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



Notes

1. This section does not cover:

   (a) Transmission, conveyor or elevator 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 semiprecious 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;

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(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 chapter 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 U.S. Note

1. For the purposes of this section, the term "printed circuit assembly"means goods consisting of one or more printed circuits of heading 8534 with one or more active elements assembled thereon, with or without passive elements. For the purposes of this note,"active elements" means diodes, transistors and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits of heading 8542.

Statistical Note

1. Provisions for semiconductor manufacturing and testing machines and apparatus cover products for the growth and processing of semiconductor materials, such as silicon and gallium arsenide, the processing of such materials into semiconductor devices and the testing of such devices (in general the testing equipment, as well as some of the processing equipment, is classified in chapter 90). More specifically the goods include the following:

(a) Wafer manufacturing equipment:

(i) Crystal growers & pullers - used to produce extremely pure monocrystalline semiconductor boules from which wafers can be sliced. Most common methods employed in these crystal growers and pullers are the Czochralski and float zone methods.

(ii) Wafer preparation equipment:

(A) Crystal grinders - used to grind the crystal boule to precise diameter required for wafers and to grind the flats on the boule to indicate the conductivity type and resistivity of the crystal.

(B) Wafer slicing saws - used to slice wafers from a boule of monocrystalline semiconductor material.

(C) Wafer grinders, lappers and polishers - used to prepare the semiconductor wafer for the fabrication process. This involves bringing the wafer within dimensional tolerances. Especially critical is the flatness of its surface.

(b) Mask fabrication and repair equipment:

(i) Fabrication equipment - used to transfer design patterns to a mask or reticle, this equipment generally utilizes optical, electron beam or X-rays to write circuit patterns on photoresist coated substrates. After development, these substrates become the mask or reticle for wafer fabrication.

(ii) Repair equipment - this equipment generally utilizes focused ion beams or laser beams. They are used directly on the mask or reticle to remove chrome.

(c) Wafer fabrication equipment:

(i) Film formation equipment - used to apply or produce various films on the surface of the wafer during the fabrication process. These films serve as conductors, insulators and semiconductors on the finished device. They may include oxides and nitrides of the substrate surface, metals, and epitaxial layers. The processes and equipments listed below are not necessarily limited to the generation of a particular type of film.

(A) Oxidation furnaces - used to form a "film" of oxide on the wafer. The oxide is formed by the chemical reaction of the top molecular layers of the wafer with the applied oxygen or steam under heat.

Statistical Note (con.)

(B) Chemical Vapor Deposition (CVD) equipment - used to deposit various types of films which are obtained by combining the appropriate gases in a reactant chamber at elevated temperatures. This constitutes a thermochemical vapor-phase reaction. Operations may take place at atmospheric or low pressure (LPCVD) and may use plasma enhancement (PECVD).

(C) Physical Vapor Deposition (PVD) equipment - used to deposit various types of films which are obtained by vaporizing a solid.

(1) Evaporation equipment - in which the film is generated by heating the source material.

(2) Sputtering equipment - in which the film is generated by bombarding the source material (target) with ions.

(D) Molecular Beam Epitaxy (MBE) equipment - used to grow epitaxial layers on a heated monocrystalline substrate in an ultrahigh vacuum using beams of molecules. The process is similar to PVD.

(ii) Doping equipment - which is used to introduce dopants into the wafer surface in order to modify the conductivity or other characteristics of a semiconductor layer:

(A) Thermal diffusion equipment - in which the dopants are introduced into the surface of the wafer by the application of gases under high temperatures.

(B) Ion Implantation - in which the dopants are "driven" into the crystal lattice structure of the surface of the wafer in the form of a beam of accelerated ions.

(C) Annealing furnaces - which are used to repair the crystal lattice structures of the wafer damaged by ion implantation.

(iii) Etching and stripping equipment - used for etching or cleaning surfaces of the wafers.

(A) Wet etching equipment - in which chemical etching materials are applied by spraying or immersion. Spray etchers provide more uniform results than bath etchers, since they perform the operation on one wafer at a time.

(B) Dry plasma etching - in which etching materials are presented as gases within a plasma energy field, providing an anisotropic etch profile.

(C) Ion beam milling equipment - in which ionized gas atoms are accelerated toward the wafer surface. The impact results in the top layer being physically removed from the surface.

(D) Strippers or ashers - using techniques similar to etching, this apparatus removes the spent photoresist from the surface of the wafer after it has served its purpose as a "stencil". This equipment is also used for removal of nitrides, oxides, and polysilicon, with an isotropic etch profile.

(iv) Lithography equipment - used to transfer the circuit designs to the photoresist coated surface of the semiconductor wafer.

(A) Equipment for coating wafers with photoresist - these include the photoresist spinners which are used to apply liquid photoresist evenly over the surface of the wafer.

(B) Equipment for exposing the photoresist coated wafer with the circuit design (or a part thereof):

(1) Using a mask or reticle and exposing the photoresist to light (generally ultraviolet) or, in some instances, X-rays:

(a) Contact printers - where the mask or reticle is in contact with the wafer during exposure.

(b) Proximity aligners - similar to contact aligners except actual contact does not take place between the mask or reticle and the wafer.

(c) Scanning aligners - which use projection techniques to expose a continuously moving slit across the mask and wafer.

(d) Step and repeat aligners - which use projection techniques to expose the wafer a portion at a time. Exposure can be by reduction from the mask to the wafer or 1:1. Enhancements include the use of an excimer laser.

(2) Direct write on wafer equipment - these apparatus operate with no mask or reticle. They use a computer controlled "writing beam" (such as an electron beam (E-beam), ion beam or laser) to "draw" the circuit design directly on the photoresist coated wafer.

Statistical Note (con.)

(C) Equipment for developing exposed wafers - these include chemical baths similar to those used in photographic laboratory applications.

(d) Assembly equipment:

(i) Dicing equipment - these include sawing machines and scribing machines (including laser scribers) and dicing accessories such as wafer breaking equipment.

(ii) Die bonding equipment - which installs the die to the package by soldering or gluing

(iii) Wire bonding equipment - used for attaching thin wires or tapes (usually of gold, aluminum or copper) from the die bonding pads to the corresponding pads on the package.

(iv) Packaging equipment - which are used to encapsulate or package a semiconductor device. They include sealing furnaces, lid welders, plastic encapsulation presses, lead trim and form equipment, package deflashers, and tin dip and solder plate equipment.

(e) Testing and inspection equipment:

(i) Optical inspection equipment - These include equipment that "examines" portions of the wafer surface and compares them either to a standard pattern or to other portions of the wafer surface.

(ii) Electrical testing equipment - These include computer controlled systems that test the functions and electrical specifications of semiconductor devices through the application and detection of electrical signals or patterns. Testing is performed on both unencapsulated dice and packaged integrated circuits.

CHAPTER 84

NUCLEAR REACTORS, BOILERS, MACHINERY AND
MECHANICAL APPLIANCES; PARTS THEREOF



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;

   (g) Radiators for the articles of section XVII; or

   (h) Hand-operated mechanical floor sweepers, not motorized (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 more 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);

   (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 centers), 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 program (machining centers),

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(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 :

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

(ii) Being freely programmed in accordance with the requirements of the user;

(iii) Performing arithmetical computations specified by the user; and

(iv) 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 part of an automatic data processing system if it meets all of the following conditions :

(i) It is of a kind solely or principally used in an automatic data processing system;

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

(iii) 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 co-ordinate input devices and disk storage units which satisfy the conditions of paragraphs (C) (ii) and (C) (iii) 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 :

(i) Printers, copying machines, facsimile machines, whether or not combined;

(ii) 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);

(iii) Loudspeakers and microphones;

(iv) Television cameras, digital cameras and video camera recorders;

(v) 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 percent or by more than 0.05 mm, whichever is less. Other steel balls are to be classified under 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.

Notes (con.)

9. (A) Notes 9(a) and 9(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 (LED).

   (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 :

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

      (ii) assembling semiconductor devices or electronic integrated circuits;

      (iii) 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 tariff schedule.

   **Compiler's note:** All provisions of subchapter II of chapter 99 have expired; footnote references are shown for reference only.

Subheading Notes

1. For the purposes of subheading 8465.20, the term "machining centers" 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 program.

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 U.S. Notes

1. For the purposes of subheadings 8479.89.65 and 8479.89.94, the rate of duty "Free (C)" appearing in the column entitled "1-Special" applies only to the following articles: nonelectric starter motors; propeller regulators, nonelectric; servo-mechanisms, nonelectric; windshield wipers, nonelectric; hydropneumatic accumulators; pneumatic starters for turbojets, turbopropellers, or other gas turbines; toilet units specially designed for aircraft; mechanical actuators for thrust reversers.

2. Subheading 8443.99.20 covers the following parts of printer units of subheading 8443.32.10:

   (a) Control or command assemblies, incorporating more than one of the following: printed circuit assembly, hard or flexible (floppy) disk drive, keyboard, user interface;

   (b) Light source assemblies, incorporating more than one of the following: light emitting diode assembly, gas laser, mirror polygon assembly, base casting;

   (c) Laser imaging assemblies, incorporating more than one of the following: photoreceptor belt or cylinder, toner receptacle unit, toner developing unit, charge/discharge units, cleaning unit;

   (d) Image fixing assemblies, incorporating more than one of the following: fuser, pressure roller, heating element, release oil dispenser, cleaning unit, electrical control;

   (e) Ink jet marking assemblies, incorporating more than one of the following: thermal print head, ink dispensing unit, nozzle and reservoir unit, ink heater;

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(f) Maintenance/sealing assemblies, incorporating more than one of the following: vacuum unit, ink jet covering unit, sealing unit, purging unit;

(g) Paper handling assemblies, incorporating more than one of the following: paper transport belt, roller, print bar, carriage, gripper roller, paper storage unit, exit tray;

(h) Thermal transfer imaging assemblies, incorporating more than one of the following: thermal print head, cleaning unit, supply or take-up roller;

(ij) Ionographic imaging assemblies, incorporating more than one of the following: ion generation and emitting unit, air assist unit, printed circuit assembly, charge receptor belt or cylinder, toner receptacle unit, toner distribution unit, developer receptacle and distribution unit, developing unit, charge/discharge unit, cleaning unit; or

(k) Combinations of the above specified assemblies.

3. Subheading 8443.99.30 covers the following parts of facsimile machines:

(a) Control or command assemblies, incorporating more than one of the following: printed circuit assembly, modem, hard or flexible (floppy) disk drive, keyboard, user interface;

(b) Optics module assemblies, incorporating more than one of the following: optics lamp, charge couples device and appropriate optics, lenses, mirrors;

(c) Laser imaging assemblies, incorporating more than one of the following: photoreceptor belt or cylinder, toner receptacle unit, toner developing unit, charge/discharge units, cleaning unit;

(d) Ink jet marking assemblies, incorporating more than one of the following: thermal print head, ink dispensing unit, nozzle and reservoir unit, ink heater;

(e) Thermal transfer imaging assemblies, incorporating more than one of the following: thermal print head, cleaning unit, supply or take-up roller;

(f) Ionographic imaging assemblies, incorporating more than one of the following: ion generation and emitting unit, air assist unit, printed circuit assembly, charge receptor belt or cylinder, toner receptacle unit, toner distribution unit, developer receptacle and distribution unit, developing unit, charge/discharge unit, cleaning unit;

(g) Image fixing assemblies, incorporating more than one of the following: fuser, pressure roller, heating elements, release oil dispenser, cleaning unit, electrical control;

(h) Paper handling assemblies, incorporating more than one of the following: paper transport belt, roller, print bar, carriage, gripper roller, paper storage unit, exit tray; and

(ij) Combinations of the above specified assemblies.

4. Subheading 8443.99.40 covers the following parts of photocopying apparatus of subheading 8443.39.20:

(a) Imaging assemblies, incorporating more than one of the following: photoreceptor belt or cylinder, toner receptacle unit, toner distribution unit, developer receptacle unit, developer distribution unit, charge/discharge unit, cleaning unit;

(b) Optics assemblies, incorporating more than one of the following: lens, mirror, illumination source, document exposure glass;

(c) User control assemblies, incorporating more than one of the following: printed circuit assembly, power supply, user input keyboard, wiring harness, display unit (cathode ray type or flat panel);

(d) Image fixing assemblies, incorporating more than one of the following: fuser, pressure rollers, heating elements, release oil dispenser, cleaning unit, electrical controls;

(e) Paper handling assemblies, incorporating more than one of the following: paper transport belt, roller, print bar, carriage, gripper roller, paper storage unit, exit tray; or

(f) Combinations of the above specified assemblies.

Statistical Note

1. For the purposes of statistical reporting number 8472.90.9040, the term "note counters and note scanners" means document handling machines that count currency bills, bank notes, coupons, script or other value-based paper documents and to stack them in an organized fashion. Note counters and note scanners can both incorporate a sensor for detecting suspect (i.e., counterfeit) documents. Note scanners have additional sensors that enable the machines to distinguish documents by denomination.

[**Compiler's note:** All provisions of subchapter II of chapter 99 have expired; footnote references are shown for reference only.]

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8401 | | Nuclear reactors; fuel elements (cartridges), non-irradiated, for nuclear reactors; machinery and apparatus for isotopic separation; parts thereof: | | | | |
| 8401.10.00 | 00 | Nuclear reactors | t | 3.3% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8401.20.00 | 00 | Machinery and apparatus for isotopic separation, and parts thereof | t | 2.6% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8401.30.00 | 00 | Fuel elements (cartridges), non-irradiated, and parts thereof | X | 3.3% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8401.40.00 | 00 | Parts of nuclear reactors | t | 3.3% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8402 | | Steam or other vapor generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers; parts thereof: | | | | |
| | | Steam or other vapor generating boilers: | | | | |
| 8402.11.00 | 00 | Watertube boilers with a steam production exceeding 45 t per hour | t | 5.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8402.12.00 | 00 | Watertube boilers with a steam production not exceeding 45 t per hour | t | 4.3% 1/ | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8402.19.00 | 00 | Other vapor generating boilers, including hybrid boilers | t | 5.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8402.20.00 | 00 | Super-heated water boilers | t | 3.3% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8402.90.00 | | Parts | | 4.3% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | 10 | Heat exchangers | t | | | |
| | 90 | Other | X | | | |
| 8403 | | Central heating boilers (other than those of heading 8402) and parts thereof: | | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8403 (con.) | | Central heating boilers (other than those of heading 8402) and parts thereof: (con.) | | | | |
| 8403.10.00 | 00 | Boilers | No | Free | | 45% |
| 8403.90.00 | 00 | Parts | X | Free | | 45% |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8404 | | Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economizers, super-heaters, soot removers, gas recoverers); condensers for steam or other vapor power units; parts thereof: | | | | |
| 8404.10.00 | | Auxiliary plant for use with boilers of heading 8402 or 8403 | ..... | 3.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | 10 | Economizers | t | | | |
| | 50 | Other | t | | | |
| 8404.20.00 | 00 | Condensers for steam or other vapor power units | t | 5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8404.90.00 | 00 | Parts | X | 3.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 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; parts thereof: | | | | |
| 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 | X | Free 1/ | | 45% |
| 8405.90.00 | 00 | Parts | X | Free 1/ | | 45% |
| 8406 | | Steam turbines and other vapor turbines, and parts thereof: | | | | |
| 8406.10 | | Turbines for marine propulsion: | | | | |
| 8406.10.10 | 00 | Steam turbines | No | 6.7% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 20% |
| 8406.10.90 | 00 | Other | No | Free 1/ | | 27.5% |
| | | Other turbines: | | | | |
| 8406.81 | | Of an output exceeding 40 MW: | | | | |
| 8406.81.10 | | Steam turbines | ..... | 6.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 20% |
| | 20 | Stationary steam turbines, condensing type | No. | | | |
| | 70 | Other | No. | | | |
| 8406.81.90 | 00 | Other | No | Free 1/ | | 27.5% |
| 8406.82 | | Of an output not exceeding 40 MW: | | | | |
| 8406.82.10 | | Steam turbines | ..... | 6.7% 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 20% |
| | | Stationary steam turbines, condensing type: | | | | |
| | 10 | Not exceeding 7,460 kW | No. | | | |
| | 20 | Exceeding 7,460 kW | No. | | | |
| | | Other: | | | | |
| | 50 | Not exceeding 7,460 kW | No. | | | |
| | 70 | Exceeding 7,460 kW | No. | | | |

1/ See 9903.88.01.
2/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8406 (con.) | | Steam turbines and other vapor turbines, and parts thereof: (con.) | | | | |
| | | Other turbines: (con.) | | | | |
| 8406.82 (con.) | | Of an output not exceeding 40 MW: (con.) | | | | |
| 8406.82.90 | 00 | Other | No | Free 1/ | | 27.5% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8406 (con.) | | Steam turbines and other vapor turbines, and parts thereof: (con.) | | | | |
| 8406.90 | | Parts: | | | | |
| | | Of steam turbines: | | | | |
| 8406.90.20 | 00 | Rotors, finished for final assembly | No | 5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 20% |
| 8406.90.30 | 00 | Rotors, not further advanced than cleaned or machined for removal of fins, gates, sprues, and risers, or to permit location in finishing machinery | No | 5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 20% |
| 8406.90.40 | 00 | Blades, rotating or stationary | No | 5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 20% |
| 8406.90.45 | | Other | | 5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 20% |
| | 40 | Rotors or spindles and rotor or spindle assemblies | No. | | | |
| | 80 | Other | X | | | |
| | | Other: | | | | |
| 8406.90.50 | 00 | Rotors, finished for final assembly | No | Free | | 27.5% |
| 8406.90.60 | 00 | Rotors, not further advanced than cleaned or machined for removal of fins, gates, sprues, and risers, or to permit location in finishing machinery | No | Free | | 27.5% |
| 8406.90.70 | 00 | Blades, rotating or stationary | No | Free | | 27.5% |
| 8406.90.75 | 00 | Other | X | Free | | 27.5% |

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8407 | | Spark-ignition reciprocating or rotary internal combustion piston engines: | | | | |
| 8407.10.00 | | Aircraft engines | | Free 1/ | | 35% |
| | | For use in civil aircraft: | | | | |
| | | New: | | | | |
| | 20 | Less than 373 kW | No. | | | |
| | 40 | 373 kW or over | No. | | | |
| | 60 | Used or rebuilt | No. | | | |
| | 90 | Other | No. | | | |
| | | Marine propulsion engines: | | | | |
| 8407.21.00 | | Outboard motors | | Free 1/ | | 35% |
| | 40 | Less than 22.38 kW | No. | | | |
| | 80 | Other | No. | | | |
| 8407.29.00 | | Other | | Free 1/ | | 35% |
| | 10 | Inboard engines with outboard drive | No. | | | |
| | | Inboard engines with inboard drive: | | | | |
| | 20 | Less than 746 W | No. | | | |
| | 30 | 746 W or greater, but not exceeding 18.65 kW | No. | | | |
| | 40 | Exceeding 18.65 kW | No. | | | |
| | | Reciprocating piston engines of a kind used for the propulsion of vehicles of chapter 87: | | | | |
| 8407.31.00 | | Of a cylinder capacity not exceeding 50 cc | | Free | | 35% |
| | 40 | Less than 746 W | No. | | | |
| | 80 | Other | No. | | | |
| 8407.32 | | Of a cylinder capacity exceeding 50 cc but not exceeding 250 cc: | | | | |
| 8407.32.10 | 00 | To be installed in tractors suitable for agricultural use | No. | Free | | Free |
| 8407.32.20 | | To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704 | | Free | | 35% |
| | 40 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8407.32.90 | | Other | | Free | | 35% |
| | 40 | Not exceeding 18.65 kW | No. | | | |
| | 80 | Exceeding 18.65 kW | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8407 (con.) | | Spark-ignition reciprocating or rotary internal combustion piston engines: (con.) | | | | |
| | | Reciprocating piston engines of a kind used for the propulsion of vehicles of chapter 87: (con.) | | | | |
| 8407.33 | | Of a cylinder capacity exceeding 250 cc but not exceeding 1,000 cc: | | | | |
| 8407.33.10 | | To be installed in tractors suitable for agricultural use | ..... | Free | | Free |
| | 30 | Not exceeding 37.3 kW | No. | | | |
| | | Exceeding 37.3 kW: | | | | |
| | 60 | Air-cooled | No. | | | |
| | 90 | Other | No. | | | |
| | | To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704: | | | | |
| 8407.33.30 | | To be installed in vehicles specially designed for traveling on snow, golf carts, non-amphibious all-terrain vehicles and burden carriers | ..... | Free | | 35% |
| | 40 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8407.33.60 | | Other | ..... | 2.5% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 40 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8407.33.90 | | Other | ..... | Free | | 35% |
| | 40 | Not exceeding 18.65 kW | No. | | | |
| | 80 | Exceeding 18.65 kW | No. | | | |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8407 (con.) | | Spark-ignition reciprocating or rotary internal combustion piston engines: (con.) | | | | |
| | | Reciprocating piston engines of a kind used for the propulsion of vehicles of chapter 87: (con.) | | | | |
| 8407.34 | | Of a cylinder capacity exceeding 1,000 cc: | | | | |
| | | Of a cylinder capacity not exceeding 2,000 cc: | | | | |
| 8407.34.05 | | To be installed in tractors suitable for agricultural use | ..... | Free 1/ | | Free |
| | 30 | Not exceeding 37.3 kW | No. | | | |
| | | Exceeding 37.3 kW: | | | | |
| | 60 | Air-cooled | No. | | | |
| | 90 | Other | No. | | | |
| | | To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704: | | | | |
| 8407.34.14 | 00 | Used or rebuilt | No | 2.5% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8407.34.18 | 00 | Other | No | 2.5% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8407.34.25 | 00 | Other | No | Free | | 35% |
| | | Of a cylinder capacity exceeding 2,000 cc: | | | | |
| 8407.34.35 | | To be installed in tractors suitable for agricultural use | ..... | Free 1/ | | Free |
| | 30 | Not exceeding 37.3 kW | No. | | | |
| | | Exceeding 37.3 kW: | | | | |
| | 60 | Air-cooled | No. | | | |
| | 90 | Other | No. | | | |
| | | To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704: | | | | |
| 8407.34.44 | 00 | Used or rebuilt | No | 2.5% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8407.34.48 | 00 | Other | No | 2.5% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8407.34.55 | 00 | Other | No | Free | | 35% |

1/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8407 (con.) | | Spark-ignition reciprocating or rotary internal combustion piston engines: (con.) | | | | |
| 8407.90 | | Other engines: | | | | |
| 8407.90.10 | | To be installed in agricultural or horticultural machinery or equipment | | Free 1/ | | Free |
| | | Not exceeding 37.3 kW: | | | | |
| | 10 | Less than 4,476 W | No. | | | |
| | 20 | Other | No. | | | |
| | | Other: | | | | |
| | 60 | Air-cooled | No. | | | |
| | 80 | Other | No. | | | |
| 8407.90.90 | | Other | | Free 1/ | | 35% |
| | 10 | Gas (natural or LP) engines | No. | | | |
| | | Other: | | | | |
| | 20 | Less than 746 W | No. | | | |
| | 40 | 746 W or greater but less than 4,476 W | No. | | | |
| | 60 | 4,476 W or greater but not exceeding 18.65 kW | No. | | | |
| | 80 | Exceeding 18.65 kW | No. | | | |

1/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8408 | | Compression-ignition internal combustion piston engines (diesel or semi-diesel engines): | | | | |
| 8408.10.00 | | Marine propulsion engines | | 2.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 05 | Not exceeding 111.9 kW | No. | | | |
| | 15 | Exceeding 111.9 kW but not exceeding 149.2 kW | No. | | | |
| | 20 | Exceeding 149.2 kW but not exceeding 223.8 kW | No. | | | |
| | 30 | Exceeding 223.8 kW but not exceeding 373 kW | No. | | | |
| | 40 | Exceeding 373 kW but not exceeding 746 kW | No. | | | |
| | 50 | Exceeding 746 kW | No. | | | |
| 8408.20 | | Engines of a kind used for the propulsion of vehicles of chapter 87: | | | | |
| 8408.20.10 | | To be installed in tractors suitable for agricultural use | | Free 2/ | | Free |
| | 40 | Not exceeding 37.3 kW | No. | | | |
| | 80 | Exceeding 37.3 kW | No. | | | |
| 8408.20.20 | 00 | To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704 | No | 2.5% | Free (A*, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8408.20.90 | 00 | Other | No | 2.5% | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8408.90 | | Other engines: | | | | |
| 8408.90.10 | | To be installed in agricultural or horticultural machinery or equipment | | Free 1/ | | Free |
| | 40 | Not exceeding 37.3 kW | No. | | | |
| | 80 | Exceeding 37.3 kW | No. | | | |
| 8408.90.90 | | Other | | Free 1/ | | 35% |
| | 10 | Not exceeding 149.2 kW | No. | | | |
| | 20 | Exceeding 149.2 kW but not exceeding 373 kW | No. | | | |
| | 30 | Exceeding 373 kW but not exceeding 746 kW | No. | | | |
| | 40 | Exceeding 746 kW but not exceeding 1,119 kW | No. | | | |
| | 50 | Exceeding 1,119 kW | No. | | | |

1/ See 9903.88.01.
2/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8409 | | Parts suitable for use solely or principally with the engines of heading 8407 or 8408: | | | | |
| 8409.10.00 | | For aircraft engines | | Free 1/ | | 35% |
| | 40 | For use in civil aircraft 2/ | kg | | | |
| | 80 | Other | kg | | | |
| | | Other: | | | | |
| 8409.91 | | Suitable for use solely or principally with spark-ignition internal combustion piston engines (including rotary engines): | | | | |
| 8409.91.10 | | Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery | | Free | | 10% |
| | 40 | For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704 | kg | | | |
| | 60 | For marine propulsion engines | kg | | | |
| | 80 | Other | kg | | | |
| | | Other: | | | | |
| | | For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704: | | | | |
| 8409.91.30 | 00 | Aluminum cylinder heads | No.<br>kg | 2.5% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8409.91.50 | | Other | | 2.5% | Free (A*, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | Connecting rods | No.<br>kg | | | |
| | 81 | Steel forgings | kg | | | |
| | 85 | Other | kg | | | |
| 8409.91.92 | | For marine propulsion engines | | 2.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | Connecting rods | No.<br>kg | | | |
| | 90 | Other | kg | | | |
| 8409.91.99 | | Other | | 2.5% | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | Connecting rods | No.<br>kg | | | |
| | 90 | Other | kg | | | |

1/ See 9903.88.01.
2/ See General Note 6.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8409 (con.) | | Parts suitable for use solely or principally with the engines of heading 8407 or 8408: (con.) | | | | |
| | | Other: (con.) | | | | |
| 8409.99 | | Other: | | | | |
| 8409.99.10 | | Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery | | Free | | 10% |
| | 40 | For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704 | kg | | | |
| | 60 | For marine propulsion engines | kg | | | |
| | 80 | Other | kg | | | |
| | | Other: | | | | |
| 8409.99.91 | | For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704 | | 2.5% | Free (A*, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | Connecting rods | No. kg | | | |
| | 90 | Other | kg | | | |
| 8409.99.92 | | For marine propulsion engines | | 2.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | Connecting rods | No. kg | | | |
| | 90 | Other | kg | | | |
| 8409.99.99 | | Other | | Free | | 35% |
| | 10 | Connecting rods | No. kg | | | |
| | 90 | Other | kg | | | |
| 8410 | | Hydraulic turbines, water wheels and regulators therefor; parts thereof: | | | | |
| | | Hydraulic turbines and water wheels: | | | | |
| 8410.11.00 | 00 | Of a power not exceeding 1,000 kW | No | 3.8% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 27.5% |
| 8410.12.00 | 00 | Of a power exceeding 1,000 kW but not exceeding 10,000 kW | No | 3.8% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 27.5% |
| 8410.13.00 | 00 | Of a power exceeding 10,000 kW | No | 3.8% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 27.5% |
| 8410.90.00 | 00 | Parts, including regulators | X | 3.8% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 27.5% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8411 | | Turbojets, turbopropellers and other gas turbines, and parts thereof: | | | | |
| | | Turbojets: | | | | |
| 8411.11 | | Of a thrust not exceeding 25 kN: | | | | |
| 8411.11.40 | 00 | Aircraft turbines | No | Free 1/ | | 35% |
| 8411.11.80 | 00 | Other | No | Free 1/ | | 35% |
| 8411.12 | | Of a thrust exceeding 25 kN: | | | | |
| 8411.12.40 | 00 | Aircraft turbines | No | Free 1/ | | 35% |
| 8411.12.80 | 00 | Other | No | Free 1/ | | 35% |
| | | Turbopropellers: | | | | |
| 8411.21 | | Of a power not exceeding 1,100 kW: | | | | |
| 8411.21.40 | 00 | Aircraft turbines | No | Free 1/ | | 35% |
| 8411.21.80 | 00 | Other | No | Free 1/ | | 35% |
| 8411.22 | | Of a power exceeding 1,100 kW: | | | | |
| 8411.22.40 | 00 | Aircraft turbines | No | Free 1/ | | 35% |
| 8411.22.80 | 00 | Other | No | Free 1/ | | 35% |
| | | Other gas turbines: | | | | |
| 8411.81 | | Of a power not exceeding 5,000 kW: | | | | |
| 8411.81.40 | 00 | Aircraft turbines | No | Free 1/ | | 35% |
| 8411.81.80 | 00 | Other | No | 2.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8411.82 | | Of a power exceeding 5,000 kW: | | | | |
| 8411.82.40 | 00 | Aircraft turbines | No | Free 1/ | | 35% |
| 8411.82.80 | 00 | Other | No | 2.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8411 (con.) | | Turbojets, turbopropellers and other gas turbines, and parts thereof: (con.) | | | | |
| | | Parts: | | | | |
| 8411.91 | | Of turbojets or turbopropellers: | | | | |
| 8411.91.10 | | Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery | ..... | Free 1/ | | 10% |
| | 40 | Parts of nonaircraft turbines | kg | | | |
| | | Parts of aircraft turbines: | | | | |
| | 60 | For use in civil aircraft 1/ | kg | | | |
| | 90 | Other | kg | | | |
| 8411.91.90 | | Other | ..... | Free 1/ | | 35% |
| | 40 | Parts of nonaircraft turbines | X | | | |
| | | Parts of aircraft turbines: | | | | |
| | 81 | Steel forgings | kg | | | |
| | 85 | Other | X | | | |
| 8411.99 | | Other: | | | | |
| 8411.99.10 | | Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery | ..... | Free 1/ | | 10% |
| | 10 | Parts of nonaircraft gas turbines | X | | | |
| | | Parts of aircraft gas turbines: | | | | |
| | 40 | For use in civil aircraft 2/ | X | | | |
| | 80 | Other | X | | | |
| 8411.99.90 | | Other | ..... | 2.4% 1/ | Free (A, AU, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Parts of nonaircraft gas turbines: | | | | |
| | 30 | Rotors or spindles and rotor or spindle assemblies | No. | | | |
| | | Other: | | | | |
| | 81 | Steel forgings | kg | | | |
| | 85 | Other | X | | | |
| | 90 | Parts of aircraft gas turbines | X | | | |

1/ See 9903.88.01.
1/ See General Note 6.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8412 | | Other engines and motors, and parts thereof: | | | | |
| 8412.10.00 | | Reaction engines other than turbojets | | Free 1/ | | 35% |
| | 10 | Missile and rocket engines | No. | | | |
| | 90 | Other | No. | | | |
| | | Hydraulic power engines and motors: | | | | |
| 8412.21.00 | | Linear acting (cylinders) | | Free 1/ | | 27.5% |
| | 15 | Tie-rod type | No. | | | |
| | 30 | Weld fused type | No. | | | |
| | | Other: | | | | |
| | 45 | Telescoping | No. | | | |
| | 60 | Rodless | No. | | | |
| | 75 | Other | No. | | | |
| 8412.29 | | Other: | | | | |
| 8412.29.40 | 00 | Hydrojet engines for marine propulsion | No. | Free 1/ | | 30% |
| 8412.29.80 | | Other | | Free 1/ | | 27.5% |
| | | Unlimited rotary acting: | | | | |
| | 15 | Gear type | No. | | | |
| | 30 | Radial piston type | No. | | | |
| | 45 | Axial piston type | No. | | | |
| | 60 | Other | No. | | | |
| | 75 | Other | No. | | | |
| | | Pneumatic power engines and motors: | | | | |
| 8412.31.00 | | Linear acting (cylinders) | | Free 1/ | | 27.5% |
| | 40 | Tie-rod type | No. | | | |
| | 80 | Other | No. | | | |
| 8412.39.00 | | Other | | Free 1/ | | 27.5% |
| | 40 | Unlimited rotary acting | No. | | | |
| | 80 | Other | No. | | | |
| 8412.80 | | Other engines and motors: | | | | |
| 8412.80.10 | 00 | Spring-operated and weight-operated motors | No. | Free 1/ | | 35% |
| 8412.80.90 | 00 | Other | X | Free 1/ | | 27.5% |
| 8412.90 | | Parts: | | | | |
| 8412.90.10 | 00 | Of hydrojet engines for marine propulsion | X | Free 1/ | | 30% |
| 8412.90.90 | | Other | | Free | | 27.5% |
| | | Of hydraulic power engines and motors: | | | | |
| | 05 | Of linear acting engines and motors | X | | | |
| | 15 | Other | X | | | |
| | | Of pneumatic power engines and motors: | | | | |
| | 25 | Of linear acting engines and motors | X | | | |
| | 35 | Other | X | | | |
| | 50 | Of reaction engines other than turbojets | X | | | |
| | | Other: | | | | |
| | 81 | Wind turbine blades and hubs | X | | | |
| | 85 | Other | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8413 | | Pumps for liquids, whether or not fitted with a measuring device; liquid elevators; part thereof: | | | | |
| | | 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 | No | Free | | 35% |
| 8413.19.00 | 00 | Other | No | Free 1/ | | 35% |
| 8413.20.00 | 00 | Hand pumps, other than those of subheading 8413.11 or 8413.19 | No | Free | | 35% |
| 8413.30 | | Fuel, lubricating or cooling medium pumps for internal combustion piston engines: | | | | |
| 8413.30.10 | 00 | Fuel-injection pumps for compression-ignition engines | No | 2.5% | Free (A*, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8413.30.90 | | Other | | 2.5% | Free (A*, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 30 | Fuel pumps | No. | | | |
| | 60 | Lubricating pumps | No. | | | |
| | 90 | Other | No. | | | |
| 8413.40.00 | 00 | Concrete pumps | No | Free 1/ | | 35% |
| 8413.50.00 | | Other reciprocating positive displacement pumps | | Free 1/ | | 35% |
| | 10 | Oil well and oil field pumps | No. | | | |
| | 50 | Diaphragm pumps | No. | | | |
| | | Other: | | | | |
| | | Hydraulic fluid power pumps | | | | |
| | 70 | Radial piston type | No. | | | |
| | 80 | Other | No. | | | |
| | 90 | Other | No. | | | |
| 8413.60.00 | | Other rotary positive displacement pumps | | Free 1/ | | 35% |
| | | Hydraulic fluid power pumps: | | | | |
| | 20 | Vane type | No. | | | |
| | 30 | Gear type | No. | | | |
| | 40 | Other | No. | | | |
| | | Other: | | | | |
| | 50 | Oil well and oil field pumps | No. | | | |
| | 70 | Roller pumps | No. | | | |
| | 90 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8413 (con.) | | Pumps for liquids, whether or not fitted with a measuring device; liquid elevators; part thereof: (con.) | | | | |
| 8413.70 | | Other centrifugal pumps: | | | | |
| 8413.70.10 | 00 | Stock pumps imported for use with machines for making cellulosic pulp, paper or paperboard | No | Free 1/ | | 35% |
| 8413.70.20 | | Other | | Free 1/ | | 35% |
| | 04 | Submersible pumps | No. | | | |
| | | Other: | | | | |
| | | Single-stage, single-suction, close-coupled: | | | | |
| | 05 | With discharge outlet under 5.08 cm in diameter | No. | | | |
| | 15 | With discharge outlet 5.08 cm or over in diameter | No. | | | |
| | | Single-stage, single-suction, frame- mounted: | | | | |
| | 22 | With discharge outlet under 7.6 cm in diameter | No. | | | |
| | 25 | With discharge outlet 7.6 cm or over in diameter | No. | | | |
| | 30 | Single-stage, double-suction | No. | | | |
| | 40 | Multi-stage, single- or double-suction | No. | | | |
| | 90 | Other | No. | | | |
| | | Other pumps; liquid elevators: | | | | |
| 8413.81.00 | | Pumps | | Free 1/ | | 35% |
| | 20 | Turbine pumps | No. | | | |
| | 30 | Household water systems, self-contained; and windmill pumps | No. | | | |
| | 40 | Other | No. | | | |
| 8413.82.00 | 00 | Liquid elevators | No | Free 1/ | | 35% |
| | | Parts: | | | | |
| 8413.91 | | Of pumps: | | | | |
| 8413.91.10 | 00 | Of fuel-injection pumps for compression-ignition engines | X | 2.5% 1/ | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 0.7% (KR) | 35% |
| 8413.91.20 | 00 | Of stock pumps imported for use with machines for making cellulosic pulp, paper or paperboard | X | Free 1/ | | 35% |
| 8413.91.90 | | Other | | Free 1/ | | 35% |
| | 10 | Of subheading 8413.30.90 | X | | | |
| | 50 | Of hydraulic fluid power pumps | X | | | |
| | 80 | Other | X | | | |
| 8413.92.00 | 00 | Of liquid elevators | X | Free | | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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; parts thereof: | | | | |
| 8414.10.00 | 00 | Vacuum pumps | No | 2.5% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8414.20.00 | 00 | Hand- or foot-operated air pumps | No | 3.7% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8414.30 | | Compressors of a kind used in refrigerating equipment (including air conditioning): | | | | |
| 8414.30.40 | 00 | Not exceeding 1/4 horsepower | No | Free 1/ | | 35% |
| 8414.30.80 | | Other | | Free 1/ | | 35% |
| | | Screw type: | | | | |
| | 10 | Not exceeding 200 horsepower | No. | | | |
| | 20 | Exceeding 200 horsepower | No. | | | |
| | | Other: | | | | |
| | | For all refrigerants except ammonia | | | | |
| | 30 | For motor vehicles | No. | | | |
| | | Other: | | | | |
| | 50 | Exceeding 1/4 horsepower but not exceeding 1 horsepower | No. | | | |
| | 60 | Exceeding 1 horsepower but not exceeding 3 horsepower | No. | | | |
| | 70 | Exceeding 3 horsepower but not exceeding 10 horsepower | No. | | | |
| | 80 | Exceeding 10 horsepower | No. | | | |
| | 90 | For ammonia | No. | | | |
| 8414.40.00 | 00 | Air compressors mounted on a wheeled chassis for towing | No | 2.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8414 (con.) | | Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; parts thereof: (con.) | | | | |
| | | Fans: | | | | |
| 8414.51 | | Table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output not exceeding 125 W: | | | | |
| 8414.51.30 | 00 | Ceiling fans for permanent installation | No | 4.7% | Free (A, AU, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8414.51.90 | | Other | | 4.7% | Free (A*, AU, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 60 | For permanent installation | No. | | | |
| | 90 | Other | No. | | | |
| 8414.59 | | Other: | | | | |
| 8414.59.10 | 00 | Blowers for pipe organs | No | Free | | 35% |
| 8414.59.15 | 00 | Fans of a kind used solely or principally for cooling microprocessors, telecommunications apparatus, automatic data processing machines or units of automatic data processing machines | No | Free | | 35% |
| | | Other | | | | |
| 8414.59.30 | 00 | Turbochargers and superchargers | No | 2.3% 1/ | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8414.59.65 | | Other | | 2.3% | Free (A*, AU, B, BH, C, CA, CL, CO, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 40 | Suitable for use with motor vehicles | No. | | | |
| | | Other: | | | | |
| | 60 | Centrifugal | No. | | | |
| | 90 | Axial | No. | | | |
| | 95 | Other | No. | | | |
| 8414.60.00 | 00 | Hoods having a maximum horizontal side not exceeding 120 cm | No | Free | | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8414 (con.) | | Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; parts thereof: (con.) | | | | |
| 8414.80 | | Other, except parts: | | | | |
| | | Air compressors: | | | | |
| 8414.80.05 | 00 | Turbochargers and superchargers | No | Free 1/ | | 35% |
| 8414.80.16 | | Other | | Free | | 35% |
| | | Stationary: | | | | |
| | | Reciprocating: | | | | |
| | 05 | Not exceeding 746 W | No. | | | |
| | 15 | Exceeding 746 W but not exceeding 4.48 kW | No. | | | |
| | 25 | Exceeding 4.48 kW but not exceeding 8.21 kW | No. | | | |
| | 35 | Exceeding 8.21 kW but not exceeding 11.19 kW | No. | | | |
| | 40 | Exceeding 11.19 kW but not exceeding 19.4 kW | No. | | | |
| | 45 | Exceeding 19.4 kW but not exceeding 74.6 kW | No. | | | |
| | 55 | Exceeding 74.6 kW | No. | | | |
| | | Rotary: | | | | |
| | 60 | Not exceeding 11.19 kW | No. | | | |
| | 65 | Exceeding 11.19 kW but under 22.38 kW | No. | | | |
| | 70 | 22.38 kW and over but not exceeding 74.6 kW | No. | | | |
| | 75 | Exceeding 74.6 kW | No. | | | |
| | 80 | Other | No. | | | |
| | | Portable: | | | | |
| | 85 | Under 0.57 cubic meters per minute | No. | | | |
| | 90 | Other | No. | | | |
| 8414.80.20 | | Other compressors | | Free 1/ | | 35% |
| | 05 | Refrigerant recovery units | No. | | | |
| | | Other: | | | | |
| | 15 | Centrifugal and axial | No. | | | |
| | | Other, including reciprocating and rotary: | | | | |
| | 55 | Not exceeding 186.5 kW | No. | | | |
| | 65 | Exceeding 186.5 kW but not exceeding 746 kW | No. | | | |
| | 75 | Exceeding 746 kW | No. | | | |
| 8414.80.90 | 00 | Other | No | 3.7% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8414 (con.) | | Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; parts thereof: (con.) | | | | |
| 8414.90 | | Parts: | | | | |
| 8414.90.10 | | Of fans (including blowers) and ventilating or recycling hoods | ..... | 4.7% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG)<br>1.4% (KR) | 35% |
| | 40 | Of fans of subheading 8414.51 | X | | | |
| | 80 | Other | X | | | |
| | | Of compressors: | | | | |
| 8414.90.30 | 00 | Stators and rotors of goods of subheading 8414.30 | No. | Free 1/ | | 35% |
| 8414.90.41 | | Other | ..... | Free 1/ | | 35% |
| | | Of refrigerating and air conditioning compressors: | | | | |
| | 20 | Compressor housings | No. | | | |
| | 40 | Other | X | | | |
| | | Other: | | | | |
| | | Of compressors of subheading 8414.40: | | | | |
| | 45 | Compressor housings | No. | | | |
| | 55 | Other | X | | | |
| | | Other: | | | | |
| | 65 | Compressor housings | No. | | | |
| | 80 | Impeller covers and hubs | No. | | | |
| | 90 | Other | kg | | | |
| 8414.90.90 | | Other | ..... | Free 1/ | | 35% |
| | 40 | Of vacuum pumps | X | | | |
| | 80 | Other | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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; parts thereof: | | | | |
| 8415.10 | | Of a kind designed to be fixed to a window, wall, ceiling or floor, self-contained or "split system": | | | | |
| 8415.10.30 | | Self-contained | | Free | | 35% |
| | 40 | Less than 2.93 kW per hour | No. | | | |
| | 60 | 2.93 kW per hour or greater but less than 4.98 kW per hour | No. | | | |
| | 80 | 4.98 kW per hour or greater | No. | | | |
| | | Other: | | | | |
| 8415.10.60 | 00 | Incorporating a refrigerating unit and a valve for reversal of the cooling/heat cycle (reversible heat pumps) | No | 1% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8415.10.90 | 00 | Other | No | 2.2% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8415.20.00 | 00 | Of a kind used for persons, in motor vehicles | No | 1.4% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8415 (con.) | | 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; parts thereof: (con.) | | | | |
| | | Other, except parts: | | | | |
| 8415.81.01 | | Incorporating a refrigerating unit and a valve for reversal of the cooling/heat cycle (reversible heat pumps) | ..... | 1% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Self-contained: | | | | |
| | 10 | Not exceeding 17.58 kW per hour | No. | | | |
| | 20 | Exceeding 17.58 kW per hour | No. | | | |
| | 30 | Other | No. | | | |
| 8415.82.01 | | Other, incorporating a refrigerating unit | ..... | 2.2% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG)<br>0.6% (KR) | 35% |
| | | Self-contained machines and remote condenser type air conditioners other than year-round units: | | | | |
| | 05 | Not exceeding 17.58 kW per hour | No. | | | |
| | 10 | Exceeding 17.58 kW per hour | No. | | | |
| | | Year-round units (heating and cooling): | | | | |
| | 15 | Not exceeding 17.58 kW per hour | No. | | | |
| | 20 | Exceeding 17.58 kW per hour | No. | | | |
| | | Room or central station air conditioning units for use with water chillers: | | | | |
| | 30 | Room fan coil units | No. | | | |
| | 35 | Central station air handlers | No. | | | |
| | 40 | Other | No. | | | |
| | | Dehumidifiers: | | | | |
| | 55 | With a rated water removal capacity of less than 35 liters over a 24 hour period | No. | | | |
| | 60 | Other | No. | | | |
| | 70 | Other air conditioning machines incorporating a refrigerating unit | No. | | | |
| 8415.83.00 | | Not incorporating a refrigerating unit | ..... | 1.4% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Heat exchangers including condensing units: | | | | |
| | | Condensing units: | | | | |
| | 50 | Not exceeding 17.58 kW per hour | No. | | | |
| | 60 | Exceeding 17.58 kW per hour | No. | | | |
| | 70 | Other | No. | | | |
| | 90 | Other air conditioning machines not incorporating a refrigerating unit | No. | | | |

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8415 (con.) | | 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; parts thereof: (con.) | | | | |
| 8415.90 | | Parts: | | | | |
| 8415.90.40 | 00 | Chassis, chassis bases and outer cabinets | No | 1.4% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8415.90.80 | | Other | | 1.4% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 25 | Air conditioning evaporator coils | No. | | | |
| | | Other: | | | | |
| | 45 | Of automotive air conditioners | X | | | |
| | 65 | Of heat pumps | X | | | |
| | 85 | Other | X | | | |
| 8416 | | Furnace burners for liquid fuel, for pulverized solid fuel or for gas; mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances; parts thereof: | | | | |
| 8416.10.00 | 00 | Furnace burners for liquid fuel | No | Free | | 27.5% |
| 8416.20.00 | | Other furnace burners, including combination burners | | Free | | 27.5% |
| | 40 | Gas burners | No. | | | |
| | 80 | Other | No. | | | |
| 8416.30.00 | 00 | Mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances | X | Free | | 27.5% |
| 8416.90.00 | 00 | Parts | X | Free 1/ | | 27.5% |
| 8417 | | Industrial or laboratory furnaces and ovens, including incinerators, nonelectric, and parts thereof: | | | | |
| 8417.10.00 | 00 | Furnaces and ovens for the roasting, melting or other heat treatment of ores, pyrites or of metals | No | 2.9% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8417.20.00 | 00 | Bakery ovens, including biscuit ovens | No | 3.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8417.80.00 | 00 | Other, except parts | No | 3.9% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8417.90.00 | 00 | Parts | X | 3.9% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8418 | | Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps, other than the air conditioning machines of heading 8415; parts thereof: | | | | |
| 8418.10.00 | | Combined refrigerator-freezers, fitted with separate external doors | ..... | Free | | 35% |
| | | Compression type: | | | | |
| | 10 | Having a refrigerated volume of under 184 liters | No. | | | |
| | 20 | Having a refrigerated volume of 184 liters and over but under 269 liters | No. | | | |
| | 30 | Having a refrigerated volume of 269 liters and over but under 382 liters | No. | | | |
| | | Having a refrigerated volume of 382 liters and over: | | | | |
| | | French door refrigerators with a bottom freezer compartment: | | | | |
| | | Of a width exceeding 87 centimeters but not exceeding 95 centimeters: | | | | |
| | 45 | Having an external depth (excluding door handles) not exceeding 73 centimeters | No. | | | |
| | 55 | Other | No. | | | |
| | 65 | Other | No. | | | |
| | 75 | Other | No. | | | |
| | 90 | Other | No. | | | |
| | | Refrigerators, household type: | | | | |
| 8418.21.00 | | Compression type | ..... | Free | | 35% |
| | 10 | Having a refrigerated volume of under 184 liters | No. | | | |
| | 20 | Having a refrigerated volume of 184 liters and over but under 269 liters | No. | | | |
| | 30 | Having a refrigerated volume of 269 liters and over but under 382 liters | No. | | | |
| | 90 | Having a refrigerated volume of 382 liters and over | No. | | | |
| 8418.29 | | Other: | | | | |
| 8418.29.10 | 00 | Absorption type, electrical | No. | 1% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8418.29.20 | 00 | Other | No. | 1.9% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8418.30.00 | 00 | Freezers of the chest type, not exceeding 800 liters capacity | No. | Free | | 35% |
| 8418.40.00 | 00 | Freezers of the upright type, not exceeding 900 liters capacity | No. | Free | | 35% |
| 8418.50.00 | | Other furniture (chests, cabinets, display counters, show-cases and the like) for storage and display, incorporating refrigerating or freezing equipment | ..... | Free | | 35% |
| | 40 | Freezing | No. | | | |
| | 80 | Other | No. | | | |

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8418 (con.) | | Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps, other than the air conditioning machines of heading 8415; parts thereof: (con.) | | | | |
| | | Other refrigerating or freezing equipment; heat pumps: | | | | |
| 8418.61.01 | 00 | Heat pumps other than air conditioning machines of heading 8415 | No | Free | | 35% |
| 8418.69.01 | | Other | | Free 1/ | | 35% |
| | 10 | Icemaking machines | No. | | | |
| | 20 | Drinking water coolers, self-contained | No. | | | |
| | 30 | Soda fountain and beer dispensing equipment | No. | | | |
| | 40 | Centrifugal liquid chilling refrigerating units | No. | | | |
| | 50 | Reciprocating liquid chilling refrigerating units | No. | | | |
| | 60 | Absorption liquid chilling units | No. | | | |
| | 80 | Other refrigerating or freezing equipment | No. | | | |
| | | Parts: | | | | |
| 8418.91.00 | 00 | Furniture designed to receive refrigerating or freezing equipment | X | Free | | 35% |
| 8418.99 | | Other: | | | | |
| 8418.99.40 | 00 | Door assemblies incorporating more than one of the following: inner panel; outer panel; insulation; hinges; handles | X | Free | | 35% |
| 8418.99.80 | | Other | | Free | | 35% |
| | | Refrigeration condensing units: | | | | |
| | 05 | Not exceeding 746 W | No. | | | |
| | 10 | Exceeding 746 W but not exceeding 2.2 kW | No. | | | |
| | 15 | Exceeding 2.2 kW but not exceeding 7.5 kW | No. | | | |
| | 20 | Exceeding 7.5 kW but not exceeding 22.3 kW | No. | | | |
| | 25 | Exceeding 22.3 kW | No. | | | |
| | | Other: | | | | |
| | 50 | Parts of combined refrigerator-freezers fitted with separate external doors and parts of household type refrigerators | X | | | |
| | 60 | Other | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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, sterilizing, pasteurizing, steaming, drying, evaporating, vaporizing, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, nonelectric; parts thereof: | | | | |
| | | Instantaneous or storage water heaters, nonelectric: | | | | |
| 8419.11.00 | 00 | Instantaneous gas water heaters | No | Free 1/ | | 45% |
| 8419.19.00 | | Other | | Free 1/ | | 45% |
| | 20 | Instantaneous water heaters | No. | | | |
| | 40 | Solar water heaters | No. | | | |
| | 60 | Other | No. | | | |
| 8419.20.00 | | Medical, surgical or laboratory sterilizers | | Free | | 35% |
| | 10 | Medical or surgical sterilizers | No. | | | |
| | 20 | Laboratory sterilizers | No. | | | |
| | | Dryers: | | | | |
| 8419.31.00 | 00 | For agricultural products | No | Free 1/ | | 35% |
| 8419.32 | | For wood, paper pulp, paper or paperboard: | | | | |
| 8419.32.10 | 00 | For wood | No | Free 1/ | | 35% |
| 8419.32.50 | 00 | Other | No | Free 1/ | | 35% |
| 8419.39.01 | | Other | | Free 1/ | | 35% |
| | 40 | For food and beverages | No. | | | |
| | 80 | Other | No. | | | |
| 8419.40.00 | | Distilling or rectifying plant | | Free 1/ | | 35% |
| | 40 | For food and beverages | No. | | | |
| | 80 | Other | No. | | | |
| 8419.50 | | Heat exchange units: | | | | |
| 8419.50.10 | 00 | Brazed aluminum plate-fin heat exchangers | No | 4.2% 1/ | Free (A, AU, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8419.50.50 | 00 | Other | No | Free 1/ | | 35% |
| 8419.60 | | Machinery for liquefying air or other gases: | | | | |
| 8419.60.10 | 00 | Machinery containing brazed aluminum plate-fin heat exchangers | No | 4.2% 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8419.60.50 | 00 | Other | No | Free 1/ | | 35% |

1/ See 9903.88.01.
2/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8419 (con.) | | 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, sterilizing, pasteurizing, steaming, drying, evaporating, vaporizing, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, nonelectric; parts thereof: (con.) | | | | |
| | | Other machinery, plant or equipment: | | | | |
| 8419.81 | | For making hot drinks or for cooking or heating food: | | | | |
| 8419.81.50 | | Cooking stoves, ranges and ovens | ..... | Free | | 35% |
| | 40 | For use in civil aircraft 1/ | No. | | | |
| | 80 | Other | No. | | | |
| 8419.81.90 | | Other | ..... | Free | | 35% |
| | 40 | Of a type used in restaurants, hotels or similar locations | No. | | | |
| | 80 | Other | No. | | | |
| 8419.89 | | Other: | | | | |
| 8419.89.10 | 00 | For making paper pulp, paper or paperboard | No | Free 2/ | | 35% |
| | | Other: | | | | |
| 8419.89.60 | 00 | Molten-salt-cooled acrylic acid reactors | No | Free 3/ | | 35% |
| 8419.89.95 | | Other | ..... | 4.2% 2/ | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Designed for cooling: | | | | |
| | 20 | For food and beverages | No. | | | |
| | 40 | Other | No. | | | |
| | | Other: | | | | |
| | 60 | For food and beverages | No. | | | |
| | 80 | For rubber and plastics | No. | | | |
| | 85 | For other materials | No. | | | |
| 8419.90 | | Parts: | | | | |
| 8419.90.10 | 00 | Of instantaneous or storage water heaters | X | Free 3/ | | 45% |
| 8419.90.20 | 00 | Of machinery and plant for making paper pulp, paper or paperboard | X | Free 3/ | | 35% |
| 8419.90.30 | 00 | Of heat exchange units | X | Free 3/ | | 35% |
| | | Other: | | | | |
| 8419.90.50 | | Of molten-salt-cooled acrylic acid reactors; of medical, surgical or laboratory sterilizers | ..... | Free 3/ | | 35% |
| | 40 | Of medical, surgical or laboratory sterilizers | X | | | |
| | 80 | Other | X | | | |
| 8419.90.85 | 00 | Of electromechanical tools for working in the hand with self-contained electric motor | X | Free 3/ | | 35% |
| 8419.90.95 | | Other | ..... | 4% 3/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 20 | Of an apparatus of a type used in restaurants, hotels or similar locations | X | | | |
| | 80 | Other | X | | | |

1/ See General Note 6.
2/ See 9903.88.02.
3/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8420 | | Calendering or other rolling machines, other than for metals or glass, and cylinders therefor; parts thereof: | | | | |
| 8420.10 | | Calendering or other rolling machines: | | | | |
| 8420.10.10 | 00 | Textile calendering or rolling machines | No | 3.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8420.10.20 | 00 | Calendering or similar rolling machines for making paper pulp, paper or paperboard | No | Free 1/ | | 35% |
| 8420.10.90 | | Other | | Free 2/ | | 35% |
| | 40 | Calendering or other rolling machines for rubber and plastics | No. | | | |
| | 80 | Other | No. | | | |
| | | Parts: | | | | |
| 8420.91 | | Cylinders: | | | | |
| 8420.91.10 | 00 | For textile calendering or rolling machines | No | 2.6% 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8420.91.20 | 00 | For calendering or other rolling machines for machines for making paper pulp, paper or paperboard | No | Free 2/ | | 35% |
| 8420.91.90 | 00 | Other | No | Free 2/ | | 35% |
| 8420.99 | | Other: | | | | |
| 8420.99.10 | 00 | Of machines for processing textiles | X | 3.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8420.99.20 | 00 | Of machines for making paper pulp, paper or paperboard | X | Free 2/ | | 35% |
| 8420.99.90 | 00 | Other | X | Free 2/ | | 35% |

1/ See 9903.88.02.
2/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8421 | | Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases; parts thereof: | | | | |
| | | Centrifuges, including centrifugal dryers: | | | | |
| 8421.11.00 | 00 | Cream separators | No | Free | | 25% |
| 8421.12.00 | 00 | Clothes-dryers | No | Free | | 25% |
| 8421.19.00 | 00 | Other | No | 1.3% 1/ | Free (A, AU, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| | | Filtering or purifying machinery and apparatus for liquids: | | | | |
| 8421.21.00 | 00 | For filtering or purifying water | No | Free 1/ | | 35% |
| 8421.22.00 | 00 | For filtering or purifying beverages other than water | No | Free 1/ | | 35% |
| 8421.23.00 | 00 | Oil or fuel filters for internal combustion engines | X | 2.5% | Free (A*, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8421.29.00 | | Other | | Free 1/ | | 35% |
| | 05 | Refrigerant recovery and recycling units | No. | | | |
| | | Other: | | | | |
| | 15 | Oil-separation equipment | No. | | | |
| | | Other: | | | | |
| | 40 | Hydraulic fluid power filters, rated at 1,000 kPa or greater | No. | | | |
| | 65 | Other | No. | | | |
| | | Filtering or purifying machinery and apparatus for gases: | | | | |
| 8421.31.00 | 00 | Intake air filters for internal combustion engines | X | 2.5% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8421.39 | | Other: | | | | |
| 8421.39.40 | 00 | Catalytic converters | No | Free 1/ | | 35% |
| 8421.39.80 | | Other | | Free 1/ | | 35% |
| | | Dust collection and air purification equipment: | | | | |
| | 05 | For machine tools of headings 8456 through 8465, inclusive | X | | | |
| | 15 | Other | X | | | |
| | | Other: | | | | |
| | | Industrial gas cleaning equipment: | | | | |
| | 20 | Electrostatic precipitators | No. | | | |
| | 30 | Other | No. | | | |
| | 40 | Gas separation equipment | No. | | | |
| | | Other: | | | | |
| | 60 | Pneumatic fluid power filters, rated at 550 kPa or greater | No. | | | |
| | 90 | Other | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8421 (con.) | | Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases; parts thereof: (con.) | | | | |
| | | Parts: | | | | |
| 8421.91 | | Of centrifuges, including centrifugal dryers: | | | | |
| 8421.91.20 | 00 | Drying chambers for the clothes-dryers of subheading 8421.12 and other parts of clothes-dryers incorporating drying chambers | X | Free | | 25% |
| 8421.91.40 | 00 | Furniture designed to receive the clothes-dryers of subheading 8421.12 | X | Free | | 25% |
| 8421.91.60 | 00 | Other | X | Free 1/ | | 25% |
| 8421.99.00 | | Other | | Free 1/ | | 35% |
| | 40 | Parts of machinery and apparatus for filtering or purifying water | X | | | |
| | 80 | Other | X | | | |
| 8422 | | Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labeling 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; parts thereof: | | | | |
| | | Dishwashing machines: | | | | |
| 8422.11.00 | 00 | Of the household type | No | 2.4% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 0.7% (KR) | 35% |
| 8422.19.00 | 00 | Other | No | Free 1/ | | 35% |
| 8422.20.00 | 00 | Machinery for cleaning or drying bottles or other containers | No | Free 1/ | | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8422 (con.) | | Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labeling 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; parts thereof: (con.) | | | | |
| 8422.30 | | Machinery for filling, closing, sealing or labeling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; machinery for aerating beverages: | | | | |
| 8422.30.11 | 00 | Can-sealing machines | No | Free 1/ | | 30% |
| 8422.30.91 | | Other | | Free 1/ | | 35% |
| | 10 | Machines for aerating beverages | No. | | | |
| | 20 | Labeling machines | No. | | | |
| | | Other: | | | | |
| | | Machinery for filling, closing, sealing, capsuling or labeling bottles, cans or similar containers: | | | | |
| | | Machines for filling, whether or not capable of performing other operations: | | | | |
| | 30 | Vacuum or gas packaging | No. | | | |
| | 40 | Other | No. | | | |
| | | Machines which perform only the following operations: capping, lidding, sealing or closing: | | | | |
| | 50 | Vacuum or gas packaging | No. | | | |
| | 60 | Other | No. | | | |
| | 70 | Other | No. | | | |
| | | Machinery for filling, closing, sealing, capsuling or labeling boxes, bags or similar containers: | | | | |
| | 80 | Machines for opening, filling and closing bags | No. | | | |
| | 85 | Machines for forming, filling and sealing bags/pouches | No. | | | |
| | 86 | Machines for opening, filling and closing boxes | No. | | | |
| | 87 | Machines for skin and blister packaging | No. | | | |
| | 91 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8422 (con.) | | Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labeling 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; parts thereof: (con.) | | | | |
| 8422.40 | | Other packing or wrapping machinery (including heat-shrink wrapping machinery): | | | | |
| 8422.40.11 | | Machines for packaging pipe tobacco; machines for wrapping candy; machines for wrapping cigarette packages; and combination candy cutting and wrapping machines | | Free 1/ | | 35% |
| | 10 | Machines for wrapping candy | No. | | | |
| | 90 | Other | No. | | | |
| 8422.40.91 | | Other | | Free 1/ | | 35% |
| | 40 | Strapping machines | No. | | | |
| | 50 | Machines for case and tray forming, packing, unpacking, closing and sealing | No. | | | |
| | 60 | Machines for shrink film and heat sealing | No. | | | |
| | 70 | Machines for wrapping | No. | | | |
| | 81 | Other | No. | | | |
| 8422.90 | | Parts: | | | | |
| | | Of dishwashing machines: | | | | |
| 8422.90.02 | 00 | Water containment chambers for the dishwashing machines of subheading 8422.11 and other parts of dishwashing machines of the household type incorporating water containment chambers | X | Free | | 35% |
| 8422.90.04 | 00 | Door assemblies for the dishwashing machines of subheading 8422.11 | X | Free | | 35% |
| 8422.90.06 | | Other | | Free 1/ | | 35% |
| | 40 | Of the household type | X | | | |
| | 80 | Other | X | | | |
| 8422.90.11 | 00 | Of can-sealing machines | X | Free | | 30% |
| 8422.90.21 | 00 | Of machines for packaging pipe tobacco, wrapping candy or wrapping cigarette packages, and of combination candy cutting and wrapping machines | X | Free | | 35% |
| 8422.90.91 | | Other | | Free 1/ | | 35% |
| | 20 | Of machinery for cleaning or drying bottles or other containers | X | | | |
| | | Other: | | | | |
| | 30 | Of strapping machines | X | | | |
| | 60 | Of other wrapping and packaging machines | X | | | |
| | 95 | Other | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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; parts of weighing machinery: | | | | |
| 8423.10.00 | | Personal weighing machines, including baby scales; household scales | ..... | Free | | 45% |
| | 10 | Digital electronic type | No. | | | |
| | | Other: | | | | |
| | 30 | Of a kind suitable for carrying on the person | No. | | | |
| | 60 | Other | No. | | | |
| 8423.20 | | Scales for continuous weighing of goods on conveyors: | | | | |
| 8423.20.10 | 00 | Using electronic means for gauging weights | No | Free 1/ | | 45% |
| 8423.20.90 | 00 | Other | No | 2.9% 1/ | Free (A, AU, BH, CA, CL, CO, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8423.30.00 | 00 | Constant-weight scales and scales for discharging a predetermined weight of material into a bag or container, including hopper scales | No | Free 1/ | | 45% |
| | | Other weighing machinery: | | | | |
| 8423.81.00 | | Having a maximum weighing capacity not exceeding 30 kg | ..... | Free | | 45% |
| | | Digital electronic type: | | | | |
| | 10 | Counting scales | No. | | | |
| | 20 | Retail scales, non-computing | No. | | | |
| | 30 | Retail scales, computing | No. | | | |
| | 40 | Other | No. | | | |
| | 50 | Other | No. | | | |
| 8423.82.00 | | Having a maximum weighing capacity exceeding 30 kg but not exceeding 5,000 kg | ..... | Free 1/ | | 45% |
| | 10 | Digital electronic type | No. | | | |
| | 50 | Other | No. | | | |
| 8423.89 | | Other: | | | | |
| 8423.89.10 | 00 | Using electronic means for gauging | No | Free 1/ | | 45% |
| 8423.89.90 | 00 | Other | No | 2.9% 1/ | Free (A, AU, BH, CA, CL, CO, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8423.90 | | Weighing machine weights of all kinds; parts of weighing machinery: | | | | |
| 8423.90.10 | 00 | Parts of weighing machinery using electronic means for gauging weight, excluding parts of machines for weighing motor vehicles | X | Free 1/ | | 45% |
| 8423.90.90 | 00 | Other | X | 2.8% 1/ | Free (A, AU, BH, CA, CL, CO, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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 sand blasting machines and similar jet projecting machines; parts thereof: | | | | |
| 8424.10.00 | 00 | Fire extinguishers, whether or not charged | No | Free | | 35% |
| 8424.20 | | Spray guns and similar appliances: | | | | |
| 8424.20.10 | 00 | Simple piston pump sprays and powder bellows | X | 2.9% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8424.20.90 | 00 | Other | X | Free | | 35% |
| 8424.30 | | Steam or sand blasting machines and similar jet projecting machines: | | | | |
| 8424.30.10 | 00 | Sand blasting machines | No | Free | | Free |
| 8424.30.90 | 00 | Other | X | Free | | 35% |
| | | Agricultural or horticultural sprayers: | | | | |
| 8424.41 | | Portable sprayers: | | | | |
| 8424.41.10 | 00 | Sprayers (except sprayers, self-contained, having a capacity not over 20 liters) | No | Free | | Free |
| 8424.41.90 | 00 | Other | No | 2.4% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8424.49.00 | 00 | Other | No | 2.4% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Other appliances: | | | | |
| 8424.82.00 | | Agricultural or horticultural | | 2.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Irrigation equipment: | | | | |
| | 10 | Self-propelled, center pivot | No. | | | |
| | 20 | Other | No. | | | |
| | 90 | Other | No. | | | |
| 8424.89.10 | 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 | No | Free 2/ | | 35% |
| 8424.89.90 | 00 | Other | No | 1.8% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |

1/ See 9903.88.02.
2/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8424 (con.) | | 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 sand blasting machines and similar jet projecting machines; parts thereof: (con.) | | | | |
| 8424.90 | | Parts: | | | | |
| 8424.90.05 | 00 | Of fire extinguishers | X | Free | | 35% |
| 8424.90.10 | 00 | Of simple piston pump sprays and powder bellows | X | 2.9% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8424.90.20 | 00 | Of sand blasting machines | X | Free 1/ | | Free |
| 8424.90.90 | | Other | | Free | | 35% |
| | 40 | Of steam and similar jet projecting machines | X | | | |
| | 80 | Other | X | | | |
| 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 | No | Free 1/ | | 35% |
| 8425.19.00 | 00 | Other | No | Free | | 35% |
| | | Winches; capstans: | | | | |
| 8425.31.01 | 00 | Powered by electric motor | No | Free | | 35% |
| 8425.39.01 | 00 | Other | No | Free 1/ | | 35% |
| | | Jacks; hoists of a kind used for raising vehicles: | | | | |
| 8425.41.00 | 00 | Built-in jacking systems of a type used in garages | No | Free | | 35% |
| 8425.42.00 | 00 | Other jacks and hoists, hydraulic | No | Free | | 35% |
| 8425.49.00 | 00 | Other | No | Free | | 35% |
| 8426 | | Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane: | | | | |
| | | Overhead traveling cranes, transporter cranes, gantry cranes, bridge cranes, mobile lifting frames and straddle carriers: | | | | |
| 8426.11.00 | 00 | Overhead traveling cranes on fixed support | No | Free | | 35% |
| 8426.12.00 | 00 | Mobile lifting frames on tires and straddle carriers | No | Free | | 35% |
| 8426.19.00 | 00 | Other | No | Free | | 35% |
| 8426.20.00 | 00 | Tower cranes | No | Free | | 35% |
| 8426.30.00 | 00 | Portal or pedestal jib cranes | No | Free | | 35% |
| | | Other machinery, self-propelled: | | | | |
| 8426.41.00 | | On tires | | Free 1/ | | 35% |
| | 05 | Works trucks fitted with a crane | No. | | | |
| | | Other: | | | | |
| | 10 | Cable operated | No. | | | |
| | 90 | Other | No. | | | |
| 8426.49.00 | | Other | | Free 1/ | | 35% |
| | 10 | Cable operated | No. | | | |
| | 90 | Other | No. | | | |
| | | Other machinery: | | | | |
| 8426.91.00 | 00 | Designed for mounting on road vehicles | No | Free | | 35% |
| 8426.99.00 | 00 | Other | No | Free 1/ | | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8427 | | Fork-lift trucks; other works trucks fitted with lifting or handling equipment: | | | | |
| 8427.10 | | Self-propelled trucks powered by an electric motor: | | | | |
| 8427.10.40 | 00 | Rider-type, counterbalanced fork-lift trucks | No | Free 1/ | | 35% |
| 8427.10.80 | | Other | | Free 1/ | | 35% |
| | 10 | Operator riding | No. | | | |
| | 60 | Automated guided vehicle (AGV) | No. | | | |
| | 90 | Other | No. | | | |
| 8427.20 | | Other self-propelled trucks: | | | | |
| 8427.20.40 | 00 | Rider-type, counterbalanced fork-lift trucks | No | Free 1/ | | 35% |
| 8427.20.80 | 00 | Other | No | Free 1/ | | 35% |
| 8427.90.00 | 00 | Other trucks | No | Free | | 35% |
| 8428 | | Other lifting, handling, loading or unloading machinery (for example, elevators, escalators, conveyors, teleferics): | | | | |
| 8428.10.00 | 00 | Passenger or freight elevators other than continuous action; skip hoists | No | Free | | 35% |
| 8428.20.00 | | Pneumatic elevators and conveyors | | Free 1/ | | 35% |
| | 10 | Conveyors | No. | | | |
| | 50 | Elevators | No. | | | |
| | | Other continuous-action elevators and conveyors, for goods or materials: | | | | |
| 8428.31.00 | 00 | Specially designed for underground use | No | Free 1/ | | 35% |
| 8428.32.00 | 00 | Other, bucket type | No | Free 1/ | | 35% |
| 8428.33.00 | 00 | Other, belt type | No | Free 1/ | | 35% |
| 8428.39.00 | 00 | Other | No | Free 1/ | | 35% |
| 8428.40.00 | 00 | Escalators and moving walkways | No | Free | | 35% |
| 8428.60.00 | 00 | Teleferics, chair lifts, ski draglines; traction mechanisms for funiculars | No | Free | | 35% |
| 8428.90.02 | | Other machinery | | Free 1/ | | 35% |
| | 10 | Woodland log handling equipment (other than skidders) | No. | | | |
| | 20 | Industrial robots | No. | | | |
| | 90 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8429 | | Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers: | | | | |
| | | Bulldozers and angledozers: | | | | |
| 8429.11.00 | | Track laying | | Free 1/ | | 35% |
| | 10 | New | No. | | | |
| | 90 | Used or rebuilt | No. | | | |
| 8429.19.00 | | Other | | Free 1/ | | 35% |
| | 10 | New | No. | | | |
| | 90 | Used or rebuilt | No. | | | |
| 8429.20.00 | 00 | Graders and levelers | No. | Free 1/ | | 35% |
| 8429.30.00 | | Scrapers | | Free 1/ | | 35% |
| | | New: | | | | |
| | 20 | Not exceeding 13.7 $m^3$ | No. | | | |
| | 40 | Exceeding 13.7 $m^3$ | No. | | | |
| | 60 | Used or rebuilt | No. | | | |
| 8429.40.00 | | Tamping machines and road rollers | | Free 1/ | | 35% |
| | | New: | | | | |
| | 20 | Vibratory | No. | | | |
| | 40 | Other | No. | | | |
| | 60 | Used or rebuilt | No. | | | |
| | | Mechanical shovels, excavators and shovel loaders: | | | | |
| 8429.51 | | Front-end shovel loaders: | | | | |
| 8429.51.10 | | Wheel-type | | Free 1/ | | 35% |
| | | New: | | | | |
| | | Integral tractor shovel loaders, rear engine mounted: | | | | |
| | 05 | 2 wheel drive | No. | | | |
| | | 4 wheel drive with a bucket capacity of: | | | | |
| | 15 | Under 1.5 $m^3$ | No. | | | |
| | 25 | At least 1.5 $m^3$ but under 2.2 $m^3$ | No. | | | |
| | 30 | At least 2.2 $m^3$ but under 2.9 $m^3$ | No. | | | |
| | 35 | At least 2.9 $m^3$ but under 3.8 $m^3$ | No. | | | |
| | 40 | At least 3.8 $m^3$ but under 5.2 $m^3$ | No. | | | |
| | 45 | At least 5.2 $m^3$ but under 7.6 $m^3$ | No. | | | |
| | 50 | At least 7.6 $m^3$ but under 11.4 $m^3$ | No. | | | |
| | 55 | 11.4 $m^3$ and over | No. | | | |
| | 60 | Other | No. | | | |
| | 65 | Used or rebuilt | No. | | | |
| 8429.51.50 | | Other | | Free 1/ | | 35% |
| | | New: | | | | |
| | 10 | Less than 44.7 kW | No. | | | |
| | 20 | At least 44.7 kW but under 67.1 kW | No. | | | |
| | 30 | At least 67.1 kW but under 93.2 kW | No. | | | |
| | 40 | At least 93.2 kW but under 119.3 kW | No. | | | |
| | 50 | 119.3 kW and over | No. | | | |
| | 60 | Used or rebuilt | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8429 (con.) | | Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers: (con.) | | | | |
| | | Mechanical shovels, excavators and shovel loaders: (con.) | | | | |
| 8429.52 | | Machinery with a 360˚ revolving superstructure: | | | | |
| 8429.52.10 | | Backhoes, shovels, clamshells and draglines..... | ..... | Free 1/ | | 35% |
| | | New: | | | | |
| | | Crawler mounted: | | | | |
| | 10 | Hydraulic..... | No. | | | |
| | 20 | Other..... | No. | | | |
| | | Other: | | | | |
| | 30 | Hydraulic..... | No. | | | |
| | 40 | Other..... | No. | | | |
| | 50 | Used or rebuilt..... | No. | | | |
| 8429.52.50 | | Other..... | ..... | Free 1/ | | 35% |
| | 10 | New..... | No. | | | |
| | 90 | Used or rebuilt..... | No. | | | |
| 8429.59 | | Other: | | | | |
| 8429.59.10 | | Backhoes, shovels, clamshells and draglines..... | ..... | Free 1/ | | 35% |
| | | New: | | | | |
| | 30 | Backhoes..... | No. | | | |
| | 60 | Other..... | No. | | | |
| | 90 | Used or rebuilt..... | No. | | | |
| 8429.59.50 | | Other..... | ..... | Free 1/ | | 35% |
| | | New: | | | | |
| | | Ditchers and trenchers: | | | | |
| | 20 | Ladder type..... | No. | | | |
| | 40 | Other..... | No. | | | |
| | 60 | Other..... | No. | | | |
| | 80 | Used or rebuilt..... | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8430 | | Other moving, grading, leveling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or ores; pile-drivers and pile-extractors; snowplows and snowblowers: | | | | |
| 8430.10.00 | 00 | Pile-drivers and pile-extractors | No | Free 1/ | | 35% |
| 8430.20.00 | | Snowplows and snowblowers | | Free | | 35% |
| | | Snowblowers: | | | | |
| | 30 | Attachment type | No. | | | |
| | 60 | Other | No. | | | |
| | 90 | Other | No. | | | |
| | | Coal or rock cutters and tunneling machinery: | | | | |
| 8430.31.00 | | Self-propelled | | Free 1/ | | 35% |
| | 40 | Rock breaking machines | No. | | | |
| | 80 | Other | No. | | | |
| 8430.39.00 | | Other | | Free 1/ | | 35% |
| | 40 | Rock breaking machines | No. | | | |
| | 80 | Other | No. | | | |
| | | Other boring or sinking machinery: | | | | |
| 8430.41.00 | 00 | Self-propelled | No | Free 1/ | | 35% |
| 8430.49 | | Other: | | | | |
| 8430.49.40 | 00 | Offshore oil and natural gas drilling and production platforms | kg | Free | | 45% |
| 8430.49.80 | | Other | | Free 1/ | | 35% |
| | | For oil well and gas field drilling: | | | | |
| | 10 | Rotary | No. | | | |
| | 20 | Other | No. | | | |
| | | For water well drilling: | | | | |
| | 30 | Rotary | No. | | | |
| | 40 | Other | No. | | | |
| | 50 | Other | No. | | | |
| 8430.50 | | Other machinery, self-propelled: | | | | |
| 8430.50.10 | 00 | Peat excavators | No | Free | | 35% |
| 8430.50.50 | 00 | Other | No | Free 1/ | | 35% |
| | | Other machinery, not self-propelled: | | | | |
| 8430.61.00 | 00 | Tamping or compacting machinery | No | Free 1/ | | 35% |
| 8430.69.01 | 00 | Other | No | Free 1/ | | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8431 | | Parts suitable for use solely or principally with the machinery of headings 8425 to 8430: | | | | |
| 8431.10.00 | | Of machinery of heading 8425 | | Free 1/ | | 35% |
| | 10 | Of machinery of subheading 8425.11 or 8425.19 | X | | | |
| | 90 | Other | X | | | |
| 8431.20.00 | 00 | Of machinery of heading 8427 | X | Free 1/ | | 35% |
| | | Of machinery of heading 8428: | | | | |
| 8431.31.00 | | Of passenger or freight elevators other than continuous action, skip hoists or escalators | | Free 1/ | | 35% |
| | 20 | Of skip hoists | X | | | |
| | 40 | Of escalators | X | | | |
| | 60 | Other | X | | | |
| 8431.39.00 | | Other | | Free 1/ | | 35% |
| | 10 | Of elevators and conveyors | X | | | |
| | | Other: | | | | |
| | 50 | Of oil and gas field machinery | X | | | |
| | 70 | Of the woodland log handling equipment of statistical reporting number 8428.90.0210 | X | | | |
| | 80 | Other | X | | | |
| | | Of machinery of heading 8426, 8429 or 8430: | | | | |
| 8431.41.00 | | Buckets, shovels, grabs and grips | | Free 1/ | | 35% |
| | 20 | Shovel attachments | No. | | | |
| | 40 | Clamshell (grappler) attachments | No. | | | |
| | 60 | Dragline buckets | No. | | | |
| | 80 | Other | No. | | | |
| 8431.42.00 | 00 | Bulldozer or angledozer blades | No. | Free 1/ | | 35% |
| 8431.43 | | Parts for boring or sinking machinery of subheading 8430.41 or 8430.49: | | | | |
| 8431.43.40 | 00 | Of offshore oil and natural gas drilling and production platforms | X | Free 1/ | | 45% |
| 8431.43.80 | | Other | | Free 1/ | | 35% |
| | | Of oil and gas field machinery: | | | | |
| | 20 | Tool joints, whether or not forged | No. | | | |
| | 40 | Drill pipe fitted with tool joints | No. | | | |
| | 60 | Other | X | | | |
| | 90 | Of other boring or sinking machinery | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8431 (con.) | | Parts suitable for use solely or principally with the machinery of headings 8425 to 8430: (con.) | | | | |
| | | Of machinery of heading 8426, 8429 or 8430: (con.) | | | | |
| 8431.49 | | Other: | | | | |
| 8431.49.10 | | Of machinery of heading 8426 | ..... | Free 1/ | | 35% |
| | 10 | Of machinery of subheadings 8426.11, 8426.19 and 8426.30 | X | | | |
| | 60 | Of mobile lifting frames, straddle carriers and works trucks fitted with a crane | X | | | |
| | 90 | Other | X | | | |
| 8431.49.90 | | Other | ..... | Free 1/ | | 35% |
| | | Attachments for mounting on machinery: | | | | |
| | 05 | Backhoe attachments | No. | | | |
| | 10 | Front-end loader attachments | No. | | | |
| | 15 | Rippers and rooters | No. | | | |
| | 20 | Other | No. | | | |
| | | Other: | | | | |
| | | Parts of coal or rock cutters and tunneling machinery: | | | | |
| | 25 | Cast axle housings | No. | | | |
| | 30 | Other | X | | | |
| | | Parts of backhoes, shovels, clamshells and draglines: | | | | |
| | 35 | Cast axle housings | No. | | | |
| | | Other: | | | | |
| | 36 | Road wheels | X | | | |
| | 38 | Wheel and tire assemblies | X | | | |
| | 44 | Other | X | | | |
| | | Other: | | | | |
| | 45 | Scraper bowls for scrapers of subheadings 8429.30 and 8430.69.01 | No. | | | |
| | 50 | Track links | X | | | |
| | 55 | Cast axle housings | No. | | | |
| | | Other: | | | | |
| | 81 | Steel forgings | kg | | | |
| | | Other: | | | | |
| | 84 | Road wheels | X | | | |
| | 90 | Wheel and tire assemblies | X | | | |
| | 95 | Other | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8432 | | Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports ground rollers; parts thereof: | | | | |
| 8432.10.00 | | Plows | | Free 1/ | | Free |
| | 20 | Moldboard plows except listers | No. | | | |
| | 40 | Disc plows | No. | | | |
| | 60 | Other | No. | | | |
| | | Harrows, scarifiers, cultivators, weeders and hoes: | | | | |
| 8432.21.00 | 00 | Disc harrows | No. | Free 1/ | | Free |
| 8432.29.00 | | Other | | Free 2/ | | Free |
| | | Cultivators, weeders and hoes: | | | | |
| | 40 | Cultivators, tractor drawn or for tractor mounting | No. | | | |
| | 60 | Walk behind rotary tillers | No. | | | |
| | 80 | Other | No. | | | |
| | 90 | Other | No. | | | |
| | | Seeders, planters and transplanters | | | | |
| 8432.31.00 | | No-till direct seeders, planters and transplanters | | Free 2/ | | Free |
| | 10 | Planters and transplanters | No. | | | |
| | 90 | Seeders | No. | | | |
| 8432.39.00 | | Other | | Free 2/ | | Free |
| | 10 | Planters and transplanters | No. | | | |
| | 90 | Seeders | No. | | | |
| | | Manure spreaders and fertilizer distributors: | | | | |
| 8432.41.00 | 00 | Manure spreaders | No. | Free | | Free |
| 8432.42.00 | 00 | Fertilizer distributors | No. | Free 2/ | | Free |
| 8432.80.00 | | Other machinery | | Free 1/ | | Free |
| | 10 | Tow behind spreaders, aerators, and de- thatchers | No. | | | |
| | 80 | Other | No. | | | |
| 8432.90.00 | | Parts | | Free 1/ | | Free |
| | 10 | Road wheels without tires | No. | | | |
| | 20 | Wheel and tire assemblies | No. | | | |
| | | Other: | | | | |
| | 40 | Of plows | X | | | |
| | 50 | Of harrows, scarifiers, cultivators, weeders and hoes | X | | | |
| | 60 | Of seeders, planters, transplanters, manure spreaders and fertilizer distributors | X | | | |
| | 81 | Of other machinery | X | | | |

1/ See 9903.88.01.
2/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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; parts thereof: | | | | |
| | | Mowers for lawns, parks or sports grounds: | | | | |
| 8433.11.00 | | Powered, with the cutting device rotating in a horizontal plane | | Free | | 30% |
| | 10 | Electric mowers, including battery operated | No. | | | |
| | | Riding mowers, other than electric: | | | | |
| | 20 | Under 5.2 kW | No. | | | |
| | 30 | 5.2 kW and over but under 7.46 kW | No. | | | |
| | 40 | 7.46 kW and over | No. | | | |
| | | Other: | | | | |
| | 50 | Under 3.7 kW | No. | | | |
| | 60 | 3.7 kW and over | No. | | | |
| 8433.19.00 | | Other | | Free | | 30% |
| | 10 | Greens mowers | No. | | | |
| | 20 | Gang cutting units | No. | | | |
| | 30 | Other riding mowers | No. | | | |
| | | Other: | | | | |
| | 40 | Gasoline powered | No. | | | |
| | 50 | Other | No. | | | |
| 8433.20.00 | | Other mowers, including cutter bars for tractor mounting | | Free 1/ | | Free |
| | | Tractor drawn or for tractor mounting: | | | | |
| | 20 | Rotary cutter type | No. | | | |
| | 40 | Other | No. | | | |
| | 60 | Other | No. | | | |
| 8433.30.00 | 00 | Other haymaking machinery | No. | Free 1/ | | Free |
| 8433.40.00 | 00 | Straw or fodder balers, including pick-up balers | No. | Free 1/ | | Free |
| | | Other harvesting machinery; threshing machinery: | | | | |
| 8433.51.00 | | Combine harvester-threshers | | Free 1/ | | Free |
| | 10 | Self-propelled | No. | | | |
| | 90 | Other | No. | | | |
| 8433.52.00 | 00 | Other threshing machinery | No. | Free 1/ | | Free |
| 8433.53.00 | 00 | Root or tuber harvesting machines | No. | Free 1/ | | Free |
| 8433.59.00 | | Other | | Free 1/ | | Free |
| | 10 | Field forage harvesters | No. | | | |
| | 90 | Other | No. | | | |
| 8433.60.00 | | Machines for cleaning, sorting or grading eggs, fruit or other agricultural produce | | Free 1/ | | Free |
| | 10 | Machines for cleaning, sorting or grading eggs | No. | | | |
| | 90 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8433 (con.) | | 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; parts thereof: (con.) | | | | |
| 8433.90 | | Parts: | | | | |
| 8433.90.10 | | Of mowers for lawns, parks or sports grounds: | | Free | | 30% |
| | 10 | Wheel and tire assemblies | X | | | |
| | 90 | Other | X | | | |
| 8433.90.50 | | Other | | Free 1/ | | Free |
| | | Of other mowers, harvesting machines and threshing machines: | | | | |
| | 10 | Road wheels | X | | | |
| | 25 | Of haying machines and balers | X | | | |
| | 45 | Other | X | | | |
| | 60 | Of machines for cleaning, sorting or grading eggs | X | | | |
| | 80 | Of machines for cleaning, sorting or grading fruit or other agricultural produce | X | | | |
| 8434 | | Milking machines and dairy machinery, and parts thereof: | | | | |
| 8434.10.00 | 00 | Milking machines | No | Free | | Free |
| 8434.20.00 | 00 | Dairy machinery | No | Free 1/ | | Free |
| 8434.90.00 | 00 | Parts | X | Free 1/ | | Free |
| 8435 | | Presses, crushers and similar machinery, used in the manufacture of wine, cider, fruit juices or similar beverages; parts thereof: | | | | |
| 8435.10.00 | 00 | Machinery | No | Free | | 40% |
| 8435.90.00 | 00 | Parts | X | Free | | 40% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8436 | | Other agricultural, horticultural, forestry, poultry-keeping or bee-keeping machinery, including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders; parts thereof: | | | | |
| 8436.10.00 | 00 | Machinery for preparing animal feeds | No | Free 1/ | | Free |
| | | Poultry-keeping machinery; poultry incubators and brooders: | | | | |
| 8436.21.00 | 00 | Poultry incubators and brooders | No | Free 1/ | | Free |
| 8436.29.00 | 00 | Other | No | Free 1/ | | Free |
| 8436.80.00 | | Other machinery | | Free 1/ | | Free |
| | 20 | Forestry machinery | No. | | | |
| | | Other: | | | | |
| | 40 | Barn and barnyard machines | No. | | | |
| | 60 | Machines for preparing crops for market or for use | No. | | | |
| | | Other: | | | | |
| | 70 | Bee-keeping machinery | No. | | | |
| | 90 | Other | No. | | | |
| | | Parts: | | | | |
| 8436.91.00 | | Of poultry-keeping machinery or poultry incubators and brooders | | Free 1/ | | Free |
| | 40 | Of poultry incubators and brooders | X | | | |
| | 80 | Other | X | | | |
| 8436.99.00 | | Other | | Free 1/ | | Free |
| | 20 | Of forestry machinery | X | | | |
| | 30 | Of bee-keeping machinery | X | | | |
| | 35 | Of machinery for preparing animal feeds | X | | | |
| | | Other: | | | | |
| | 40 | Of barn or barnyard machines | X | | | |
| | 70 | Of machines for preparing crops for market or for use | X | | | |
| | 90 | Other | X | | | |
| 8437 | | Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables, and parts thereof; machinery used in the milling industry or for the working of cereals or dried leguminous vegetables, other than farm type machinery; parts thereof: | | | | |
| 8437.10.00 | 00 | Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables | No | Free 1/ | | 35% |
| 8437.80.00 | | Other machinery | | Free 1/ | | 35% |
| | 10 | Flour mill and grain mill machines | No. | | | |
| | 90 | Other | No. | | | |
| 8437.90.00 | | Parts | | Free 1/ | | 35% |
| | 10 | Of flour mill or grain mill machines | X | | | |
| | 90 | Other | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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; parts thereof: | | | | |
| 8438.10.00 | | Bakery machinery and machinery for the manufacture of macaroni, spaghetti or similar products | | Free | | 35% |
| | 10 | Bakery machinery | No. | | | |
| | 90 | Other | No. | | | |
| 8438.20.00 | 00 | Machinery for the manufacture of confectionery, cocoa or chocolate | No. | Free | | 35% |
| 8438.30.00 | 00 | Machinery for sugar manufacture | No. | Free | | Free |
| 8438.40.00 | 00 | Brewery machinery | No. | 2.3% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8438.50.00 | | Machinery for the preparation of meat or poultry | | 2.8% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | Meat- and poultry-packing plant machinery | No. | | | |
| | 90 | Other | No. | | | |
| 8438.60.00 | 00 | Machinery for the preparation of fruits, nuts or vegetables | No. | Free 1/ | | 35% |
| 8438.80.00 | 00 | Other machinery | No. | Free 1/ | | 40% |
| 8438.90 | | Parts: | | | | |
| 8438.90.10 | 00 | Of machinery for sugar manufacture | X | Free | | Free |
| 8438.90.90 | | Other | | 2.8% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 15 | Of bakery machinery and machinery for the manufacture of macaroni, spaghetti or similar products | X | | | |
| | 30 | Of machinery for the manufacture of confectionery, cocoa or chocolate | X | | | |
| | 60 | Of machinery for the preparation of meat or poultry | X | | | |
| | 90 | Other | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8439 | | Machinery for making pulp of fibrous cellulosic material or for making or finishing paper or paperboard (other than the machinery of heading 8419); parts thereof: | | | | |
| 8439.10.00 | | Machinery for making pulp of fibrous cellulosic material | | Free 1/ | | 35% |
| | 10 | New | No. | | | |
| | 90 | Used or rebuilt | No. | | | |
| 8439.20.00 | | Machinery for making paper or paperboard | | Free 1/ | | 35% |
| | 10 | New | No. | | | |
| | 90 | Used or rebuilt | No. | | | |
| 8439.30.00 | 00 | Machinery for finishing paper or paperboard | No | Free 1/ | | 35% |
| | | Parts: | | | | |
| 8439.91 | | Of machinery for making pulp of fibrous cellulosic materials: | | | | |
| 8439.91.10 | 00 | Bed plates, roll bars and other stock-treating parts | X | Free 1/ | | 20% |
| 8439.91.90 | 00 | Other | X | Free 1/ | | 35% |
| 8439.99 | | Other: | | | | |
| 8439.99.10 | 00 | Of machinery for making paper or paperboard | X | Free 1/ | | 35% |
| 8439.99.50 | 00 | Of machinery for finishing paper or paperboard | X | Free 1/ | | 35% |
| 8440 | | Bookbinding machinery, including book-sewing machines, and parts thereof: | | | | |
| 8440.10.00 | 00 | Machinery | No | Free | | 25% |
| 8440.90.00 | 00 | Parts | X | Free | | 25% |
| 8441 | | Other machinery for making up paper pulp, paper or paperboard, including cutting machines of all kinds, and parts thereof: | | | | |
| 8441.10.00 | 00 | Cutting machines | No | Free | | 35% |
| 8441.20.00 | 00 | Machines for making bags, sacks or envelopes | No | Free 1/ | | 35% |
| 8441.30.00 | 00 | Machines for making cartons, boxes, cases, tubes, drums or similar containers, other than by molding | No | Free 1/ | | 35% |
| 8441.40.00 | 00 | Machines for molding articles in paper pulp, paper or paperboard | No | Free 1/ | | 35% |
| 8441.80.00 | 00 | Other machinery | No | Free 1/ | | 35% |
| 8441.90.00 | 00 | Parts | X | Free 1/ | | 35% |
| 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); parts thereof: | | | | |
| 8442.30.01 | | Machinery, apparatus and equipment | | Free 1/ | | Free |
| | 10 | Phototypesetting and composing machines | No. | | | |
| | 50 | Other machinery, apparatus and equipment | No. | | | |
| 8442.40.00 | 00 | Parts of the foregoing machinery, apparatus or equipment | X | Free 1/ | | Free |
| 8442.50 | | Plates, cylinders and other printing components; plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished): | | | | |
| 8442.50.10 | 00 | Plates | No | Free | | 25% |
| 8442.50.90 | 00 | Other | No | Free | | 60% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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 | | Offset printing machinery, reel-fed: | | | | |
| 8443.11.10 | 00 | Double-width newspaper printing presses | No | 3.3% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8443.11.50 | 00 | Other | No | Free 1/ | | 25% |
| 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) | No | Free 1/ | | 25% |
| 8443.13.00 | 00 | Other offset printing machinery: | No | Free 1/ | | 25% |
| 8443.14.00 | 00 | Letterpress printing machinery, reel fed, excluding flexographic printing | No | 2.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8443.15.00 | 00 | Letterpress printing machinery, other than reel fed, excluding flexographic printing | No | Free | | 25% |
| 8443.16.00 | 00 | Flexographic printing machinery | No | 2.2% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8443.17.00 | 00 | Gravure printing machinery | No | 2.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8443.19 | | Other: | | | | |
| 8443.19.20 | 00 | Textile printing machinery | X | 2.6% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8443.19.30 | 00 | Other | X | Free 1/ | | 25% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8443 (con.) | | 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: (con.) | | | | |
| | | 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 | No | Free | | 35% |
| 8443.32 | | Other, capable of connecting to an automatic data processing machine or to a network: | | | | |
| 8443.32.10 | | Printer units: | | Free | | 35% |
| | | Laser: | | | | |
| | 10 | Capable of producing more than 20 pages per minute | No. | | | |
| | 20 | Other | No. | | | |
| | 30 | Light bar electronic type | No. | | | |
| | 40 | Ink jet | No. | | | |
| | 50 | Thermal transfer | No. | | | |
| | 60 | Ionographic | No. | | | |
| | 70 | Daisy wheel | No. | | | |
| | 80 | Dot matrix | No. | | | |
| | 90 | Other | No. | | | |
| 8443.32.50 | 00 | Other | X | Free | | 35% |
| 8443.39 | | Other: | | | | |
| | | Copying machines: | | | | |
| | | Electrostatic photocopying apparatus: | | | | |
| 8443.39.10 | 00 | Operating by reproducing the original image directly onto the copy (direct process) | No | Free | | 35% |
| 8443.39.20 | 00 | Operating by reproducing the original image via an intermediate onto the copy (indirect process) | No | Free | | 35% |
| | | Other photocopying apparatus: | | | | |
| 8443.39.30 | 00 | Incorporating an optical system | No | Free | | 35% |
| 8443.39.40 | 00 | Of the contact type | No | Free | | 35% |
| 8443.39.50 | 00 | Thermocopying apparatus | No | Free | | 35% |
| 8443.39.60 | 00 | Other | No | Free | | 35% |
| 8443.39.90 | 00 | Other | No | Free | | 35% |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8443 (con.) | | 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: (con.) | | | | |
| | | 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 | Machines for uses ancillary to printing | X | Free 1/ | | 25% |
| 8443.91.20 | 00 | Parts for textile printing machinery | X | Free | | 40% |
| 8443.91.30 | 00 | Other | X | Free | | 25% |
| 8443.99 | | Other: | | | | |
| 8443.99.10 | 00 | Accessory and auxiliary machines which are intended for attachment to an electrostatic photocopier and which do not operate independently of such photocopier | No | Free | | 35% |
| | | Parts and accessories of printers: | | | | |
| 8443.99.20 | | Parts of printer units of subheading 8443.32.10 specified in additional U.S. note 2 to this chapter: | | Free 1/ | | 35% |
| | 10 | Ink cartridges | No. | | | |
| | 50 | Other | X | | | |
| 8443.99.25 | | Other: | | Free | | 35% |
| | 10 | Ink cartridges | No. | | | |
| | 50 | Other | X | | | |
| | | Parts and accessories of facsimile machines: | | | | |
| 8443.99.30 | 00 | Parts of facsimile machines specified in additional U.S. note 3 to this chapter | X | Free | | 35% |
| 8443.99.35 | 00 | Other | X | Free | | 35% |
| | | Parts and accessories of copying machines: | | | | |
| 8443.99.40 | 00 | Parts of photocopying apparatus of subheading 8443.39.20 specified in additional U.S. note 4 to this chapter | X | Free 2/ | | 35% |
| 8443.99.45 | 00 | Other | X | Free 1/ | | 35% |
| 8443.99.50 | | Other: | | Free | | 35% |
| | | For the goods of subheading 8443.31: | | | | |
| | 11 | Ink cartridges | No. | | | |
| | 15 | Other | X | | | |
| | 50 | Other | X | | | |
| 8444.00.00 | | Machines for extruding, drawing, texturing or cutting man-made textile materials | | Free 1/ | | 40% |
| | 10 | Texturing machines | No. | | | |
| | 90 | Other | No. | | | |

1/ See 9903.88.01.
2/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8445 | | Machines for preparing textile fibers; 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 fibers: | | | | |
| 8445.11.00 | 00 | Carding machines | No. | Free | | 40% |
| 8445.12.00 | 00 | Combing machines | No. | Free | | 40% |
| 8445.13.00 | 00 | Drawing or roving machines | No. | Free | | 40% |
| 8445.19.00 | | Other | | 3.3% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| | 40 | Cotton gins | No. | | | |
| | 80 | Other | No. | | | |
| 8445.20.00 | 00 | Textile spinning machines | No. | Free | | 40% |
| 8445.30.00 | | Textile doubling or twisting machines | | Free | | 40% |
| | 10 | Textile twisting machines | No. | | | |
| | 90 | Other | No. | | | |
| 8445.40.00 | 00 | Textile winding (including weft winding) or reeling machines | No. | 3.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8445.90.00 | 00 | Other | No. | 3.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8446 | | Weaving machines (looms): | | | | |
| 8446.10.00 | | For weaving fabrics of a width not exceeding 30 cm | | Free | | 40% |
| | 10 | Power looms | No. | | | |
| | 90 | Other | No. | | | |
| | | For weaving fabrics of a width exceeding 30 cm, shuttle type: | | | | |
| 8446.21 | | Power looms: | | | | |
| 8446.21.10 | 00 | For weaving fabrics of a width exceeding 4.9 m | No | Free | | 40% |
| 8446.21.50 | 00 | Other | No | 3.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8446.29.00 | 00 | Other | No | Free | | 40% |
| 8446.30 | | For weaving fabrics of a width exceeding 30 cm, shuttleless type: | | | | |
| 8446.30.10 | | Power looms for weaving fabrics of a width exceeding 4.9 m | | Free | | 40% |
| | 10 | Rapier type | No. | | | |
| | 20 | Jet type | No. | | | |
| | 30 | Other | No. | | | |
| 8446.30.50 | | Other | | 3.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| | 10 | Rapier type | No. | | | |
| | 20 | Jet type | No. | | | |
| | 30 | Other | No. | | | |

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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 | | With cylinder diameter not exceeding 165 mm: | | | | |
| 8447.11.10 | 00 | For knitting hosiery | No. | Free | | 40% |
| 8447.11.90 | | Other | | Free | | 40% |
| | 10 | Open-top cylinder machines | No. | | | |
| | 20 | Cylinder and dial machines | No. | | | |
| | 90 | Other | No. | | | |
| 8447.12 | | With cylinder diameter exceeding 165 mm: | | | | |
| 8447.12.10 | 00 | For knitting hosiery | No. | Free | | 40% |
| 8447.12.90 | | Other | | Free | | 40% |
| | 10 | Open-top cylinder machines | No. | | | |
| | 20 | Cylinder and dial machines | No. | | | |
| | 90 | Other | No. | | | |
| 8447.20 | | Flat knitting machines; stitch-bonding machines: | | | | |
| | | V-bed flat knitting machines: | | | | |
| 8447.20.20 | 00 | Power driven flat knitting machines over 50.8 cm in width | No. | Free | | 40% |
| 8447.20.30 | 00 | Other | No. | 2.6% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8447.20.40 | 00 | Warp knitting machines | No. | Free | | 40% |
| 8447.20.60 | 00 | Other | No. | Free | | 40% |
| 8447.90 | | Other: | | | | |
| 8447.90.10 | 00 | Braiding and lace-braiding machines | No. | Free | | 40% |
| 8447.90.50 | 00 | Embroidery machines | No. | Free | | 30% |
| 8447.90.90 | 00 | Other | No. | Free | | 40% |

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8448 | | Auxiliary machinery for use with machines of heading 8444, 8445, 8446 or 8447 (for example, dobbies, Jacquards, automatic stop motions and 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... | X | Free | | 40% |
| 8448.19.00 | 00 | Other | X | Free | | 40% |
| 8448.20 | | Parts and accessories of machines of heading 8444 or of their auxiliary machinery: | | | | |
| 8448.20.10 | 00 | Of machines for extruding or drawing man-made textile filaments | X | 3.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8448.20.50 | | Other | | 3.3% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| | 10 | Of texturing machines | X | | | |
| | 90 | Other | X | | | |
| | | Parts and accessories of machines of heading 8445 or of their auxiliary machinery: | | | | |
| 8448.31.00 | 00 | Card clothing | $m^2$ | 3.3% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8448.32.00 | | Of machines for preparing textile fibers, other than card clothing | | Free | | 40% |
| | 10 | Of cotton gins | X | | | |
| | 90 | Other | X | | | |
| 8448.33.00 | 00 | Spindles, spindle flyers, spinning rings and ring travellers | X | 3.3% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8448.39 | | Other: | | | | |
| 8448.39.10 | 00 | Parts of spinning, doubling or twisting machines... | X | Free | | 40% |
| 8448.39.50 | 00 | Parts of winding or reeling machines | X | 3.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8448.39.90 | 00 | Other | X | Free | | 40% |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8448 (con.) | | Auxiliary machinery for use with machines of heading 8444, 8445, 8446 or 8447 (for example, dobbies, Jacquards, automatic stop motions and 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): (con.) | | | | |
| | | Parts and accessories of weaving machines (looms) or of their auxiliary machinery: | | | | |
| 8448.42.00 | 00 | Reeds for looms, healds and heald-frames | X | 3.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8448.49 | | Other: | | | | |
| 8448.49.10 | 00 | Shuttles | X | 3.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8448.49.20 | 00 | Other | X | Free | | 40% |
| | | Parts and accessories of machines of heading 8447 or of their auxiliary machinery: | | | | |
| 8448.51 | | Sinkers, needles and other articles used in forming stitches: | | | | |
| | | Needles for knitting machines: | | | | |
| 8448.51.10 | 00 | Latch needles | thousand | Free | | $2/1,000 + 60% |
| 8448.51.20 | 00 | Spring-beard needles | thousand | Free | | $1.50/1,000 + 50% |
| 8448.51.30 | 00 | Other | thousand | Free | | $1.15/1,000 + 40% |
| 8448.51.50 | 00 | Other | X | Free | | 40% |
| 8448.59 | | Other: | | | | |
| 8448.59.10 | 00 | Parts of knitting machines | X | Free | | 40% |
| 8448.59.50 | 00 | Other | X | Free | | 40% |
| 8449.00 | | 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; parts thereof: | | | | |
| 8449.00.10 | 00 | Finishing machinery and parts thereof | X | 2.6% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8449.00.50 | 00 | Other | X | Free | | 40% |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8450 | | Household- or laundry-type washing machines, including machines which both wash and dry; parts thereof: | | | | |
| | | Machines, each of a dry linen capacity not exceeding 10 kg: | | | | |
| 8450.11.00 | | Fully automatic machines | | 1.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 0.4% (KR) | 35% |
| | 10 | Coin operated | No. | | | |
| | | Other: | | | | |
| | 40 | Top Loading | No. | | | |
| | 80 | Other | No. | | | |
| 8450.12.00 | 00 | Other machines with built-in centrifugal dryer | No | 2.6% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8450.19.00 | 00 | Other | No | 1.8% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8450.20.00 | | Machines, each of a dry linen capacity exceeding 10 kg | | 1% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 0.3% (KR) | 35% |
| | 10 | Coin operated | No. | | | |
| | | Other: | | | | |
| | 40 | Top Loading | No. | | | |
| | 80 | Other | No. | | | |
| 8450.90 | | Parts: | | | | |
| 8450.90.20 | 00 | Tubs and tub assemblies | No | 2.6% 2/ | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 0.7% (KR) | 40% |
| 8450.90.40 | 00 | Furniture designed to receive the machines of subheadings 8450.11 through 8450.20, inclusive | X | 2.6% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 0.7% (KR) | 40% |
| 8450.90.60 | 00 | Other | No | 2.6% 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 0.7% (KR) | 40% |

1/ See 9903.45.01 and 9903.45.02.
2/ See 9903.45.05 and 9903.45.06.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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; parts thereof: | | | | |
| 8451.10.00 | 00 | Dry-cleaning machines | No. | Free | | 35% |
| | | Drying machines: | | | | |
| 8451.21.00 | | Each of a dry linen capacity not exceeding 10 kg | | 3.4% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1% (KR) | 40% |
| | 10 | Coin operated | No. | | | |
| | 90 | Other | No. | | | |
| 8451.29.00 | | Other | | 2.6% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 0.7% (KR) | 40% |
| | 10 | For drying made up articles | No. | | | |
| | 90 | Other | No. | | | |
| 8451.30.00 | 00 | Ironing machines and presses (including fusing presses) | No. | Free | | 35% |
| 8451.40.00 | 00 | Washing, bleaching or dyeing machines | No. | 3.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8451.50.00 | 00 | Machines for reeling, unreeling, folding, cutting or pinking textile fabrics | No. | Free | | 40% |
| 8451.80.00 | 00 | Other machinery | No. | 3.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8451 (con.) | | 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; parts thereof: (con.) | | | | |
| 8451.90 | | Parts: | | | | |
| 8451.90.30 | 00 | Drying chambers for the drying machines of subheading 8451.21 or 8451.29, and other parts of drying machines incorporating drying chambers..... | X..... | 3.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG)<br>1% (KR) | 40% |
| 8451.90.60 | 00 | Furniture designed to receive the drying machines of subheading 8451.21 or 8451.29..... | X..... | 3.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8451.90.90 | | Other..... | ..... | 3.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG)<br>1% (KR) | 40% |
| | 10 | Of machines for washing, dry-cleaning, ironing, pressing or drying made up textile articles or of other household or laundry type machines..... | X | | | |
| | | Other: | | | | |
| | 20 | Of machines for bleaching, dyeing, washing or cleaning..... | X | | | |
| | 90 | Other..... | X | | | |

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8452 | | Sewing machines, other than book-sewing machines of heading 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles; parts thereof: | | | | |
| 8452.10.00 | | Sewing machines of the household type | ..... | Free | | 30% |
| | 10 | Valued not over $20 each | No. | | | |
| | 90 | Other | No. | | | |
| | | Other sewing machines: | | | | |
| 8452.21 | | Automatic units: | | | | |
| 8452.21.10 | 00 | Specially designed to join footwear soles to uppers | No | Free | | Free |
| 8452.21.90 | 00 | Other | No | Free | | 30% |
| 8452.29 | | Other: | | | | |
| 8452.29.10 | 00 | Specially designed to join footwear soles to uppers | No | Free | | Free |
| 8452.29.90 | 00 | Other | No | Free | | 30% |
| 8452.30.00 | 00 | Sewing machine needles | thousand | Free | | 42% |
| 8452.90 | | Furniture, bases and covers for sewing machines, and parts thereof; other parts of sewing machines: | | | | |
| 8452.90.10 | 00 | Furniture, bases and covers for sewing machines, and parts thereof | X | 2.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 20% |
| 8452.90.20 | | Other parts of sewing machines | ..... | Free | | 30% |
| | 10 | Of household machines | X | | | |
| | 90 | Other | X | | | |
| 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; parts thereof: | | | | |
| 8453.10.00 | 00 | Machinery for preparing, tanning or working hides, skins or leather | No | Free | | 35% |
| 8453.20.00 | 00 | Machinery for making or repairing footwear | No | Free | | Free |
| 8453.80.00 | 00 | Other machinery | No | Free | | 35% |
| 8453.90 | | Parts: | | | | |
| 8453.90.10 | 00 | Of machinery for making or repairing footwear | X | Free | | Free |
| 8453.90.50 | 00 | Other | X | Free | | 35% |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8454 | | Converters, ladles, ingot molds and casting machines, of a kind used in metallurgy or in metal foundries, and parts thereof: | | | | |
| 8454.10.00 | 00 | Converters | No | Free 1/ | | 35% |
| 8454.20.00 | | Ingot molds and ladles | | Free | | 35% |
| | | Ingot molds: | | | | |
| | 10 | For steel ingots | No. kg | | | |
| | 60 | Other | No. kg | | | |
| | 80 | Ladles | kg | | | |
| 8454.30.00 | | Casting machines | | Free 1/ | | 35% |
| | 10 | Die casting machines | No. | | | |
| | 90 | Other | No. | | | |
| 8454.90.00 | | Parts | | Free 1/ | | 35% |
| | | Of casting machines: | | | | |
| | 30 | Of die casting machines | X | | | |
| | 60 | Other | X | | | |
| | 70 | Of ingot molds | X | | | |
| | 80 | Other | X | | | |
| 8455 | | Metal-rolling mills and rolls therefor; parts thereof: | | | | |
| 8455.10.00 | 00 | Tube mills | No | Free 1/ | | 30% |
| | | Other rolling mills: | | | | |
| 8455.21.00 | 00 | Hot or combination hot and cold | No | Free 1/ | | 30% |
| 8455.22.00 | 00 | Cold | No | Free 1/ | | 30% |
| 8455.30.00 | | Rolls for rolling mills | | Free 1/ | | 30% |
| | | Gray iron: | | | | |
| | 05 | Not exceeding 2,268 kg | No. kg | | | |
| | 15 | Exceeding 2,268 kg but not exceeding 6,803.9 kg | No. kg | | | |
| | 25 | Exceeding 6,803.9 kg | No. kg | | | |
| | | Cast steel: | | | | |
| | 35 | Not exceeding 2,268 kg | No. kg | | | |
| | 45 | Exceeding 2,268 kg but not exceeding 6,803.9 kg | No. kg | | | |
| | 55 | Exceeding 6,803.9 kg | No. kg | | | |
| | | Other: | | | | |
| | 65 | Not exceeding 2,268 kg | No. kg | | | |
| | 75 | Exceeding 2,268 kg but not exceeding 6,803.9 kg | No. kg | | | |
| | 85 | Exceeding 6,803.9 kg | No. kg | | | |
| 8455.90 | | Other parts: | | | | |
| 8455.90.40 | 00 | Castings or weldments, individually weighing less than 90 tons, for the machines of heading 8455 | kg | Free 2/ | | 30% |
| 8455.90.80 | 00 | Other | kg | Free 1/ | | 30% |

1/ See 9903.88.01.
2/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8456 | | Machine tools for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electro-discharge, electro-chemical, electron-beam, ionic-beam or plasma arc processes; water-jet cutting machines: | | | | |
| 8456.11 | | Operated by laser: | | | | |
| 8456.11.10 | | For working metal | ..... | 3.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Numerically controlled | No. | | | |
| | 50 | Other | No. | | | |
| | | Other: | | | | |
| 8456.11.70 | 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 units | No | Free 1/ | | 30% |
| 8456.11.90 | 00 | Other | No | 2.4% 1/ | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8456.12 | | Operated by other light or photon beam processes: | | | | |
| 8456.12.10 | | For working metal | ..... | 3.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Numerically controlled | No. | | | |
| | 50 | Other | No. | | | |
| | | Other: | | | | |
| 8456.12.70 | 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 | No | Free 1/ | | 30% |
| 8456.12.90 | 00 | Other | No | 2.4% 1/ | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| 8456.20 | | Operated by ultrasonic processes: | | | | |
| 8456.20.10 | | For working metal | ..... | 3.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Numerically controlled | No. | | | |
| | 50 | Other | No. | | | |
| 8456.20.50 | 00 | Other | No | 2.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8456 (con.) | | Machine tools for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electro-discharge, electro-chemical, electron-beam, ionic-beam or plasma arc processes; water-jet cutting machines: (con.) | | | | |
| 8456.30 | | Operated by electro-discharge processes: | | | | |
| 8456.30.10 | | For working metal | | 3.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 20 | Traveling wire (wire-cut) type | No. | | | |
| | | Other: | | | | |
| | 50 | Numerically controlled | No. | | | |
| | 70 | Other | No. | | | |
| 8456.30.50 | 00 | Other | No. | 2.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8456.40 | | Operated by plasma arc process: | | | | |
| 8456.40.10 | | For working metal | | 3.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Numerically controlled | No. | | | |
| | 90 | Other | No. | | | |
| 8456.40.90 | 00 | Other | No. | 2.2%` 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8456.50.00 | 00 | Water-jet cutting machines | No. | 2.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG)<br>0.7% (KR) | 35% |
| 8456.90 | | Other: | | | | |
| 8456.90.31 | 00 | For working metal | No. | 3.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| 8456.90.71 | 00 | Other | No. | 2.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8457 | | Machining centers, unit construction machines (single station) and multistation transfer machines, for working metal: | | | | |
| 8457.10.00 | | Machining centers | ..... | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 05 | Used or rebuilt | No. | | | |
| | | Other: | | | | |
| | | With automatic tool changers | | | | |
| | | Vertical-spindle machines with a Y-axis travel of-- | | | | |
| | 15 | Not over 660 mm | No. | | | |
| | 25 | Over 660 mm | No. | | | |
| | | Horizontal-spindle machines with a Y-axis travel of-- | | | | |
| | 55 | Not over 685 mm | No. | | | |
| | 60 | Over 685 mm but not over 1,016 mm | No. | | | |
| | 65 | Over 1,016 mm | No. | | | |
| | 70 | Other | No. | | | |
| | 75 | Other | No. | | | |
| 8457.20.00 | | Unit construction machines (single station) | ..... | 3.3% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Numerically controlled | No. | | | |
| | 90 | Other | No. | | | |
| 8457.30.00 | | Multistation transfer machines | ..... | 3.3% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Numerically controlled | No. | | | |
| | 90 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8458 | | Lathes (including turning centers) for removing metal: | | | | |
| | | Horizontal lathes: | | | | |
| 8458.11.00 | | Numerically controlled | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 05 | Used or rebuilt | No. | | | |
| | | Other: | | | | |
| | 10 | Multiple spindle | No. | | | |
| | | Other: | | | | |
| | 30 | With a power rating of less than 18.65 kW | No. | | | |
| | 50 | With a power rating of 18.65 kW or greater but not exceeding 37.3 kW | No. | | | |
| | 90 | With a power rating exceeding 37.3 kW | No. | | | |
| 8458.19.00 | | Other | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | | Other: | | | | |
| | 30 | Engine or toolroom lathes | No. | | | |
| | | Automatic bar and/or chucking machines: | | | | |
| | 50 | Single spindle | No. | | | |
| | 70 | Multiple spindle | No. | | | |
| | 90 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8458 (con.) | | Lathes (including turning centers) for removing metal: (con.) | | | | |
| | | Other lathes: | | | | |
| 8458.91 | | Numerically controlled: | | | | |
| 8458.91.10 | | Vertical turret lathes | | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | | Other: | | | | |
| | 60 | Multiple spindle | No. | | | |
| | 80 | Other | No. | | | |
| 8458.91.50 | | Other | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | | Other: | | | | |
| | 50 | Multiple spindle | No. | | | |
| | 70 | Other | No. | | | |
| 8458.99 | | Other: | | | | |
| 8458.99.10 | | Vertical turret lathes | | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 50 | Other | No. | | | |
| 8458.99.50 | | Other | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 30 | Used or rebuilt | No. | | | |
| | 60 | Other, valued under $3,025 each | No. | | | |
| | 90 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8459 | | Machine tools (including way-type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes (including turning centers) of heading 8458: | | | | |
| 8459.10.00 | 00 | Way-type unit head machines | No. | 3.3% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | | Other drilling machines: | | | | |
| 8459.21.00 | | Numerically controlled | | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8459.29.00 | | Other | | 4.2% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | | Other: | | | | |
| | 40 | Multiple spindle | No. | | | |
| | | Other: | | | | |
| | 50 | Radial | No. | | | |
| | 70 | Upright, excluding sensitive (hand-directed), turret and deep-hole machines | No. | | | |
| | 90 | Other | No. | | | |
| | | Other boring-milling machines: | | | | |
| 8459.31.00 | | Numerically controlled | | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 05 | Used or rebuilt | No. | | | |
| | | Other: | | | | |
| | | Horizontal spindle | | | | |
| | 10 | Table type, excluding planer type | No. | | | |
| | 40 | Other | No. | | | |
| | 70 | Other | No. | | | |
| 8459.39.00 | | Other | | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | | Other: | | | | |
| | 40 | Horizontal spindle | No. | | | |
| | 50 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8459 (con.) | | Machine tools (including way-type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes (including turning centers) of heading 8458: (con.) | | | | |
| | | Other boring machines: | | | | |
| 8459.41.00 | | Numerically controlled | | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | | Other: | | | | |
| | 30 | Vertical | No. | | | |
| | 90 | Other | No. | | | |
| 8459.49.00 | | Other | | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | | Other: | | | | |
| | 30 | Vertical | No. | | | |
| | 90 | Other | No. | | | |
| | | Milling machines, knee type: | | | | |
| 8459.51.00 | | Numerically controlled | | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8459.59.00 | | Other | | 4.2% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | 30 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8459 (con.) | | Machine tools (including way-type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes (including turning centers) of heading 8458: (con.) | | | | |
| | | Other milling machines: | | | | |
| 8459.61.00 | | Numerically controlled | | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8459.69.00 | | Other | | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | | Other: | | | | |
| | 50 | Profile, duplicating or die sinking | No. | | | |
| | 70 | Bed type | No. | | | |
| | 90 | Other | No. | | | |
| 8459.70 | | Other threading or tapping machines: | | | | |
| 8459.70.40 | 00 | Numerically controlled | No | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| 8459.70.80 | | Other | | 4.2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 60 | Other, valued under $3,025 each | No. | | | |
| | 80 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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 | | Numerically controlled | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8460.19.01 | | Other | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 05 | Used or rebuilt | No. | | | |
| | | Other: | | | | |
| | 10 | Reciprocating-table type | No. | | | |
| | 50 | Other | No. | | | |
| | | Other grinding machines: | | | | |
| 8460.22.00 | | Centerless grinding machines, numerically controlled | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8460.23.00 | | Other cylindrical grinding machines, numerically controlled | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8460.24.00 | | Other, numerically controlled | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 05 | Used or rebuilt | No. | | | |
| | | Other: | | | | |
| | 10 | External cylindrical, including universal | No. | | | |
| | 30 | Internal cylindrical | No. | | | |
| | 50 | Other | No. | | | |
| 8460.29.01 | | Other | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 05 | Used or rebuilt | No. | | | |
| | | Other: | | | | |
| | 10 | External cylindrical, including universal | No. | | | |
| | 30 | Internal cylindrical | No. | | | |
| | 50 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8460 (con.) | | 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: (con.) | | | | |
| | | Sharpening (tool or cutter grinding) machines: | | | | |
| 8460.31.00 | | Numerically controlled | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8460.39.00 | | Other | ..... | 4.4% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | 50 | Other | No. | | | |
| 8460.40 | | Honing or lapping machines: | | | | |
| 8460.40.40 | | Numerically controlled | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 60 | Other | No. | | | |
| 8460.40.80 | | Other | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | 80 | Other | No. | | | |
| 8460.90 | | Other: | | | | |
| 8460.90.40 | | Numerically controlled | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 60 | Other | No. | | | |
| 8460.90.80 | | Other | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | 80 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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 | | Shaping or slotting machines: | | | | |
| 8461.20.40 | 00 | Numerically controlled | No. | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| 8461.20.80 | | Other | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 30 | Used or rebuilt | No. | | | |
| | 70 | Other, valued under $3,025 each | No. | | | |
| | 90 | Other | No. | | | |
| 8461.30 | | Broaching machines: | | | | |
| 8461.30.40 | | Numerically controlled | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 20 | Used or rebuilt | No. | | | |
| | 60 | Other | No. | | | |
| 8461.30.80 | | Other | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 20 | Used or rebuilt | No. | | | |
| | 40 | Other, valued under $3,025 each | No. | | | |
| | 80 | Other | No. | | | |
| 8461.40 | | Gear cutting, gear grinding or gear finishing machines: | | | | |
| 8461.40.10 | | Gear cutting machines | | 5.8% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| | 10 | Used or rebuilt | No. | | | |
| | | Other: | | | | |
| | 20 | For bevel gears | No. | | | |
| | | Other: | | | | |
| | 30 | Gear hobbers | No. | | | |
| | 40 | Gear shapers | No. | | | |
| | 60 | Other | No. | | | |
| 8461.40.50 | | Gear grinding or finishing machines | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 20 | Used or rebuilt | No. | | | |
| | 40 | Other, valued under $3,025 each | No. | | | |
| | | Other: | | | | |
| | 50 | For bevel gears | No. | | | |
| | 70 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8461 (con.) | | 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: (con.) | | | | |
| 8461.50 | | Sawing or cutting-off machines: | | | | |
| 8461.50.40 | | Numerically controlled | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 50 | Other | No. | | | |
| 8461.50.80 | | Other | | 4.4% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | 90 | Other | No. | | | |
| 8461.90 | | Other: | | | | |
| 8461.90.30 | | Numerically controlled | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | | Planing machines: | | | | |
| | 20 | Used or rebuilt | No. | | | |
| | 40 | Other | No. | | | |
| | | Other: | | | | |
| | 60 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8461.90.60 | | Other | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | | Planing machines: | | | | |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | 30 | Other | No. | | | |
| | | Other: | | | | |
| | 40 | Used or rebuilt | No. | | | |
| | 50 | Other, valued under $3,025 each | No. | | | |
| | 90 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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: | | | | |
| 8462.10.00 | | Forging or die-stamping machines (including presses) and hammers | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | | Other: | | | | |
| | 30 | Headers and upsetters, including cold headers | No. | | | |
| | 35 | Mechanical transfer presses | No. | | | |
| | 55 | Other | No. | | | |
| | | Bending, folding, straightening or flattening machines (including presses): | | | | |
| 8462.21.00 | 00 | Numerically controlled | No | 4.4% 1/ 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| 8462.29.00 | | Other | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | | Other: | | | | |
| | 30 | Press brakes | No. | | | |
| | 40 | Bending rolls | No. | | | |
| | 50 | Other | No. | | | |
| | | Shearing machines (including presses), other than combined punching and shearing machines: | | | | |
| 8462.31.00 | | Numerically controlled | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8462.39.00 | | Other | ..... | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | 50 | Other | No. | | | |

1/ See 9903.88.01.
2/ See 9817.84.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8462 (con.) | | 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: (con.) | | | | |
| | | Punching or notching machines (including presses), including combined punching and shearing machines: | | | | |
| 8462.41.00 | | Numerically controlled | ..... | 4.4% 1/ 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 80 | Other | No. | | | |
| 8462.49.00 | | Other | ..... | 4.4% 1/ 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | 50 | Other | No. | | | |
| | | Other: | | | | |
| 8462.91 | | Hydraulic presses: | | | | |
| 8462.91.40 | | Numerically controlled | ..... | 4.4% 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 30 | Used or rebuilt | No. | | | |
| | 60 | Other | No. | | | |
| 8462.91.80 | | Other | ..... | 4.4% 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 30 | Used or rebuilt | No. | | | |
| | 90 | Other | No. | | | |
| 8462.99 | | Other: | | | | |
| 8462.99.40 | | Numerically controlled | ..... | 4.4% 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 30 | Other | No. | | | |
| 8462.99.80 | | Other | ..... | 4.4% 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 10 | Used or rebuilt | No. | | | |
| | 20 | Other, valued under $3,025 each | No. | | | |
| | | Other: | | | | |
| | 45 | Mechanical presses | No. | | | |
| | 60 | Other | No. | | | |

1/ See 9817.84.01.
2/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8463 | | Other machine tools for working metal or cermets, without removing material: | | | | |
| 8463.10.00 | | Draw-benches for bars, tubes, profiles, wire or the like | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 60 | Other, valued under $3,025 each | No. | | | |
| | 80 | Other | No. | | | |
| 8463.20.00 | | Thread rolling machines | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 60 | Other, valued under $3,025 each | No. | | | |
| | 80 | Other | No. | | | |
| 8463.30.00 | | Machines for working wire | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 60 | Other, valued under $3,025 each | No. | | | |
| | 80 | Other | No. | | | |
| 8463.90.00 | | Other | | 4.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Used or rebuilt | No. | | | |
| | 60 | Other, valued under $3,025 each | No. | | | |
| | 80 | Other | No. | | | |
| 8464 | | Machine tools for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass: | | | | |
| 8464.10.01 | 00 | Sawing machines | No | Free 2/ | | 35% |
| 8464.20.01 | | Grinding or polishing machines: | | 2% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | Glass-working machines | No. | | | |
| | 20 | Other | No. | | | |
| 8464.90.01 | | Other | | 2% 1/ | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | Glass-working machines | No. | | | |
| | 20 | Other | No. | | | |

1/ See 9903.88.01.
2/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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: | | | | |
| 8465.10.00 | | Machines which can carry out different types of machining operations without tool change between such operations | ..... | 2.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Woodworking machines: | | | | |
| | | Used or rebuilt: | | | | |
| | 05 | Tenoners: | No. | | | |
| | 15 | Other | No. | | | |
| | | Other: | | | | |
| | | Tenoners: | | | | |
| | 25 | Numerically controlled | No. | | | |
| | 35 | Other | No. | | | |
| | 45 | Other | No. | | | |
| | 50 | Other | No. | | | |
| 8465.20 | | Machining centers: | | | | |
| 8465.20.10 | 00 | For sawing, planing, milling, molding, grinding, sanding, polishing, drilling or mortising | No | 3% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8465.20.50 | 00 | For bending or assembling | No | 2.9% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8465.20.80 | 00 | Other | No | 2.4% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8465 (con.) | | Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials: (con.) | | | | |
| | | Other: | | | | |
| 8465.91.00 | | Sawing machines | | 3% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Woodworking machines: | | | | |
| | | Used or rebuilt: | | | | |
| | 02 | Rip saws | No. | | | |
| | 06 | Panel saws | No. | | | |
| | 12 | Band saws | No. | | | |
| | 16 | Cross-cut and optimizing saws | No. | | | |
| | 22 | Other | No. | | | |
| | | Other: | | | | |
| | 27 | Sawmill machines | No. | | | |
| | | Other: | | | | |
| | 32 | Radial arm saws | No. | | | |
| | 36 | Tilting arbor table saws | No. | | | |
| | 41 | Rip saws | No. | | | |
| | 47 | Miter saws | No. | | | |
| | 49 | Scroll saws | No. | | | |
| | | Panel saws: | | | | |
| | 53 | Valued under $3,000 each | No. | | | |
| | 58 | Other | No. | | | |
| | | Band saws: | | | | |
| | 64 | Valued under $1,000 each | No. | | | |
| | 68 | Other | No. | | | |
| | 74 | Cross-cut and optimizing saws | No. | | | |
| | 78 | Other | No. | | | |
| | 91 | Other | No. | | | |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8465 (con.) | | Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials: (con.) | | | | |
| | | Other: (con.) | | | | |
| 8465.92.00 | | Planing, milling or molding (by cutting) machines..... | ..... | 3% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | For woodworking: | | | | |
| | | Used or rebuilt | | | | |
| | 03 | Moulders..... | No. | | | |
| | 06 | Routers..... | No. | | | |
| | 16 | Other..... | No. | | | |
| | | Other: | | | | |
| | | Dovetailing machines: | | | | |
| | 26 | Valued under $3,000 each..... | No. | | | |
| | 29 | Other..... | No. | | | |
| | 31 | Moulders..... | No. | | | |
| | | Planers: | | | | |
| | 34 | Valued under $1,000 each..... | No. | | | |
| | 37 | Other..... | No. | | | |
| | | Jointers: | | | | |
| | 42 | Valued under $1,000 each..... | No. | | | |
| | 46 | Other..... | No. | | | |
| | | Routers: | | | | |
| | 51 | Valued under $3,000 each..... | No. | | | |
| | | Other: | | | | |
| | 55 | Numerically controlled..... | No. | | | |
| | 58 | Other..... | No. | | | |
| | | Shapers and profilers: | | | | |
| | 62 | Valued under $1,000 each..... | No. | | | |
| | 66 | Other..... | No. | | | |
| | 72 | Other..... | No. | | | |
| | 91 | Other..... | No. | | | |
| 8465.93.00 | | Grinding, sanding or polishing machines..... | ..... | 3% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | For woodworking: | | | | |
| | | Used or rebuilt: | | | | |
| | 04 | Belt sanders, for a belt width 60 cm or wider..... | No. | | | |
| | 12 | Other..... | No. | | | |
| | | Other: | | | | |
| | | Edge belt sanders: | | | | |
| | 30 | Valued under $1,000 each..... | No. | | | |
| | 45 | Valued $1,000 or over but under $3,000 each..... | No. | | | |
| | 55 | Other..... | No. | | | |
| | 65 | Belt sanders, for a belt width 60 cm or wider..... | No. | | | |
| | 75 | Other..... | No. | | | |
| | 91 | Other..... | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8465 (con.) | | Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials: (con.) | | | | |
| | | Other: (con.) | | | | |
| 8465.94.00 | | Bending or assembling machines | | 2.9% 1/ | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | For woodworking: | | | | |
| | 05 | Used or rebuilt | No. | | | |
| | | Other: | | | | |
| | 15 | Doweling machines | No. | | | |
| | 25 | Edgebanding machines | No. | | | |
| | 35 | Laminating machines | No. | | | |
| | | Presses: | | | | |
| | 45 | Cold | No. | | | |
| | 55 | Other | No. | | | |
| | 65 | Other | No. | | | |
| | 91 | Other | No. | | | |
| 8465.95.00 | | Drilling or mortising machines | | 3% 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | For woodworking: | | | | |
| | | Used or rebuilt: | | | | |
| | 05 | Numerically controlled boring machines | No. | | | |
| | 10 | Other | No. | | | |
| | | Other: | | | | |
| | | Boring machines: | | | | |
| | 20 | Numerically controlled | No. | | | |
| | | Other: | | | | |
| | 35 | Valued under $3,000 each | No. | | | |
| | 45 | Other | No. | | | |
| | | Other drilling machines: | | | | |
| | 55 | Valued under $1,000 each | No. | | | |
| | 60 | Other | No. | | | |
| | 65 | Other | No. | | | |
| | 91 | Other | No. | | | |
| 8465.96.00 | | Splitting, slicing or paring machines | | 2.4% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | For woodworking: | | | | |
| | 15 | Log splitters | No. | | | |
| | 25 | Chippers | No. | | | |
| | 30 | Hogs | No. | | | |
| | 40 | Other | No. | | | |
| | 51 | Other | No. | | | |

1/ See 9903.88.01.
2/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8465 (con.) | | Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials: (con.) | | | | |
| | | Other: (con.) | | | | |
| 8465.99.02 | | Other | | 2.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Woodworking machines: | | | | |
| | 10 | Debarkers | No. | | | |
| | 20 | Lathes | No. | | | |
| | 30 | Other | No. | | | |
| | 50 | Other | No. | | | |
| 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: | | | | |
| 8466.10.01 | | Tool holders and self-opening dieheads: | | 3.9% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | 10 | Tool holders for forming-type or cutting-type dies | X | | | |
| | 30 | Holders for replaceable cutting or drill inserts | X | | | |
| | 75 | Other | X | | | |
| 8466.20 | | Work holders: | | | | |
| 8466.20.10 | | For machine tools used in cutting gears | | 4.6% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | 10 | Jigs and fixtures | X | | | |
| | 90 | Other | X | | | |
| 8466.20.80 | | Other | | 3.7% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | For metalworking machine tools: | | | | |
| | 20 | Jigs and fixtures | X | | | |
| | 35 | Other | X | | | |
| | | Other work holders: | | | | |
| | 40 | Jigs and fixtures | X | | | |
| | 65 | Other | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8466 (con.) | | 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: (con.) | | | | |
| 8466.30 | | Dividing heads and other special attachments for machines: | | | | |
| 8466.30.10 | 00 | Dividing heads | X | 3.7% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Other special attachments: | | | | |
| 8466.30.60 | | Machines: | | 2.9% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 40 | For woodworking machines | X | | | |
| | 85 | Other | X | | | |
| 8466.30.80 | 00 | Other | X | 8% 2/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | | Other: | | | | |
| 8466.91 | | For machines of heading 8464: | | | | |
| 8466.91.10 | 00 | Cast-iron parts not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery | kg | Free | | 10% |
| 8466.91.50 | 00 | Other | X | Free 1/ | | 35% |
| 8466.92 | | For machines of heading 8465: | | | | |
| 8466.92.10 | 00 | Cast-iron parts not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery | kg | Free 1/ | | 10% |
| 8466.92.50 | | Other | | 4.7% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | Of woodworking machines | X | | | |
| | 90 | Other | X | | | |

1/ See 9903.88.01.
2/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8466 (con.) | | 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: (con.) | | | | |
| | | Other: (con.) | | | | |
| 8466.93 | | For machines of headings 8456 to 8461: | | | | |
| 8466.93.11 | 00 | For water-jet cutting machines | X | Free 1/ | | 35% |
| | | Other: | | | | |
| | | Bed, base, table, head, tail, saddle, cradle, cross slide, column, arm, saw arm, wheelhead, tailstock, headstock, ram, frame, work-arbor support, and C-frame castings, weldments or fabrications: | | | | |
| 8466.93.15 | | Cast-iron parts not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery | | Free | | 10% |
| | 30 | For metalworking machine tools for cutting, grinding or finishing gears | kg | | | |
| | 60 | Other | kg | | | |
| | | Other: | | | | |
| 8466.93.30 | 00 | Of metalworking machine tools for cutting gears | X | 5.8% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8466.93.53 | | Other | | 4.7% 1/ | Free (A, AU, BH, CA, CL, CO, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 40 | Of metalworking machine tools for grinding or finishing gears | X | | | |
| | 85 | Other | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8466 (con.) | | 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: (con.) | | | | |
| | | Other: (con.) | | | | |
| 8466.93 (con.) | | For machines of headings 8456 to 8461: (con.) | | | | |
| | | Other: (con.) | | | | |
| | | Other: | | | | |
| 8466.93.60 | | Cast-iron parts not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery | | Free 1/ | | 10% |
| | 30 | For metalworking machine tools for cutting, grinding or finishing gears | kg | | | |
| | 60 | Other | kg | | | |
| | | Other: | | | | |
| 8466.93.75 | 00 | Of metalworking machine tools for cutting gears | X | 5.8% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | | Other: | | | | |
| 8466.93.96 | 00 | Parts and accessories of machine tool of subheadings 8456.10, 8456.30, 8457.10, 8458.91, 8459.21, 8459.61 and 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 | X | Free 1/ | | 35% |
| 8466.93.98 | | Other | | 4.7% 1/ | Free (A, AU, BH, CA, CL, CO, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 40 | Of metalworking machine tools for grinding or finishing gears | X | | | |
| | 85 | Other | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8466 (con.) | | 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: (con.) | | | | |
| | | Other: (con.) | | | | |
| 8466.94 | | For machines of heading 8462 or 8463: | | | | |
| | | Cast-iron parts not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery: | | | | |
| 8466.94.20 | 00 | Bed, base, table, column, cradle, frame, bolster, crown, slide, rod, tailstock and headstock castings, weldments or fabrications | kg | Free 1/ | | 10% |
| 8466.94.40 | 00 | Other | kg | Free 1/ | | 10% |
| | | Other: | | | | |
| 8466.94.65 | | Bed, base, table, column, cradle, frame, bolster, crown, slide, rod, tailstock and headstock castings, weldments or fabrications: | | 4.7% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 40 | Parts of mechanical transfer presses | X | | | |
| | 85 | Other | X | | | |
| 8466.94.85 | | Other: | | 4.7% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 40 | Parts of mechanical transfer presses | X | | | |
| | 85 | Other | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8467 | | Tools for working in the hand, pneumatic, hydraulic or with self-contained electric or nonelectric motor, and parts thereof: | | | | |
| | | Pneumatic: | | | | |
| 8467.11 | | Rotary type (including combined rotary-percussion): | | | | |
| 8467.11.10 | | Suitable for metal working | | 4.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | 40 | Grinders, polishers and sanders | No. | | | |
| | 80 | Other | No. | | | |
| 8467.11.50 | | Other | | Free 1/ | | 27.5% |
| | 10 | Rock drills | No. | | | |
| | 20 | Drills, other than rock drills; screwdrivers and nut runners | No. | | | |
| | 40 | Wrenches, other than nut runners | No. | | | |
| | 90 | Other | No. | | | |
| 8467.19 | | Other: | | | | |
| 8467.19.10 | 00 | Suitable for metal working | No | 4.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| 8467.19.50 | | Other | | Free | | 27.5% |
| | 30 | Pneumatic, hand-held force feed lubricating equipment | No. | | | |
| | 60 | Designed for use in construction or mining | No. | | | |
| | 90 | Other | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8467 (con.) | | Tools for working in the hand, pneumatic, hydraulic or with self-contained electric or nonelectric motor, and parts thereof: (con.) | | | | |
| | | With self-contained electric motor: | | | | |
| 8467.21.00 | | Drills of all kinds | | 1.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Rotary: | | | | |
| | 10 | Battery powered | No. | | | |
| | | Other: | | | | |
| | 30 | With a chuck capacity of less than 12.7 mm | No. | | | |
| | 50 | Other | No. | | | |
| | 70 | Other, including hammer drills | No. | | | |
| 8467.22.00 | | Saws | | Free | | 35% |
| | 20 | Circular | No. | | | |
| | 40 | Chain | No. | | | |
| | 70 | Reciprocating and jig | No. | | | |
| | 90 | Other | No. | | | |
| 8467.29.00 | | Other | | Free | | 35% |
| | | Grinders, polishers and sanders: | | | | |
| | 10 | Angle grinders, sanders and polishers | No. | | | |
| | 15 | Orbital and straight-line sanders | No. | | | |
| | | Other: | | | | |
| | 25 | Belt sanders | No. | | | |
| | 35 | Other | No. | | | |
| | 40 | Screwdrivers, nut-runners and impact wrenches | No. | | | |
| | 55 | Routers | No. | | | |
| | 65 | Planers | No. | | | |
| | 70 | Grass and weed trimmers/edgers | No. | | | |
| | 80 | Electropneumatic rotary and percussion hammers | No. | | | |
| | 85 | Electric scissors | No. | | | |
| | 90 | Other | No. | | | |
| | | Other tools: | | | | |
| 8467.81.00 | 00 | Chain saws | No. | Free | | 27.5% |
| 8467.89 | | Other: | | | | |
| 8467.89.10 | 00 | Suitable for metal working | No. | Free | | 30% |
| 8467.89.50 | | Other | | Free | | 27.5% |
| | 30 | Gasoline powered grass and weed trimmers and brushcutters | No. | | | |
| | 60 | Other, designed for use in agriculture or horticulture | No. | | | |
| | 90 | Other | No. | | | |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8467 (con.) | | Tools for working in the hand, pneumatic, hydraulic or with self-contained electric or nonelectric motor, and parts thereof: (con.) | | | | |
| | | Parts: | | | | |
| 8467.91.01 | 00 | Of chain saws | X | Free | | 27.5% |
| 8467.92.00 | | Of pneumatic tools | | Free | | 27.5% |
| | 50 | Of pneumatic, hand-held force feed lubricating equipment | X | | | |
| | 90 | Other | X | | | |
| 8467.99.01 | | Other | | Free | | 27.5% |
| | 30 | Of gasoline powered grass and weed trimmers and brushcutters | X | | | |
| | 90 | Other | X | | | |
| 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; parts thereof: | | | | |
| 8468.10.00 | 00 | Hand-held blow torches | No | 2.9% | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8468.20 | | Other gas-operated machinery and apparatus: | | | | |
| 8468.20.10 | 00 | Hand-directed or -controlled | No | 3.9% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8468.20.50 | 00 | Other | No | Free 1/ | | 27.5% |
| 8468.80 | | Other machinery and apparatus: | | | | |
| 8468.80.10 | 00 | Hand-directed or -controlled | No | 2.9% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8468.80.50 | 00 | Other | No | Free 1/ | | 27.5% |
| 8468.90 | | Parts: | | | | |
| 8468.90.10 | 00 | Of hand-directed or -controlled machinery and apparatus | X | 2.9% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8468.90.50 | 00 | Other | X | Free | | 27.5% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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 | | Electronic calculators capable of operation without an external source of electric power and pocket-size data recording, reproducing and displaying machines with calculating functions | ..... | Free | | 35% |
| | 40 | Display only | No. | | | |
| | 60 | Other | No. | | | |
| | | Other electronic calculating machines: | | | | |
| 8470.21.00 | 00 | Incorporating a printing device | No. | Free | | 35% |
| 8470.29.00 | 00 | Other | No. | Free | | 35% |
| 8470.30.00 | 00 | Other calculating machines | No. | Free | | 35% |
| 8470.50.00 | | Cash registers | ..... | Free | | 35% |
| | 20 | Point-of-sale terminals | No. | | | |
| | 60 | Other | No. | | | |
| 8470.90.01 | | Other | ..... | Free | | 35% |
| | 10 | Postage-franking machines | No. | | | |
| | 90 | Other | No. | | | |
| 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: | | | | |
| 8471.30.01 | 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 | No. | Free | | 35% |
| | | Other automatic data processing machines: | | | | |
| 8471.41.01 | | Comprising in the same housing at least a central processing unit and an input and output unit, whether or not combined | ..... | Free | | 35% |
| | 10 | With cathode-ray tube (CRT) | No. | | | |
| | 50 | Other | No. | | | |
| 8471.49.00 | 00 | Other, entered in the form of systems | No. | Free | | 35% |
| 8471.50.01 | | 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 | ..... | Free | | 35% |
| | 10 | With cathode-ray tube (CRT) | No. | | | |
| | 50 | Other | No. | | | |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8471 (con.) | | 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: (con.) | | | | |
| 8471.60 | | Input or output units, whether or not containing storage units in the same housing: | | | | |
| 8471.60.10 | | Combined input/output units | ..... | Free | | 35% |
| | 10 | With cathode-ray tube (CRT) | No. | | | |
| | 50 | Other | No. | | | |
| | | Other: | | | | |
| 8471.60.20 | 00 | Keyboards | No. | Free | | 35% |
| 8471.60.70 | 00 | Units suitable for physical incorporation into automatic data processing machines or units thereof | No. | Free | | 35% |
| 8471.60.80 | 00 | Optical scanners and magnetic ink recognition devices | No. | Free | | 35% |
| 8471.60.90 | | Other | ..... | Free | | 35% |
| | 30 | Card key and magnetic media entry devices | No. | | | |
| | 50 | Other | No. | | | |
| 8471.70 | | Storage units: | | | | |
| | | Magnetic disk drive units: | | | | |
| | | For a disk of a diameter exceeding 21 cm: | | | | |
| 8471.70.10 | 00 | Without read-write unit assembled therein; read-write units entered separately | No. | Free | | 35% |
| 8471.70.20 | 00 | Units for physical incorporation into automatic data processing machines or units thereof | No. | Free | | 35% |
| 8471.70.30 | 00 | Other | No. | Free 1/ | | 35% |
| | | Other: | | | | |
| 8471.70.40 | | Not assembled in cabinets, and without attached external power supply | ..... | Free 1/ | | 35% |
| | 35 | Flexible (floppy) magnetic disk drive units | No. | | | |
| | 65 | Hard magnetic disk drive units | No. | | | |
| | 95 | Other | No. | | | |
| 8471.70.50 | | Other | ..... | Free | | 35% |
| | 35 | Flexible (floppy) magnetic disk drive units | No. | | | |
| | 65 | Hard magnetic disk drive units | No. | | | |
| | 95 | Other | No. | | | |
| | | Other storage units: | | | | |
| 8471.70.60 | 00 | Not assembled in cabinets for placing on a table, desk, wall, floor or similar place | No. | Free 1/ | | 35% |
| 8471.70.90 | 00 | Other | No. | Free 1/ | | 35% |
| 8471.80 | | Other units of automatic data processing machines: | | | | |
| 8471.80.10 | 00 | Control or adapter units | No. | Free | | 35% |
| | | Other: | | | | |
| 8471.80.40 | 00 | Units suitable for physical incorporation into automatic data processing machines | No. | Free | | 35% |
| 8471.80.90 | 00 | Other | No. | Free | | 35% |
| 8471.90.00 | 00 | Other | No. | Free | | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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 | No | Free | | 25% |
| 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 canceling postage stamps | No | 1.8% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8472.90 | | Other: | | | | |
| 8472.90.05 | 00 | Addressing machines and address plate embossing machines | No | Free | | 25% |
| 8472.90.10 | 00 | Automatic teller machines | No | Free | | 35% |
| 8472.90.40 | 00 | Pencil sharpeners | No | Free | | 40% |
| 8472.90.50 | 00 | Typewriters other than printers of heading 8443; word processing machines | No | Free | | 35% |
| 8472.90.60 | 00 | Numbering, dating and check-writing machines | No | Free | | 25% |
| 8472.90.90 | | Other | | Free | | 35% |
| | 40 | Desktop note counters and note scanners | No. | | | |
| | 60 | Other currency and coin handling machines | No. | | | |
| | 80 | Other | No. | | | |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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: | | | | |
| 8473.21.00 | 00 | Of the electronic calculating machines of subheading 8470.10, 8470.21 or 8470.29 | X | Free | | 35% |
| 8473.29.00 | 00 | Other | X | Free | | 35% |
| 8473.30 | | Parts and accessories of the machines of heading 8471: | | | | |
| | | Not incorporating a cathode ray tube: | | | | |
| 8473.30.11 | | Printed circuit assemblies | | Free | | 35% |
| | 40 | Memory modules suitable for use solely or principally with machines of heading 8471 | No. | | | |
| | 80 | Other | X | | | |
| 8473.30.20 | 00 | Parts and accessories, including face plates and lock latches, of printed circuit assemblies | X | Free 1/ | | 35% |
| 8473.30.51 | 00 | Other | X | Free | | 35% |
| 8473.30.91 | 00 | Other | X | Free | | 35% |
| 8473.40 | | Parts and accessories of the machines of heading 8472: | | | | |
| 8473.40.10 | 00 | Printed circuit assemblies for automatic teller machines of subheading 8472.90.10 | X | Free 1/ | | 35% |
| 8473.40.21 | 00 | Printed circuit assemblies of word processing machines of 8472.90.50 | X | Free | | 45% |
| 8473.40.41 | 00 | Other parts and accessories of the machines of 8472.90.50 | X | 2% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8473.40.86 | 00 | Other | X | Free 1/ | | 35% |
| 8473.50 | | Parts and accessories equally suitable for use with machines of two or more of the headings 8470 to 8472: | | | | |
| 8473.50.30 | 00 | Printed circuit assemblies | X | Free 1/ | | 35% |
| 8473.50.60 | 00 | Parts and accessories, including face plates and lock latches, of printed circuit assemblies | X | Free 2/ | | 35% |
| 8473.50.90 | 00 | Other | X | Free 2/ | | 35% |

1/ See 9903.88.01.
2/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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 molding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry molds of sand; parts thereof: | | | | |
| 8474.10.00 | | Sorting, screening, separating or washing machines | | Free 1/ | | 35% |
| | 10 | Portable | No. | | | |
| | 90 | Stationary | No. | | | |
| 8474.20.00 | | Crushing or grinding machines | | Free 1/ | | 35% |
| | 10 | Portable | No. | | | |
| | | Stationary: | | | | |
| | 50 | Crushing | No. | | | |
| | 70 | Other | No. | | | |
| | | Mixing or kneading machines: | | | | |
| 8474.31.00 | 00 | Concrete or mortar mixers | No | Free 1/ | | 35% |
| 8474.32.00 | 00 | Machines for mixing mineral substances with bitumen | No | Free 1/ | | 35% |
| 8474.39.00 | 00 | Other | No | Free 1/ | | 35% |
| 8474.80.00 | | Other machinery | | Free 1/ | | 35% |
| | | For agglomerating, shaping or molding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form: | | | | |
| | 10 | Designed for use with ceramic paste, unhardened cements and plastering materials | No. | | | |
| | 15 | Other | No. | | | |
| | 20 | Machines for forming foundry molds of sand | No. | | | |
| | 80 | Other | No. | | | |
| 8474.90.00 | | Parts | | Free 1/ | | 35% |
| | 10 | Of sorting, screening, separating or washing machines | X | | | |
| | 20 | Of crushing or grinding machines | X | | | |
| | 50 | Of mixing or kneading machines | X | | | |
| | 90 | Other | X | | | |
| 8475 | | Machines for assembling electric or electronic lamps, tubes or flashbulbs, in glass envelopes; machines for manufacturing or hot working glass or glassware; parts thereof: | | | | |
| 8475.10.00 | 00 | Machines for assembling electric or electronic lamps, tubes or flashbulbs, in glass envelopes | No | Free 1/ | | 35% |
| | | Machines for manufacturing or hot working glass or glassware: | | | | |
| 8475.21.00 | 00 | Machines for making optical fibers and preforms thereof | No | Free 1/ | | 35% |
| 8475.29.00 | 00 | Other | No | Free 2/ | | 35% |
| 8475.90 | | Parts: | | | | |
| 8475.90.10 | 00 | Of machines for assembling electric or electronic lamps, tubes or flashbulbs, in glass envelopes | X | Free 1/ | | 35% |
| 8475.90.90 | 00 | Other | X | Free 1/ | | 35% |

1/ See 9903.88.01.
2/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8476 | | Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines; parts thereof: | | | | |
| | | Automatic beverage-vending machines: | | | | |
| 8476.21.00 | 00 | Incorporating heating or refrigerating devices | No | Free | | 35% |
| 8476.29.00 | 00 | Other | No | Free | | 35% |
| | | Other machines: | | | | |
| 8476.81.00 | 00 | Incorporating heating or refrigerating devices | No | Free | | 35% |
| 8476.89.00 | 00 | Other | No | Free | | 35% |
| 8476.90.00 | 00 | Parts | X | Free | | 35% |
| 8477 | | Machinery for working rubber or plastics or for the manufacture of products from these materials, not specified or included elsewhere in this chapter; parts thereof: | | | | |
| 8477.10 | | Injection-molding machines: | | | | |
| 8477.10.30 | 00 | For manufacturing shoes | No | Free 1/ | | Free |
| 8477.10.40 | 00 | For use in the manufacture of optical media | No | Free 1/ | | 35% |
| 8477.10.90 | | Other | | 3.1% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 15 | Of a type used for processing rubber or other thermosetting materials | No. | | | |
| | | Of a type used for processing thermoplastics: | | | | |
| | 30 | With a clamp force less than 50 tons | No. | | | |
| | 40 | With a clamp force equal to or greater than 50 tons and less than 300 tons | No. | | | |
| | 50 | With a clamp force equal to or greater than 300 tons and less than 750 tons | No. | | | |
| | 60 | With a clamp force equal to or greater than 750 tons | No. | | | |
| 8477.20.00 | | Extruders | | 3.1% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Of a type used for processing rubber or other thermosetting materials: | | | | |
| | 05 | Single screw | No. | | | |
| | 15 | Other, including multiple screw | No. | | | |
| | | Of a type used for processing thermoplastics: | | | | |
| | | Single screw, with a screw size: | | | | |
| | 35 | Less than 6.4 cm | No. | | | |
| | 45 | 6.4 cm or greater | No. | | | |
| | | Other, including multiple screw: | | | | |
| | 55 | With a screw size less than 6.4 cm | No. | | | |
| | 65 | With a screw size 6.4 cm or greater | No. | | | |
| 8477.30.00 | 00 | Blow-molding machines | No | 3.1% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8477 (con.) | | Machinery for working rubber or plastics or for the manufacture of products from these materials, not specified or included elsewhere in this chapter; parts thereof: (con.) | | | | |
| 8477.40.01 | 00 | Vacuum-molding machines and other thermoforming machines | No | 3.1% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Other machinery for molding or otherwise forming: | | | | |
| 8477.51.00 | | For molding or retreading pneumatic tires or for molding or otherwise forming inner tubes | | 3.1% 1/ | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | For molding or retreading pneumatic tires | No. | | | |
| | 90 | Other | No. | | | |
| 8477.59.01 | 00 | Other | No | 3.1% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8477.80.00 | 00 | Other machinery | No | 3.1% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8477.90 | | Parts: | | | | |
| 8477.90.25 | | Base, bed, platen, clamp cylinder, ram, and injection castings, weldments and fabrications: | | 3.1% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 40 | Of machines of subheading 8477.10.30, 8477.10.40 or 8477.10.90 | X | | | |
| | 80 | Other | X | | | |
| 8477.90.45 | 01 | Barrel screws | X | 3.1% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8477.90.65 | 00 | Hydraulic assemblies incorporating more than one of the following: manifold; valves; pump; oil cooler | X | 3.1% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8477.90.85 | | Other | | 3.1% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 01 | Of injection-molding machines | X | | | |
| | 20 | Of extruders | X | | | |
| | 30 | Of blow-molding machines | X | | | |
| | 40 | Of machines for forming pneumatic tires | X | | | |
| | 95 | Other parts | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8478 | | Machinery for preparing or making up tobacco, not specified or included elsewhere in this chapter; parts thereof: | | | | |
| 8478.10.00 | | Machinery | ..... | Free | | 35% |
| | 10 | Industrial cigarette-making machines | No. | | | |
| | 90 | Other | No. | | | |
| 8478.90.00 | | Parts | ..... | Free | | 35% |
| | 10 | Parts of industrial cigarette-making machines | X | | | |
| | 90 | Other | X | | | |
| 8479 | | Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter; parts thereof: | | | | |
| 8479.10.00 | | Machinery for public works, building or the like | ..... | Free 1/ | | 35% |
| | | Concrete and bituminous pavers, finishers and spreaders: | | | | |
| | 40 | For concrete | No. | | | |
| | 60 | For bituminous material | No. | | | |
| | 80 | Other | No. | | | |
| 8479.20.00 | 00 | Machinery for the extraction or preparation of animal or fixed vegetable fats or oils | No | Free 1/ | | 35% |
| 8479.30.00 | 00 | Presses for the manufacture of particle board or fiber building board of wood or other ligneous materials and other machinery for treating wood or cork | No | Free 1/ | | 35% |
| 8479.40.00 | 00 | Rope or cable-making machines | No | Free 1/ | | 35% |
| 8479.50.00 | 00 | Industrial robots, not elsewhere specified or included | No | 2.5% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8479.60.00 | 00 | Evaporative air coolers | No | 2.8% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| | | Passenger boarding bridges: | | | | |
| 8479.71.00 | 00 | Of a kind used in airports | No | Free | | 35% |
| 8479.79.00 | 00 | Other | No | Free | | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8479 (con.) | | Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter; parts thereof: (con.) | | | | |
| | | Other machines and mechanical appliances: | | | | |
| 8479.81.00 | 00 | For treating metal, including electric wire coil-winders | No | Free 1/ | | 35% |
| 8479.82.00 | | Mixing, kneading, crushing, grinding, screening, sifting, homogenizing, emulsifying or stirring machines | | Free 1/ | | 35% |
| | 40 | Mixing, kneading or stirring machines | No. | | | |
| | 80 | Other | No. | | | |
| 8479.89 | | Other: | | | | |
| | | Electromechanical appliances with self-contained electric motor: | | | | |
| 8479.89.10 | 00 | Air humidifiers or dehumidifiers | No | Free | | 40% |
| 8479.89.20 | 00 | Floor polishers | No | Free | | 35% |
| 8479.89.55 | 00 | Trash compactors | No | 2.8% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 40% |
| 8479.89.65 | 00 | Other | X | 2.8% | Free (A, AU, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) 2/ | 40% |
| 8479.89.70 | 00 | Carpet sweepers | No | Free | | 35% |
| 8479.89.83 | 00 | Machines for the manufacturing of optical media | No | Free 1/ | | 35% |
| 8479.89.92 | 00 | Automated electronic component placement machines of a kind used solely or principally for the manufacture of printed circuit assemblies | No | Free 1/ | | 35% |
| 8479.89.94 | | Other | | 2.5% 3/ | Free (A*, AU, BH, C, CA, CL, CO, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 0.7% (KR) | 35% |
| | 50 | Oil and gas field wireline and downhole equipment | No. | | | |
| | 60 | Automotive maintenance machines | No. | | | |
| | 65 | Hydraulic accumulators | No. | | | |
| | 85 | Ultrasonic cleaning devices | No. | | | |
| | 95 | Industrial vibrators | No. | | | |
| | 96 | Tow behind sweepers | No. | | | |
| | 99 | Other | No. | | | |

1/ See 9903.88.01.
2/ See additional U.S. note 1 to this chapter.
3/ See 9817.84.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8479 (con.) | | Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter; parts thereof: (con.) | | | | |
| 8479.90 | | Parts: | | | | |
| 8479.90.41 | 00 | Of articles of subheading 8479.89.10 or 8479.89.70.. | X..... | Free | | 35% |
| | | Of trash compactors: | | | | |
| 8479.90.45 | 00 | Frame assemblies incorporating more than one of the following: baseplate; side frames; power screws; front plates..... | X..... | Free | | 35% |
| 8479.90.55 | 00 | Ram assemblies incorporating a ram wrapper and/or ram cover..... | X..... | Free | | 35% |
| 8479.90.65 | 00 | Container assemblies incorporating more than one of the following: container bottom; container wrapper; slide track; container front..... | X..... | Free | | 35% |
| 8479.90.75 | 00 | Cabinets or cases..... | X..... | Free | | 35% |
| 8479.90.85 | 00 | Other..... | X..... | Free | | 35% |
| 8479.90.94 | | Other..... | ..... | Free 1/ | | 35% |
| | 40 | Of industrial robots..... | X | | | |
| | | Other: | | | | |
| | 50 | Of machinery for public works, building or the like..... | X | | | |
| | 60 | Of presses for the manufacture of particle board or fiber building board of wood or other ligneous materials and other machinery for treating wood or cork..... | X | | | |
| | 65 | Of machines or mechanical appliances for treating metal..... | X | | | |
| | 96 | Other..... | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8480 | | Molding boxes for metal foundry; mold bases; molding patterns; molds for metal (other than ingot molds), metal carbides, glass, mineral materials, rubber or plastics: | | | | |
| 8480.10.00 | 00 | Molding boxes for metal foundry | No | 3.8% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8480.20.00 | 00 | Mold bases | No | 3.4% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 50% |
| 8480.30.00 | 00 | Molding patterns | No | 2.8% 1/ | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 50% |
| | | Molds for metal or metal carbides: | | | | |
| 8480.41.00 | 00 | Injection or compression types | No | 3.1% 1/ | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8480.49.00 | | Other types | | 3.1% 1/ | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | Molds for centrifugal casting of ductile iron pipe | No. | | | |
| | 90 | Other | No. | | | |
| 8480.50.00 | | Molds for glass | | Free 1/ | | 35% |
| | 10 | Injection or compression types | No. | | | |
| | 90 | Other types | No. | | | |
| 8480.60.00 | | Molds for mineral materials | | Free | | 35% |
| | 10 | Injection or compression types | No. | | | |
| | 90 | Other types | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8480 (con.) | | Molding boxes for metal foundry; mold bases; molding patterns; molds for metal (other than ingot molds), metal carbides, glass, mineral materials, rubber or plastics: (con.) | | | | |
| | | Molds for rubber or plastics: | | | | |
| 8480.71 | | Injection or compression types: | | | | |
| 8480.71.10 | 00 | For shoe machinery | No | Free 1/ | | Free |
| 8480.71.40 | 00 | For the manufacture of semiconductor devices | No | Free 1/ | | Free |
| 8480.71.80 | | Other | | 3.1% 1/ | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 20 | Temporarily imported for testing, calibration, examination, repair or alteration; returned after being exported for testing, calibration, examination, repair or alteration | No. | | | |
| | | Other: | | | | |
| | 45 | Injection type | No. | | | |
| | 60 | Compression type | No. | | | |
| 8480.79 | | Other types: | | | | |
| 8480.79.10 | 00 | Molds for shoe machinery | No | Free | | Free |
| 8480.79.90 | | Other | | 3.1% | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | Blow molds | No. | | | |
| | 20 | Bladder operated molds | No. | | | |
| | 90 | Other molds | No. | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8481 | | Taps, cocks, valves and similar appliances, for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves; parts thereof: | | | | |
| 8481.10.00 | | Pressure-reducing valves | | 2% 1/ | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 20 | Hydraulic fluid power type | No. kg | | | |
| | | Pneumatic fluid power type: | | | | |
| | 40 | Filter-regulators and filter-regulator-lubricators | No. kg | | | |
| | 60 | Other | No. kg | | | |
| | 90 | Other | No. kg | | | |
| 8481.20.00 | | Valves for oleohydraulic or pneumatic transmissions | | 2% 1/ | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | Hydraulic valves: | | | | |
| | | Directional control | | | | |
| | 10 | Manual type | No. kg | | | |
| | 20 | Solenoid type | No. kg | | | |
| | 30 | Other | No. kg | | | |
| | 40 | Flow control type | No. kg | | | |
| | 50 | Other | No. kg | | | |
| | | Other: | | | | |
| | | Directional control: | | | | |
| | 60 | Solenoid type | No. kg | | | |
| | 70 | Other | No. kg | | | |
| | 80 | Other | No. kg | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8481 (con.) | | Taps, cocks, valves and similar appliances, for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves; parts thereof: (con.) | | | | |
| 8481.30 | | Check (nonreturn) valves: | | | | |
| 8481.30.10 | | Of copper | | 3% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | 10 | Having a pressure rating under 850 kPa | No. kg | | | |
| | 90 | Having a pressure rating of 850 kPa or over | No. kg | | | |
| 8481.30.20 | | Of iron or steel | | 5% 1/ | Free (A*, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | 10 | Of iron | No. kg | | | |
| | 90 | Of steel | No. kg | | | |
| 8481.30.90 | 00 | Other | No. kg | 3% 1/ | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8481.40.00 | 00 | Safety or relief valves | No. kg | 2% 1/ | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8481 (con.) | | Taps, cocks, valves and similar appliances, for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves; parts thereof: (con.) | | | | |
| 8481.80 | | Other appliances: | | | | |
| | | Hand operated: | | | | |
| 8481.80.10 | | Of copper | ..... | 4% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 47% |
| | | Having a pressure rating under 850 kPa: | | | | |
| | 20 | Bath and shower faucets | No. kg | | | |
| | 30 | Sink and lavatory faucets | No. kg | | | |
| | 40 | Supply stops | No. kg | | | |
| | 50 | Other | No. kg | | | |
| | | Having a pressure rating of 850 kPa or over: | | | | |
| | 60 | Gate type | No. kg | | | |
| | 70 | Globe type | No. kg | | | |
| | 75 | Plug type | No. kg | | | |
| | 85 | Ball type | No. kg | | | |
| | 90 | Butterfly type | No. kg | | | |
| | 95 | Other | No. kg | | | |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8481 (con.) | | Taps, cocks, valves and similar appliances, for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves; parts thereof: (con.) | | | | |
| 8481.80 (con.) | | Other appliances: (con.) | | | | |
| | | Hand operated: (con.) | | | | |
| 8481.80.30 | | Of iron or steel | ..... | 5.6% | Free (A*, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | | Of iron: | | | | |
| | 10 | Gate type | No. kg | | | |
| | 15 | Globe type | No. kg | | | |
| | 20 | Plug type | No. kg | | | |
| | 25 | Ball type | No. kg | | | |
| | 30 | Butterfly type | No. kg | | | |
| | 40 | Other | No. kg | | | |
| | | Of steel: | | | | |
| | 55 | Gate type | No. kg | | | |
| | 60 | Globe type | No. kg | | | |
| | 65 | Plug type | No. kg | | | |
| | 70 | Ball type | No. kg | | | |
| | 75 | Butterfly type | No. kg | | | |
| | 90 | Other | No. kg | | | |
| 8481.80.50 | | Of other materials | ..... | 3% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | 40 | Pressure spray can valves | No. kg | | | |
| | 60 | Bath, shower, sink and lavatory faucets | No. kg | | | |
| | 90 | Other | No. kg | | | |

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8481 (con.) | | Taps, cocks, valves and similar appliances, for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves; parts thereof: (con.) | | | | |
| 8481.80 (con.) | | Other appliances: (con.) | | | | |
| 8481.80.90 | | Other | | 2% | Free (A*, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 05 | Solenoid valves | No. | | | |
| | 10 | Ballcock mechanisms | No. | | | |
| | 15 | Regulator valves, self-operating, for controlling variables such as temperature, pressure, flow and liquid level | No. | | | |
| | | Other: | | | | |
| | | With electrical or electro-hydraulic actuators: | | | | |
| | 20 | Control valves designed for proportional operation by a signal from a control device | No. | | | |
| | 25 | Other | No. | | | |
| | 30 | With hydraulic actuators | No. | | | |
| | | With pneumatic actuators: | | | | |
| | 35 | Control valves designed for proportional operation by a signal from a control device | No. | | | |
| | 40 | Other | No. | | | |
| | 45 | With thermostatic actuators | No. | | | |
| | 50 | Other | No. | | | |
| 8481.90 | | Parts: | | | | |
| | | Of hand operated and check appliances: | | | | |
| 8481.90.10 | 00 | Of copper | kg | 3% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 47% |
| 8481.90.30 | 00 | Of iron or steel | kg | 5% | Free (A*, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8481.90.50 | 00 | Of other materials | kg | 3% | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8481.90.90 | | Other | | Free 1/ | | 35% |
| | | Of valves of subheading 8481.20: | | | | |
| | 20 | Valve bodies | kg | | | |
| | 40 | Other | kg | | | |
| | | Other: | | | | |
| | 60 | Valve bodies | kg | | | |
| | | Other: | | | | |
| | 81 | Steel forgings | kg | | | |
| | 85 | Other | kg | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8482 | | Ball or roller bearings, and parts thereof: | | | | |
| 8482.10 | | Ball bearings: | | | | |
| 8482.10.10 | | Ball bearings with integral shafts | ..... | 2.4% | Free (A+, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG)<br>0.7% (KR) | 35% |
| | 40 | Bearings having an outside diameter not over 30 mm | No.<br>kg | | | |
| | 80 | Other | No.<br>kg | | | |
| 8482.10.50 | | Other | ..... | 9% 1/ | Free (A+, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG)<br>2.7% (KR) | 67% |
| | 04 | Unground bearings | No. | | | |
| | | Other: | | | | |
| | 08 | Thrust bearings | No.<br>kg | | | |
| | 12 | Linear bearings | No.<br>kg | | | |
| | | Angular contact bearings: | | | | |
| | | Wheel hub bearings units: | | | | |
| | 16 | Flanged | No.<br>kg | | | |
| | 24 | Other | No.<br>kg | | | |
| | 28 | Other | No.<br>kg | | | |
| | | Radial bearings: | | | | |
| | | Single row bearings: | | | | |
| | 32 | Maximum or full capacity type | No.<br>kg | | | |
| | | Other bearings, having an outside diameter of: | | | | |
| | 36 | Under 9 mm | No.<br>kg | | | |
| | 44 | 9 mm and over but not over 30 mm | No.<br>kg | | | |
| | 48 | Over 30 mm but not over 52 mm | No.<br>kg | | | |
| | 52 | Over 52 mm but not over 100 mm | No.<br>kg | | | |
| | 56 | Over 100 mm | No.<br>kg | | | |
| | 60 | Double row ball bearings | No.<br>kg | | | |
| | 64 | Other | No.<br>kg | | | |
| | 68 | Other | No.<br>kg | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8482 (con.) | | Ball or roller bearings, and parts thereof: (con.) | | | | |
| 8482.20.00 | | Tapered roller bearings, including cone and tapered roller assemblies | ..... | 5.8% 1/ | Free (A+, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1.7% (KR) | 67% |
| | | Cup and cone assemblies entered as a set: | | | | |
| | | Wheel hub units: | | | | |
| | 20 | Flanged | No. kg | | | |
| | 30 | Other | No. kg | | | |
| | | Other: | | | | |
| | 40 | With cups having an outside diameter not exceeding 102 mm | No. kg | | | |
| | 61 | With cups having an outside diameter exceeding 102 mm but not exceeding 203 mm | No. kg | | | |
| | 64 | With cups having an outside diameter exceeding 203 mm but not exceeding 305 mm | No. kg | | | |
| | 67 | Other | No. kg | | | |
| | | Cone assemblies entered separately: | | | | |
| | 70 | For cups having an outside diameter not exceeding 102 mm | No. kg | | | |
| | 81 | For cups having an outside diameter exceeding 102 mm but not exceeding 203 mm | No. kg | | | |
| | 90 | Other | No. kg | | | |
| 8482.30.00 | | Spherical roller bearings | ..... | 5.8% 1/ | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1.7% (KR) | 67% |
| | 40 | Single row | No. kg | | | |
| | 80 | Other | No. kg | | | |
| 8482.40.00 | 00 | Needle roller bearings | No. kg | 5.8% 1/ | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1.7% (KR) | 67% |
| 8482.50.00 | 00 | Other cylindrical roller bearings | No. kg | 5.8% 1/ | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1.7% (KR) | 67% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8482 (con.) | | Ball or roller bearings, and parts thereof: (con.) | | | | |
| 8482.80.00 | | Other, including combined ball/roller bearings | | 5.8% 1/ | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG)<br>1.7% (KR) | 67% |
| | 20 | Combined ball and spherical roller bearings | No.<br>kg | | | |
| | 40 | Combined ball and needle roller bearings | No.<br>kg | | | |
| | 60 | Combined ball and other cylindrical roller bearings | No.<br>kg | | | |
| | 80 | Other | No.<br>kg | | | |
| | | Parts: | | | | |
| 8482.91.00 | | Balls, needles and rollers | | 4.4% 1/ | Free (A+, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG)<br>1.3% (KR) | 45% |
| | | Balls: | | | | |
| | 10 | Of alloy steel | kg | | | |
| | 20 | Other | kg | | | |
| | 40 | Needles | kg | | | |
| | 50 | Tapered rollers | kg | | | |
| | 70 | Spherical rollers | kg | | | |
| | 80 | Other cylindrical rollers | kg | | | |
| | 90 | Other | kg | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8482 (con.) | | Ball or roller bearings, and parts thereof: (con.) | | | | |
| | | Parts: (con.) | | | | |
| 8482.99 | | Other: | | | | |
| | | Inner or outer rings or races: | | | | |
| 8482.99.05 | 00 | For ball bearings | No. kg | 9.9% 1/ | Free (A+, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 2.9% (KR) | 67% |
| 8482.99.15 | | For tapered roller bearings | | 5.8% 1/ | Free (A+, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1.7% (KR) | 67% |
| | | Cups: | | | | |
| | 50 | Having an outside diameter not exceeding 203 mm | No. kg | | | |
| | 70 | Other | No. kg | | | |
| | 80 | Other | No. kg | | | |
| 8482.99.25 | | Other | | 5.8% 1/ | Free (A+, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1.7% (KR) | 67% |
| | 20 | For spherical roller bearings | No. kg | | | |
| | 40 | For needle bearings | No. kg | | | |
| | 60 | For other cylindrical roller bearings | No. kg | | | |
| | 80 | Other | No. kg | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8482 (con.) | | Ball or roller bearings, and parts thereof: (con.) | | | | |
| | | Parts: (con.) | | | | |
| 8482.99 (con.) | | Other: (con.) | | | | |
| | | Other: | | | | |
| 8482.99.35 | 00 | Parts of ball bearings (including parts of ball bearings with integral shafts) | kg | 9.9% 1/ | Free (A+, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 2.9% (KR) | 67% |
| 8482.99.45 | 00 | Parts of tapered roller bearings | kg | 5.8% 1/ | Free (A+, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1.7% (KR) | 67% |
| 8482.99.65 | | Other | | 5.8% 1/ | Free (A+, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1.7% (KR) | 67% |
| | 10 | For spherical roller bearings | kg | | | |
| | 30 | For needle bearings | kg | | | |
| | 60 | For other cylindrical roller bearings | kg | | | |
| | 95 | Other | kg | | | |
| 8483 | | Transmission shafts (including camshafts and crankshafts) and cranks; bearing housings, housed bearings 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); parts thereof: | | | | |
| 8483.10 | | Transmission shafts (including camshafts and crankshafts) and cranks: | | | | |
| | | Camshafts and crankshafts: | | | | |
| 8483.10.10 | | Designed for use solely or principally with spark-ignition internal combustion piston engines or rotary engines | | 2.5% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | | For vehicles of chapter 87: | | | | |
| | 10 | For motorcycles | No. kg | | | |
| | 30 | Other | No. kg | | | |
| | 50 | Other | No. kg | | | |
| 8483.10.30 | | Other | | 2.5% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| | 10 | For vehicles of chapter 87 | No. kg | | | |
| | 50 | Other | No. kg | | | |
| 8483.10.50 | 00 | Other transmission shafts and cranks | kg | Free | | 30% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8483 (con.) | | Transmission shafts (including camshafts and crankshafts) and cranks; bearing housings, housed bearings 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); parts thereof: (con.) | | | | |
| 8483.20 | | Housed bearings, incorporating ball or roller bearings: | | | | |
| 8483.20.40 | | Flange, take-up, cartridge and hanger units | | 4.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1.3% (KR) | 45% |
| | 40 | Incorporating ball bearings | No. | | | |
| | 80 | Incorporating roller bearings | No. | | | |
| 8483.20.80 | | Other | | 4.5% | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1.3% (KR) | 45% |
| | 40 | Incorporating ball bearings | No. | | | |
| | 80 | Incorporating roller bearings | No. | | | |
| 8483.30 | | Bearing housings; plain shaft bearings: | | | | |
| 8483.30.40 | | Flange, take-up, cartridge and hanger units | | 4.5% 1/ | Free (A, AU, BH, C, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1.3% (KR) | 45% |
| | 40 | Ball or roller bearing type | kg | | | |
| | 80 | Other | kg | | | |
| 8483.30.80 | | Other | | 4.5% 2/ | Free (A+, AU, BH, C, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1.3% (KR) | 45% |
| | | Bearing housings: | | | | |
| | 20 | Ball or roller bearing type | kg | | | |
| | 40 | Other | kg | | | |
| | | Plain shaft bearings: | | | | |
| | | With housing: | | | | |
| | 55 | Rod end bearings | No. kg | | | |
| | 65 | Other | No. kg | | | |
| | | Without housing: | | | | |
| | 70 | Spherical | No. kg | | | |
| | 90 | Other | No. kg | | | |

1/ See 9903.88.01.
2/ See 9903.88.02.

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8483 (con.) | | Transmission shafts (including camshafts and crankshafts) and cranks; bearing housings, housed bearings 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); parts thereof: (con.) | | | | |
| 8483.40 | | Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements entered separately; ball or roller screws; gear boxes and other speed changers, including torque converters: | | | | |
| 8483.40.10 | 00 | Torque converters | No | Free 1/ | | 27.5% |
| | | Gear boxes and other speed changers: | | | | |
| | | Fixed ratio speed changers, multiple and variable ratio speed changers each ratio of which is selected by manual manipulation: | | | | |
| 8483.40.30 | | Imported for use with machines for making cellulosic pulp, paper or paperboard | | Free 1/ | | 27.5% |
| | 40 | Fixed ratio speed changers | No. | | | |
| | 80 | Other | No. | | | |
| 8483.40.50 | | Other | | 2.5% | Free(A, AU, BH, C, CA, CL, CO, D, E, IL, JO, KR, , MA, MX, OM, P, PA, PE, SG) | 27.5% |
| | 10 | Fixed ratio speed changers | No. | | | |
| | 50 | Other | No. | | | |
| 8483.40.70 | 00 | Other speed changers | No | 25¢ each + 3.9% | Free (A, AU, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | $4.50 each + 65% |
| 8483.40.80 | 00 | Ball or roller screws | X | 3.8% 1/ | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8483.40.90 | 00 | Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements entered separately | X | 2.5% 1/ | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 27.5% |
| 8483.50 | | Flywheels and pulleys, including pulley blocks: | | | | |
| 8483.50.40 | 00 | Gray-iron awning or tackle pulleys, not over 6.4 cm in wheel diameter | X | 5.7% | Free (A, AU, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | | Other: | | | | |
| 8483.50.60 | 00 | Flywheels | X | 2.8% 1/ | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8483.50.90 | | Other | | 2.8% 1/ | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8483 (con.) | | Transmission shafts (including camshafts and crankshafts) and cranks; bearing housings, housed bearings 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); parts thereof: (con.) | | | | |
| 8483.50 (con.) | | Flywheels and pulleys, including pulley blocks: (con.) | | | | |
| | | Other: (con.) | | | | |
| 8483.50.90 (con.) | | Other (con.) | | | | |
| | 40 | Grooved pulleys | X | | | |
| | 80 | Other | X | | | |

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8483 (con.) | | Transmission shafts (including camshafts and crankshafts) and cranks; bearing housings, housed bearings 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); parts thereof: (con.) | | | | |
| 8483.60 | | Clutches and shaft couplings (including universal joints): | | | | |
| 8483.60.40 | | Clutches and universal joints | ..... | 2.8% 1/ | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | 40 | Clutches | No. | | | |
| | 80 | Universal joints | No. | | | |
| 8483.60.80 | 00 | Other | X | 2.8% | Free (A+, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8483.90 | | Toothed wheels, chain sprockets and other transmission elements presented separately; parts: | | | | |
| 8483.90.10 | | Chain sprockets and parts thereof | ..... | 2.8% 1/ | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | 10 | Forged | kg | | | |
| | 50 | Other | kg | | | |
| | | Parts of bearing housings and plain shaft bearings: | | | | |
| 8483.90.20 | 00 | Parts of flange, take-up, cartridge and hanger units | X | 4.5% 1/ | Free (A, AU, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8483.90.30 | 00 | Other | X | 4.5% 1/ | Free (A+, AU, BH, C, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG)<br>1.3% (KR) | 45% |
| 8483.90.50 | | Parts of gearing, gear boxes and other speed changers | ..... | 2.5% | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 27.5% |
| | 10 | Forged gear blanks | No. | | | |
| | 90 | Other | kg | | | |
| | | Other: | | | | |
| 8483.90.70 | 00 | Parts of articles of subheading 8483.20 | X | 5.5% 1/ | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8483.90.80 | | Other | ..... | 2.8% 1/ | Free (A+, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | 10 | Parts of articles of subheading 8483.60.80 | X | | | |

1/ See 9903.88.01.

| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 8483 (con.) | | Transmission shafts (including camshafts and crankshafts) and cranks; bearing housings, housed bearings 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); parts thereof: (con.) | | | | |
| 8483.90 (con.) | | Toothed wheels, chain sprockets and other transmission elements presented separately; parts: (con.) | | | | |
| | | Other: (con.) | | | | |
| 8483.90.80 (con.) | | Other (con.) | | | | |
| | 40 | Parts of universal joints..... | X | | | |
| | 80 | Other..... | X | | | |

| Heading/ Subheading | Stat. Suf-fix | Article Description | Unit of Quantity | Rates of Duty 1 General | Rates of Duty 1 Special | Rates of Duty 2 |
|---|---|---|---|---|---|---|
| 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: | | | | |
| 8484.10.00 | 00 | Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal | X | 2.5% 1/ | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 8484.20.00 | 00 | Mechanical seals | No | 3.9% 1/ | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8484.90.00 | 00 | Other | No | 2.5% 1/ | Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 35% |
| 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: | No | Free 2/ | | 35% |
| 8486.20.00 | 00 | Machines and apparatus for the manufacture of semiconductor devices or of electronic integrated circuits: | No | Free 2/ | | 35% |
| 8486.30.00 | 00 | Machines and apparatus for the manufacture of flat panel displays: | No | Free 2/ | | 35% |
| 8486.40.00 | | Machines and apparatus specified in note 9 (C) to this chapter: | | Free 2/ | | 35% |
| | 10 | For the manufacture or repair of masks and reticles | No. | | | |
| | 20 | For assembling semiconductor devices or electronic integrated circuits | No. | | | |
| | 30 | For lifting, handling, loading or unloading of boules, wafers, semiconductor devices, electronic integrated circuits and flat panel displays | No. | | | |
| 8486.90.00 | 00 | Parts and accessories: | X | Free 2/ | | 35% |
| 8487 | | Machinery parts, not containing electrical connectors, insulators, coils, contacts or other electrical features, and not specified or included elsewhere in this chapter: | | | | |
| 8487.10.00 | | Ships' or boats' propellers and blades therefor | | Free 1/ | | 30% |
| | 40 | Of copper | No. | | | |
| | 80 | Other | X | | | |
| 8487.90.00 | | Other | | 3.9% 1/ | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | 40 | Oil seals, other than those of chapter 40 | kg | | | |
| | 80 | Other | kg | | | |

1/ See 9903.88.01.
2/ See 9903.88.02.