82** | - - Agricultural or horticultural |
| **8424 82 10 00** | - - - Watering appliances |
| **8424 82 90 00** | - - - Other |
| **8424 89** | - - Other |
| **8424 89 40 00** | - - - Mechanical appliances for projecting, dispersing, or spraying of a kind used solely or principally for the manufacture of printed circuits or printed circuit assemblies |
| **8424 89 70** | - - - Other |
| **8424 89 70 20** | - - - - Mechanical passenger car headlights washer with telescopic hose, high pressure nozzles and mounting clamps for use in the manufacture of goods of Chapter 87 |
| **8424 89 70 90** | - - - - Other |
| **8424 90** | **- Parts** |
| **8424 90 20 00** | - - Parts of mechanical appliances of subheading 8424 89 40 |
| **8424 90 80** | - - Other |
| **8424 90 80 20** | - - - Of fire extinguishers, for use in certain types of aircraft |
| **8424 90 80 80** | - - - Other |
| **8425** | **Pulley tackle and hoists other than skip hoists; winches and capstans; jacks** |
|  | **- Pulley tackle and hoists other than skip hoists or hoists of a kind used for raising vehicles** |
| **8425 11 00 00** | - - Powered by electric motor |
| **8425 19 00 00** | - - Other |
|  | **- Winches; capstans** |
| **8425 31 00 00** | - - Powered by electric motor |
| **8425 39 00 00** | - - Other |
|  | **- Jacks; hoists of a kind used for raising vehicles** |
| **8425 41 00 00** | - - Built-in jacking systems of a type used in garages |
| **8425 42 00 00** | - - Other jacks and hoists, hydraulic |
| **8425 49 00 00** | - - Other |
| **8426** | **Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane** |
|  | **- Overhead travelling cranes, transporter cranes, gantry cranes, bridge cranes, mobile lifting frames and straddle carriers** |
| **8426 11 00 00** | - - Overhead travelling cranes on fixed support |
| **8426 12 00 00** | - - Mobile lifting frames on tyres and straddle carriers |
| **8426 19 00 00** | - - Other |
| **8426 20 00 00** | **- Tower cranes** |
| **8426 30 00 00** | **- Portal or pedestal jib cranes** |
|  | **- Other machinery, self-propelled** |
| **8426 41 00 00** | - - On tyres |
| **8426 49 00 00** | - - Other |
|  | **- Other machinery** |
| **8426 91** | - - Designed for mounting on road vehicles |
| **8426 91 10 00** | - - - Hydraulic cranes designed for the loading and unloading of the vehicle |
| **8426 91 90 00** | - - - Other |
| **8426 99 00 00** | - - Other |
| **8427** | **Fork-lift trucks; other works trucks fitted with lifting or handling equipment** |
| **8427 10** | **- Self-propelled trucks powered by an electric motor** |
| **8427 10 10 00** | - - With a lifting height of 1 m or more |
| **8427 10 90 00** | - - Other |
| **8427 20** | **- Other self-propelled trucks** |
|  | - - With a lifting height of 1 m or more |
| **8427 20 11 00** | - - - Rough terrain fork-lift and other stacking trucks |
| **8427 20 19 00** | - - - Other |
| **8427 20 90 00** | - - Other |
| **8427 90** | **- Other trucks** |
|  | - - Hand pallet trucks |
| **8427 90 00 11** | - - - Consigned from Thailand |
| **8427 90 00 13** | - - - Consigned from Vietnam |
| **8427 90 00 19** | - - - Other |
| **8427 90 00 30** | - - Hand pallet trucks with a so-called “weight indication system” consisting of a weighing mechanism not integrated in the chassis, that is to say not integrated in the forks |
| **8427 90 00 80** | - - Other |
| **8428** | **Other lifting, handling, loading or unloading machinery (for example, lifts, escalators, conveyors, teleferics)** |
| **8428 10** | **- Lifts and skip hoists** |
| **8428 10 20 00** | - - Electrically operated |
| **8428 10 80 00** | - - Other |
| **8428 20** | **- Pneumatic elevators and conveyors** |
| **8428 20 20 00** | - - For bulk materials |
| **8428 20 80 00** | - - Other |
|  | **- Other continuous-action elevators and conveyors, for goods or materials** |
| **8428 31 00 00** | - - Specially designed for underground use |
| **8428 32 00 00** | - - Other, bucket type |
| **8428 33 00 00** | - - Other, belt type |
| **8428 39** | - - Other |
| **8428 39 20 00** | - - - Roller conveyors |
| **8428 39 90 00** | - - - Other |
| **8428 40 00 00** | **- Escalators and moving walkways** |
| **8428 60 00 00** | **- Teleferics, chairlifts, ski-draglines; traction mechanisms for funiculars** |
| **8428 90** | **- Other machinery** |
|  | - - Loaders specially designed for use in agriculture |
| **8428 90 71 00** | - - - Designed for attachment to agricultural tractors |
| **8428 90 79 00** | - - - Other |
| **8428 90 90 00** | - - Other |
| **8429** | **Self-propelled bulldozers, angledozers, graders, levellers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and roadrollers** |
|  | **- Bulldozers and angledozers** |
| **8429 11 00 00** | - - Track laying |
| **8429 19 00 00** | - - Other |
| **8429 20 00 00** | **- Graders and levellers** |
| **8429 30 00 00** | **- Scrapers** |
| **8429 40** | **- Tamping machines and roadrollers** |
|  | - - Roadrollers |
| **8429 40 10 00** | - - - Vibratory |
| **8429 40 30 00** | - - - Other |
| **8429 40 90 00** | - - Tamping machines |
|  | **- Mechanical shovels, excavators and shovel loaders** |
| **8429 51** | - - Front-end shovel loaders |
| **8429 51 10 00** | - - - Loaders specially designed for underground use |
|  | - - - Other |
| **8429 51 91 00** | - - - - Crawler shovel loaders |
| **8429 51 99 00** | - - - - Other |
| **8429 52** | - - Machinery with a 360° revolving superstructure |
| **8429 52 10 00** | - - - Track-laying excavators |
| **8429 52 90 00** | - - - Other |
| **8429 59 00 00** | - - Other |
| **8430** | **Other moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or ores; piledrivers and pile extractors; snowploughs and snowblowers** |
| **8430 10 00 00** | **- Piledrivers and pile extractors** |
| **8430 20 00 00** | **- Snowploughs and snowblowers** |
|  | **- Coal or rock cutters and tunnelling machinery** |
| **8430 31 00 00** | - - Self-propelled |
| **8430 39 00 00** | - - Other |
|  | **- Other boring or sinking machinery** |
| **8430 41 00 00** | - - Self-propelled |
| **8430 49 00 00** | - - Other |
| **8430 50 00 00** | **- Other machinery, self-propelled** |
|  | **- Other machinery, not self-propelled** |
| **8430 61 00 00** | - - Tamping or compacting machinery |
| **8430 69 00 00** | - - Other |
| **8431** | **Parts suitable for use solely or principally with the machinery of headings 8425 to 8430** |
| **8431 10 00 00** | **- Of machinery of heading 8425** |
| **8431 20** | **- Of machinery of heading 8427** |
|  | - - Chassis and hydraulics for hand pallet trucks |
| **8431 20 00 11** | - - - Consigned from Thailand |
| **8431 20 00 13** | - - - Consigned from Vietnam |
| **8431 20 00 19** | - - - Other |
| **8431 20 00 30** | - - Drive axle assembly containing differential, reduction gears, crown wheel, drive shafts, wheel hubs, brakes and mast mounting arms for use in the manufacture of vehicles in heading 8427 |
| **8431 20 00 40** | - - Aluminium core, plastic tank radiator, with integral steel support structure and an open core square wave design of 9 fins per 2.54 cm of core length for use in the manufacture of vehicles of heading 8427 |
| **8431 20 00 50** | - - Chassis and hydraulics, with a so-called ‘weight indication system’ consisting of a weighing mechanism not integrated in the chassis, that is to say not integrated in the forks |
| **8431 20 00 80** | - - Other |
|  | **- Of machinery of heading 8428** |
| **8431 31 00 00** | - - Of lifts, skip hoists or escalators |
| **8431 39 00 00** | - - Other |
|  | **- Of machinery of heading 8426, 8429 or 8430** |
| **8431 41 00 00** | - - Buckets, shovels, grabs and grips |
| **8431 42 00 00** | - - Bulldozer or angledozer blades |
| **8431 43 00 00** | - - Parts for boring or sinking machinery of subheading 8430 41 or 8430 49 |
| **8431 49** | - - Other |
| **8431 49 20 00** | - - - Of cast iron or cast steel |
| **8431 49 80 00** | - - - Other |
| **8432** | **Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers** |
| **8432 10 00 00** | **- Ploughs** |
|  | **- Harrows, scarifiers, cultivators, weeders and hoes** |
| **8432 21 00 00** | - - Disc harrows |
| **8432 29** | - - Other |
| **8432 29 10 00** | - - - Scarifiers and cultivators |
| **8432 29 30 00** | - - - Harrows |
| **8432 29 50 00** | - - - Rotovators |
| **8432 29 90 00** | - - - Other |
|  | **- Seeders, planters and transplanters** |
| **8432 31 00 00** | - - No-till direct seeders, planters and transplanters |
| **8432 39** | - - Other |
|  | - - - Seeders |
| **8432 39 11 00** | - - - - Central driven precision spacing seeders |
| **8432 39 19 00** | - - - - Other |
| **8432 39 90 00** | - - - Planters and transplanters |
|  | **- Manure spreaders and fertiliser distributors** |
| **8432 41 00 00** | - - Manure spreaders |
| **8432 42 00 00** | - - Fertiliser distributors |
| **8432 80 00 00** | **- Other machinery** |
| **8432 90 00 00** | **- Parts** |
| **8433** | **Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading 8437** |
|  | **- Mowers for lawns, parks or sports grounds** |
| **8433 11** | - - Powered, with the cutting device rotating in a horizontal plane |
| **8433 11 10 00** | - - - Electric |
|  | - - - Other |
|  | - - - - Self-propelled |
| **8433 11 51 00** | - - - - - With a seat |
| **8433 11 59 00** | - - - - - Other |
| **8433 11 90 00** | - - - - Other |
| **8433 19** | - - Other |
|  | - - - With motor |
| **8433 19 10 00** | - - - - Electric |
|  | - - - - Other |
|  | - - - - - Self-propelled |
| **8433 19 51 00** | - - - - - - With a seat |
| **8433 19 59 00** | - - - - - - Other |
| **8433 19 70 00** | - - - - - Other |
| **8433 19 90 00** | - - - Without motor |
| **8433 20** | **- Other mowers, including cutter bars for tractor mounting** |
| **8433 20 10 00** | - - With motor |
|  | - - Other |
| **8433 20 50 00** | - - - Designed to be carried on or hauled by a tractor |
| **8433 20 90 00** | - - - Other |
| **8433 30 00 00** | **- Other haymaking machinery** |
| **8433 40 00 00** | **- Straw or fodder balers, including pick-up balers** |
|  | **- Other harvesting machinery; threshing machinery** |
| **8433 51 00 00** | - - Combine harvester-threshers |
| **8433 52 00 00** | - - Other threshing machinery |
| **8433 53** | - - Root or tuber harvesting machines |
| **8433 53 10 00** | - - - Potato diggers and potato harvesters |
| **8433 53 30 00** | - - - Beet-topping machines and beet harvesters |
| **8433 53 90 00** | - - - Other |
| **8433 59** | - - Other |
|  | - - - Forage harvesters |
| **8433 59 11 00** | - - - - Self-propelled |
| **8433 59 19 00** | - - - - Other |
| **8433 59 85 00** | - - - Other |
| **8433 60 00 00** | **- Machines for cleaning, sorting or grading eggs, fruit or other agricultural produce** |
| **8433 90 00 00** | **- Parts** |
| **8434** | **Milking machines and dairy machinery** |
| **8434 10 00 00** | **- Milking machines** |
| **8434 20 00 00** | **- Dairy machinery** |
| **8434 90 00 00** | **- Parts** |
| **8435** | **Presses, crushers and similar machinery used in the manufacture of wine, cider, fruit juices or similar beverages** |
| **8435 10 00 00** | **- Machinery** |
| **8435 90 00 00** | **- Parts** |
| **8436** | **Other agricultural, horticultural, forestry, poultry-keeping or bee-keeping machinery, including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders** |
| **8436 10 00 00** | **- Machinery for preparing animal feedingstuffs** |
|  | **- Poultry-keeping machinery; poultry incubators and brooders** |
| **8436 21 00 00** | - - Poultry incubators and brooders |
| **8436 29 00 00** | - - Other |
| **8436 80** | **- Other machinery** |
| **8436 80 10 00** | - - Forestry machinery |
| **8436 80 90 00** | - - Other |
|  | **- Parts** |
| **8436 91 00 00** | - - Of poultry-keeping machinery or poultry incubators and brooders |
| **8436 99** | - - Other |
| **8436 99 00 10** | - - - Part containing: - a single-phase AC motor, - an epicyclic gearing, - a cutter blade and whether or not containing: - a capacitor, - a part fitted with a threaded bolt for use in the manufacture of garden shredders |
| **8436 99 00 90** | - - - Other |
| **8437** | **Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables; machinery used in the milling industry or for the working of cereals or dried leguminous vegetables, other than farm-type machinery** |
| **8437 10 00 00** | **- Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables** |
| **8437 80 00 00** | **- Other machinery** |
| **8437 90 00 00** | **- Parts** |
| **8438** | **Machinery, not specified or included elsewhere in this chapter, for the industrial preparation or manufacture of food or drink, other than machinery for the extraction or preparation of animal or fixed vegetable fats or oils** |
| **8438 10** | **- Bakery machinery and machinery for the manufacture of macaroni, spaghetti or similar products** |
| **8438 10 10 00** | - - Bakery machinery |
| **8438 10 90 00** | - - Machinery for the manufacture of macaroni, spaghetti or similar products |
| **8438 20 00 00** | **- Machinery for the manufacture of confectionery, cocoa or chocolate** |
| **8438 30 00 00** | **- Machinery for sugar manufacture** |
| **8438 40 00 00** | **- Brewery machinery** |
| **8438 50 00 00** | **- Machinery for the preparation of meat or poultry** |
| **8438 60 00 00** | **- Machinery for the preparation of fruits, nuts or vegetables** |
| **8438 80** | **- Other machinery** |
| **8438 80 10 00** | - - For the preparation of tea or coffee |
|  | - - Other |
| **8438 80 91 00** | - - - For the preparation or manufacture of drink |
| **8438 80 99 00** | - - - Other |
| **8438 90** | **- Parts** |
| **8438 90 00 20** | - - Keypads of silicone or plastic, - whether or not with parts of metal, plastic, glass fibre reinforced epoxide resin or wood, - whether or not printed or surface treated, - whether or not with electrical conducting elements - whether or not with keypads foil glued on the keyboard - whether or not with protective foil - single or multilayer |
| **8438 90 00 90** | - - Other |
| **8439** | **Machinery for making pulp of fibrous cellulosic material or for making or finishing paper or paperboard** |
| **8439 10 00 00** | **- Machinery for making pulp of fibrous cellulosic material** |
| **8439 20 00 00** | **- Machinery for making paper or paperboard** |
| **8439 30 00 00** | **- Machinery for finishing paper or paperboard** |
|  | **- Parts** |
| **8439 91 00 00** | - - Of machinery for making pulp of fibrous cellulosic material |
| **8439 99** | - - Other |
| **8439 99 00 10** | - - - Suction-roll shells, produced by centrifugal casting, not drilled, in the form of alloy-steel tubes, of a length of 3 000 mm or more and an external diameter of 550 mm or more |
| **8439 99 00 90** | - - - Other |
| **8440** | **Bookbinding machinery, including book-sewing machines** |
| **8440 10** | **- Machinery** |
| **8440 10 10 00** | - - Folding machines |
| **8440 10 20 00** | - - Collating machines and gathering machines |
| **8440 10 30 00** | - - Sewing, wire stitching and stapling machines |
| **8440 10 40 00** | - - Unsewn (perfect) binding machines |
| **8440 10 90 00** | - - Other |
| **8440 90 00 00** | **- Parts** |
| **8441** | **Other machinery for making up paper pulp, paper or paperboard, including cutting machines of all kinds** |
| **8441 10** | **- Cutting machines** |
| **8441 10 10 00** | - - Combined reel slitting and re-reeling machines |
| **8441 10 20 00** | - - Other slitting and cross-cutting machines |
| **8441 10 30 00** | - - Guillotines |
| **8441 10 70 00** | - - Other |
| **8441 20 00 00** | **- Machines for making bags, sacks or envelopes** |
| **8441 30 00 00** | **- Machines for making cartons, boxes, cases, tubes, drums or similar containers, other than by moulding** |
| **8441 40 00 00** | **- Machines for moulding articles in paper pulp, paper or paperboard** |
| **8441 80 00 00** | **- Other machinery** |
| **8441 90** | **- Parts** |
| **8441 90 10 00** | - - Of cutting machines |
| **8441 90 90 00** | - - Other |
| **8442** | **Machinery, apparatus and equipment (other than the machines of headings 8456 to 8465) for preparing or making plates, cylinders or other printing components; plates, cylinders and other printing components; plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished)** |
| **8442 30 00 00** | **- Machinery, apparatus and equipment** |
| **8442 40 00 00** | **- Parts of the foregoing machinery, apparatus or equipment** |
| **8442 50 00 00** | **- Plates, cylinders and other printing components; plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished)** |
| **8443** | **Printing machinery used for printing by means of plates, cylinders and other printing components of heading 8442; other printers, copying machines and facsimile machines, whether or not combined; parts and accessories thereof** |
|  | **- Printing machinery used for printing by means of plates, cylinders and other printing components of heading 8442** |
| **8443 11 00 00** | - - Offset printing machinery, reel fed |
| **8443 12 00 00** | - - Offset printing machinery, sheet fed, office type (using sheets with one side not exceeding 22 cm and the other side not exceeding 36 cm in the unfolded state) |
| **8443 13** | - - Other offset printing machinery |
|  | - - - Sheet fed |
| **8443 13 10 00** | - - - - Used |
|  | - - - - New, taking sheets of a size |
| **8443 13 32 00** | - - - - - Not exceeding 53 x 75 cm |
| **8443 13 34 00** | - - - - - Exceeding 53 x 75 cm but not exceeding 75 x 107 cm |
| **8443 13 38 00** | - - - - - Exceeding 75 x 107 cm |
| **8443 13 90 00** | - - - Other |
| **8443 14 00 00** | - - Letterpress printing machinery, reel fed, excluding flexographic printing |
| **8443 15 00 00** | - - Letterpress printing machinery, other than reel fed, excluding flexographic printing |
| **8443 16 00 00** | - - Flexographic printing machinery |
| **8443 17 00 00** | - - Gravure printing machinery |
| **8443 19** | - - Other |
| **8443 19 20 00** | - - - For printing textile materials |
| **8443 19 40 00** | - - - For use in the production of semiconductors |
| **8443 19 70 00** | - - - Other |
|  | **- Other printers, copying machines and facsimile machines, whether or not combined** |
| **8443 31 00 00** | - - Machines which perform two or more of the functions of printing, copying or facsimile transmission, capable of connecting to an automatic data-processing machine or to a network |
| **8443 32** | - - Other, capable of connecting to an automatic data-processing machine or to a network |
| **8443 32 10 00** | - - - Printers |
| **8443 32 80 00** | - - - Other |
| **8443 39 00 00** | - - Other |
|  | **- Parts and accessories** |
| **8443 91** | - - Parts and accessories of printing machinery used for printing by means of plates, cylinders and other printing components of heading 8442 |
| **8443 91 10 00** | - - - Of apparatus of subheading 8443 19 40 |
|  | - - - Other |
| **8443 91 91 00** | - - - - Of cast iron or cast steel |
| **8443 91 99 00** | - - - - Other |
| **8443 99** | - - Other |
| **8443 99 10 00** | - - - Electronic assemblies |
| **8443 99 90 00** | - - - Other |
| **8444** | **Machines for extruding, drawing, texturing or cutting man-made textile materials** |
| **8444 00 10 00** | **- Machines for extruding** |
| **8444 00 90 00** | **- Other** |
| **8445** | **Machines for preparing textile fibres; spinning, doubling or twisting machines and other machinery for producing textile yarns; textile reeling or winding (including weft-winding) machines and machines for preparing textile yarns for use on the machines of heading 8446 or 8447** |
|  | **- Machines for preparing textile fibres** |
| **8445 11 00 00** | - - Carding machines |
| **8445 12 00 00** | - - Combing machines |
| **8445 13 00 00** | - - Drawing or roving machines |
| **8445 19 00 00** | - - Other |
| **8445 20 00 00** | **- Textile spinning machines** |
| **8445 30 00 00** | **- Textile doubling or twisting machines** |
| **8445 40 00 00** | **- Textile winding (including weft-winding) or reeling machines** |
| **8445 90 00 00** | **- Other** |
| **8446** | **Weaving machines (looms)** |
| **8446 10 00 00** | **- For weaving fabrics of a width not exceeding 30 cm** |
|  | **- For weaving fabrics of a width exceeding 30 cm, shuttle type** |
| **8446 21 00 00** | - - Power looms |
| **8446 29 00 00** | - - Other |
| **8446 30 00 00** | **- For weaving fabrics of a width exceeding 30 cm, shuttleless type** |
| **8447** | **Knitting machines, stitch-bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting** |
|  | **- Circular knitting machines** |
| **8447 11 00 00** | - - With cylinder diameter not exceeding 165 mm |
| **8447 12 00 00** | - - With cylinder diameter exceeding 165 mm |
| **8447 20** | **- Flat knitting machines; stitch-bonding machines** |
| **8447 20 20 00** | - - Warp knitting machines (including Raschel type); stitch-bonding machines |
| **8447 20 80 00** | - - Other |
| **8447 90 00 00** | **- Other** |
| **8448** | **Auxiliary machinery for use with machines of heading 8444, 8445, 8446 or 8447 (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 8444, 8445, 8446 or 8447 (for example, spindles and spindle flyers, card clothing, combs, extruding nipples, shuttles, healds and heald-frames, hosiery needles)** |
|  | **- Auxiliary machinery for machines of heading 8444, 8445, 8446 or 8447** |
| **8448 11 00 00** | - - Dobbies and jacquards; card-reducing, copying, punching or assembling machines for use therewith |
| **8448 19 00 00** | - - Other |
| **8448 20 00 00** | **- Parts and accessories of machines of heading 8444 or of their auxiliary machinery** |
|  | **- Parts and accessories of machines of heading 8445 or of their auxiliary machinery** |
| **8448 31 00 00** | - - Card clothing |
| **8448 32 00 00** | - - Of machines for preparing textile fibres, other than card clothing |
| **8448 33 00 00** | - - Spindles, spindle flyers, spinning rings and ring travellers |
| **8448 39 00 00** | - - Other |
|  | **- Parts and accessories of weaving machines (looms) or of their auxiliary machinery** |
| **8448 42 00 00** | - - Reeds for looms, healds and heald-frames |
| **8448 49 00 00** | - - Other |
|  | **- Parts and accessories of machines of heading 8447 or of their auxiliary machinery** |
| **8448 51** | - - Sinkers, needles and other articles used in forming stitches |
| **8448 51 10 00** | - - - Sinkers |
| **8448 51 90 00** | - - - Other |
| **8448 59 00 00** | - - Other |
| **8449 00 00 00** | **Machinery for the manufacture or finishing of felt or nonwovens in the piece or in shapes, including machinery for making felt hats; blocks for making hats** |
| **8450** | **Household or laundry-type washing machines, including machines which both wash and dry** |
|  | **- Machines, each of a dry linen capacity not exceeding 10 kg** |
| **8450 11** | - - Fully-automatic machines |
|  | - - - Each of a dry linen capacity not exceeding 6 kg |
| **8450 11 11 00** | - - - - Front-loading machines |
| **8450 11 19 00** | - - - - Top-loading machines |
| **8450 11 90 00** | - - - Each of a dry linen capacity exceeding 6 kg but not exceeding 10 kg |
| **8450 12 00 00** | - - Other machines, with built-in centrifugal drier |
| **8450 19 00 00** | - - Other |
| **8450 20 00 00** | **- Machines, each of a dry linen capacity exceeding 10 kg** |
| **8450 90 00 00** | **- Parts** |
| **8451** | **Machinery (other than machines of heading 8450) for washing, cleaning, wringing, drying, ironing, pressing (including fusing presses), bleaching, dyeing, dressing, finishing, coating or impregnating textile yarns, fabrics or made-up textile articles and machines for applying the paste to the base fabric or other support used in the manufacture of floor coverings such as linoleum; machines for reeling, unreeling, folding, cutting or pinking textile fabrics** |
| **8451 10 00 00** | **- Dry-cleaning machines** |
|  | **- Drying machines** |
| **8451 21 00 00** | - - Each of a dry linen capacity not exceeding 10 kg |
| **8451 29 00 00** | - - Other |
| **8451 30 00 00** | **- Ironing machines and presses (including fusing presses)** |
| **8451 40 00 00** | **- Washing, bleaching or dyeing machines** |
| **8451 50 00 00** | **- Machines for reeling, unreeling, folding, cutting or pinking textile fabrics** |
| **8451 80** | **- Other machinery** |
| **8451 80 10 00** | - - Machines used in the manufacture of linoleum or other floor coverings for applying the paste to the base fabric or other support |
| **8451 80 30 00** | - - Machines for dressing or finishing |
| **8451 80 80 00** | - - Other |
| **8451 90 00 00** | **- Parts** |
| **8452** | **Sewing machines, other than book-sewing machines of heading 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles** |
| **8452 10** | **- Sewing machines of the household type** |
|  | - - Sewing machines (lock-stitch only), with heads of a weight not exceeding 16 kg without motor or 17 kg including the motor; sewing machine heads (lock-stitch only), of a weight not exceeding 16 kg without motor or 17 kg including the motor |
| **8452 10 11 00** | - - - Sewing machines having a value (not including frames, tables or furniture) of more than € 65 each |
| **8452 10 19 00** | - - - Other |
| **8452 10 90 00** | - - Other sewing machines and other sewing machine heads |
|  | **- Other sewing machines** |
| **8452 21 00 00** | - - Automatic units |
| **8452 29 00 00** | - - Other |
| **8452 30 00 00** | **- Sewing machine needles** |
| **8452 90 00 00** | **- Furniture, bases and covers for sewing machines and parts thereof; other parts of sewing machines** |
| **8453** | **Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather, other than sewing machines** |
| **8453 10 00 00** | **- Machinery for preparing, tanning or working hides, skins or leather** |
| **8453 20 00 00** | **- Machinery for making or repairing footwear** |
| **8453 80 00 00** | **- Other machinery** |
| **8453 90 00 00** | **- Parts** |
| **8454** | **Converters, ladles, ingot moulds and casting machines, of a kind used in metallurgy or in metal foundries** |
| **8454 10 00 00** | **- Converters** |
| **8454 20 00 00** | **- Ingot moulds and ladles** |
| **8454 30** | **- Casting machines** |
| **8454 30 10 00** | - - For casting under pressure |
| **8454 30 90 00** | - - Other |
| **8454 90 00 00** | **- Parts** |
| **8455** | **Metal-rolling mills and rolls therefor** |
| **8455 10 00 00** | **- Tube mills** |
|  | **- Other rolling mills** |
| **8455 21 00 00** | - - Hot or combination hot and cold |
| **8455 22 00 00** | - - Cold |
| **8455 30** | **- Rolls for rolling mills** |
| **8455 30 10 00** | - - Of cast iron |
|  | - - Of open-die forged steel |
| **8455 30 31 00** | - - - Hot-rolling work-rolls; hot-rolling and cold-rolling back-up rolls |
| **8455 30 39 00** | - - - Cold-rolling work-rolls |
| **8455 30 90 00** | - - Other |
| **8455 90 00 00** | **- Other parts** |
| **8456** | **Machine tools for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electrodischarge, electrochemical, electron beam, ionic-beam or plasma arc processes; water-jet cutting machines** |
|  | **- Operated by laser or other light or photon beam processes** |
| **8456 11** | - - Operated by laser |
| **8456 11 10 00** | - - - Of a kind used solely or principally for the manufacture of printed circuits, printed circuit assemblies, parts of heading 8517, or parts of automatic data processing machines |
| **8456 11 90 00** | - - - Other |
| **8456 12** | - - Operated by other light or photon beam processes |
| **8456 12 10 00** | - - - Of a kind used solely or principally for the manufacture of printed circuits, printed circuit assemblies, parts of heading 8517, or parts of automatic data processing machines |
| **8456 12 90 00** | - - - Other |
| **8456 20 00 00** | **- Operated by ultrasonic processes** |
| **8456 30** | **- Operated by electrodischarge processes** |
|  | - - Numerically controlled |
| **8456 30 11 00** | - - - Wire-cut |
| **8456 30 19 00** | - - - Other |
| **8456 30 90 00** | - - Other |
| **8456 40 00 00** | **- Operated by plasma arc processes** |
| **8456 50 00 00** | **- Water-jet cutting machines** |
| **8456 90 00 00** | **- Other** |
| **8457** | **Machining centres, unit construction machines (single station) and multi-station transfer machines, for working metal** |
| **8457 10** | **- Machining centres** |
| **8457 10 10 00** | - - Horizontal |
| **8457 10 90 00** | - - Other |
| **8457 20 00 00** | **- Unit construction machines (single station)** |
| **8457 30** | **- Multi-station transfer machines** |
| **8457 30 10 00** | - - Numerically controlled |
| **8457 30 90 00** | - - Other |
| **8458** | **Lathes (including turning centres) for removing metal** |
|  | **- Horizontal lathes** |
| **8458 11** | - - Numerically controlled |
| **8458 11 20 00** | - - - Turning centres |
|  | - - - Automatic lathes |
| **8458 11 41 00** | - - - - Single spindle |
| **8458 11 49 00** | - - - - Multi-spindle |
| **8458 11 80 00** | - - - Other |
| **8458 19 00 00** | - - Other |
|  | **- Other lathes** |
| **8458 91** | - - Numerically controlled |
| **8458 91 20 00** | - - - Turning centres |
| **8458 91 80 00** | - - - Other |
| **8458 99 00 00** | - - Other |
| **8459** | **Machine tools (including way-type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes (including turning centres) of heading 8458** |
| **8459 10 00 00** | **- Way-type unit head machines** |
|  | **- Other drilling machines** |
| **8459 21 00 00** | - - Numerically controlled |
| **8459 29 00 00** | - - Other |
|  | **- Other boring-milling machines** |
| **8459 31 00 00** | - - Numerically controlled |
| **8459 39 00 00** | - - Other |
|  | **- Other boring machines** |
| **8459 41 00 00** | - - Numerically controlled |
| **8459 49 00 00** | - - Other |
|  | **- Milling machines, knee-type** |
| **8459 51 00 00** | - - Numerically controlled |
| **8459 59 00 00** | - - Other |
|  | **- Other milling machines** |
| **8459 61** | - - Numerically controlled |
| **8459 61 10 00** | - - - Tool milling machines |
| **8459 61 90 00** | - - - Other |
| **8459 69** | - - Other |
| **8459 69 10 00** | - - - Tool milling machines |
| **8459 69 90 00** | - - - Other |
| **8459 70 00 00** | **- Other threading or tapping machines** |
| **8460** | **Machine tools for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal or cermets by means of grinding stones, abrasives or polishing products, other than gear cutting, gear grinding or gear finishing machines of heading 8461** |
|  | **- Flat-surface grinding machines** |
| **8460 12 00 00** | - - Numerically controlled |
| **8460 19 00 00** | - - Other |
|  | **- Other grinding machines** |
| **8460 22 00 00** | - - Centreless grinding machines, numerically controlled |
| **8460 23 00 00** | - - Other cylindrical grinding machines, numerically controlled |
| **8460 24 00 00** | - - Other, numerically controlled |
| **8460 29** | - - Other |
| **8460 29 10 00** | - - - For cylindrical surfaces |
| **8460 29 90 00** | - - - Other |
|  | **- Sharpening (tool or cutter grinding) machines** |
| **8460 31 00 00** | - - Numerically controlled |
| **8460 39 00 00** | - - Other |
| **8460 40** | **- Honing or lapping machines** |
| **8460 40 10 00** | - - Numerically controlled |
| **8460 40 90 00** | - - Other |
| **8460 90 00 00** | **- Other** |
| **8461** | **Machine tools for planing, shaping, slotting, broaching, gear cutting, gear grinding or gear finishing, sawing, cutting-off and other machine tools working by removing metal or cermets, not elsewhere specified or included** |
| **8461 20 00 00** | **- Shaping or slotting machines** |
| **8461 30** | **- Broaching machines** |
| **8461 30 10 00** | - - Numerically controlled |
| **8461 30 90 00** | - - Other |
| **8461 40** | **- Gear-cutting, gear-grinding or gear-finishing machines** |
|  | - - Gear-cutting machines (including abrasive gear-cutting machines) |
|  | - - - For cutting cylindrical gears |
| **8461 40 11 00** | - - - - Numerically controlled |
| **8461 40 19 00** | - - - - Other |
|  | - - - For cutting other gears |
| **8461 40 31 00** | - - - - Numerically controlled |
| **8461 40 39 00** | - - - - Other |
|  | - - Gear-finishing machines |
|  | - - - Fitted with a micrometric adjusting system, in which the positioning in any one axis can be set up to an accuracy of at least 0.01 mm |
| **8461 40 71 00** | - - - - Numerically controlled |
| **8461 40 79 00** | - - - - Other |
| **8461 40 90 00** | - - - Other |
| **8461 50** | **- Sawing or cutting-off machines** |
|  | - - Sawing machines |
| **8461 50 11 00** | - - - Circular saws |
| **8461 50 19 00** | - - - Other |
| **8461 50 90 00** | - - Cutting-off machines |
| **8461 90 00 00** | **- Other** |
| **8462** | **Machine tools (including presses) for working metal by forging, hammering or die-stamping; machine tools (including presses) for working metal by bending, folding, straightening, flattening, shearing, punching or notching; presses for working metal or metal carbides, not specified above** |
| **8462 10** | **- Forging or die-stamping machines (including presses) and hammers** |
| **8462 10 10 00** | - - Numerically controlled |
| **8462 10 90 00** | - - Other |
|  | **- Bending, folding, straightening or flattening machines (including presses)** |
| **8462 21** | - - Numerically controlled |
| **8462 21 10 00** | - - - For working flat products |
| **8462 21 80 00** | - - - Other |
| **8462 29** | - - Other |
| **8462 29 10 00** | - - - For working flat products |
|  | - - - Other |
| **8462 29 91 00** | - - - - Hydraulic |
| **8462 29 98 00** | - - - - Other |
|  | **- Shearing machines (including presses), other than combined punching and shearing machines** |
| **8462 31 00 00** | - - Numerically controlled |
| **8462 39** | - - Other |
| **8462 39 10 00** | - - - For working flat products |
|  | - - - Other |
| **8462 39 91 00** | - - - - Hydraulic |
| **8462 39 99 00** | - - - - Other |
|  | **- Punching or notching machines (including presses), including combined punching and shearing machines** |
| **8462 41** | - - Numerically controlled |
| **8462 41 10 00** | - - - For working flat products |
| **8462 41 90 00** | - - - Other |
| **8462 49** | - - Other |
| **8462 49 10 00** | - - - For working flat products |
| **8462 49 90 00** | - - - Other |
|  | **- Other** |
| **8462 91** | - - Hydraulic presses |
| **8462 91 20 00** | - - - Numerically controlled |
| **8462 91 80 00** | - - - Other |
| **8462 99** | - - Other |
| **8462 99 20 00** | - - - Numerically controlled |
| **8462 99 80 00** | - - - Other |
| **8463** | **Other machine tools for working metal or cermets, without removing material** |
| **8463 10** | **- Drawbenches for bars, tubes, profiles, wire or the like** |
| **8463 10 10 00** | - - Drawbenches for wire |
| **8463 10 90 00** | - - Other |
| **8463 20 00 00** | **- Thread-rolling machines** |
| **8463 30 00 00** | **- Machines for working wire** |
| **8463 90 00 00** | **- Other** |
| **8464** | **Machine tools for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass** |
| **8464 10 00 00** | **- Sawing machines** |
| **8464 20** | **- Grinding or polishing machines** |
|  | - - For working glass |
| **8464 20 11 00** | - - - Optical glass |
| **8464 20 19 00** | - - - Other |
| **8464 20 80 00** | - - Other |
| **8464 90 00 00** | **- Other** |
| **8465** | **Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials** |
| **8465 10** | **- Machines which can carry out different types of machining operations without tool change between such operations** |
| **8465 10 10 00** | - - With manual transfer of workpiece between each operation |
| **8465 10 90 00** | - - With automatic transfer of workpiece between each operation |
| **8465 20 00 00** | **- Machining centres** |
|  | **- Other** |
| **8465 91** | - - Sawing machines |
| **8465 91 10 00** | - - - Bandsaws |
| **8465 91 20 00** | - - - Circular saws |
| **8465 91 90 00** | - - - Other |
| **8465 92 00 00** | - - Planing, milling or moulding (by cutting) machines |
| **8465 93 00 00** | - - Grinding, sanding or polishing machines |
| **8465 94 00 00** | - - Bending or assembling machines |
| **8465 95 00 00** | - - Drilling or morticing machines |
| **8465 96 00 00** | - - Splitting, slicing or paring machines |
| **8465 99 00 00** | - - Other |
| **8466** | **Parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for the machines; tool holders for any type of tool for working in the hand** |
| **8466 10** | **- Tool holders and self-opening dieheads** |
|  | - - Tool holders |
| **8466 10 20 00** | - - - Arbors, collets and sleeves |
|  | - - - Other |
| **8466 10 31 00** | - - - - For lathes |
| **8466 10 38 00** | - - - - Other |
| **8466 10 80 00** | - - Self-opening dieheads |
| **8466 20** | **- Work holders** |
| **8466 20 20 00** | - - Jigs and fixtures for specific applications; sets of standard jig and fixture components |
|  | - - Other |
| **8466 20 91 00** | - - - For lathes |
| **8466 20 98 00** | - - - Other |
| **8466 30 00 00** | **- Dividing heads and other special attachments for machines** |
|  | **- Other** |
| **8466 91** | - - For machines of heading 8464 |
| **8466 91 20 00** | - - - Of cast iron or cast steel |
| **8466 91 95 00** | - - - Other |
| **8466 92** | - - For machines of heading 8465 |
| **8466 92 20 00** | - - - Of cast iron or cast steel |
| **8466 92 80 00** | - - - Other |
| **8466 93** | - - For machines of headings 8456 to 8461 |
| **8466 93 40 00** | - - - Parts and accessories of machines of subheadings 8456 11 10, 8456 12 10, 8456 20, 8456 30, 8457 10, 8458 91, 8459 21 00, 8459 61 or 8461 50 of a kind used solely or principally for the manufacture of printed circuits, printed circuit assemblies, parts of heading 8517, or parts of automatic data processing machines |
|  | - - - Other |
| **8466 93 50 00** | - - - - For machines of subheading 8456 50 00 |
| **8466 93 60 00** | - - - - Other |
| **8466 94 00 00** | - - For machines of heading 8462 or 8463 |
| **8467** | **Tools for working in the hand, pneumatic, hydraulic or with self-contained electric or non-electric motor** |
|  | **- Pneumatic** |
| **8467 11** | - - Rotary type (including combined rotary-percussion) |
| **8467 11 10 00** | - - - Metalworking |
| **8467 11 90 00** | - - - Other |
| **8467 19 00 00** | - - Other |
|  | **- With self-contained electric motor** |
| **8467 21** | - - Drills of all kinds |
| **8467 21 10 00** | - - - Capable of operation without an external source of power |
|  | - - - Other |
| **8467 21 91 00** | - - - - Electropneumatic |
| **8467 21 99 00** | - - - - Other |
| **8467 22** | - - Saws |
| **8467 22 10 00** | - - - Chainsaws |
| **8467 22 30 00** | - - - Circular saws |
| **8467 22 90 00** | - - - Other |
| **8467 29** | - - Other |
| **8467 29 20 00** | - - - Capable of operation without an external source of power |
|  | - - - Other |
|  | - - - - Grinders and sanders |
| **8467 29 51 00** | - - - - - Angle grinders |
| **8467 29 53 00** | - - - - - Belt sanders |
| **8467 29 59 00** | - - - - - Other |
| **8467 29 70 00** | - - - - Planers |
| **8467 29 80 00** | - - - - Hedge trimmers and lawn edge cutters |
| **8467 29 85 00** | - - - - Other |
|  | **- Other tools** |
| **8467 81 00 00** | - - Chainsaws |
| **8467 89 00 00** | - - Other |
|  | **- Parts** |
| **8467 91 00 00** | - - Of chainsaws |
| **8467 92 00 00** | - - Of pneumatic tools |
| **8467 99** | - - Other |
| **8467 99 00 10** | - - - Mechanical switches for connecting electrical circuits, with: - a voltage of 14.4 V or more but not more than 42 V, - an amperage of 10 A or more but not more than 42 A, for use in the manufacture of machines falling within heading 8467 |
| **8467 99 00 90** | - - - Other |
| **8468** | **Machinery and apparatus for soldering, brazing or welding, whether or not capable of cutting, other than those of heading 8515; gas-operated surface tempering machines and appliances** |
| **8468 10 00 00** | **- Hand-held blow pipes** |
| **8468 20 00 00** | **- Other gas-operated machinery and apparatus** |
| **8468 80 00 00** | **- Other machinery and apparatus** |
| **8468 90** | **- Parts** |
| **8468 90 00 20** | - - Keypads of silicone or plastic, - whether or not with parts of metal, plastic, glass fibre reinforced epoxide resin or wood, - whether or not printed or surface treated, - whether or not with electrical conducting elements - whether or not with keypads foil glued on the keyboard - whether or not with protective foil - single or multilayer |
| **8468 90 00 90** | - - Other |
| **8470** | **Calculating machines and pocket-size data-recording, reproducing and displaying machines with calculating functions; accounting machines, postage-franking machines, ticket-issuing machines and similar machines, incorporating a calculating device; cash registers** |
| **8470 10 00 00** | **- Electronic calculators capable of operation without an external source of electric power and pocket-size data-recording, reproducing and displaying machines with calculating functions** |
|  | **- Other electronic calculating machines** |
| **8470 21 00 00** | - - Incorporating a printing device |
| **8470 29 00 00** | - - Other |
| **8470 30 00 00** | **- Other calculating machines** |
| **8470 50 00 00** | **- Cash registers** |
| **8470 90 00 00** | **- Other** |
| **8471** | **Automatic data-processing machines and units thereof; magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, not elsewhere specified or included** |
| **8471 30 00 00** | **- Portable automatic data-processing machines, weighing not more than 10 kg, consisting of at least a central processing unit, a keyboard and a display** |
|  | **- Other automatic data-processing machines** |
| **8471 41 00 00** | - - Comprising in the same housing at least a central processing unit and an input and output unit, whether or not combined |
| **8471 49 00 00** | - - Other, presented in the form of systems |
| **8471 50 00 00** | **- Processing units other than those of subheading 8471 41 or 8471 49, whether or not containing in the same housing one or two of the following types of unit: storage units, input units, output units** |
| **8471 60** | **- Input or output units, whether or not containing storage units in the same housing** |
| **8471 60 60 00** | - - Keyboards |
| **8471 60 70 00** | - - Other |
| **8471 70** | **- Storage units** |
| **8471 70 20 00** | - - Central storage units |
|  | - - Other |
|  | - - - Disk storage units |
| **8471 70 30 00** | - - - - Optical, including magneto-optical |
|  | - - - - Other |
| **8471 70 50 00** | - - - - - Hard disk drives |
| **8471 70 70 00** | - - - - - Other |
| **8471 70 80 00** | - - - Magnetic tape storage units |
| **8471 70 98 00** | - - - Other |
| **8471 80 00 00** | **- Other units of automatic data-processing machines** |
| **8471 90 00 00** | **- Other** |
| **8472** | **Other office machines (for example, hectograph or stencil duplicating machines, addressing machines, automatic banknote dispensers, coin-sorting machines, coin-counting or -wrapping machines, pencil-sharpening machines, perforating or stapling machines)** |
| **8472 10 00 00** | **- Duplicating machines** |
| **8472 30 00 00** | **- Machines for sorting or folding mail or for inserting mail in envelopes or bands, machines for opening, closing or sealing mail and machines for affixing or cancelling postage stamps** |
| **8472 90** | **- Other** |
| **8472 90 10 00** | - - Coin-sorting, coin-counting or coin-wrapping machines |
| **8472 90 30 00** | - - Automatic teller machines |
| **8472 90 40 00** | - - Word-processing machines |
| **8472 90 90 00** | - - Other |
| **8473** | **Parts and accessories (other than covers, carrying cases and the like) suitable for use solely or principally with machines of headings 8470 to 8472** |
|  | **- Parts and accessories of the machines of heading 8470** |
| **8473 21** | - - Of the electronic calculating machines of subheading 8470 10, 8470 21 or 8470 29 |
| **8473 21 10 00** | - - - Electronic assemblies |
| **8473 21 90 00** | - - - Other |
| **8473 29** | - - Other |
| **8473 29 10 00** | - - - Electronic assemblies |
| **8473 29 90 00** | - - - Other |
| **8473 30** | **- Parts and accessories of the machines of heading 8471** |
| **8473 30 20 00** | - - Electronic assemblies |
| **8473 30 80 00** | - - Other |
| **8473 40** | **- Parts and accessories of the machines of heading 8472** |
| **8473 40 10 00** | - - Electronic assemblies |
| **8473 40 80 00** | - - Other |
| **8473 50** | **- Parts and accessories equally suitable for use with machines of two or more of the headings 8470 to 8472** |
| **8473 50 20 00** | - - Electronic assemblies |
| **8473 50 80 00** | - - Other |
| **8474** | **Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including powder or paste) form; machinery for agglomerating, shaping or moulding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry moulds of sand** |
| **8474 10 00 00** | **- Sorting, screening, separating or washing machines** |
| **8474 20 00 00** | **- Crushing or grinding machines** |
|  | **- Mixing or kneading machines** |
| **8474 31 00 00** | - - Concrete or mortar mixers |
| **8474 32 00 00** | - - Machines for mixing mineral substances with bitumen |
| **8474 39 00 00** | - - Other |
| **8474 80** | **- Other machinery** |
| **8474 80 10 00** | - - Machinery for agglomerating, shaping or moulding ceramic paste |
| **8474 80 90 00** | - - Other |
| **8474 90** | **- Parts** |
| **8474 90 10 00** | - - Of cast iron or cast steel |
| **8474 90 90 00** | - - Other |
| **8475** | **Machines for assembling electric or electronic lamps, tubes or valves or flashbulbs, in glass envelopes; machines for manufacturing or hot working glass or glassware** |
| **8475 10 00 00** | **- Machines for assembling electric or electronic lamps, tubes or valves or flashbulbs, in glass envelopes** |
|  | **- Machines for manufacturing or hot working glass or glassware** |
| **8475 21 00 00** | - - Machines for making optical fibres and preforms thereof |
| **8475 29** | - - Other |
| **8475 29 00 10** | - - - Glass Filament Melter with heater basket/bushing assembly: - electrically heated, - with opening - with a multiplicity of tips (holes) of platinum/rhodium alloy - used to melt glass batches and condition molten glass - for drawing into continuous fibres |
| **8475 29 00 90** | - - - Other |
| **8475 90** | **- Parts** |
| **8475 90 10 00** | - - Parts of machines of subheading 8475 21 00 |
| **8475 90 90 00** | - - Other |
| **8476** | **Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines** |
|  | **- Automatic beverage-vending machines** |
| **8476 21 00 00** | - - Incorporating heating or refrigerating devices |
| **8476 29 00 00** | - - Other |
|  | **- Other machines** |
| **8476 81 00 00** | - - Incorporating heating or refrigerating devices |
| **8476 89** | - - Other |
| **8476 89 10 00** | - - - Money-changing machines |
| **8476 89 90 00** | - - - Other |
| **8476 90** | **- Parts** |
| **8476 90 10 00** | - - Parts of money-changing machines |
| **8476 90 90** | - - Other |
| **8476 90 90 20** | - - - Keypads of silicone or plastic, - whether or not with parts of metal, plastic, glass fibre reinforced epoxide resin or wood, - whether or not printed or surface treated, - whether or not with electrical conducting elements - whether or not with keypads foil glued on the keyboard - whether or not with protective foil - single or multilayer |
| **8476 90 90 90** | - - - Other |
| **8477** | **Machinery for working rubber or plastics or for the manufacture of products from these materials, not specified or included elsewhere in this chapter** |
| **8477 10 00 00** | **- Injection-moulding machines** |
| **8477 20 00 00** | **- Extruders** |
| **8477 30 00 00** | **- Blow-moulding machines** |
| **8477 40 00 00** | **- Vacuum-moulding machines and other thermoforming machines** |
|  | **- Other machinery for moulding or otherwise forming** |
| **8477 51 00 00** | - - For moulding or retreading pneumatic tyres or for moulding or otherwise forming inner tubes |
| **8477 59** | - - Other |
| **8477 59 10 00** | - - - Presses |
| **8477 59 80 00** | - - - Other |
| **8477 80** | **- Other machinery** |
|  | - - Machines for the manufacture of foam products |
| **8477 80 11 00** | - - - Machines for processing reactive resins |
| **8477 80 19 00** | - - - Other |
|  | - - Other |
| **8477 80 91 00** | - - - Size reduction equipment |
| **8477 80 93 00** | - - - Mixers, kneaders and agitators |
| **8477 80 95 00** | - - - Cutting, splitting and peeling machines |
| **8477 80 99** | - - - Other |
| **8477 80 99 10** | - - - - Machines for casting or for surface modification of plastic membranes of heading 3921 |
| **8477 80 99 90** | - - - - Other |
| **8477 90** | **- Parts** |
| **8477 90 10 00** | - - Of cast iron or cast steel |
| **8477 90 80 00** | - - Other |
| **8478** | **Machinery for preparing or making up tobacco, not specified or included elsewhere in this chapter** |
| **8478 10 00 00** | **- Machinery** |
| **8478 90 00 00** | **- Parts** |
| **8479** | **Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter** |
| **8479 10 00 00** | **- Machinery for public works, building or the like** |
| **8479 20 00 00** | **- Machinery for the extraction or preparation of animal or fixed vegetable fats or oils** |
| **8479 30** | **- Presses for the manufacture of particle board or fibre building board of wood or other ligneous materials and other machinery for treating wood or cork** |
| **8479 30 10 00** | - - Presses |
| **8479 30 90 00** | - - Other |
| **8479 40 00 00** | **- Rope- or cable-making machines** |
| **8479 50 00 00** | **- Industrial robots, not elsewhere specified or included** |
| **8479 60 00 00** | **- Evaporative air coolers** |
|  | **- Passenger boarding bridges** |
| **8479 71 00 00** | - - Of a kind used in airports |
| **8479 79 00 00** | - - Other |
|  | **- Other machines and mechanical appliances** |
| **8479 81 00 00** | - - For treating metal, including electric wire coil-winders |
| **8479 82 00 00** | - - Mixing, kneading, crushing, grinding, screening, sifting, homogenising, emulsifying or stirring machines |
| **8479 89** | - - Other |
| **8479 89 30 00** | - - - Mobile hydraulic-powered mine roof supports |
| **8479 89 60 00** | - - - Central greasing systems |
| **8479 89 70 00** | - - - Automated electronic component placement machines of a kind used solely or principally for the manufacture of printed circuit assemblies |
| **8479 89 97** | - - - Other |
| **8479 89 97 10** | - - - - The following goods, for use in civil aircraft : Hydropneumatic batteries; Mechanical actuators for thrust reversers; Toilet units specially designed; Air humidifiers and dehumidifiers; Servo-mechanisms, non-electric; Non-electric starter motors; Pneumatic starters for turbo-jets, turbo-jets, turbo-propellers and other gas turbines; Windscreen wipers, non-electric; Propeller regulators, non-electric |
| **8479 89 97 35** | - - - - Mechanical unit ensuring the movement of the camshaft with:   - 8 oil chambers,   - a phasing range of at least 38°, but not more than 62°,   - a steel and/or steel alloy sprocket,   - a steel and/or steel alloy rotor |
| **8479 89 97 50** | - - - - Machinery, being components of a production line for the manufacture of lithium ion batteries for passenger electric motor vehicles, for the construction of such a production line |
| **8479 89 97 60** | - - - - Bioreactor for biopharmaceutical cell culture • having interior surfaces of austenitic stainless steel, and • with a process capacity up to 15 000 litres, • whether or not combined with a “clean-in-process” system and/or a dedicated paired media hold vessel |
| **8479 89 97 70** | - - - - Machine to accurately align and attach lenses into a camera assembly in five axis alignment capability and fix them in position with a two part cure epoxy |
| **8479 89 97 80** | - - - - Machinery for the production of a sub assembled component (anode conductor and the negative closing cap) for the manufacture of AA and/or AAA alkaline batteries |
| **8479 89 97 85** | - - - - High Pressure Hard Materials Compression Press ("Link Press"): - with a 16 000 tonne pressure rating, - with a 1 100mm diameter Bolster (± 1mm), - with a 1 400mm main cylinder (± 1mm), - with a Fixed and floating link frame, multiple pump high pressure hydraulic accumulator and pressure system, - with a double arm manipulator arrangement and connections for piping and electrical systems, - with a total weight 310 tonnes (± 10 tonnes), and - creating 30 000 atmospheres at 1 500 degrees centigrade using Low Frequency Alternating Current (16 000 amps) |
| **8479 89 97 90** | - - - - Other |
| **8479 90** | **- Parts** |
| **8479 90 15 00** | - - Parts of machines of subheading 8479 89 70 |
|  | - - Other |
| **8479 90 20** | - - - Of cast iron or cast steel |
| **8479 90 20 10** | - - - - For use in civil aircraft |
| **8479 90 20 80** | - - - - Machinery, being components of a production line for the manufacture of lithium ion batteries for passenger electric motor vehicles, for the construction of such a production line |
| **8479 90 20 90** | - - - - Other |
| **8479 90 70** | - - - Other |
| **8479 90 70 10** | - - - - For use in civil aircraft |
|  | - - - - Other |
| **8479 90 70 80** | - - - - - Machinery, being components of a production line for the manufacture of lithium ion batteries for passenger electric motor vehicles, for the construction of such a production line |
| **8479 90 70 83** | - - - - - Keypads of silicone or plastic, - whether or not with parts of metal, plastic, glass fibre reinforced epoxide resin or wood, - whether or not printed or surface treated, - whether or not with electrical conducting elements - whether or not with keypads foil glued on the keyboard - whether or not with protective foil - single or multilayer |
| **8479 90 70 85** | - - - - - Injectors with solenoid valve for optimised atomisation in the engine combustion chamber |
| **8479 90 70 87** | - - - - - Fuel hose for internal combustion piston engines with a fuel temperature sensor, with at least two inlet hoses and three outlet hoses for use in the manufacture of engines of motor vehicles |
| **8479 90 70 99** | - - - - - Other |
| **8480** | **Moulding boxes for metal foundry; mould bases; moulding patterns; moulds for metal (other than ingot moulds), metal carbides, glass, mineral materials, rubber or plastics** |
| **8480 10 00 00** | **- Moulding boxes for metal foundry** |
| **8480 20 00 00** | **- Mould bases** |
| **8480 30** | **- Moulding patterns** |
| **8480 30 10 00** | - - Of wood |
| **8480 30 90 00** | - - Other |
|  | **- Moulds for metal or metal carbides** |
| **8480 41 00 00** | - - Injection or compression types |
| **8480 49 00 00** | - - Other |
| **8480 50 00 00** | **- Moulds for glass** |
| **8480 60 00 00** | **- Moulds for mineral materials** |
|  | **- Moulds for rubber or plastics** |
| **8480 71 00 00** | - - Injection or compression types |
| **8480 79 00 00** | - - Other |
| **8481** | **Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves** |
| **8481 10** | **- Pressure-reducing valves** |
| **8481 10 05** | - - Combined with filters or lubricators |
| **8481 10 05 10** | - - - For use in certain types of aircraft |
| **8481 10 05 90** | - - - Other |
|  | - - Other |
| **8481 10 19** | - - - Of cast iron or steel |
| **8481 10 19 10** | - - - - For use in certain types of aircraft |
| **8481 10 19 90** | - - - - Other |
| **8481 10 99** | - - - Other |
| **8481 10 99 10** | - - - - For use in certain types of aircraft |
| **8481 10 99 20** | - - - - Electromagnetic pressure reducing valve - with a plunger, - with at least 275 mPa internal tightness, - with a plastic connector with 2 silver or tin pins |
| **8481 10 99 30** | - - - - Pressure reducing valves in a brass case with: - a length of not more than 18 mm (± 1 mm), - a width of not more than 30 mm (± 1 mm), of a kind used for incorporation in fuel delivery modules of motor vehicles |
| **8481 10 99 90** | - - - - Other |
| **8481 20** | **- Valves for oleohydraulic or pneumatic transmissions** |
| **8481 20 10** | - - Valves for the control of oleohydraulic power transmission |
| **8481 20 10 20** | - - - for use in certain types of aircraft |
| **8481 20 10 90** | - - - Other |
| **8481 20 90** | - - Valves for the control of pneumatic power transmission |
| **8481 20 90 20** | - - - for use in certain types of aircraft |
| **8481 20 90 90** | - - - Other |
| **8481 30** | **- Check (non-return) valves** |
| **8481 30 91** | - - Of cast iron or steel |
| **8481 30 91 20** | - - - for use in certain types of aircraft |
|  | - - - Other |
| **8481 30 91 91** | - - - - Steel check (non-return) valves with: - an opening pressure of not more than 800 kPa - an external diameter not more than 37 mm |
| **8481 30 91 99** | - - - - Other |
| **8481 30 99** | - - Other |
| **8481 30 99 20** | - - - for use in certain types of aircraft |
| **8481 30 99 90** | - - - Other |
| **8481 40** | **- Safety or relief valves** |
| **8481 40 10** | - - Of cast iron or steel |
| **8481 40 10 50** | - - - for use in certain types of aircraft |
| **8481 40 10 90** | - - - Other |
| **8481 40 90** | - - Other |
| **8481 40 90 10** | - - - for use in certain types of aircraft |
| **8481 40 90 90** | - - - Other |
| **8481 80** | **- Other appliances** |
|  | - - Taps, cocks and valves for sinks, washbasins, bidets, water cisterns, baths and similar fixtures |
| **8481 80 11** | - - - Mixing valves |
| **8481 80 11 10** | - - - - For use in certain types of aircraft |
| **8481 80 11 90** | - - - - Other |
| **8481 80 19** | - - - Other |
| **8481 80 19 10** | - - - - For use in certain types of aircraft |
| **8481 80 19 90** | - - - - Other |
|  | - - Central heating radiator valves |
| **8481 80 31 00** | - - - Thermostatic valves |
| **8481 80 39 00** | - - - Other |
| **8481 80 40** | - - Valves for pneumatic tyres and inner tubes |
| **8481 80 40 10** | - - - For use in certain types of aircraft |
| **8481 80 40 90** | - - - Other |
|  | - - Other |
|  | - - - Process control valves |
| **8481 80 51 00** | - - - - Temperature regulators |
| **8481 80 59** | - - - - Other |
| **8481 80 59 10** | - - - - - Air control valve, consisting of a stepping motor and a valve pintle, for the regulation of idle air flow in fuel injection engines |
| **8481 80 59 20** | - - - - - Pressure regulating valve for incorporation into compressors of motor vehicle air condition units |
| **8481 80 59 30** | - - - - - Two-way flow control valve with housing, with - at least 5 but not more than 9 outlet holes with at least 0.110 mm but not more than 0.134 mm diameter, - at least 640 cm3 / minute but not more than 805 cm3 / minute flow rate, - at least 19 but not more than 300 MPa operating pressure |
| **8481 80 59 40** | - - - - - Flow-control valve - made of steel, - with an outlet hole with a diameter of at least 0.175 mm, but not more than 0.185 mm, - with an inlet hole with a diameter of at least 0.255 mm, but not more than 0.265 mm, - with chromium nitride coating, - with a surface roughness of Rp 0,4 |
| **8481 80 59 50** | - - - - - Electromagnetic valve for quantity control with - a plunger, - DLC (Diamond-like carbon) coating, - a solenoid with a of coil resistance of at least 2.6 Ohm, but not more than 3 Ohm, - a supply voltage of 12 V |
| **8481 80 59 60** | - - - - - Electromagnetic valve for quantity control - with a solenoid with a coil resistance of at least 0.19 Ohm, but not more than 0,52 Omh, and with an inductance of at least 0.083 mH, but not more than 0.172 mH, - with a supply voltage of 24 V, - operating at a DC of at least 15,5 A, but not more than 16,5 A |
| **8481 80 59 90** | - - - - - Other |
|  | - - - Other |
|  | - - - - Gate valves |
| **8481 80 61 00** | - - - - - Of cast iron |
| **8481 80 63** | - - - - - Of steel |
| **8481 80 63 50** | - - - - - - for use in certain types of aircraft |
| **8481 80 63 90** | - - - - - - Other |
| **8481 80 69** | - - - - - Other |
| **8481 80 69 50** | - - - - - - for use in certain types of aircraft |
|  | - - - - - - Other |
| **8481 80 69 60** | - - - - - - - Four-way reversing valve for refrigerants, consisting of: - a solenoid pilot valve - a brass valve body including valve slider and copper connections with a working pressure up to 4,5 MPa |
| **8481 80 69 99** | - - - - - - - Other |
|  | - - - - Globe valves |
| **8481 80 71 00** | - - - - - Of cast iron |
| **8481 80 73** | - - - - - Of steel |
| **8481 80 73 10** | - - - - - - For use in certain types of aircraft |
| **8481 80 73 20** | - - - - - - Pressure- and flow-control valve controlled by external electromagnet:   - made of steel and/or steel alloy(s),   - without integrated circuit,   - of not more than 1000 kPa operating pressure,   - with a flow quantity of not more than 5 l/min,   - without an electromagnet |
| **8481 80 73 90** | - - - - - - Other |
| **8481 80 79** | - - - - - Other |
| **8481 80 79 10** | - - - - - - For use in certain types of aircraft |
| **8481 80 79 90** | - - - - - - Other |
| **8481 80 81** | - - - - Ball and plug valves |
| **8481 80 81 30** | - - - - - for use in certain types of aircraft |
| **8481 80 81 90** | - - - - - Other |
| **8481 80 85** | - - - - Butterfly valves |
| **8481 80 85 30** | - - - - - For use in certain types of aircraft |
| **8481 80 85 40** | - - - - - Exhaust valve for use in the manufacture of motorcycle exhaust gas systems |
| **8481 80 85 90** | - - - - - Other |
| **8481 80 87** | - - - - Diaphragm valves |
| **8481 80 87 30** | - - - - - for use in certain types of aircraft |
| **8481 80 87 90** | - - - - - Other |
| **8481 80 99** | - - - - Other |
| **8481 80 99 40** | - - - - - for use in certain types of aircraft |
| **8481 80 99 70** | - - - - - Pressure- and flow-control valve controlled by external electromagnet:   - made of steel and/or steel alloy(s),   - without integrated circuit,   - of not more than 1000 kPa operating pressure,   - with a flow quantity of not more than 5 l/min,   - without an electromagnet |
| **8481 80 99 90** | - - - - - Other |
| **8481 90** | **- Parts** |
| **8481 90 00 10** | - - For use in certain types of aircraft |
| **8481 90 00 30** | - - Keypads of silicone or plastic, - whether or not with parts of metal, plastic, glass fibre reinforced epoxide resin or wood, - whether or not printed or surface treated, - whether or not with electrical conducting elements - whether or not with keypads foil glued on the keyboard - whether or not with protective foil - single or multilayer |
| **8481 90 00 40** | - - Valve armature:   - for the opening and closing of the flow of fuel,   - consisting of a shaft and a blade,   - with 8 holes on the blade,   - made of metal and/or metal alloy(s) |
| **8481 90 00 90** | - - Other |
| **8482** | **Ball or roller bearings** |
| **8482 10** | **- Ball bearings** |
| **8482 10 10** | - - With greatest external diameter not exceeding 30 mm |
| **8482 10 10 10** | - - - Ball and cylindrical bearings: - with an outside diameter of 28 mm or more but not more than 140 mm, - with an operational thermal stress of more than 150°C at a working pressure of not more than 14 MPa, for the manufacture of machinery for the protection and control of nuclear reactors in nuclear power plants |
| **8482 10 10 40** | - - - Ball bearings: - with an internal diameter of 3 mm or more, - with an external diameter of not more than 100 mm, - with a width of not more than 40 mm, - whether or not equipped with a duster, for use in the manufacture of belt drive steering systems of motor, electric power steering systems or steering gears or assembly ball screw for steering gears |
| **8482 10 10 90** | - - - Other |
| **8482 10 90** | - - Other |
| **8482 10 90 10** | - - - Ball and cylindrical bearings: - with an outside diameter of 28 mm or more but not more than 140 mm, - with an operational thermal stress of more than 150°C at a working pressure of not more than 14 MPa, for the manufacture of machinery for the protection and control of nuclear reactors in nuclear power plants |
| **8482 10 90 30** | - - - Ball bearings: - with an internal diameter of 3 mm or more, - with an external diameter of not more than 100 mm, - with a width of not more than 40 mm, - whether or not equipped with a duster, for use in the manufacture of belt drive steering systems of motor, electric power steering systems or steering gears or assembly ball screw for steering gears |
| **8482 10 90 90** | - - - Other |
| **8482 20 00 00** | **- Tapered roller bearings, including cone and tapered roller assemblies** |
| **8482 30 00 00** | **- Spherical roller bearings** |
| **8482 40 00 00** | **- Needle roller bearings** |
| **8482 50** | **- Other cylindrical roller bearings** |
| **8482 50 00 10** | - - Ball and cylindrical bearings: - with an outside diameter of 28 mm or more but not more than 140 mm, - with an operational thermal stress of more than 150°C at a working pressure of not more than 14 MPa, for the manufacture of machinery for the protection and control of nuclear reactors in nuclear power plants |
| **8482 50 00 90** | - - Other |
| **8482 80** | **- Other, including combined ball/roller bearings** |
| **8482 80 00 10** | - - Connecting components for use in the production of helicopter tail rotor shafts |
| **8482 80 00 90** | - - Other |
|  | **- Parts** |
| **8482 91** | - - Balls, needles and rollers |
| **8482 91 10 00** | - - - Tapered rollers |
| **8482 91 90 00** | - - - Other |
| **8482 99** | - - Other |
| **8482 99 00 20** | - - - Brass cages - continuously or centrifugally cast, - turned, - containing by weight 35 % or more, but not more than 38 % of tin, - containing by weight 0,75 %, but not more than 1,25 % of lead, - containing by weight 1,0 % or more, but not more than 1,4 % of aluminium, and - with a tensile strength of 415 Pa or more, of a kind used for the manufacture of ball bearings |
| **8482 99 00 90** | - - - Other |
| **8483** | **Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)** |
| **8483 10** | **- Transmission shafts (including cam shafts and crank shafts) and cranks** |
|  | - - Cranks and crank shafts |
| **8483 10 21** | - - - Of cast iron or cast steel |
| **8483 10 21 10** | - - - - For use in civil aircraft |
| **8483 10 21 90** | - - - - Other |
| **8483 10 25** | - - - Of open-die forged steel |
| **8483 10 25 10** | - - - - For use in civil aircraft |
| **8483 10 25 90** | - - - - Other |
| **8483 10 29** | - - - Other |
| **8483 10 29 10** | - - - - For use in civil aircraft |
| **8483 10 29 90** | - - - - Other |
| **8483 10 50** | - - Articulated shafts |
| **8483 10 50 10** | - - - For use in civil aircraft |
| **8483 10 50 90** | - - - Other |
| **8483 10 95** | - - Other |
| **8483 10 95 10** | - - - For use in civil aircraft |
| **8483 10 95 90** | - - - Other |
| **8483 20 00 00** | **- Bearing housings, incorporating ball or roller bearings** |
| **8483 30** | **- Bearing housings, not incorporating ball or roller bearings; plain shaft bearings** |
|  | - - Bearing housings |
| **8483 30 32** | - - - For ball or roller bearings |
| **8483 30 32 10** | - - - - For use in civil aircraft |
| **8483 30 32 30** | - - - - Bearing housing of a kind used in turbochargers: - of precision-cast grey cast iron complying with standard DIN EN 1561 or precision-cast ductile cast iron complying with DIN EN 1560, - with oil chambers, - without bearings, - with a diameter of 50 mm or more, but not more than 250 mm, - with a height of 40 mm or more, but not more than 150 mm, - whether or not with water chambers and connectors |
| **8483 30 32 90** | - - - - Other |
| **8483 30 38** | - - - Other |
| **8483 30 38 10** | - - - - For use in civil aircraft |
|  | - - - - Other |
| **8483 30 38 60** | - - - - - Bearing housing of a kind used in turbochargers: - of precision-cast grey cast iron complying with standard DIN EN 1561 or precision-cast ductile cast iron complying with DIN EN 1560, - with oil chambers, - without bearings, - with a diameter of 50 mm or more, but not more than 250 mm, - with a height of 40 mm or more, but not more than 150 mm, - whether or not with water chambers and connectors |
| **8483 30 38 99** | - - - - - Other |
| **8483 30 80** | - - Plain shaft bearings |
| **8483 30 80 10** | - - - For use in civil aircraft |
| **8483 30 80 20** | - - - Wave slide bearing for axial applications, of FeP01 steel (according to EN 10130-1991) with a sliding layer of porous sinter bronze and poly(tetrafluoroethylene), suitable for installation into motor bike suspension units |
| **8483 30 80 90** | - - - Other |
| **8483 40** | **- Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements presented separately; ball or roller screws; gear boxes and other speed changers, including torque converters** |
|  | - - Gears and gearing (other than friction gears) |
| **8483 40 21** | - - - Spur and helical |
| **8483 40 21 10** | - - - - For use in civil aircraft |
| **8483 40 21 90** | - - - - Other |
| **8483 40 23** | - - - Bevel and bevel/spur |
| **8483 40 23 10** | - - - - For use in civil aircraft |
| **8483 40 23 90** | - - - - Other |
| **8483 40 25** | - - - Worm gear |
| **8483 40 25 10** | - - - - For use in civil aircraft |
| **8483 40 25 90** | - - - - Other |
| **8483 40 29** | - - - Other |
| **8483 40 29 10** | - - - - For use in civil aircraft |
|  | - - - - Other |
| **8483 40 29 50** | - - - - - Gear set of cycloid gear type with: - a rated torque of 50 Nm or more but not more than 9 000 Nm, - standard ratios of 1:50 or more but not more than 1:475, - lost motion of not more than one arc minute, - an efficiency of more than 80% of a kind used in robot arms |
| **8483 40 29 60** | - - - - - Epicyclic gearing, of a kind used in driving hand-held power tools with: - a rated torque of 25 Nm or more, but not more than 70 Nm, - standard gear ratios of 1:12.7 or more, but not more than 1:64.3 |
| **8483 40 29 89** | - - - - - Other |
| **8483 40 30** | - - Ball or roller screws |
| **8483 40 30 10** | - - - For use in civil aircraft |
| **8483 40 30 90** | - - - Other |
|  | - - Gear boxes and other speed changers |
| **8483 40 51** | - - - Gear boxes |
| **8483 40 51 10** | - - - - For use in civil aircraft |
| **8483 40 51 20** | - - - - Gear box, having a differential with wheel axle, for use in the manufacture of self-propelled lawnmowers with a seat of subheading 8433 11 51 |
| **8483 40 51 90** | - - - - Other |
| **8483 40 59** | - - - Other |
| **8483 40 59 10** | - - - - For use in civil aircraft |
| **8483 40 59 20** | - - - - Hydrostatic speed changer, having a hydro pump and a differential with wheel axle, for use in the manufacture of self-propelled lawnmowers with a seat of subheading 8433 11 51 |
| **8483 40 59 90** | - - - - Other |
| **8483 40 90** | - - Other |
| **8483 40 90 10** | - - - For use in civil aircraft |
|  | - - - Other |
| **8483 40 90 20** | - - - - Hydrostatic transmission with: - measurements (without shafts) of not more than 154 mm x 115 mm x 108 mm, - a weight of not more than 3.3 kg, - a maximum rotation speed of the input shaft of 2700 rpm or more, but not more than 3200 rpm, - a torque of the output shaft of not more than 10.4 Nm, - a rotation speed of the output shaft of not more than 930 rpm at 2800 rpm input speed, and - an operating temperature range of -5 °C or more, but not more than +40 °C for use in the manufacture of hand-operated lawn mowers of subheading 8433 11 90 |
| **8483 40 90 30** | - - - - Hydrostatic transmission with - a reduction of 20,63:1 or more, but not more than 22,68:1, - an input speed of 1800 rpm or more when loaded and of not more than 3 000 rpm when unloaded, - a continuous output torque of 142 Nm or more, but not more than 156 Nm, - an intermittent output torque of 264 Nm or more, but not more than 291 Nm, and - an axle shaft diameter of 19.02 mm or more, but not more than 19.06 mm, - whether or not equipped with a fan impeller or with a pulley with integrated fan impeller for use in the production of self-propelled lawn mowers with a seat of subheading 8433 11 51, and tractors of subheading 8701 91 90, whose main function is that of a lawn mower |
| **8483 40 90 80** | - - - - Transmission gearbox, with: - not more than 3 gears, - an automatic deceleration system and - a power reversal system, for use in the manufacture of goods of heading 8427 |
| **8483 40 90 99** | - - - - Other |
| **8483 50** | **- Flywheels and pulleys, including pulley blocks** |
| **8483 50 20** | - - Of cast iron or cast steel |
| **8483 50 20 10** | - - - For use in civil aircraft |
| **8483 50 20 90** | - - - Other |
| **8483 50 80** | - - Other |
| **8483 50 80 10** | - - - For use in civil aircraft |
| **8483 50 80 90** | - - - Other |
| **8483 60** | **- Clutches and shaft couplings (including universal joints)** |
| **8483 60 20** | - - Of cast iron or cast steel |
| **8483 60 20 10** | - - - For use in civil aircraft |
| **8483 60 20 90** | - - - Other |
| **8483 60 80** | - - Other |
| **8483 60 80 10** | - - - For use in civil aircraft |
| **8483 60 80 90** | - - - Other |
| **8483 90** | **- Toothed wheels, chain sprockets and other transmission elements presented separately; parts** |
| **8483 90 20** | - - Parts of bearing housings |
| **8483 90 20 10** | - - - For use in civil aircraft |
| **8483 90 20 90** | - - - Other |
|  | - - Other |
| **8483 90 81** | - - - Of cast iron or cast steel |
| **8483 90 81 10** | - - - - For use in civil aircraft |
| **8483 90 81 90** | - - - - Other |
| **8483 90 89** | - - - Other |
| **8483 90 89 10** | - - - - For use in civil aircraft |
| **8483 90 89 90** | - - - - Other |
| **8484** | **Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal; sets or assortments of gaskets and similar joints, dissimilar in composition, put up in pouches, envelopes or similar packings; mechanical seals** |
| **8484 10** | **- Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal** |
| **8484 10 00 10** | - - For use in civil aircraft |
| **8484 10 00 90** | - - Other |
| **8484 20** | **- Mechanical seals** |
| **8484 20 00 10** | - - Mechanical shaft seal for incorporation into rotary compressors for use in the manufacture of motor vehicle air condition units |
| **8484 20 00 90** | - - Other |
| **8484 90** | **- Other** |
| **8484 90 00 10** | - - For use in civil aircraft |
| **8484 90 00 90** | - - Other |
| **8486** | **Machines and apparatus of a kind used solely or principally for the manufacture of semiconductor boules or wafers, semiconductor devices, electronic integrated circuits or flat panel displays; machines and apparatus specified in note 9(C) to this chapter; parts and accessories** |
| **8486 10 00 00** | **- Machines and apparatus for the manufacture of boules or wafers** |
| **8486 20 00 00** | **- Machines and apparatus for the manufacture of semiconductor devices or of electronic integrated circuits** |
| **8486 30 00 00** | **- Machines and apparatus for the manufacture of flat panel displays** |
| **8486 40 00 00** | **- Machines and apparatus specified in note 9(C) to this chapter** |
| **8486 90 00 00** | **- Parts and accessories** |
| **8487** | **Machinery parts, not containing electrical connectors, insulators, coils, contacts or other electrical features, not specified or included elsewhere in this chapter** |
| **8487 10** | **- Ships' or boats' propellers and blades therefor** |
| **8487 10 10 00** | - - Of bronze |
| **8487 10 90 00** | - - Other |
| **8487 90** | **- Other** |
| **8487 90 40** | - - Of cast iron |
| **8487 90 40 10** | - - - For use in certain types of aircraft |
| **8487 90 40 90** | - - - Other |
|  | - - Of iron or steel |
| **8487 90 51** | - - - Of cast steel |
| **8487 90 51 10** | - - - - For use in certain types of aircraft |
| **8487 90 51 90** | - - - - Other |
| **8487 90 57** | - - - Of open-die forged or closed-die forged iron or steel |
| **8487 90 57 10** | - - - - For use in certain types of aircraft |
| **8487 90 57 90** | - - - - Other |
| **8487 90 59** | - - - Other |
| **8487 90 59 10** | - - - - For use in certain types of aircraft |
| **8487 90 59 90** | - - - - Other |
| **8487 90 90** | - - Other |
| **8487 90 90 10** | - - - For use in certain types of aircraft |
| **8487 90 90 90** | - - - Other |