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.

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;

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

Additional U.S. Notes (con.)

(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.

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.

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% 1/	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% 2/	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% 2/	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 2/		45%
8405.90.00	00	Parts	X	Free 2/		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% 2/	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 2/		27.5%
		Other turbines:				
8406.81		Of an output exceeding 40 MW:				
8406.81.10		Steam turbines	.....	6.7% 3/	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 2/		27.5%
8406.82		Of an output not exceeding 40 MW:				
8406.82.10		Steam turbines	.....	6.7% 4/	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.			

1/ See 9902.15.38 and 9903.88.03.
2/ See 9903.88.01.
3/ See 9902.15.39 and 9903.88.03.
4/ See 9902.15.40 and 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.)				
8406.82.10 (con.)		Steam turbines (con.)				
		Other: (con.)				
	70	Exceeding 7,460 kW.....	No.			
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% 1/	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% 1/	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% 1/	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% 1/	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 1/		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 1/		27.5%
8406.90.70	00	Blades, rotating or stationary	No	Free 1/		27.5%
8406.90.75	00	Other	X	Free 1/		27.5%

1/ See 9903.88.03.

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 2/		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 2/		Free
8407.32.20		To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704		Free 2/		35%
	40	Used or rebuilt	No.			
	80	Other	No.			
8407.32.90		Other		Free 2/		35%
	40	Not exceeding 18.65 kW	No.			
	80	Exceeding 18.65 kW	No.			

1/ See 9903.88.01.
2/ See 9903.88.03.

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 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:				
8407.33.30		To be installed in vehicles specially designed for traveling on snow, golf carts, non-amphibious all-terrain vehicles and burden carriers	.....	Free 1/		35%
	40	Used or rebuilt	No.			
	80	Other	No.			
8407.33.60		Other	.....	2.5% 1/	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 1/		35%
	40	Not exceeding 18.65 kW	No.			
	80	Exceeding 18.65 kW	No.			

1/ See 9903.88.03.

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% 2/	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% 2/	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 2/		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% 2/	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% 2/	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 2/		35%

1/ See 9903.88.02.
2/ See 9903.88.03.

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% 3/	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% 4/	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.
3/ See 9902.15.41 and 9903.88.03.
4/ See 9903.88.03.

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 3/		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 kg	2.5% 3/	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% 3/	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			
	81	Steel forgings	kg			
	85	Other	kg			
8409.91.92		For marine propulsion engines		2.5% 3/	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			
8409.91.99		Other		2.5% 3/	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			

1/ See 9903.88.01.
2/ See General Note 6.
3/ See 9903.88.03.

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 1/		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% 2/	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% 3/	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 1/		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% 4/	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% 4/	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% 4/	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% 4/	Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG)	27.5%

1/ See 9903.88.03.
2/ See 9902.15.42, 9902.15.43, 9902.15.44 and 9903.88.03.
3/ See 9902.15.45, 9902.15.46, 9902.15.47 and 9903.88.03.
4/ 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 2/	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.
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
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 2/		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.
2/ See 9903.88.03.

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 1/		35%
8413.19.00	00	Other	No	Free 2/		35%
8413.20.00	00	Hand pumps, other than those of subheading 8413.11 or 8413.19	No	Free 1/		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% 3/	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% 4/	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 2/		35%
8413.50.00		Other reciprocating positive displacement pumps		Free 2/		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 2/		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 9903.88.03.
2/ See 9903.88.01.
3/ See 9902.15.48, 9902.15.49, 9902.15.50 and 9903.88.03.
4/ See 9902.15.51, 9902.15.52 and 9903.88.03.

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 2/		35%

1/ See 9903.88.01.
2/ See 9903.88.03.

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% 1/	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% 2/	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 3/		35%
8414.30.80		Other		Free 3/		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% 2/	Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG)	35%

1/ See 9902.15.53 and 9903.88.03.
2/ See 9903.88.03.
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
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% 1/	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 2/		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 2/		35%
		Other				
8414.59.30	00	Turbochargers and superchargers	No	2.3% 3/	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% 4/	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 2/		35%

1/ See 9902.15.54 and 9902.15.55.
2/ See 9903.88.03.
3/ See 9903.88.01.
4/ See 9902.15.56 and 9903.88.03.

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 2/		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% 3/	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.
2/ See 9903.88.03.
3/ See 9902.15.57 and 9903.88.03.

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% 1/	Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 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 2/		35%
8414.90.41		Other	.....	Free 2/		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 2/		35%
	40	Of vacuum pumps	X			
	80	Other	X			

1/ See 9902.15.58, 9902.15.59 and 9903.88.03.
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
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 1/		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% 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% 1/	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% 1/	Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG)	35%

1/ See 9903.88.03.

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% 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% 2/	Free (A, AU, B, BH, C, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 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% 1/	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.			

1/ See 9903.88.03.
2/ See 9902.15.62, 9902.15.63, 9902.15.64 and 9903.88.03.

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 1/		27.5%
8416.90.00	00	Parts	X	Free 2/		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% 2/	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% 2/	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% 2/	Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG)	45%

1/ See 9903.88.03.
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
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 1/		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 1/		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% 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% 1/	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 1/		35%
8418.40.00	00	Freezers of the upright type, not exceeding 900 liters capacity	No.	Free 1/		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 1/		35%
	40	Freezing	No.			
	80	Other	No.			

1/ See 9903.88.03.

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 1/		35%
8418.69.01		Other		Free 2/		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 1/		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 1/		35%
8418.99.80		Other		Free 1/		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 9903.88.03.
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
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 9902.15.66 and 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% 4/	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.
4/ See 9902.15.67 and 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
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 1/		25%
8421.12.00	00	Clothes-dryers	No	Free		25%
8421.19.00	00	Other	No	1.3% 2/	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 2/		35%
8421.22.00	00	For filtering or purifying beverages other than water	No	Free 2/		35%
8421.23.00	00	Oil or fuel filters for internal combustion engines	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%
8421.29.00		Other		Free 2/		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% 1/	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 2/		35%
8421.39.80		Other		Free 2/		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 9903.88.03.
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 (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 2/		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.
2/ See 9903.88.03.

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 2/		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.
2/ See 9903.88.03.

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% 1/	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 1/		35%
8424.30		Steam or sand blasting machines and similar jet projecting machines:				
8424.30.10	00	Sand blasting machines	No	Free 1/		Free
8424.30.90	00	Other	X	Free 1/		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 1/		Free
8424.41.90	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%
8424.49.00	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%
		Other appliances:				
8424.82.00		Agricultural or horticultural		2.4% 2/	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 3/		35%
8424.89.90	00	Other	No	1.8% 4/	Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG)	35%

1/ See 9903.88.03.
2/ See 9902.15.68 and 9903.88.02.
3/ See 9903.88.01.
4/ 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
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 2/		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 2/		35%
		Winches; capstans:				
8425.31.01	00	Powered by electric motor	No	Free 2/		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 2/		35%
8425.42.00	00	Other jacks and hoists, hydraulic	No	Free 2/		35%
8425.49.00	00	Other	No	Free 2/		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 2/		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 2/		35%
8426.99.00	00	Other	No	Free 1/		35%

1/ See 9903.88.01.
2/ See 9903.88.03.

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 2/		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 2/		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.
2/ See 9903.88.03.

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 2/		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 2/		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.
2/ See 9903.88.03.

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 3/		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.
3/ See 9903.88.03.

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 1/		30%
	10	Wheel and tire assemblies	X			
	90	Other	X			
8433.90.50		Other		Free 2/		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 2/		Free
8434.90.00	00	Parts	X	Free 2/		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 9903.88.03.
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
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 2/		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 2/		25%
8442.50.90	00	Other	No	Free		60%

1/ See 9903.88.01.
2/ See 9903.88.03.

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 2/		25%
8443.16.00	00	Flexographic printing machinery	No	2.2% 3/	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.
2/ See 9903.88.03.
3/ See 9902.15.69, 9902.15.70 and 9903.88.03.

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 1/		35%
		Other photocopying apparatus:				
8443.39.30	00	Incorporating an optical system	No	Free 1/		35%
8443.39.40	00	Of the contact type	No	Free 1/		35%
8443.39.50	00	Thermocopying apparatus	No	Free 1/		35%
8443.39.60	00	Other	No	Free		35%
8443.39.90	00	Other	No	Free		35%

1/ See 9903.88.03.

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 2/		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 2/		35%
8443.99.35	00	Other	X	Free 2/		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 3/		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 9903.88.03.
3/ 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% 1/	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.			

1/ See 9902.15.71, 9902.15.72 and 9903.88.03.

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/		$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%

1/ See 9903.88.03.

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 1/		35%
		Drying machines:				
8451.21.00		Each of a dry linen capacity not exceeding 10 kg		3.4% 1/	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% 1/	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 1/		35%
8451.40.00	00	Washing, bleaching or dyeing machines	No.	3.5% 1/	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 1/		40%
8451.80.00	00	Other machinery	No.	3.5% 1/	Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG)	40%

1/ See 9903.88.03.

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% 1/	Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 1% (KR)	40%
8451.90.60	00	Furniture designed to receive the drying machines of subheading 8451.21 or 8451.29.....	X.....	3.5% 1/	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% 1/	Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 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			

1/ See 9903.88.03.

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 1/		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%

1/ See 9903.88.03.

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 2/		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 3/		30%
8455.90.80	00	Other	kg	Free 1/		30%

1/ See 9903.88.01.
2/ See 9903.88.03.
3/ 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) 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% 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.
2/ See 9903.88.03.

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% 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.
2/ See 9903.88.03.

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% 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.			
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.
2/ See 9903.88.03.

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% 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.			
	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.
2/ See 9902.15.73 and 9903.88.03.

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% 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 and 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 (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/	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/	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 and 9903.88.01.
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% 2/	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% 2/	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% 2/	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.
2/ See 9903.88.03.

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% 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:				
	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.			

1/ See 9902.15.74, 9902.15.75, 9902.15.76, 9902.15.77, 9902.15.78, 9902.15.79 and 9903.88.03.

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 9902.15.80 and 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 3/		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.
3/ See 9903.88.03.

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 2/		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.
2/ See 9903.88.03.

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 2/		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.
2/ See 9903.88.03.

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% 1/	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.			

1/ See 9902.15.81.

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 1/		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% 1/	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 2/		27.5%
8468.80		Other machinery and apparatus:				
8468.80.10	00	Hand-directed or -controlled	No	2.9% 1/	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 2/		27.5%
8468.90		Parts:				
8468.90.10	00	Of hand-directed or -controlled machinery and apparatus	X	2.9% 1/	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 1/		27.5%

1/ See 9903.88.03.
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
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 1/		35%
	40	Display only	No.			
	60	Other	No.			
		Other electronic calculating machines:				
8470.21.00	00	Incorporating a printing device	No.	Free 1/		35%
8470.29.00	00	Other	No.	Free 1/		35%
8470.30.00	00	Other calculating machines	No.	Free 1/		35%
8470.50.00		Cash registers	.....	Free		35%
	20	Point-of-sale terminals	No.			
	60	Other	No.			
8470.90.01		Other	.....	Free 1/		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 1/		35%
	10	With cathode-ray tube (CRT)	No.			
	50	Other	No.			

1/ See 9903.88.03.

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 1/		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 1/		35%
8471.60.80	00	Optical scanners and magnetic ink recognition devices	No.	Free		35%
8471.60.90		Other	.....	Free 1/		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 1/		35%
8471.70.20	00	Units for physical incorporation into automatic data processing machines or units thereof	No.	Free 1/		35%
8471.70.30	00	Other	No.	Free 2/		35%
		Other:				
8471.70.40		Not assembled in cabinets, and without attached external power supply	.....	Free 2/		35%
	35	Flexible (floppy) magnetic disk drive units	No.			
	65	Hard magnetic disk drive units	No.			
	95	Other	No.			
8471.70.50		Other	.....	Free 1/		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 2/		35%
8471.70.90	00	Other	No.	Free 2/		35%
8471.80		Other units of automatic data processing machines:				
8471.80.10	00	Control or adapter units	No.	Free 1/		35%
		Other:				
8471.80.40	00	Units suitable for physical incorporation into automatic data processing machines	No.	Free 1/		35%
8471.80.90	00	Other	No.	Free 1/		35%
8471.90.00	00	Other	No.	Free 1/		35%

1/ See 9903.88.03.
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
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 1/		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% 1/	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 1/		25%
8472.90.10	00	Automatic teller machines	No	Free 1/		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 1/		25%
8472.90.90		Other		Free 1/		35%
	40	Desktop note counters and note scanners	No.			
	60	Other currency and coin handling machines	No.			
	80	Other	No.			

1/ See 9903.88.03.

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 1/		35%
8473.29.00	00	Other	X	Free 1/		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 1/		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 2/		35%
8473.30.51	00	Other	X	Free 1/		35%
8473.30.91	00	Other	X	Free 1/		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 2/		35%
8473.40.21	00	Printed circuit assemblies of word processing machines of 8472.90.50	X	Free 1/		45%
8473.40.41	00	Other parts and accessories of the machines of 8472.90.50	X	2% 1/	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 2/		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 2/		35%
8473.50.60	00	Parts and accessories, including face plates and lock latches, of printed circuit assemblies	X	Free 3/		35%
8473.50.90	00	Other	X	Free 3/		35%

1/ See 9903.88.03.
2/ See 9903.88.01.
3/ 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 1/		35%
8476.29.00	00	Other	No	Free 1/		35%
		Other machines:				
8476.81.00	00	Incorporating heating or refrigerating devices	No	Free 1/		35%
8476.89.00	00	Other	No	Free		35%
8476.90.00	00	Parts	X	Free 1/		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 2/		Free
8477.10.40	00	For use in the manufacture of optical media	No	Free 2/		35%
8477.10.90		Other		3.1% 2/	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% 2/	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% 2/	Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG)	35%

1/ See 9903.88.03.
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
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% 2/	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.
2/ See 9902.15.82 and 9903.88.03.

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% 2/	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 2/		35%
8479.79.00	00	Other	No	Free		35%

1/ See 9903.88.01.
2/ See 9903.88.03.

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 2/		40%
8479.89.20	00	Floor polishers	No	Free 2/		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) 3/	40%
8479.89.70	00	Carpet sweepers	No	Free 2/		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% 4/	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 9903.88.03.
3/ See additional U.S. note 1 to this chapter.
4/ See 9817.84.01, 9902.15.83, 9902.15.84, 9902.15.85, 9902.15.86, 9902.15.87, 9902.15.88, 9902.15.89 and 9903.88.03.

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% 1/	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% 2/	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% 2/	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% 2/	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% 2/	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 2/		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 9903.88.03.
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
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 2/		Free
8480.79.90		Other		3.1% 3/	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.
2/ See 9903.88.03.
3/ See 9902.15.90 and 9903.88.03.

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% 1/	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% 2/	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% 2/	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% 2/	Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG)	35%

1/ See 9903.88.03.
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
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% 1/	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			

1/ See 9903.88.03.

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% 1/	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% 1/	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			

1/ See 9903.88.03.

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% 1/	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 2/		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 9902.15.91, 9902.15.92, 9902.15.93, 9902.15.94, 9902.15.95 and 9903.88.03.
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
8482		Ball or roller bearings, and parts thereof:				
8482.10		Ball bearings:				
8482.10.10		Ball bearings with integral shafts	.....	2.4% 1/	Free (A+, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 0.7% (KR)	35%
	40	Bearings having an outside diameter not over 30 mm	No. kg			
	80	Other	No. kg			
8482.10.50		Other	.....	9% 2/	Free (A+, AU, B, BH, CA, CL, CO, D, E, IL, JO, MA, MX, OM, P, PA, PE, SG) 2.7% (KR)	67%
	04	Unground bearings	No.			
		Other:				
	08	Thrust bearings	No. kg			
	12	Linear bearings	No. kg			
		Angular contact bearings:				
		Wheel hub bearings units:				
	16	Flanged	No. kg			
	24	Other	No. kg			
	28	Other	No. kg			
		Radial bearings:				
		Single row bearings:				
	32	Maximum or full capacity type	No. kg			
		Other bearings, having an outside diameter of:				
	36	Under 9 mm	No. kg			
	44	9 mm and over but not over 30 mm	No. kg			
	48	Over 30 mm but not over 52 mm	No. kg			
	52	Over 52 mm but not over 100 mm	No. kg			
	56	Over 100 mm	No. kg			
	60	Double row ball bearings	No. kg			
	64	Other	No. kg			
	68	Other	No. kg			

1/ See 9903.88.03.
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
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) 1.7% (KR)	67%
	20	Combined ball and spherical roller bearings	No. kg			
	40	Combined ball and needle roller bearings	No. kg			
	60	Combined ball and other cylindrical roller bearings	No. kg			
	80	Other	No. 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) 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% 2/	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% 3/	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			

1/ See 9903.88.01.
2/ See 9903.88.03.
3/ See 9902.15.96, 9902.15.97, 9902.15.98 and 9903.88.03.

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.)				
8483.10 (con.)		Transmission shafts (including camshafts and crankshafts) and cranks: (con.)				
		Camshafts and crankshafts: (con.)				
8483.10.30 (con.)		Other (con.)				
	50	Other	No. kg			
8483.10.50	00	Other transmission shafts and cranks	kg	Free 1/		30%

1/ See 9903.88.03.

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% 1/	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% 1/	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% 2/	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% 3/	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 9903.88.03.
2/ See 9903.88.01.
3/ See 9902.15.99 and 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% 2/	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% 3/	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% 3/	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%

1/ See 9903.88.01.
2/ See 9902.16.01 and 9903.88.03.
3/ See 9903.88.03.

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		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%
	40	Grooved pulleys	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
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% 2/	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) 1.3% (KR)	45%
8483.90.50		Parts of gearing, gear boxes and other speed changers	.....	2.5% 3/	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%

1/ See 9903.88.01.
2/ See 9902.16.02, 9902.16.03 and 9903.88.03.
3/ See 9902.16.04 and 9903.88.03.

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.)				
	10	Parts of articles of subheading 8483.60.80.....	X			
	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.