

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 4204) 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);
- (i). Endless belts of metal wire or strip (section XV);
- (j). See (i) above.
- (k). Articles of chapter 82 or 83;
- (l). Articles of section XVII;
- (m). Articles of chapter 90;
- (n). Clocks, watches and other articles of chapter 91;

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- (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 impression).
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, 8485, 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 headings 8409, 8431, 8448, 8466, 8473, 8503, 8522, 8529 or 8538 as appropriate. However, parts which are equally suitable for use principally with the goods of headings 8517 and 8525 to 8528 are to be classified in heading 8517;
 - (c). All other parts are to be classified in headings 8409, 8431, 8448, 8466, 8473, 8503, 8522, 8529, or 8538 as appropriate or, failing that in heading 8485 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.

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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 of 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.

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- (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.
 - (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 a 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 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.

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- (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 doesn't 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.

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- (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.
- (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 water 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.

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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). Electromechanical domestic appliances of heading 8509; digital cameras of heading 8525; or
 - (f). Hand-operated mechanical floor sweepers, not motorized (heading 9603).
2. Subject to the operation of note 3 to section XVI, a machine or appliance which answers to a description in one or more of the headings 8401 to 8424 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 and not the latter.

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 or plant, 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.

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Heading 8424 does not cover:

- (a). Ink jet printing machines (heading 8443 or 8471).
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);
 - (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 purposes of heading 8471, the expression "automatic data processing machines" means:
 - (a). Digital machines, capable of (1) storing the processing program or programs and at least the data immediately necessary for execution of the program; (2) being freely programmed in accordance with the requirements of the user; (3) performing arithmetical computations specified by the user; and, (4) executing, without human intervention, a processing program which requires them to modify their execution, by logical decision during the processing run;
 - (b). Analog machines capable of simulating mathematical models and comprising at least: analog elements, control elements and programming elements;
 - (c). Hybrid machines consisting of either a digital machine with analog elements or an analog machine with digital elements.
- (B). Automatic data processing machines may be in the form of systems consisting of a variable number of separate units. Subject to paragraph (E) below, a unit is to be regarded as being a part of a complete system if it meets all of the following conditions:
 - (a). It is of a kind solely or principally used in an automatic data processing system;
 - (b). It is connectable to the central processing unit either directly or through one or more other units; and

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- (c). It is able to accept or deliver data in a form (codes or signals) which can be used by the system.
 - (C). Separately presented units of an automatic data processing machine are to be classified in heading 8471.
 - (D). Printers, keyboards, x-y co-ordinate input devices and disk storage units which satisfy the conditions of paragraphs (B) (b) and (B) (c) above, are in all cases to be classified as units of heading 8471.
 - (E). Machines performing a specific function other than data processing and incorporating or working in conjunction with an automatic data processing machine 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.

Subheading Notes

- 1. 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 (B) 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).
- 2. 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.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8401	Nuclear reactors; fuel elements (cartridges), non-irradiated, for nuclear reactors; machinery and apparatus for isotopic separation; parts thereof:	
8401.10.0000	Nuclear reactors	t
8401.20.0000	Machinery and apparatus for isotopic separation, and parts thereof	t
8401.30.0000	Fuel elements (cartridges), non-irradiated, and parts thereof	X
8401.40.0000	Parts of nuclear reactors	t
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:	
8402.11.0000	Watertube boilers with a steam production exceeding 45 t per hour	t
8402.12.0000	Watertube boilers with a steam production not exceeding 45 t per hour	t
8402.19.0000	Other vapor generating boilers, including hybrid boilers	t
8402.20.0000	Super-heated water boilers	t
8402.90	Parts:	
8402.90.0010	Heat exchangers	t
8402.90.0090	Other	X
8403	Central heating boilers (other than those of heading 8402) and parts thereof:	
8403.10.0000	Boilers	No.
8403.90.0000	Parts	X
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:	
	Auxiliary plant for use with boilers of heading 8402 or 8403:	
8404.10		
8404.10.0010	Economizers	t
8404.10.0050	Other (except parts)	t
8404.20.0000	Condensers for steam or other vapor power units	t
8404.90.0000	Parts	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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:	
8405.10.0000	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
8405.90.0000	Parts	X
8406	Steam turbines and other vapor turbines, and parts thereof:	
8406.10	Turbines for marine propulsion:	
8406.10.1000	Steam turbines	No.
8406.10.9000	Other	No.
	Other turbines:	
8406.81	Of an output exceeding 40 MW (53,619 hp):	
8406.81.1000	Steam turbines	No.
8406.81.9000	Other	No.
8406.82	Of an output not exceeding 40 MW (53,619 hp):	
8406.82.1000	Steam turbines	No.
8406.82.9000	Other	No.
8406.90	Parts:	
8406.90.0040	Of steam turbines	X
8406.90.0080	Other	X
8407	Spark-ignition reciprocating or rotary internal combustion piston engines:	
8407.10	Aircraft engines:	
	For use in civil aircraft:	
	New:	
8407.10.0020	Less than 373 kW (500 hp)	No.
8407.10.0040	373 kW (500 hp) or over	No.
8407.10.0060	Used or rebuilt	No.
8407.10.0090	Other	No.
	Marine propulsion engines:	
8407.21.0000	Outboard motors	No.
8407.29	Other:	
8407.29.0010	Inboard engines with outboard drive	No.
8407.29.0050	Inboard engines with inboard drive	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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:	
8407.31.0000	Of a cylinder capacity not exceeding 50 cc	No.
8407.32	Of a cylinder capacity exceeding 50 cc but not exceeding 250 cc:	
8407.32.2000	To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704	No.
8407.32.5000	Other	No.
8407.33	Of a cylinder capacity exceeding 250 cc but not exceeding 1,000 cc:	
8407.33.2000	To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704	No.
8407.33.5000	Other	No.
8407.34	Of a cylinder capacity exceeding 1,000 cc: To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704:	
8407.34.2030	Of a cylinder capacity not exceeding 2,000 cc	No.
8407.34.2090	Other	No.
8407.34.5000	Other	No.
8407.90	Other engines: To be installed in agricultural or horticultural machinery or equipment:	
8407.90.1010	Less than 4,476 W (6 hp)	No.
8407.90.1050	Other	No.
	Other:	
8407.90.9010	Gas (natural or LP) engines (except gas turbines)	No.
	Other:	
8407.90.9030	Less than 4,476 W (6 hp)	No.
8407.90.9050	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8408	Compression-ignition internal combustion piston engines (diesel or semi-diesel engines):	
8408.10	Marine propulsion engines:	
8408.10.0010	Not exceeding 149.2 kW (200 hp)	No.
8408.10.0020	Exceeding 149.2 kW (200 hp) but not exceeding 223.8 kW (300 hp)	No.
8408.10.0030	Exceeding 223.8 kW (300 hp) but not exceeding 373 kW (500 hp)	No.
8408.10.0040	Exceeding 373 kW (500 hp) but not exceeding 746 kW (1,000 hp)	No.
8408.10.0050	Exceeding 746 kW (1,000 hp)	No.
8408.20	Engines of a kind used for the propulsion of vehicles of chapter 87:	
8408.20.2000	To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704	No.
8408.20.5000	Other	No.
8408.90	Other engines:	
8408.90.1000	To be installed in agricultural or horticultural machinery or equipment	No.
8408.90.9010	Other: Not exceeding 149.2 kW (200 hp)	No.
8408.90.9020	Exceeding 149.2 kW (200 hp) but not exceeding 373 kW (500 hp)	No.
8408.90.9030	Exceeding 373 kW (500 hp) but not exceeding 746 kW (1,000 hp)	No.
8408.90.9040	Exceeding 746 kW (1,000 hp) but not exceeding 1,119 kW (1,500 hp)	No.
8408.90.9050	Exceeding 1,119 kW (1,500 hp)	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8409	Parts suitable for use solely or principally with the engines of heading 8407 or 8408:	
8409.10	For aircraft engines:	
8409.10.0040	For use in civil aircraft	kg
8409.10.0080	Other	kg
	Other:	
8409.91	Suitable for use solely or principally with spark-ignition internal combustion piston engines (including rotary engines):	
8409.91.4000	For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704	kg
8409.91.6000	For marine propulsion engines	kg
8409.91.8000	Other	kg
	Other:	
8409.99		
8409.99.4000	For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704	kg
8409.99.6000	For marine propulsion engines	kg
8409.99.8000	Other	kg
8410	Hydraulic turbines, water wheels and regulators thereof; parts thereof:	
	Hydraulic turbines and water wheels:	
8410.11.0000	Of a power not exceeding 1,000 kW	No.
8410.12.0000	Of a power exceeding 1,000 kW but not exceeding 10,000 kW	No.
8410.13.0000	Of a power exceeding 10,000 kW	No.
8410.90.0000	Parts, including regulators	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8411	Turbojets, turbopropellers and other gas turbines, and parts thereof:	
	Turbojets:	
8411.11	Of a thrust not exceeding 25 kN:	
	Aircraft turbines:	
8411.11.4010	For use in civil aircraft	No.
8411.11.4050	Other	No.
8411.11.8000	Other	No.
8411.12	Of a thrust exceeding 25 kN:	
	Aircraft turbines:	
8411.12.4010	For use in civil aircraft	No.
8411.12.4050	Other	No.
8411.12.8000	Other	No.
	Turbopropellers:	
8411.21	Of a power not exceeding 1,100 kW:	
	Aircraft turbines:	
8411.21.4010	For use in civil aircraft	No.
8411.21.4050	Other	No.
8411.21.8000	Other	No.
8411.22	Of a power exceeding 1,100 kW:	
	Aircraft turbines:	
8411.22.4010	For use in civil aircraft	No.
8411.22.4050	Other	No.
8411.22.8000	Other	No.
	Other gas turbines:	
8411.81	Of a power not exceeding 5,000 kW:	
	Aircraft turbines:	
8411.81.4010	For use in civil aircraft	No.
8411.81.4050	Other	No.
8411.81.8000	Other	No.
8411.82	Of a power exceeding 5,000 kW:	
	Aircraft turbines:	
8411.82.4010	For use in civil aircraft	No.
8411.82.4050	Other	No.
8411.82.8000	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8411 (con.)	Turbojets, turbopropellers and other gas turbines, and parts thereof (con.):	
	Parts:	
8411.91	Of turbojets or turbopropellers:	
8411.91.4000	Parts of nonaircraft turbines	X
	Parts of aircraft turbines:	
8411.91.7010	For use in civil aircraft	X
8411.91.7050	Other	X
8411.99	Other:	
8411.99.4000	Parts of nonaircraft gas turbines	X
	Parts of aircraft gas turbines:	
8411.99.7010	For use in civil aircraft	X
8411.99.7050	Other	X
8412	Other engines and motors, and parts thereof:	
8412.10	Reaction engines other than turbojets:	
8412.10.0010	Missile and rocket engines	No.
8412.10.0090	Other	No.
	Hydraulic power engines and motors:	
8412.21	Linear acting (cylinders):	
8412.21.0015	Tie-rod type	No.
8412.21.0030	Weld fused type	No.
	Other:	
8412.21.0045	Telescoping	No.
8412.21.0060	Rodless	No.
8412.21.0075	Other	No.
8412.29	Other:	
8412.29.4000	Hydrojet engines for marine propulsion	No.
	Other:	
	Unlimited rotary acting:	
8412.29.8015	Gear type	No.
8412.29.8030	Radial piston type	No.
8412.29.8045	Axial piston type	No.
8412.29.8060	Other	No.
8412.29.8075	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8412 (con.)	Other engines and motors, and parts thereof (con.):	
	Pneumatic power engines and motors:	
8412.31	Linear acting (cylinders):	
8412.31.0040	Tie-rod type	No.
8412.31.0080	Other	No.
8412.39	Other:	
8412.39.0040	Unlimited rotary acting	No.
8412.39.0080	Other	No.
8412.80	Other engines and motors:	
8412.80.1000	Spring-operated and weight-operated motors	No.
8412.80.9000	Other	X
8412.90	Parts:	
8412.90.1000	Of hydrojet engines for marine propulsion	X
	Other:	
	Of hydraulic power engines and motors:	
8412.90.9005	Of linear acting engines and motors	X
8412.90.9015	Other	X
	Of pneumatic power engines and motors:	
8412.90.9025	Of linear acting engines and motors	X
8412.90.9035	Other	X
8412.90.9050	Of reaction engines other than turbojets	X
8412.90.9080	Other	X
8413	Pumps for liquids, whether or not fitted with a measuring device; liquid elevators; parts thereof:	
	Pumps fitted or designed to be fitted with a measuring device:	
8413.11.0000	Pumps for dispensing fuel or lubricants, of the type used in filling stations or in garages	No.
8413.19.0000	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8413 (con.)	Pumps for liquids, whether or not fitted with a measuring device; liquid elevators; parts thereof (con.):	
8413.20.0000	Hand pumps, other than those of subheading 8413.11 or 8413.19	No.
8413.30	Fuel, lubricating or cooling medium pumps for internal combustion piston engines:	
8413.30.1000	Fuel-injection pumps for compression-ignition engines	No.
8413.30.9000	Other	No.
8413.40.0000	Concrete pumps	No.
8413.50	Other reciprocating positive displacement pumps:	
8413.50.0010	Oil well and oil field pumps	No.
8413.50.0050	Diaphragm pumps	No.
	Other:	
	Hydraulic fluid power pumps:	
8413.50.0070	Radial piston type	No.
8413.50.0080	Other	No.
8413.50.0090	Other	No.
8413.60	Other rotary positive displacement pumps:	
	Hydraulic fluid power pumps:	
8413.60.0020	Vane type	No.
8413.60.0030	Gear type	No.
8413.60.0040	Other	No.
	Other:	
8413.60.0050	Oil well and oil field pumps	No.
8413.60.0070	Roller pumps	No.
8413.60.0090	Other	No.
8413.70	Other centrifugal pumps:	
8413.70.1000	Stock pumps for use with machines for making cellulosic pulp, paper or paperboard	No.
	Other:	
8413.70.2004	Submersible pumps	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8413 (con.)	Pumps for liquids, whether or not fitted with a measuring device; liquid elevators; parts thereof (con.):	
8413.70 (con.)	Other centrifugal pumps (con):	
	Other (con.):	
	Other:	
	Single-stage, single-suction, close-coupled:	
8413.70.2005	With discharge outlet under 5.08 cm (2 inches) in diameter	No.
8413.70.2015	With discharge outlet 5.08 cm (2 inches) or over in diameter	No.
	Single-stage, single-suction, frame-mounted:	
8413.70.2022	With discharge outlet under 7.6 cm (3 inches) in diameter	No.
8413.70.2025	With discharge outlet 7.6 cm (3 inches) or over in diameter	No.
8413.70.2030	Single-stage, double-suction	No.
8413.70.2040	Multi-stage, single- or double-suction	No.
8413.70.2090	Other	No.
	Other pumps; liquid elevators:	
8413.81	Pumps:	
8413.81.0020	Turbine pumps	No.
8413.81.0030	Household water systems, self-contained; and windmill pumps	No.
8413.81.0040	Other	No.
8413.82.0000	Liquid elevators	No.
	Parts:	
8413.91	Of pumps:	
8413.91.1000	Of fuel-injection pumps for compression-ignition engines	X
	Other:	
8413.91.9010	Of subheading 8413.30.90	X
8413.91.9050	Of hydraulic fluid power pumps	X
8413.91.9520	Other	X
8413.92.0000	Of liquid elevators	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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:	
8414.10.0000	Vacuum pumps	No.
8414.20.0000	Hand- or foot-operated air pumps	No.
8414.30	Compressors of a kind used in refrigerating equipment (including air conditioning):	
8414.30.4000	Not exceeding 1/4 horsepower	No.
	Other:	
	Screw type:	
8414.30.8010	Not exceeding 200 horsepower	No.
8414.30.8020	Exceeding 200 horsepower	No.
	Other:	
	For all refrigerants except ammonia:	
8414.30.8030	For motor vehicles	No.
	Other:	
8414.30.8050	Exceeding 1/4 horsepower but not exceeding 1 horsepower	No.
8414.30.8060	Exceeding 1 horsepower but not exceeding 3 horsepower	No.
8414.30.8070	Exceeding 3 horsepower but not exceeding 10 horsepower	No.
8414.30.8080	Exceeding 10 horsepower	No.
8414.30.8090	For ammonia	No.
8414.40.0000	Air compressors mounted on a wheeled chassis for towing	No.
	Fans:	
8414.51	Table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output not exceeding 125 W:	
8414.51.0010	For permanent installation	No.
8414.51.0090	Other (including portable)	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8414 (con.)	Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, etc. –(con.):	
	Fans (con.):	
8414.59	Other:	
8414.59.3000	Turbochargers and superchargers (fan type)	No.
	Other:	
8414.59.6040	Suitable for use with motor vehicles	No.
8414.59.9080	Other	No.
8414.60.0000	Hoods having a maximum horizontal side not exceeding 120 cm	No.
8414.80	Other, except parts:	
	Air compressors:	
8414.80.0500	Turbochargers and superchargers	No.
	Other:	
	Stationary:	
	Reciprocating:	
8414.80.1618	Not exceeding 11.19 kW (15 hp)	No.
8414.80.1642	Exceeding 11.19 kW (15 hp) but not exceeding 74.6 kW (100 hp)	No.
8414.80.1655	Exceeding 74.6 kW (100 hp)	No.
	Rotary:	
8414.80.1660	Not exceeding 11.19 kW (15 hp)	No.
8414.80.1667	Exceeding 11.19 kW (15 hp) but not exceeding 74.6 kW (100 hp)	No.
8414.80.1675	Exceeding 74.6 kW (100 hp)	No.
8414.80.1680	Other	No.
	Portable:	
8414.80.1685	Under 0.57 cubic meters per minute	No.
8414.80.1690	Other	No.
	Other compressors (including gas compressors):	
8414.80.2005	Refrigerant recovery units	No.
	Other:	
8414.80.2015	Centrifugal and axial	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8414 (con.)	Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, etc. –(con.):	
8414.80 (con.)	Other, except parts (con.):	
	Other compressors (including gas compressors) (con.):	
	Other (con.):	
	Other, including reciprocating and rotary:	
8414.80.2055	Not exceeding 186.5 kW (250 hp)	No.
8414.80.2065	Exceeding 186.5 kW (250 hp) but not exceeding 746 kW (1,000 hp)	No.
8414.80.2075	Exceeding 746 kW (1,000 hp)	No.
8414.80.9000	Other	No.
8414.90	Parts:	
	Of fans (including blowers) and ventilating or recycling hoods:	
8414.90.1040	Of fans of subheading 8414.51.00	X
8414.90.1080	Other	X
	Of compressors:	
8414.90.2015	Of refrigerating and air conditioning compressors	X
8414.90.2095	Other	X
8414.90.9000	Other	X
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	Window or wall types, self-contained or “split-system”:	
	Self-contained:	
8415.10.3040	Less than 2.93 kW per hour (10,000 btu/hr.)	No.
8415.10.3060	2.93 kW per hour or greater but less than 4.98 kW per hour (10,000 thru 16,999 btu/hr.)	No.
8415.10.3080	4.98 kW per hour or greater (17,000 btu/hr. and greater)	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8415 (con.)	Air conditioning machines, comprising a motor-driven fan and elements for changing the temperature etc. –(con.):	
8415.10 (con.)	Window or wall types, self-contained or “split-system” (con.):	
	Other:	
8415.10.6000	Incorporating a refrigerating unit and a valve for reversal of the cooling/heat cycle (reversible heat pumps)	No.
8415.10.9000	Other	No.
8415.20.0000	Of a kind used for persons, in motor vehicles	No.
	Other, except parts:	
8415.81	Incorporating a refrigerating unit and a valve for reversal of the cooling/heat cycle (reversible heat pumps):	
	Self-contained:	
8415.81.0110	Not exceeding 17.58 kW per hour (60,000 btu/hr.) ..	No.
8415.81.0120	Exceeding 17.58 kW per hour (60,000 btu/hr.)	No.
8415.81.0130	Other	No.
8415.82	Other, incorporating a refrigerating unit:	
	Self-contained machines and remote condenser type air conditioners other than year-round units:	
8415.82.0105	Not exceeding 17.58 kW per hour (60,000 btu/hr.) ..	No.
8415.82.0110	Exceeding 17.58 kW per hour (60,000 btu/hr.)	No.
	Year-round units (heating and cooling):	
8415.82.0115	Not exceeding 17.58 kW per hour (60,000 btu/hr.) ..	No.
8415.82.0120	Exceeding 17.58 kW per hour (60,000 btu/hr.)	No.
	Room and central station air conditioning units for use with water chillers:	
8415.82.0130	Room fan coil units	No.
8415.82.0135	Central station air handlers	No.
8415.82.0140	Other (including variable air volume terminal units) ..	No.
8415.82.0150	Dehumidifiers	No.
8415.82.0170	Other air conditioning machines incorporating a refrigerating unit	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8415 (con.)	Air conditioning machines, comprising a motor-driven fan and elements for changing the temperature etc. –(con.):	
	Other, except parts (con.):	
8415.83	Not incorporating a refrigerating unit:	
	Heat exchangers including condensing units:	
	Condensing units:	
8415.83.0050	Not exceeding 17.58 kW per hour (60,000 btu/hr.)	No.
8415.83.0060	Exceeding 17.58 kW per hour (60,000 btu/hr.) ...	No.
8415.83.0070	Other	No.
8415.83.0090	Other air conditioning machines not incorporating a refrigerating unit	No.
8415.90	Parts:	
8415.90.8025	Air conditioning evaporator coils	No.
8415.90.9000	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:	
8416.10.0000	Furnace burners for liquid fuel	No.
8416.20	Other furnace burners, including combination burners:	
8416.20.0040	Gas burners	No.
8416.20.0080	Other	No.
8416.30.0000	Mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances	X
8416.90.0000	Parts	X
8417	Industrial or laboratory furnaces and ovens, including incinerators, nonelectric, and parts thereof:	
8417.10.0000	Furnaces and ovens for the roasting, melting or other heat treatment of ores, pyrites or of metals	No.
8417.20.0000	Bakery ovens, including biscuit ovens	No.
8417.80.0000	Other, except parts	No.
8417.90.0000	Parts	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8418	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps, other than air conditioning machines of heading 8415; parts thereof:	
8418.10	Combined refrigerator-freezers, fitted with separate external doors:	
	Compression type:	
8418.10.0010	Having a refrigerated volume of under 184 liters (6.5 cubic feet)	No.
8418.10.0020	Having a refrigerated volume of 184 liters (6.5 cubic feet) and over but under 269 liters (9.5 cubic feet)	No.
8418.10.0030	Having a refrigerated volume of 269 liters (9.5 cubic feet) and over but under 382 liters (13.5 cubic feet)	No.
8418.10.0040	Having a refrigerated volume of 382 liters (13.5 cubic feet) and over	No.
8418.10.0090	Other (including absorption type)	No.
	Refrigerators, household type:	
8418.21	Compression type:	
8418.21.0010	Having a refrigerated volume of under 184 liters (6.5 cubic feet)	No.
8418.21.0020	Having a refrigerated volume of 184 liters (6.5 cubic feet) and over but under 269 liters (9.5 cubic feet)	No.
8418.21.0030	Having a refrigerated volume of 269 liters (9.5 cubic feet) and over but under 382 liters (13.5 cubic feet)	No.
8418.21.0090	Having a refrigerated volume of 382 liters (13.5 cubic feet) and over	No.
8418.22.0000	Absorption type, electrical	No.
8418.29.0000	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8418 (con.)	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps, etc. –(con.):	
8418.30.0000	Freezers of the chest type, not exceeding 800 liters capacity	No.
8418.40.0000	Freezers of the upright type, not exceeding 900 liters capacity	No.
8418.50	Other refrigerating or freezing chests, cabinets, display counters, show-cases and similar refrigerating or freezing furniture:	
8418.50.0040	Freezing	No.
8418.50.0080	Other	No.
8418.61	Other refrigerating or freezing equipment; heat pumps: Compression type units whose condensers are heat exchangers:	
8418.61.0005①	Heat pumps	No.
	Other:	
	Icemaking machines:	
8418.61.0010①	Self-contained, cube and flake with a capacity not exceeding 227 kg (500 pounds)	No.
8418.61.0015①	Other	No.
8418.61.0020①	Drinking water coolers, self-contained	No.
8418.61.0025①	Soda fountain and beer dispensing equipment	No.
	Centrifugal liquid chilling refrigerating units:	
8418.61.0045①	Open-type	No.
8418.61.0050①	Hermetic-type	No.
8418.61.0060①	Reciprocating liquid chilling refrigerating units	No.
	Other refrigerating or freezing equipment:	
8418.61.0065①	Household	No.
8418.61.0075①	Other	No.
8418.69	Other:	
8418.69.0055	Absorption liquid chilling units	No.
	Other refrigerating or freezing equipment:	
8418.69.0075①	Household	No.
8418.69.0085①	Other	No.
	Parts:	
8418.91.0000	Furniture designed to receive refrigerating or freezing equipment	X

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8418 (con.)	Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps, etc. –(con.):	
	Parts (con.):	
8418.99	Other:	
	Refrigeration condensing units:	
8418.99.0005	Not exceeding 746 W (1 hp)	No.
8418.99.0010	Exceeding 746 W (1 hp) but not exceeding 2.2 kW (3 hp)	No.
8418.99.0015	Exceeding 2.2 kW (3 hp) but not exceeding 7.5 kW (10 hp)	No.
8418.99.0020	Exceeding 7.5 kW (10 hp) but not exceeding 22.3 kW (30 hp)	No.
8418.99.0025	Exceeding 22.3 kW (30 hp)	No.
	Other:	
8418.99.0050	Parts of combined refrigerator–freezers fitted with separate external doors and parts of household type refrigerators	X
8418.99.0060	Other (parts of all other refrigerating or freezing equipment)	X
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:	
8419.11.0000	Instantaneous gas water heaters	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8419 (con.)	Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens etc. –(con.):	
	Instantaneous or storage water heaters, nonelectric (con.):	
8419.19	Other:	
8419.19.0040	Solar water heaters	No.
8419.19.0080	Other	No.
8419.20.0000	Medical, surgical or laboratory sterilizers	No.
	Dryers:	
8419.31.0000	For agricultural products	No.
8419.32	For wood, paper pulp, paper or paperboard:	
8419.32.1000	For wood	No.
8419.32.5000	Other	No.
8419.39	Other:	
8419.39.0140	For food and beverages	No.
8419.39.0180	Other	No.
8419.40	Distilling or rectifying plant:	
8419.40.0040	For food and beverages	No.
8419.40.0080	Other	No.
8419.50.0000	Heat exchange units	No.
8419.60.0000	Machinery for liquefying air or other gases	No.
	Other machinery, plant or equipment:	
8419.81	For making hot drinks or for cooking or heating food:	
8419.81.5000	Cooking stoves, ranges and ovens	No.
	Other:	
8419.81.9040	Of a type used in restaurants, hotels or similar locations	No.
8419.81.9080	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8419 (con.)	Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens etc. –(con.):	
	Other machinery, plant or equipment (con.):	
8419.89	Other:	
8419.89.1000	For making paper pulp, paper or paperboard	No.
	Other:	
	Designed for cooling:	
8419.89.9520	For food and beverages	No.
8419.89.9540	Other	No.
	Other:	
8419.89.9560	For food and beverages	No.
8419.89.9580①	For rubber and plastics	No.
8419.89.9585①	For other materials	No.
8419.90	Parts:	
8419.90.2000	Of machinery and plant for making paper pulp, paper or paperboard	X
	Other:	
8419.90.8500	Of electromechanical tools for working in the hand with self-contained motor	X
	Other:	
8419.90.9520①	Of apparatus of a type used in restaurants, hotels or similar locations	X
8419.90.9540①	Of medical, surgical or laboratory sterilizers	X
8419.90.9550	Other	X
8420	Calendering or other rolling machines, other than for metals or glass, and cylinders therefor; parts thereof:	
8420.10	Calendering or other rolling machines:	
8420.10.1000	Textile calendering or rolling machines	No.
8420.10.2000	Calendering or similar rolling machines for making paper pulp, paper or paperboard	No.
	Other:	
8420.10.9040	Calendering or other rolling machines for rubber and plastics	No.
8420.10.9080	Other	No.

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8420 (con.)	Calendering or other rolling machines, other than for metals or glass, and cylinders therefor; parts thereof (con.):	
	Parts:	
8420.91.0000	Cylinders	No.
8420.99.0000	Other	X
8421	Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases; parts thereof:	
	Centrifuges, including centrifugal dryers:	
8421.11.0000	Cream separators	No.
8421.12.0000	Clothes dryers	No.
8421.19.0000	Other	No.
	Filtering or purifying machinery and apparatus for liquids:	
8421.21.0000	For filtering or purifying water	No.
8421.22.0000	For filtering or purifying beverages other than water	No.
8421.23.0000	Oil or fuel filters for internal combustion engines	X
8421.29	Other:	
8421.29.0005	Refrigerant recovery and recycling units	No.
	Other:	
8421.29.0015	Oil-separation equipment	No.
	Other:	
8421.29.0040	Hydraulic fluid power filters rated at 1,000 kPa or greater	No.
8421.29.0065	Other	No.
	Filtering or purifying machinery and apparatus for gases:	
8421.31.0000	Intake air filters for internal combustion engines	X
8421.39	Other:	
8421.39.4000	Catalytic converters	No.
	Other:	
	Dust collection and air purification equipment:	
8421.39.8005	For machine tools of heading 8456 through 8465, inclusive	X
8421.39.8015	Other	X

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8421 (con.)	Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases; etc. –(con): Filtering or purifying machinery and apparatus for gases (con.):	
8421.39 (con.)	Other (con.): Other (con.): Other:	
8421.39.8020	Industrial gas cleaning equipment: Electrostatic precipitators	No.
8421.39.8030	Other	No.
8421.39.8040	Gas separation equipment	No.
8421.39.8060	Other: Pneumatic fluid power filters, rated at 550 kPa or greater	No.
8421.39.8090	Other	X
8421.91.0000	Parts: Of centrifuges, including centrifugal dryers	X
8421.99	Other:	
8421.99.0040	Parts for machinery and apparatus for filtering or purifying water	X
8421.99.0080	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:	
8422.11.0000	Dishwashing machines: Of the household type	No.
8422.19.0000	Other	No.
8422.20.0000	Machinery for cleaning or drying bottles or other containers	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8422 (con.)	Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filing, closing, etc. –(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:	
8422.30.1100	Can-sealing machines No. Other:	
8422.30.9110	Machines for aerating beverages No.	
8422.30.9120	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:	
8422.30.9130	Vacuum or gas packaging No.	
8422.30.9140	Other No.	
	Machines which perform only the following operations: capping, lidding, sealing or closing:	
8422.30.9150	Vacuum or gas packaging No.	
8422.30.9160	Other No.	
8422.30.9170	Other No.	
	Machinery for filling, closing, sealing, capsuling or labeling boxes, bags or similar containers:	
8422.30.9180	Machines for opening, filling and closing bags ... No.	
8422.30.9190	Other No.	
8422.40.0002	Other packing or wrapping machinery (including heat-shrink wrapping machinery) No.	
8422.90	Parts:	
	Of dishwashing machines:	
8422.90.0540	Of the household type X	
8422.90.0580	Other X	
8422.90.9502	Other X	

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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	Personal weighing machines, including baby scales; household scales:	
8423.10.0010	Digital electronic type	No.
8423.10.0050	Other	No.
8423.20.0000	Scales for continuous weighing of goods on conveyors	No.
8423.30.0000	Constant-weight scales and scales for discharging a pre-determined weight of material into a bag or container, including hopper scales	No.
	Other weighing machinery:	
8423.81	Having a maximum weighing capacity not exceeding 30 kg:	
	Digital electronic type:	
8423.81.0010	Counting scales	No.
8423.81.0020	Retail scales, non-computing	No.
8423.81.0030	Retail scales, computing	No.
8423.81.0040	Other	No.
8423.81.0050	Other	No.
8423.82.0000	Having a maximum weighing capacity exceeding 30 kg but not exceeding 5,000 kg	No.
8423.89.0000	Other	No.
8423.90	Weighing machine weights of all kinds; parts of weighing machinery:	
8423.90.0040	Digital weight indicators	No.
8423.90.0080	Other	X
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:	
8424.10.0000	Fire extinguishers, whether or not charged	No.
8424.20.0000	Spray guns and similar appliances	X

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8424 (con.)	Mechanical appliances (whether or not hand operated) for projecting, dispersing or spraying liquids etc. –(con.):	
8424.30	Steam or sand blasting machines and similar jet projecting machines:	
8424.30.1000	Sand blasting machines	No.
8424.30.9000	Other	X
	Other appliances:	
8424.81	Agricultural or horticultural:	
8424.81.1000	Sprayers (except sprayers, self-contained, having a capacity not over 20 liters (5.2 gals.))	X
	Other:	
	Irrigation equipment:	
8424.81.9010	Self-propelled, center pivot	No.
8424.81.9020	Other (including lateral move)	No.
	Other:	
8424.81.9040	Sprayers, self-contained, having a capacity not over 20 liters	No.
8424.81.9090	Other	No.
8424.89	Other:	
8424.89.3000	Spraying appliances designed for etching, stripping or cleaning semiconductor wafers	No.
8424.89.7010	Sprinkler systems (fire extinguishing equipment)	No.
8424.89.7095	Other	No.
8424.90	Parts:	
8424.90.2000	Of sand blasting machines	X
	Other:	
8424.90.9040	Of steam and similar jet projecting machines	X
8424.90.9500	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:	
8425.11.0000	Powered by electric motor	No.
8425.19.0000	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8425 (con.)	Pulley tackle and hoists other than skip hoists; winches and capstans; jacks (con.):	
8425.20.0000	Pit-head winding gear; winches specially designed for use underground	No.
	Other winches; capstans:	
8425.31.0000	Powered by electric motor	No.
8425.39.0000	Other	No.
	Jacks; hoists of a kind used for raising vehicles:	
8425.41.0000	Built-in jacking systems of a type used in garages	No.
8425.42.0000	Other jacks and hoists, hydraulic	No.
8425.49.0000	Other	No.
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:	
8426.11.0000	Overhead traveling cranes on fixed support	No.
8426.12.0000	Mobile lifting frames on tires and straddle carriers	No.
8426.19.0000	Other	No.
8426.20.0000	Tower cranes	No.
8426.30.0000	Portal or pedestal jib cranes	No.
	Other machinery, self-propelled:	
8426.41	On tires:	
8426.41.0005	Works trucks fitted with a crane	No.
	Other:	
8426.41.0010	Cable operated	No.
8426.41.0090	Other	No.
8426.49	Other:	
8426.49.0010	Cable operated	No.
8426.49.0090	Other	No.
	Other machinery:	
8426.91.0000	Designed for mounting on road vehicles	No.
8426.99.0000	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8427	Fork-lift trucks; other works trucks fitted with lifting or handling equipment:	
8427.10	Self-propelled trucks powered by an electric motor:	
8427.10.4000	Rider-type, counterbalanced fork-lift trucks	No.
	Other:	
8427.10.8010	Operator riding	No.
8427.10.8060	Automated guided vehicle (AGV)	No.
8427.10.8090	Other	No.
8427.20	Other self-propelled trucks:	
8427.20.4000	Rider-type, counterbalanced fork-lift trucks	No.
	Other:	
8427.20.8020	Aerial work platforms	No.
8427.20.8040	Other	No.
8427.90	Other trucks:	
8427.90.0020	Aerial work platforms	No.
8427.90.0040	Other	No.
8428	Other lifting, handling, loading or unloading machinery (for example, elevators, escalators, conveyors, teleferics):	
8428.10.0000	Passenger or freight elevators other than continuous action; skip hoists	No.
8428.20	Pneumatic elevators and conveyors:	
8428.20.0010	Conveyors	No.
8428.20.0050	Elevators	No.
	Other continuous-action elevators and conveyors, for goods or materials:	
8428.31.0000	Specially designed for underground use	No.
8428.32.0000	Other, bucket type	No.
8428.33.0000	Other, belt type	No.
8428.39.0000	Other	No.
8428.40.0000	Escalators and moving walkways	No.
8428.50.0000	Mine wagon pushers, locomotive or wagon traversers, wagon tippers and similar railway wagon handling equipment	No.
8428.60.0000	Teleferics, chair lifts, ski draglines; traction mechanisms for funiculars	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8428 (con.)	Other lifting, handling, loading or unloading machinery (for example, elevators, escalators, conveyors, teleferics) (con.):	
8428.90	Other machinery:	
8428.90.0006	Woodland log handling equipment (other than skidders)	No.
	Other:	
8428.90.0015	Industrial robots	No.
8428.90.0020	Oil and gas field machinery	No.
8428.90.0030	Sidebooms and pipehandlers	No.
8428.90.0040	Loaders, underground mine type	No.
8428.90.0095	Other	No.
8429	Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers:	
	Bulldozers and angledozers:	
8429.11	Track laying:	
8429.11.0010	New	No.
8429.11.0090	Used or rebuilt	No.
8429.19	Other:	
8429.19.0010	New	No.
8429.19.0090	Used or rebuilt	No.
8429.20.0000	Graders and levelers	No.
8429.30	Scrapers:	
	New:	
8429.30.0020	Not exceeding 13.7 m ³ (18 cu. yds.)	No.
8429.30.0040	Exceeding 13.7 m ³ (18 cu. yds)	No.
8429.30.0060	Used or rebuilt	No.
8429.40	Tamping machines and road rollers:	
	New:	
8429.40.0020	Vibratory	No.
8429.40.0040	Other (nonvibratory)	No.
8429.40.0060	Used or rebuilt	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8429 (con.)	Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel etc. –(con):	
	Mechanical shovels, excavators and shovel loaders:	
8429.51	Front-end shovel loaders:	
	Wheel type:	
	New:	
	Integral tractor shovel loaders, rear engine mounted:	
8429.51.1005	2 wheel drive No.	
	4 wheel drive with a bucket capacity of:	
8429.51.1015	Under 1.5 m ³ (2 cu. yds) No.	
8429.51.1025	At least 1.5 m ³ (2 cu. yds.) but under 2.2 m ³ (2 ½ cu. yds) No.	
8429.51.1030	At least 2.2 m ³ (2 ½ cu. yds.) but under 2.9 m ³ (3 ½ cu. yds.) No.	
8429.51.1035	At least 2.9 m ³ (3 ½ cu. yds.) but under 3.8 m ³ (5 cu. yds.) No.	
8429.51.1040	At least 3.8 m ³ (5 cu. yds.) but under 5.2 m ³ (6 ½ cu. yds.) No.	
8429.51.1045	At least 5.2 m ³ (6 ½ cu. yds.) but under 7.6 m ³ (10 cu. yds.) No.	
8429.51.1050	At least 7.6 m ³ (10 cu. yds.) but under 11.4 m ³ (15 cu. yds.) No.	
8429.51.1055	11.4 m ³ (15 cu. yds.) and over No.	
8429.51.1060	Other No.	
8429.51.1065	Used or rebuilt No.	

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8429 (con.)	Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel etc. –(con):	
	Mechanical shovels, excavators and shovel loaders (con):	
8429.51	Front-end shovel loaders (con.):	
	Other:	
	New:	
8429.51.5010	Less than 44.7 kW (60 net engine hp)	No.
8429.51.5020	At least 44.7 kW (60 net engine hp) but under 67.1 kW (90 net engine hp)	No.
8429.51.5030	At least 67.1 kW (90 net engine hp) but under 93.2 kW (125 net engine hp)	No.
8429.51.5040	At least 93.2 kW (125 net engine hp) but under 119.3 kW (160 net engine hp)	No.
8429.51.5050	119.3 kW (160 net engine hp) and over	No.
8429.51.5060	Used or rebuilt	No.
8429.52	Machinery with a 360 revolving superstructure: Backhoes, shovels, clamshells, and draglines:	
	New:	
	Crawler mounted:	
8429.52.1010	Hydraulic	No.
8429.52.1020	Other (including cable operated)	No.
	Other (except truck mounted of chapter 87):	
8429.52.1030	Hydraulic	No.
8429.52.1040	Other (including cable operated)	No.
8429.52.1050	Used or rebuilt	No.
	Other:	
8429.52.5010	New	No.
8429.52.5090	Used or rebuilt	No.
8429.59	Other:	
	Backhoes, shovels, clamshells and draglines:	
	New:	
8429.59.1030	Backhoes	No.
8429.59.1060	Other	No.
8429.59.1090	Used or rebuilt	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8429 (con.)	Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel etc. –(con):	
	Mechanical shovels, excavators and shovel loaders (con):	
8429.59 (con.)	Other (con.):	
	Other:	
	New:	
	Ditchers and trenchers (self-propelled):	
8429.59.5020	Ladder type	No.
8429.59.5040	Other	No.
8429.59.5060	Other	No.
8429.59.5080	Used or rebuilt	No.
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:	
8430.10.0000	Pile-drivers and pile-extractors	No.
8430.20	Snowplows and snowblowers:	
	Snowblowers (throwers):	
8430.20.0030	Attachment type	No.
8430.20.0060	Other	No.
8430.20.0090	Other	No.
	Coal or rock cutters and tunneling machinery:	
8430.31.0000	Self-propelled	No.
8430.39.0000	Other	No.
	Other boring or sinking machinery:	
8430.41.0000	Self-propelled	No.
8430.49	Other:	
8430.49.4000	Offshore oil and natural gas drilling and production platforms	kg
	Other:	
	For oil and gas field drilling:	
8430.49.8010	Rotary	No.
8430.49.8020	Other	No.
	For water well drilling:	
8430.49.8030	Rotary	No.
8430.49.8040	Other	No.
8430.49.8050	Other (including percussion type rock drills)	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8430 (con.)	Other moving, grading, leveling, scraping, excavating, tamping, compacting, extracting or boring machinery, etc. –(con.):	
8430.50.0000	Other machinery, self-propelled	No.
	Other machinery, not self-propelled:	
8430.61.0000	Tamping or compacting machinery	No.
8430.69.0100	Other	No.
8431	Parts suitable for use solely or principally with the machinery of headings 8425 to 8430:	
8431.10	Of machinery of heading 8425:	
8431.10.0010	Of machinery of subheading 8425.11 or 8425.19	X
8431.10.0090	Other	X
8431.20.0000	Of machinery of heading 8427	X
	Of machinery of heading 8428:	
8431.31	Of passenger or freight elevators other than continuous action, skip hoists or escalators:	
8431.31.0020	Of skip hoists	X
8431.31.0040	Of escalators	X
8431.31.0060	Other	X
8431.39	Other:	
8431.39.0010	Of elevators and conveyors	X
	Other:	
8431.39.0050	Of oil and gas field machinery	X
8431.39.0090	Other	X
	Of machinery of heading 8426, 8429 or 8430:	
8431.41	Buckets, shovels, grabs and grips:	
8431.41.0020	Shovel attachments	No.
8431.41.0040	Clamshell (grapple) attachments	No.
8431.41.0060	Dragline buckets	No.
8431.41.0080	Other	No.
8431.42.0000	Bulldozer or angledozer blades	No.
8431.43	Parts for boring or sinking machinery of subheading 8430.41 or 8430.49:	
8431.43.4000	Of offshore oil and natural gas drilling and production platforms	X
	Other:	
8431.43.8010	Of oil and gas field machinery	X
8431.43.8090	Of other boring or sinking machinery	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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:	
	Of machinery of heading 8426:	
8431.49.1010	Of machinery of subheading 8426.11, 8426.19 and 8426.30	X
8431.49.1060	Of mobile lifting frames, straddle carriers, and works trucks fitted with a crane	X
8431.49.1090	Other	X
	Attachments for mounting on machinery:	
8431.49.9005	Backhoe attachments	No.
8431.49.9010	Front-end loader attachments	No.
8431.49.9015	Rippers and rooters	No.
8431.49.9020	Other	No.
	Other:	
8431.49.9027	Parts of coal or rock cutters and tunneling machinery	X
8431.49.9037	Parts of backhoes, shovels, clamshells and draglines	X
	Other:	
8431.49.9045	Scraper bowls for scrapers of subheading 8429.30 and 8430.69①	No.
8431.49.9057	Other	X
8432	Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports ground rollers; parts thereof:	
8432.10	Plows:	
8432.10.0020	Moldboard plows except listers	No.
8432.10.0040	Disc plows	No.
8432.10.0060	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8432 (con.)	Agricultural, horticultural or forestry machinery for soil preparation or cultivation; etc. –(con.):	
	Harrows, scarifiers, cultivators, weeders and hoes:	
8432.21.0000	Disc harrows	No.
8432.29	Other:	
	Cultivators, weeders and hoes:	
8432.29.0040	Cultivators, tractor drawn or for tractor mounting	No.
8432.29.0060	Walk behind rotary tillers	No.
8432.29.0080	Other	No.
8432.29.0090	Other	No.
8432.30	Seeders, planters and transplanters:	
8432.30.0010	Planters and transplanters	No.
8432.30.0090	Seeders (including drills)	No.
8432.40.0000	Manure spreaders and fertilizer distributors	No.
8432.80.0000	Other machinery	No.
8432.90	Parts:	
8432.90.0005	Of plows	X
8432.90.0015	Of harrows, scarifiers, cultivators, weeders and hoes	X
8432.90.0030	Of seeders, planters, transplanters, manure spreaders and fertilizer distributors	X
8432.90.0080	Of other machinery	X
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	Powered, with the cutting device rotating in a horizontal plane:	
8433.11.0010	Electric mowers, including battery operated	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8433 (con.)	Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, etc. –(con.):	
	Mowers for lawns, parks or sports grounds (con.):	
8433.11	Powered, with the cutting device rotating in a horizontal plane (con.):	
	Riding mowers, other than electric:	
8433.11.0020	Under 5.2 kW (7 hp)	No.
8433.11.0030	5.2 kW (7 hp) and over but under 7.46 kW (10 hp) ...	No.
8433.11.0040	7.46 kW (10 hp) and over	No.
	Other:	
8433.11.0050	Under 3.7 kW (5 hp)	No.
8433.11.0060	3.7 kW (5 hp) and over	No.
8433.19	Other:	
8433.19.0010	Greens mowers	No.
8433.19.0020	Gang cutting units	No.
8433.19.0030	Other riding mowers	No.
	Other:	
8433.19.0040	Gasoline powered	No.
8433.19.0050	Other	No.
8433.20	Other mowers, including cutter bars for tractor mounting:	
	Tractor drawn or for tractor mounting:	
8433.20.0020	Rotary cutter type	No.
8433.20.0040	Other (including cutter bar type)	No.
8433.20.0060	Other	No.
8433.30.0000	Other haymaking machinery	No.
8433.40.0000	Straw or fodder balers, including pick-up balers	No.
	Other harvesting machinery; threshing machinery:	
8433.51	Combine harvester-threshers:	
8433.51.0010	Self-propelled	No.
8433.51.0090	Other	No.
8433.52.0000	Other threshing machinery	No.
8433.53.0000	Root or tuber harvesting machines	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8433 (con.)	Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, etc. –(con.): Other harvesting machinery; threshing machinery (con.):	
8433.59	Other:	
8433.59.0010	Field forage harvesters	No.
8433.59.0090	Other	No.
8433.60	Machines for cleaning, sorting or grading eggs, fruit or other agricultural produce:	
8433.60.0010	Machines for cleaning, sorting or grading eggs	No.
8433.60.0090	Other	No.
8433.90	Parts:	
8433.90.1000	Of mowers for lawns, parks or sports grounds	X
	Other:	
	Of other mowers, harvesting machines and threshing machines:	
8433.90.5020	Of haying machines and balers	X
8433.90.5040	Other	X
8433.90.5060	Of machines for cleaning, sorting, or grading eggs	X
8433.90.5080	Of machines for cleaning, sorting or grading fruit or other agricultural produce	X
8434	Milking machines and dairy machinery, and parts thereof:	
8434.10.0000	Milking machines	No.
8434.20.0000	Dairy machinery	No.
8434.90.0000	Parts	X
8435	Presses, crushers and similar machinery, used in the manufacture of wine, cider, fruit juices or similar beverages; parts thereof:	
8435.10.0000	Machinery	No.
8435.90.0000	Parts	X
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:	
8436.10.0000	Machinery for preparing animal feeds	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8436 (con.)	Other agricultural, horticultural, forestry, poultry-keeping or bee-keeping machinery, including germination plant etc. -(con.):	
	Poultry-keeping machinery; poultry incubators and brooders:	
8436.21.0000	Poultry incubators and brooders	No.
8436.29.0000	Other	No.
8436.80	Other machinery:	
8436.80.0020	Forestry machinery	No.
	Other:	
8436.80.0040	Barn and barnyard machinery (including mechanized hog and cattle feeding and watering equipment)	No.
8436.80.0060	Machinery for preparing crops for market or for use	No.
8436.80.0080	Other	No.
	Parts:	
8436.91.0000	Of poultry-keeping machinery or poultry incubators and brooders	X
8436.99	Other:	
8436.99.0020	Of forestry machinery	X
	Other:	
8436.99.0040	Of barn and barnyard machines (including mechanized hog and cattle feeding and watering equipment)	X
8436.99.0060	Of machines for preparing crops for market or for use (including machines of subheading 8436.10)	X
8436.99.0080	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:	
8437.10.0000	Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables	No.
8437.80.0000	Other machinery	No.
8437.90.0000	Parts	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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:	
8438.10.0000	Bakery machinery and machinery for the manufacture of macaroni, spaghetti or similar products	No.
8438.20.0000	Machinery for the manufacture of confectionery, cocoa or chocolate	No.
8438.30.0000	Machinery for sugar manufacture	No.
8438.40.0000	Brewery machinery	No.
8438.50	Machinery for the preparation of meat or poultry:	
8438.50.0010	Meat- and poultry- packing plant machinery	No.
8438.50.0090	Other	No.
8438.60.0000	Machinery for the preparation of fruits, nuts or vegetables	No.
8438.80.0000	Other machinery	No.
8438.90.0000	Parts	X
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	Machinery for making pulp of fibrous cellulosic material:	
8439.10.0010	New	No.
8439.10.0090	Used or rebuilt	No.
8439.20	Machinery for making paper or paperboard:	
8439.20.0010	New	No.
8439.20.0090	Used or rebuilt	No.
8439.30.0000	Machinery for finishing paper or paperboard	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8439 (con.)	Machinery for making pulp of fibrous cellulosic material or for making or finishing paper or paperboard etc. –(con.):	
	Parts:	
8439.91.0000	Of machinery for making pulp of fibrous cellulosic material	X
8439.99	Other:	
8439.99.1000	Of machinery for making paper or paperboard	X
8439.99.5000	Of machinery for finishing paper or paperboard	X
8440	Bookbinding machinery, including book–sewing machines, and parts thereof:	
8440.10.0000	Machinery	No.
8440.90.0000	Parts	X
8441	Other machinery for making up paper pulp, paper or paperboard, including cutting machines of all kinds, and parts thereof:	
8441.10.0000	Cutting machines	No.
8441.20.0000	Machines for making bags, sacks or envelopes	No.
8441.30.0000	Machines for making cartons, boxes, cases, tubes, drums or similar containers, other than by molding	No.
8441.40.0000	Machines for molding articles in paper pulp, paper or paperboard	No.
8441.80.0000	Other machinery	No.
8441.90.0000	Parts	X
8442	Machinery, apparatus and equipment (other than the machine tools of headings 8456 to 8465), for type–founding or type–setting, for preparing or making printing blocks, plates, cylinders or other printing components; printing type, blocks, plates, cylinders and other printing components; blocks, plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished); parts thereof:	
8442.10.0000	Phototypesetting and composing machines	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8442 (con.)	Machinery, apparatus and equipment (other than the machine tools of headings 8456 to 8465), for type–founding etc. –(con.):	
8442.20.0000	Machinery, apparatus and equipment for typesetting or composing by other processes, with or without founding device	No.
8442.30.0000	Other machinery, apparatus and equipment	No.
8442.40.0000	Parts of the foregoing machinery, apparatus or equipment	X
8442.50	Printing type, blocks, plates, cylinders and other printing components; blocks, plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished):	
8442.50.5000	Planed, grained, polished or otherwise prepared for engraving or impressing	X
8442.50.8000	Other	X
8443	Printing machinery used for printing by means of printing type, blocks, plates, cylinders and other printing components of heading 8442; ink jet printing machines other than those of heading 8471; machines for uses ancillary to printing; parts thereof:	
	Offset printing machinery:	
8443.11.0000	Reel–fed	No.
8443.12.0000	Sheet–fed, office type (sheet size not exceeding 22 x 36 cm)	No.
8443.19.0000	Other	No.
	Letterpress printing machinery, excluding flexographic printing:	
8443.21.0000	Reel–fed	No.
8443.29.0000	Other	No.
8443.30.0000	Flexographic printing machinery	No.
8443.40.0000	Gravure printing machinery	No.
	Other printing machinery:	
8443.51	Ink jet printing machinery:	
8443.51.1000	Textile printing machinery	X
8443.51.5000	Other	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8443 (con.)	Printing machinery used for printing by means of printing type, blocks, plates, cylinders and other printing etc. –(con.):	
	Other printing machinery (con.):	
8443.59	Other:	
8443.59.1000	Textile printing machinery	X
8443.59.9000	Other	X
8443.60.0000	Machines for uses ancillary to printing	X
8443.90	Parts:	
8443.90.1000	Of textile printing machinery	X
8443.90.9000	Other	X
8444	Machines for extruding, drawing, texturing or cutting manmade textile materials:	
8444.00.0010	Texturing machines	No.
8444.00.0090	Other	No.
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:	
8445.11.0000	Carding machines	No.
8445.12.0000	Combing machines	No.
8445.13.0000	Drawing or roving machines	No.
8445.19	Other:	
8445.19.0040	Cotton gins	No.
8445.19.0080	Other	No.
8445.20.0000	Textile spinning machines	No.
8445.30	Textile doubling or twisting machines:	
8445.30.0010	Textile twisting machines	No.
8445.30.0090	Other	No.
8445.40.0000	Textile winding (including weft winding) or reeling machines	No.
8445.90.0000	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8446	Weaving machines (looms):	
8446.10	For weaving fabrics of a width not exceeding 30 cm:	
8446.10.0010	Power looms	No.
8446.10.0090	Other	No.
	For weaving fabrics of a width exceeding 30 cm (11.7 inches), shuttle type:	
8446.21.0000	Power looms	No.
8446.29.0000	Other	No.
8446.30.0000	For weaving fabrics of a width exceeding 30 cm, shuttleless type	No.
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:	
	With cylinder diameter not exceeding 165 mm:	
8447.11	For knitting hosiery	No.
8447.11.1000	Other	No.
8447.11.9000		
	Circular knitting machines:	
	With cylinder diameter exceeding 165 mm:	
8447.12	For knitting hosiery	No.
8447.12.1000	Other	No.
8447.12.9000		
8447.20.0000	Flat knitting machines; stitch-bonding machines	No.
8447.90.0000	Other	No.
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, heald and heald frames, hosiery needles):	
	Auxiliary machinery for machines of heading 8444, 8445, 8446 or 8447:	
8448.11.0000	Dobbies and Jacquards; card reducing, copying, punching or assembling machines for use therewith	X
8448.19.0000	Other	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8448 (con.)	Auxiliary machinery for use with machines of heading 8444, 8445, 8446 or 8447 (for example, dobbies, etc. –(con.):	
8448.20	Parts and accessories of machines of heading 8444 or of their auxiliary machinery:	
8448.20.1000	Of machines for extruding or drawing manmade textile filaments	X
	Other:	
8448.20.5010	Of texturing machines	X
8448.20.5090	Other	X
	Parts and accessories of machines of heading 8445 or of their auxiliary machinery:	
8448.31.0000	Card clothing	m ²
8448.32	Of machines for preparing textile fibers, other than card clothing:	
8448.32.0010	Of cotton gins	X
8448.32.0090	Other	X
8448.33.0000	Spindles, spindle flyers, spinning rings and ring travellers ..	X
8448.39	Other:	
8448.39.1000	Parts of spinning, doubling or twisting machines	X
8448.39.5000	Parts of winding or reeling machines	X
8448.39.9000	Other	X
	Parts and accessories of weaving machines (looms) or of their auxiliary machinery:	
8448.41.0000	Shuttles	X
8448.42.0000	Reeds for looms, healds and heald-frames	X
8448.49.0000	Other	X
	Parts and accessories of machines of heading 8447 or of their auxiliary machinery:	
8448.51	Sinkers, needles and other articles used in forming stitches:	
8448.51.4000	Needles for knitting machines	Thsnds
8448.51.5000	Other	X
8448.59	Other:	
8448.59.1000	Parts of knitting machines	X
8448.59.5000	Other	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8449.00.0000	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	X
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	Fully automatic machines:	
8450.11.0010	Coin operated	No.
8450.11.0090	Other	No.
8450.12.0000	Other machines with built-in centrifugal dryer	No.
8450.19.0000	Other	No.
8450.20	Machines, each of a dry linen capacity exceeding 10 kg:	
8450.20.0010	Coin operated	No.
8450.20.0090	Other	No.
8450.90.0000	Parts	X
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:	
8451.10.0000	Dry-cleaning machines	No.
	Drying machines (except centrifugal type of heading 8421):	
	Each of a dry linen capacity not exceeding 10 kg:	
8451.21		
8451.21.0010	Coin operated	No.
8451.21.0090	Other	No.
8451.29	Other:	
8451.29.0010	For drying made up articles	No.
8451.29.0090	Other	No.
8451.30.0000	Ironing machines and presses (including fusing presses)	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8451 (con.)	Machinery (other than machines of heading 8450) for washing, cleaning, wringing, drying, ironing, pressing etc. –(con.):	
8451.40.0000	Washing, bleaching or dyeing machines	No.
8451.50.0000	Machines for reeling, unreeling, folding, cutting or pinking textile fabrics	No.
8451.80.0000	Other machinery	No.
8451.90	Parts:	
8451.90.0010	Of machines for washing, dry-cleaning, ironing, pressing or drying made up textile articles or of other household or laundry type machines	X
	Other:	
8451.90.0020	Of machines for bleaching, dyeing, washing or cleaning	X
8451.90.0090	Other	X
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:	
8452.10.0000	Sewing machines of the household type	No.
	Other sewing machines:	
8452.21.0000	Automatic units	No.
8452.29.0000	Other	No.
8452.30.0000	Sewing machine needles	Thsnds
8452.40.0000	Furniture, bases and covers for sewing machines, and parts thereof	X
8452.90	Other parts of sewing machines:	
8452.90.0010	Of household machines	X
8452.90.0090	Other	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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:	
8453.10.0000	Machinery for preparing, tanning or working hides, skins or leather	No.
8453.20.0000	Machinery for making or repairing footwear	No.
8453.80.0000	Other machinery	No.
8453.90.0000	Parts	X
8454	Converters, ladles, ingot molds and casting machines, of a kind used in metallurgy or in metal foundries, and parts thereof:	
8454.10.0000	Converters	No.
8454.20	Ingot molds and ladles:	
8454.20.0010	Ingot molds for steel ingots	No. kg
8454.20.0090	Other	kg
8454.30	Casting machines:	
8454.30.0010	Die casting machines	No.
8454.30.0090	Other	No.
8454.90	Parts:	
	Of casting machines:	
8454.90.0030	Of die casting machines	X
8454.90.0060	Other	X
8454.90.0090	Other	X
8455	Metal-rolling mills and rolls therefor; parts thereof:	
8455.10.0000	Tube mills	No.
	Other rolling mills:	
8455.21.0000	Hot or combination hot and cold	No.
8455.22.0000	Cold	No.
8455.30	Rolls for rolling mills:	
8455.30.0010	Gray iron	kg
8455.30.0050	Cast steel	kg
8455.30.0090	Other	kg
8455.90.0000	Other parts	kg

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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:	
8456.10.0000	Operated by laser or other light or photon beam processes	No.
8456.20.0000	Operated by ultrasonic processes	No.
8456.30.0000	Operated by electro-discharge processes	No.
	Other:	
8456.91.0000	For dry etching patterns on semiconductor materials	No.
8456.99	Other:	
	For working metal:	
8456.99.1000	Focused ion beam milling machines designed to produce or repair masks and reticles of semiconductor device designs	No.
	Other:	
	Numerically controlled:	
8456.99.3005	Of a kind used for cutting metal by electro-chemical process	No.
8456.99.3040	Other	No.
	Other:	
8456.99.3060	Of a kind used for cutting metal by electro-chemical process	No.
8456.99.3080	Other	No.
	Other:	
8456.99.5000	Other	No.
8457	Machining centers, unit construction machines (single station) and multistation transfer machines, for working metal:	
8457.10	Machining centers:	
8457.10.0005	Used or rebuilt	No.
	Other:	
	With automatic tool changers:	
	Vertical-spindle machines with a Y-axis travel of:	
8457.10.0015	Not over 660 mm (26 inches)	No.
8457.10.0025	Over 660 mm (26 inches)	No.
8457.10.0036②	Horizontal machining centers with ATC	No.
8457.10.0039②	Other	No.
8457.10.0045	Other, including indexing turrets and universal indexing heads②	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8457 (con.)	Machining centers, unit construction machines (single station) and multistation transfer machines, for working metal (con.):	
8457.20	Unit construction machines (single station):	
8457.20.0010	Numerically controlled	No.
8457.20.0090	Other	No.
8457.30	Multistation transfer machines:	
8457.30.0010	Numerically controlled	No.
8457.30.0090	Other	No.
8458	Lathes (including turning centers) for removing metal:	
	Horizontal lathes:	
8458.11	Numerically controlled:	
8458.11.0005	Used or rebuilt	No.
	Other:	
8458.11.0010	Multiple spindle	No.
	Other:	
8458.11.0030	With a power rating of less than 18.65 kW (25 hp)	No.
8458.11.0050	With a power rating of 18.65 kW (25 hp) or greater but not exceeding 37.3 kW (50 hp)	No.
8458.11.0090	With a power rating exceeding 37.3 kW (50 hp)	No.
8458.19	Other:	
8458.19.0010	Used or rebuilt	No.
8458.19.0020	Other, valued under \$3,025 each	No.
	Other:	
8458.19.0030	Engine or toolroom lathes	No.
	Automatic bar and/or chucking machines:	
8458.19.0050	Single spindle	No.
8458.19.0070	Multiple spindle	No.
8458.19.0090	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8458 (con.)	Lathes (including turning centers) for removing metal (con.):	
	Other lathes (including vertical):	
8458.91	Numerically controlled:	
	Vertical turret lathes:	
8458.91.1040	Used or rebuilt	No.
	Other:	
8458.91.1060	Multiple spindle	No.
8458.91.1080	Other	No.
	Other:	
8458.91.5040	Used or rebuilt	No.
	Other:	
8458.91.5050	Multiple spindle	No.
8458.91.5070	Other	No.
8458.99	Other:	
	Vertical turret lathes:	
8458.99.1010	Used or rebuilt	No.
8458.99.1050	Other	No.
	Other:	
8458.99.5030	Used or rebuilt	No.
8458.99.5060	Other, valued under \$3,025 each	No.
8458.99.5090	Other	No.
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:	
8459.10.0000	Way-type unit head machines	No.
	Other drilling machines:	
8459.21	Numerically controlled:	
8459.21.0040	Used or rebuilt	No.
8459.21.0080	Other	No.
8459.29	Other:	
8459.29.0010	Used or rebuilt	No.
8459.29.0020	Other, valued under \$3,025 each	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8459 (con.)	Machine tools (including way-type unit head machines) for drilling, boring, milling, threading or tapping etc. –(con.):	
	Other drilling machines (con.):	
8459.29 (con.)	Other (con.):	
	Other:	
8459.29.0040	Multiple spindle No.	
	Other (including single spindle):	
8459.29.0050	Radial No.	
8459.29.0070	Upright, excluding sensitive (hand-directed), turret, and deep-hole machines No.	
8459.29.0090	Other No.	
	Other boring–milling machines:	
8459.31	Numerically controlled:	
8459.31.0005	Used or rebuilt No.	
	Other:	
	Horizontal spindle:	
8459.31.0010	Table type, excluding planer type No.	
8459.31.0040	Other No.	
8459.31.0070	Other No.	
8459.39	Other:	
8459.39.0010	Used or rebuilt No.	
8459.39.0020	Other, valued under \$3,025 each No.	
	Other:	
8459.39.0040	Horizontal spindle No.	
8459.39.0050	Other No.	
8459.40	Other boring machines:	
8459.40.0010	Used or rebuilt No.	
8459.40.0020	Other, valued under \$3,025 each No.	
	Other:	
	Vertical:	
8459.40.0040	Numerically controlled No.	
8459.40.0050	Other No.	
	Other (including horizontal):	
8459.40.0070	Numerically controlled No.	
8459.40.0080	Other No.	

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8459 (con.)	Machine tools (including way-type unit head machines) for drilling, boring, milling, threading or tapping etc. –(con.):	
	Milling machines, knee type:	
8459.51	Numerically controlled:	
8459.51.0040	Used or rebuilt	No.
8459.51.0080	Other	No.
8459.59	Other:	
8459.59.0010	Used or rebuilt	No.
8459.59.0020	Other, valued under \$3,025 each	No.
8459.59.0030	Other	No.
	Other milling machines:	
8459.61	Numerically controlled:	
8459.61.0040	Used or rebuilt	No.
8459.61.0080	Other	No.
8459.69	Other:	
8459.69.0010	Used or rebuilt	No.
8459.69.0020	Other, valued under \$3,025 each	No.
	Other:	
8459.69.0050	Profile, duplicating, or die sinking	No.
8459.69.0070	Bed type	No.
8459.69.0090	Other	No.
8459.70	Other threading or tapping machines:	
8459.70.0020	Numerically controlled	No.
	Other:	
8459.70.0040	Used or rebuilt	No.
8459.70.0060	Other, valued under \$3,025 each	No.
8459.70.0080	Other	No.
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, in which the positioning in any one axis can be set up to an accuracy of at least 0.01 mm:	
8460.11	Numerically controlled:	
8460.11.0040	Used or rebuilt	No.
8460.11.0080	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8460 (con.)	Machine tools for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal, etc. –(con.): Flat-surface grinding machines, in which the positioning in any one axis can be set up to an accuracy etc. –(con.):	
8460.19	Other:	
8460.19.0005	Used or rebuilt	No.
	Other:	
8460.19.0010	Reciprocating-table type	No.
8460.19.0050	Other	No.
	Other grinding machines, in which the positioning in any one axis can be set up to an accuracy of at least 0.01 mm:	
8460.21	Numerically controlled:	
8460.21.0040	Used or rebuilt	No.
8460.21.0080	Other	No.
8460.29	Other:	
8460.29.0005	Used or rebuilt	No.
	Other:	
8460.29.0010	External cylindrical, including universal	No.
8460.29.0030	Internal cylindrical	No.
8460.29.0050	Other	No.
	Sharpening (tool or cutter grinding) machines:	
8460.31	Numerically controlled:	
8460.31.0040	Used or rebuilt	No.
8460.31.0080	Other	No.
8460.39	Other:	
8460.39.0010	Used or rebuilt	No.
8460.39.0020	Other, valued under \$3,025 each	No.
8460.39.0050	Other	No.
8460.40	Honing or lapping machines:	
8460.40.0010	Used or rebuilt	No.
8460.40.0020	Other, valued under \$3,025 each	No.
	Other:	
8460.40.0060	Numerically controlled	No.
8460.40.0080	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8460 (con.)	Machine tools for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal, etc. –(con.):	
8460.90	Other:	
8460.90.0010	Used or rebuilt	No.
8460.90.0020	Other, valued under \$3,025 each	No.
	Other:	
8460.90.0060	Numerically controlled	No.
8460.90.0080	Other	No.
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:	
8461.20.0010	Numerically controlled	No.
	Other:	
8461.20.0030	Used or rebuilt	No.
8461.20.0070	Other, valued under \$3,025 each	No.
8461.20.0090	Other	No.
8461.30	Broaching machines:	
8461.30.0020	Used or rebuilt	No.
8461.30.0040	Other, valued under \$3,025 each	No.
	Other:	
8461.30.0060	Numerically controlled	No.
8461.30.0080	Other	No.
8461.40	Gear cutting, gear grinding or gear finishing machines:	
	Gear cutting machines:	
8461.40.1010	Used or rebuilt	No.
	Other:	
8461.40.1050	Gear hobbors	No.
8461.40.1070	Gear shapers	No.
8461.40.1090	Other	No.
	Gear grinding or finishing machines:	
8461.40.5020	Used or rebuilt	No.
8461.40.5040	Other, valued under \$3,025 each	No.
8461.40.5060	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8461 (con.)	Machine tools for planing, shaping, slotting, broaching, gear cutting, gear grinding or gear finishing, sawing, etc. –(con.):	
8461.50	Sawing or cutting-off machines:	
8461.50.0010	Used or rebuilt	No.
8461.50.0020	Other, valued under \$3,025 each	No.
	Other:	
8461.50.0050	Numerically controlled	No.
8461.50.0090	Other	No.
8461.90	Other:	
	Numerically controlled:	
	Planing machines:	
8461.90.3020	Used or rebuilt	No.
8461.90.3040	Other	No.
	Other:	
8461.90.3060	Used or rebuilt	No.
8461.90.3080	Other	No.
	Other:	
	Planing machines:	
8461.90.6010	Used or rebuilt	No.
8461.90.6020	Other, valued under \$3,025 each	No.
8461.90.6030	Other	No.
	Other:	
8461.90.6040	Used or rebuilt	No.
8461.90.6050	Other, valued under \$3,025 each	No.
8461.90.6090	Other	No.
8462	Machine tools (including presses) for working metal by forging, hammering or die-stamping; machine tools (including presses) for working metal by bending, folding, straightening, flattening, shearing, punching or notching; presses for working metal or metal carbides, not specified above:	
8462.10	Forging or die-stamping machines (including presses) and hammers:	
8462.10.0010	Used or rebuilt	No.
	Other:	
8462.10.0030	Headers and upsetters, including cold headers	No.
8462.10.0035 ¹	Mechanical transfer presses	No.
8462.10.0055 ¹	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8462 (con.)	Machine tools (including presses) for working metal by forging, hammering or die-stamping; machine tools etc. -(con.): Bending, folding, straightening or flattening machines (including presses):	
8462.21	Numerically controlled:	
8462.21.0040	Used or rebuilt	No.
8462.21.0080	Other	No.
8462.29	Other:	
8462.29.0010	Used or rebuilt	No.
8462.29.0020	Other, valued under \$3,025 each	No.
8462.29.0030	Other: Press brakes	No.
8462.29.0040	Bending rolls	No.
8462.29.0050	Other	No.
	Shearing machines (including presses), other than combined punching and shearing machines:	
8462.31	Numerically controlled:	
8462.31.0040	Used or rebuilt	No.
8462.31.0080	Other	No.
8462.39	Other:	
8462.39.0010	Used or rebuilt	No.
8462.39.0020	Other, valued under \$3,025 each	No.
8462.39.0050	Other	No.
	Punching or notching machines (including presses), including combined punching and shearing machines:	
8462.41	Numerically controlled:	
8462.41.0040	Used or rebuilt	No.
8462.41.0080	Other	No.
8462.49	Other:	
8462.49.0010	Used or rebuilt	No.
8462.49.0020	Other, valued under \$3,025 each	No.
8462.49.0050	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8462 (con.)	Machine tools (including presses) for working metal by forging, hammering or die-stamping; machine tools etc. -(con.):	
	Other:	
8462.91	Hydraulic presses:	
8462.91.0030	Used or rebuilt	No.
8462.91.0060	Other, numerically controlled	No.
8462.91.0090	Other	No.
8462.99	Other:	
8462.99.0010	Used or rebuilt	No.
8462.99.0020	Other, valued under \$3,025 each	No.
	Other:	
8462.99.0030	Numerically controlled	No.
	Other:	
8462.99.0040	Mechanical	No.
8462.99.0060	Other	No.
8463	Other machine tools for working metal, or cermets, without removing material:	
8463.10	Draw-benches for bars, tubes, profiles, wire or the like:	
8463.10.0040	Used or rebuilt	No.
8463.10.0060	Other, valued under \$3,025 each	No.
8463.10.0080	Other	No.
8463.20	Thread rolling machines:	
8463.20.0040	Used or rebuilt	No.
8463.20.0060	Other, valued under \$3,025 each	No.
8463.20.0080	Other	No.
8463.30	Machines for working wire:	
8463.30.0040	Used or rebuilt	No.
8463.30.0060	Other, valued under \$3,025 each	No.
8463.30.0080	Other	No.
8463.90	Other:	
8463.90.0040	Used or rebuilt	No.
8463.90.0060	Other, valued under \$3,025 each	No.
8463.90.0080	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8464	Machine tools for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass:	
8464.10	Sawing machines:	
8464.10.0040	Machines designed to saw (slice) blank semiconductor wafers from crystal boules of semiconductor grade materials	No.
8464.10.0080	Other	No.
8464.20	Grinding or polishing machines:	
8464.20.0010	Glass-working machines	No.
8464.20.0050	Other	No.
8464.90	Other:	
	For scribing or scoring semiconductor wafers; for wet-etching semiconductor wafers:	
8464.90.1040	For scribing or scoring semiconductor wafers	No.
8464.90.1060	Other	No.
8464.90.6000	For wet-developing or -stripping semiconductor wafers; for wet-etching, -developing, or -stripping flat panel displays	No.
	Other:	
8464.90.9010	Glass-working machines	No.
8464.90.9090	Other	No.
8465	Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials:	
8465.10	Machines which can carry out different types of machining operations without tool change between such operations:	
	Woodworking machines:	
	Used or rebuilt:	
8465.10.0005	Tenoners	No.
8465.10.0015	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8465 (con.)	Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, etc. –(con.):	
8465.10 (con.)	Machines which can carry out different types of machining operations without tool change between such operations (con.):	
	Woodworking machines (con.):	
	Other:	
	Tenoners:	
8465.10.0025	Numerically controlled	No.
8465.10.0035	Other	No.
8465.10.0045	Other	No.
8465.10.0050	Other	No.
	Other:	
8465.91	Sawing machines:	
	Woodworking machines:	
	Used or rebuilt:	
8465.91.0002	Rip saws	No.
8465.91.0006	Panel saws	No.
8465.91.0012	Band saws	No.
8465.91.0020	Other	No.
	Other:	
8465.91.0027	Sawmill machines	No.
	Other:	
8465.91.0032	Radial arm saws	No.
8465.91.0036	Tilting arbor table saws	No.
8465.91.0041	Rip saws	No.
8465.91.0047	Miter saws	No.
8465.91.0049	Scroll saws	No.
	Panel saws:	
8465.91.0053	Valued under \$3,000 each	No.
8465.91.0058	Other	No.
	Band saws:	
8465.91.0064	Valued under \$1,000 each	No.
8465.91.0068	Other	No.
8465.91.0076	Other	No.
8465.91.0090	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8465 (con.)	Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, etc. -(con.): Other (con.):	
8465.92	Planing, milling or molding (by cutting) machines: For woodworking:	
8465.92.0010	Used or rebuilt No. Other:	
8465.92.0021	Dovetailing No.	
8465.92.0031	Moulders No.	
8465.92.0041	Jointers No.	
8465.92.0061	Shapers and profilers No.	
8465.92.0074	Routers No.	
8465.92.0078	Other No.	
8465.92.0090	Other No.	
8465.93	Grinding, sanding or polishing machines: For woodworking:	
8465.93.0004	Used or rebuilt: Belt sanders, for a belt width 60 cm or wider No.	
8465.93.0012	Other No.	
8465.93.0027	Other: Edge belt sanders No.	
8465.93.0065	Belt sanders, for a belt width 60 cm or wider No.	
8465.93.0075	Other No.	
8465.93.0090	Other No.	
8465.94	Bending or assembling machines: For woodworking:	
8465.94.0005	Used or rebuilt No. Other:	
8465.94.0015	Doweling machines No.	
8465.94.0025	Edgebanding machines No.	
8465.94.0035	Laminating machines No.	
8465.94.0045	Presses: Cold No.	
8465.94.0055	Other No.	
8465.94.0065	Other No.	
8465.94.0090	Other No.	

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8465 (con.)	Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, etc. –(con.):	
	Other (con.):	
8465.95	Drilling or mortising machines:	
	For woodworking:	
8465.95.0028	Used or rebuilt	No.
	Other:	
8465.95.0038	Drilling machines	No.
8465.95.0065	Other	No.
8465.95.0090	Other	No.
8465.96	Splitting, slicing or paring machines:	
	For woodworking:	
8465.96.0015	Log splitters	No.
8465.96.0025	Chippers	No.
8465.96.0030	Hogs	No.
8465.96.0040	Other	No.
8465.96.0050	Other	No.
8465.99	Other:	
	Woodworking machines:	
8465.99.8005	Debarkers	No.
	Lathes:	
8465.99.8010	Veneer lathes	No.
8465.99.8028	Other	No.
8465.99.8070	Other	No.
8465.99.8090	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 machine tools; tool holders for any type of tool for working in the hand:	
8466.10	Tool holders and self-opening dieheads:	
8466.10.0010	Tool holders for forming-type or cutting-type dies	X
8466.10.0030	Holders for replaceable cutting or drill inserts	X
8466.10.0070	Other (including chucks and chuck-holders)	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8466 (con.)	Parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, etc. –(con.):	
8466.20	Work holders:	
	For machine tools used in cutting gears:	
8466.20.1010	Jigs and fixtures	X
8466.20.1090	Other	X
	Other:	
	For metalworking machine tools:	
8466.20.8020	Jigs and fixtures	X
8466.20.8030	Other	X
	Other work holders:	
8466.20.8040	Jigs and fixtures	X
8466.20.8060	Other	X
8466.30	Dividing heads and other special attachments for machine tools:	
8466.30.1000	Dividing heads	X
	Other special attachments:	
	Machines:	
8466.30.6040	For woodworking machines	X
8466.30.6080	Other	X
8466.30.8050	Other	X
	Other:	
8466.91.0000	For machines of heading 8464	X
8466.92	For machines of heading 8465:	
8466.92.0020	Of woodworking machines	X
8466.92.0080	Other	X
8466.93	For machines of heading 8456 to 8461:	
8466.93.3050	Of metalworking machine tools for cutting, grinding or finishing gears	kg
8466.93.9000	Other	kg
8466.94.0000	For machines of heading 8462 or 8463	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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):	
	Suitable for metalworking:	
8467.11.1040	Grinders, polishers and sanders	No.
8467.11.1080	Other	No.
	Other:	
8467.11.5010	Rock drills	No.
8467.11.5020	Other drills, screwdrivers and nut runners	No.
8467.11.5040	Other wrenches	No.
8467.11.5090	Other	No.
8467.19	Other:	
8467.19.1000	Suitable for metalworking	No.
	Other:	
8467.19.5030	Pneumatic hand-held force feed lubricating equipment	No.
8467.19.5060	Designed for use in construction or mining	No.
8467.19.5090	Other	No.
	With self-contained electric motor:	
8467.21	Drills of all kinds:	
	Rotary:	
8467.21.0010	Battery powered	No.
	Other:	
8467.21.0030	With a chuck capacity of less than 12.7 mm (½ inch)	No.
8467.21.0050	Other	No.
8467.21.0070	Other, including hammer drills	No.
8467.22	Saws:	
8467.22.0020	Circular	No.
8467.22.0040	Chain	No.
8467.22.0070	Reciprocating and jig (including saber)	No.
8467.22.0090	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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 (con.):	
8467.29	Other:	
	Grinders, polishers and sanders:	
8467.29.0010	Angle grinders, sanders, and polishers	No.
8467.29.0015	Orbital and straight-line sanders	No.
8467.29.0030	Other	No.
8467.29.0040	Screwdrivers, nut-runners and impact wrenches	No.
8467.29.0055	Routers	No.
8467.29.0065	Planers	No.
8467.29.0070	Grass and weed trimmers/edgers	No.
8467.29.0085	Electric scissors	No.
8467.29.0095	Other	No.
	Other tools:	
8467.81.0000	Chain saws	No.
8467.89	Other:	
8467.89.1000	Suitable for metalworking	No.
	Other:	
8467.89.5030	Gasoline powered grass and weed trimmers and brushcutters	No.
8467.89.5060	Other designed for use in agriculture or horticulture	No.
8467.89.5090	Other	No.
	Parts:	
8467.91.0100	Of chain saws	X
8467.92	Of pneumatic tools:	
8467.92.0050	Of pneumatic, hand-held force feed lubricating equipment	X
8467.92.0090	Other	X
8467.99	Other:	
8467.99.0130	Of gasoline powered grass and weed trimmers and brushcutters	X
8467.99.0190①	Other	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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:	
8468.10.0000	Hand-held blow torches	No.
8468.20	Other gas-operated machinery and apparatus:	
8468.20.1000	Hand-directed or -controlled	No.
8468.20.5000	Other	No.
8468.80	Other machinery and apparatus:	
8468.80.1000	Hand-directed or -controlled	No.
8468.80.5000	Other	No.
8468.90	Parts:	
8468.90.1000	Of hand-directed or -controlled machinery and apparatus ..	X
8468.90.5000	Other	X
8469	Typewriters other than printers of heading 8471; word processing machines:	
	Automatic typewriters and word processing machines:	
8469.11.0000	Word processing machines	No.
8469.12.0000	Automatic typewriters	No.
8469.20	Other typewriters, electric:	
8469.20.0020	Weighing not more than 12 kg, excluding case	No.
8469.20.0040	Other	No.
8469.30	Other typewriters, nonelectric:	
8469.30.0020	Weighing not more than 12 kg, excluding case	No.
8469.30.0040	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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:	
8470.10.0000	Electronic calculators capable of operation without an external source of electric power and pocket-size data recording, reproducing and displaying machines with calculating functions	No.
	Other electronic calculating machines:	
8470.21.0000	Incorporating a printing device	No.
8470.29.0000	Other	No.
8470.30.0000	Other calculating machines	No.
8470.40.0000	Accounting machines	No.
8470.50	Cash registers:	
8470.50.0020	Point-of-sale terminals	No.
8470.50.0060	Other	No.
8470.90	Other:	
8470.90.0010	Postage-franking machines	No.
8470.90.0090	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:	
8471.10.0000	Analog or hybrid automatic data processing machines	No.
8471.30.0000	Portable digital automatic data processing machines, weighing not more than 10 kg, consisting of at least a central processing unit, a keyboard and a display	No.
	Other digital automatic data processing machines:	
8471.41	Comprising in the same housing at least a central processing unit and an input and output unit, whether or not combined:	
	With cathode-ray tube (CRT):	
8471.41.0035	Color	No.
8471.41.0065	Other	No.
8471.41.0095	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8471 (con.)	Automatic data processing machines and units thereof; magnetic or optical readers, machines for transcribing data etc. –(con.):	
	Other digital automatic data processing machines (con.):	
8471.49	Other, exported in the form of systems:	
	Digital processing units entered with the rest of a system, whether or not containing in the same housing one or two of the following types of units; storage units, input units, output units:	
	With cathode-ray tube (CRT):	
8471.49.1035	Color	No.
8471.49.1065	Other	No.
8471.49.1095	Other	No.
	Input or output units, exported with the rest of a system, whether or not containing storage units in the same housing:	
8471.49.1500	Combined input/output units	No.
	Other:	
8471.49.2100	Keyboards	No.
	Display units:	
8471.49.2400	Without cathode-ray tube (CRT), having a visible display diagonal not exceeding 30.5 cm	No.
	Other:	
8471.49.2600	With color cathode-ray tube (CRT)	No.
8471.49.2900	Other	No.
	Printer units:	
	Laser:	
8471.49.3100	Capable of producing more than 20 pages per minute	No.
8471.49.3200	Other	No.
8471.49.3300	Light bar electronic type	No.
8471.49.3400	Ink jet	No.
8471.49.3500	Thermal transfer	No.
8471.49.3600	Ionographic	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8471 (con.)	Automatic data processing machines and units thereof; magnetic or optical readers, machines for transcribing data etc. –(con.):	
	Other digital automatic data processing machines (con.):	
8471.49 (con.)	Other, exported in the form of systems (con.):	
	Input or output units, exported with the rest of a system, whether or not containing etc. –(con.):	
	Other (con.):	
	Printer units (con.):	
	Other:	
8471.49.3730	Daisy wheel	No.
8471.49.3760	Dot matrix	No.
8471.49.3790	Other	No.
	Other:	
8471.49.4200	Optical scanners and magnetic ink recognition devices	No.
	Other:	
8471.49.4850	Card key and magnetic media entry devices	No.
	Other:	
8471.49.4875	Output devices	No.
8471.49.4895	Other	No.
	Storage units, exported with the rest of a system:	
	Magnetic disk drive units:	
8471.49.5010	For a disk of a diameter exceeding 21 cm (8.3 inches)	No.
	Other:	
8471.49.5020	Flexible (floppy) magnetic disk drive units	No.
8471.49.5040	Hard magnetic disk drive units	No.
8471.49.5060	Other	No.
8471.49.5080	Other storage units	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8471 (con.)	Automatic data processing machines and units thereof; magnetic or optical readers, machines for transcribing data etc. –(con.):	
	Other digital automatic data processing machines (con.):	
8471.49 (con.)	Other, exported in the form of systems (con.):	
	Other units of automatic data processing machines, exported with the rest of a system:	
8471.49.6000	Control or adaptor units	No.
8471.49.7000	Power supplies	No.
8471.49.9000	Other	No.
8471.50	Digital 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 units; storage units, input units, output units:	
	With cathode-ray tube (CRT):	
8471.50.0035	Color	No.
8471.50.0065	Other	No.
8471.50.0085	Other	No.
8471.60	Input or output units, whether or not containing storage units in the same housing:	
	Combined input/output units:	
	With cathode-ray tube (CRT):	
8471.60.1035	Color	No.
8471.60.1065	Other	No.
8471.60.1095	Other	No.
	Other:	
8471.60.2000	Keyboards	No.
	Display units:	
8471.60.3000	Without cathode-ray tube (CRT), having a visual display diagonal not exceeding 30.5 cm	No.
	Other:	
8471.60.3500	With color cathode-ray tube (CRT)	No.
	Other:	
8471.60.4540	With cathode-ray tube (CRT)	No.
8471.60.4580	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8471 (con.)	Automatic data processing machines and units thereof; magnetic or optical readers, machines for transcribing data etc. –(con.):	
8471.60 (con.)	Input or output units, whether or not containing storage units in the same housing (con.):	
	Other (con.):	
	Printer units:	
	Assembled units incorporating at least the media transport, control and print mechanisms:	
	Laser:	
8471.60.5100	Capable of producing more than 20 pages per minute	No.
8471.60.5200	Other	No.
8471.60.5300	Light bar electronic type	No.
8471.60.5400	Ink jet	No.
8471.60.5500	Thermal transfer	No.
8471.60.5600	Ionographic	No.
	Other:	
8471.60.5730	Daisy wheel	No.
8471.60.5760	Dot matrix	No.
8471.60.5790	Other	No.
	Other:	
	Laser:	
8471.60.6100	Capable of producing more than 20 pages per minute	No.
8471.60.6200	Other	No.
8471.60.6300	Light bar electronic type	No.
8471.60.6400	Ink jet	No.
8471.60.6500	Thermal transfer	No.
8471.60.6600	Ionographic	No.
	Other:	
8471.60.6730	Daisy wheel	No.
8471.60.6760	Dot matrix	No.
8471.60.6790	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8471 (con.)	Automatic data processing machines and units thereof; magnetic or optical readers, machines for transcribing data etc. –(con.):	
8471.60 (con.)	Input or output units, whether or not containing storage units in the same housing (con.):	
	Other (con.):	
	Other:	
	Units suitable for physical incorporation into automatic data processing machines or units thereof:	
8471.60.7040	Output devices	No.
8471.60.7080	Other	No.
	Other:	
8471.60.8000	Optical scanners and magnetic ink recognition devices	No.
	Other:	
8471.60.9030	Card key and magnetic media entry devices	No.
	Other:	
8471.60.9070	Output devices	No.
8471.60.9090	Other	No.
8471.70	Storage units:	
	Magnetic disk drive units:	
	For a disk of a diameter exceeding 21cm:	
8471.70.1000	Without read–write unit assembled therein; read–write units separately entered	No.
8471.70.2000	Units for physical incorporation into automatic data processing machines or units thereof	No.
8471.70.3000	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8471 (con.)	Automatic data processing machines and units thereof; magnetic or optical readers, machines for transcribing data etc. –(con.):	
8471.70 (con.)	Storage units (con.):	
	Magnetic disk drive units (con.):	
	Other:	
	Not assembled in cabinets, and without attached external power supply:	
8471.70.4035	Flexible (floppy) magnetic disk drive units	No.
8471.70.4065	Hard magnetic disk drive units	No.
8471.70.4095	Other	No.
	Other:	
8471.70.5035	Flexible (floppy) magnetic disk drive units	No.
8471.70.5065	Hard magnetic disk drive units	No.
8471.70.5095	Other	No.
	Other storage units:	
8471.70.6000	Not assembled in cabinets for placing on a table, desk, wall, floor or similar place	No.
8471.70.9000	Other	No.
8471.80	Other units of automatic data processing machines:	
8471.80.1000	Control and adaptor units	No.
	Other:	
8471.80.4000	Units suitable for physical incorporation into automatic data processing machines	No.
8471.80.9000	Other	No.
8471.90.0000	Other	No.
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):	
8472.10.0000	Duplicating machines	No.
8472.20.0000	Addressing machines and address plate embossing machines ...	No.
8472.30.0000	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.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8472 (con.)	Other office machines (for example, hectograph or stencil duplicating machines, addressing machines etc. -(con.):	
8472.90	Other:	
8472.90.1000	Automatic teller machines No.	
	Other:	
8472.90.8000	Printing machines other than those of heading 8443 or 8471 No.	
8472.90.9000	Other No.	
8473	Parts and accessories (other than covers, carrying cases and the like) suitable for use solely or principally with machines of headings 8469 to 8472:	
8473.10	Parts and accessories of the machines of heading 8469:	
8473.10.0020	Parts of word processing machines X	
8473.10.0095	Other X	
	Parts and accessories of the machines of heading 8470:	
8473.21.0000	Of the electronic calculating machines of subheading 8470.10, 8470.21 or 8470.29 X	
8473.29.0000	Other X	
8473.30.0000	Parts and accessories of the machines of heading 8471 X	
8473.40	Parts and accessories of the machines of heading 8472:	
8473.40.8000	Parts and accessories of the goods of subheading 8472.90.80 X	
8473.40.8500	Other X	
8473.50.0000	Parts and accessories equally suitable for use with machines of two or more of the headings 8469 to 8472 X	

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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	Sorting, screening, separating or washing machines:	
8474.10.0010	Portable	No.
8474.10.0090	Stationary	No.
8474.20	Crushing or grinding machines:	
8474.20.0010	Portable	No.
	Stationary:	
8474.20.0050	Crushing	No.
8474.20.0070	Other (grinding)	No.
	Mixing or kneading machines:	
8474.31.0000	Concrete or mortar mixers	No.
8474.32.0000	Machines for mixing mineral substances with bitumen	No.
8474.39.0000	Other	No.
8474.80	Other machinery:	
8474.80.0010	Designed for use with ceramic paste, unhardened cements and plastering materials	No.
8474.80.0020	Machines for forming foundry molds of sand	No.
8474.80.0090	Other	No.
8474.90	Parts:	
8474.90.0010	Of sorting, screening, separating or washing machines	X
8474.90.0020	Of crushing or grinding machines	X
8474.90.0050	Of mixing or kneading machines	X
8474.90.0090	Other	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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:	
8475.10.0000	Machines for assembling electric or electronic lamps, tubes or flashbulbs, in glass envelopes	No.
	Machines for manufacturing or hot-working glass or glassware:	
8475.21.0000	Machines for making optical fibers and preforms thereof	No.
8475.29.0000	Other	No.
8475.90	Parts:	
8475.90.1000	Of machines for assembling electric or electronic lamps, tubes or flashbulbs, in glass envelopes	X
8475.90.9000	Other	X
8476	Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines; parts thereof:	
	Automatic beverage vending machines:	
8476.21.0000	Incorporating heating or refrigerating devices	No.
8476.29.0000	Other	No.
	Other machines:	
8476.81.0000	Incorporating heating or refrigerating devices	No.
8476.89.0000	Other	No.
8476.90.0000	Parts	X
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:	
8477.10.6010	Of a type used for processing rubber or other thermo-setting materials	No.
8477.10.6070	Of a type used for processing thermoplastics	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8477 (con.)	Machinery for working rubber or plastics or for the manufacture of products from these materials, etc. –(con.):	
8477.20	Extruders:	
	Of a type used for processing rubber or other thermo-setting materials:	
8477.20.0005	Single screw	No.
8477.20.0015	Other, including multiple screw	No.
	Of a type used for processing thermoplastics:	
8477.20.0030	Single screw	No.
8477.20.0060	Other, including multiple screw	No.
8477.30.0000	Blow-molding machines	No.
8477.40.0000	Vacuum-molding machines and other thermoforming machines	No.
	Other machinery for molding or otherwise forming:	
8477.51	For molding or retreading pneumatic tires or for molding or otherwise forming inner tubes:	
8477.51.0010	For molding or retreading pneumatic tires	No.
8477.51.0090	Other	No.
8477.59.0000	Other	No.
8477.80.0000	Other machinery	No.
8477.90	Parts:	
8477.90.0010	Of injection-molding machines	X
8477.90.0020	Of extruders	X
8477.90.0030	Of blow-molding machines	X
8477.90.0040	Of machines for forming pneumatic tires	X
8477.90.0090	Other parts	X
8478	Machinery for preparing or making up tobacco, not specified or included elsewhere in this chapter; parts thereof:	
8478.10	Machinery:	
8478.10.0010	Industrial cigarette-making machines	No.
8478.10.0090	Other	No.
8478.90.0000	Parts	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8479	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter; parts thereof:	
8479.10	Machinery for public works, building or the like:	
	Concrete and bituminous pavers, finishers and spreaders:	
8479.10.0040	For concrete	No.
8479.10.0060	For bituminous material	No.
8479.10.0080	Other	No.
8479.20.0000	Machinery for the extraction or preparation of animal or fixed vegetable fats or oils	No.
8479.30.0000	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.
8479.40.0000	Rope or cable-making machines	No.
8479.50.0000	Industrial robots, n.e.s.o.i	No.
8479.60.0000	Evaporative air coolers	No.
	Other machines and mechanical appliances:	
8479.81.0000	For treating metal, including electric wire coil-winders	No.
8479.82	Mixing, kneading, crushing, grinding, screening, sifting, homogenizing, emulsifying or stirring machines:	
8479.82.0040	Mixing, kneading or stirring machines	No.
8479.82.0080	Other	No.
8479.89	Other: Electromechanical appliances with self-contained electric motor:	
8479.89.1000	Air humidifiers or dehumidifiers	No.
8479.89.2000	Floor polishers	No.
	Vacuum cleaners:	
8479.89.3040	Industrial vacuum cleaners	No.
8479.89.3080	Other	No.
8479.89.5500	Trash compactors	No.
8479.89.6500	Other	X
8479.89.7000	Carpet sweepers	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8479 (con.)	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter etc. –(con):	
	Other machines and mechanical appliances (con.):	
8479.89 (con.)	Other (con.):	
	Other:	
	Machines for processing of semiconductor materials; machines for production and assembly of diodes, transistors and similar semiconductor devices and electronic integrated circuits; machines for the manufacturing of video laser discs:	
8479.89.8472	Apparatus designed to grow monocrystal semiconductor boules (crystal growers and pullers)	No.
8479.89.8474	Machines (spinners) designed to coat photographic emulsions on semiconductor wafers	No.
8479.89.8476	Chemical vapor deposition (CVD) apparatus including low pressure and plasma enhanced systems	No.
8479.89.8490	Other	No.
	Other:	
8479.89.9600	Printing machines other than those of heading 8443, 8471 or 8472	No.
	Other:	
8479.89.9850	Oil and gas field wire line and downhole equipment	No.
8479.89.9860	Automotive maintenance machines	No.
8479.89.9865	Hydraulic accumulators	No.
8479.89.9885	Ultrasonic cleaning devices	No.
8479.89.9895	Industrial vibrators	No.
8479.89.9897 ①	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8479 (con.)	Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter; etc. –(con):	
8479.90	Parts:	
8479.90.9440	Of industrial robots	X
	Other:	
8479.90.9450 ¹	Of machinery for public works, building or the like	X
8479.90.9460	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
8479.90.9465	Of machines or mechanical appliances for treating metal	X
8479.90.9495 ¹	Other	X
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:	
8480.10.0000	Molding boxes for metal foundry	No.
8480.20.0000	Mold bases	No.
8480.30.0000	Molding patterns	No.
	Molds for metal or metal carbides:	
8480.41.0000	Injection or compression types	No.
8480.49.0000	Other types	No.
8480.50.0000	Molds for glass	No.
8480.60.0000	Molds for mineral materials	No.
	Molds for rubber or plastics:	
8480.71	Injection or compression types:	
8480.71.1000	For shoe machinery	No.
8480.71.4000	For the manufacture of semiconductor devices	No.
	Other:	
8480.71.8045	Injection type	No.
8480.71.8060	Compression type	No.
8480.79.0000	Other types	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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	Pressure-reducing valves:	
8481.10.0020	Hydraulic fluid power type No.	
	Pneumatic fluid power type:	
8481.10.0040	Filter-regulators and filter-regulator-lubricators No.	
8481.10.0060	Other No.	
8481.10.0090	Other No.	
8481.20	Valves for oleohydraulic or pneumatic transmissions:	
	Hydraulic valves:	
	Directional control:	
8481.20.0010	Manual type No.	
8481.20.0020	Solenoid type No.	
8481.20.0030	Other No.	
8481.20.0040	Flow control type No.	
8481.20.0050	Other No.	
	Pneumatic valves:	
	Directional control	
8481.20.0060	Solenoid type No.	
8481.20.0070	Other No.	
8481.20.0080	Other No.	
8481.30	Check (nonreturn) valves:	
	Of copper:	
8481.30.1010	Having a pressure rating under 850 kPa (123 lbs. pressure) No. kg	
8481.30.1090	Having a pressure rating of 850 kPa (123 lbs. pressure) or over No. kg	
	Of iron or steel:	
8481.30.2010	Of iron No. kg	
8481.30.2090	Of steel No. kg	
8481.30.9000	Other No. kg	

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8481 (con.)	Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure etc. –(con.):	
8481.40.0000	Safety or relief valves	No. kg
8481.80	Other appliances:	
	Hand operated:	
	Of copper:	
8481.80.1010	Having a pressure rating under 850 kPa (123 lbs. pressure)	No. kg
	Having a pressure rating of 850 kPa (123 lbs. pressure) or over:	
8481.80.1060	Gate type	No. kg
8481.80.1070	Globe type	No. kg
8481.80.1075	Plug type	No. kg
8481.80.1085	Ball type	No. kg
8481.80.1090	Butterfly type	No. kg
8481.80.1095	Other	No. kg
	Of iron or steel:	
	Of iron:	
8481.80.3010	Gate type	No. kg
8481.80.3015	Globe type	No. kg
8481.80.3020	Plug type	No. kg
8481.80.3025	Ball type	No. kg
8481.80.3030	Butterfly type	No. kg
8481.80.3040	Other	No. kg

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8481 (con.)	Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure etc. –(con.):	
8481.80 (con.)	Other appliances (con.):	
	Hand operated (con.):	
	Of iron or steel (con.):	
	Of steel:	
8481.80.3055	Gate type	No.
		kg
8481.80.3060	Globe type	No.
		kg
8481.80.3065	Plug type	No.
		kg
8481.80.3070	Ball type	No.
		kg
8481.80.3075	Butterfly type	No.
		kg
8481.80.3090	Other	No.
		kg
	Of other materials:	
8481.80.5040	Pressure spray can valves (lids)	No.
		kg
8481.80.5060	Bath, shower, sink and lavatory faucets	No.
		kg
8481.80.5090	Other	No.
		kg
	Other:	
8481.80.9005	Solenoid valves	No.
8481.80.9010	Ballcock mechanisms	No.
8481.80.9015	Regulator valves, self-operating, for controlling variables such as temperature, pressure, flow and liquid level	No.
	Other:	
	With electrical or electro-hydraulic actuators:	
8481.80.9020	Control valves designed for proportional operation by a signal from a control device	No.
8481.80.9025	Other	No.
8481.80.9030	With hydraulic actuators	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8481 (con.)	Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure etc. –(con.):	
8481.80 (con.)	Other appliances (con.):	
	Other (con.):	
	Other (con.):	
	With pneumatic actuators:	
8481.80.9035	Control valves designed for proportional operation by a signal from a control device	No.
8481.80.9040	Other	No.
8481.80.9045	With thermostatic actuators	No.
8481.80.9050	Other	No.
8481.90	Parts:	
8481.90.7000	Of hand operated and check appliances	kg
	Other:	
8481.90.9010	Of valves of subheading 8481.20	kg
8481.90.9090	Other	kg
8482	Ball or roller bearings, and parts thereof:	
8482.10	Ball bearings:	
8482.10.1000	Ball bearings with integral shafts	No.
	Other:	
8482.10.5004	Unground bearings	No.
	Other:	
8482.10.5008	Thrust bearings	No.
8482.10.5012	Linear bearings	No.
	Angular contact bearings:	
	Wheel hub bearing units:	
8482.10.5016	Flanged	No.
8482.10.5024	Other	No.
8482.10.5028	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8482 (con.)	Ball or roller bearings, and parts thereof (con.):	
8482.10 (con.)	Ball bearings (con.):	
	Other (con.):	
	Other (con.):	
	Radial bearings:	
	Single row bearings:	
8482.10.5032	Maximum or full capacity type	No.
	Other bearings, having an outside diameter of:	
8482.10.5036	Under 9 mm	No.
8482.10.5044	9 mm and over but not over 30 mm	No.
8482.10.5048	Over 30 mm but not over 52 mm	No.
8482.10.5052	Over 52 mm but not over 100 mm	No.
8482.10.5056	Over 100 mm	No.
8482.10.5060	Double row bearings	No.
8482.10.5064	Other	No.
8482.10.5068	Other	No.
8482.20	Tapered roller bearings, including cone and tapered roller assemblies:	
	Cup and cone assemblies entered as a set:	
	Wheel hub units:	
8482.20.0020	Flanged	No.
8482.20.0030	Other	No.
	Other:	
8482.20.0040	With cups having an outside diameter not exceeding 102 mm	No.
8482.20.0060	Other	No.
	Cone assemblies entered separately:	
8482.20.0070	For cups having an outside diameter not exceeding 102 mm	No.
8482.20.0080	Other	No.
8482.30	Spherical roller bearings:	
8482.30.0040	Single row	No.
8482.30.0080	Other	No.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8482 (con.)	Ball or roller bearings, and parts thereof (con.):	
8482.40.0000	Needle roller bearings	No.
8482.50.0000	Other cylindrical roller bearing	No.
8482.80	Other, including combined ball/roller bearings:	
8482.80.0020	Combined ball and spherical roller bearings	No.
8482.80.0040	Combined ball and needle roller bearings	No.
8482.80.0060	Combined ball and other cylindrical roller bearings	No.
8482.80.0080	Other	No.
	Parts:	
8482.91	Balls, needles and rollers:	
	Balls:	
8482.91.0010	Of alloy steel	kg
8482.91.0020	Other	kg
8482.91.0040	Needles	kg
8482.91.0050	Tapered rollers	kg
8482.91.0070	Spherical rollers	kg
8482.91.0080	Other cylindrical rollers	kg
8482.91.0090	Other	kg
8482.99	Other:	
	Parts of ball bearings (including parts of ball bearing with integral shafts):	
8482.99.1010	Inner and outer races	No.
8482.99.1050	Other	kg
	Parts of tapered roller bearings:	
8482.99.3010	Cups exported separately	No.
8482.99.3050	Other	kg
8482.99.5000	Parts of spherical roller bearings	kg
	Parts of other roller bearings or combined ball/roller bearings:	
8482.99.7030	Of needle bearings	kg
8482.99.7060	Of other cylindrical roller bearings	kg
8482.99.7090	Other	kg

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
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:	
	Designed for use solely or principally with spark-ignition internal combustion piston engines or rotary engines:	
8483.10.1020	For vehicles of chapter 87	kg
8483.10.1050	Other	No.
		kg
	Other:	
8483.10.3010	For vehicles of chapter 87	No.
		kg
8483.10.3050	Other	No.
		kg
8483.10.5000	Other transmission shafts and cranks	kg
8483.20	Housed bearings, incorporating ball or roller bearings:	
8483.20.0010	Incorporating ball bearings	No.
8483.20.0050	Incorporating roller bearings	No.
8483.30	Bearing housings; plain shaft bearings:	
	Bearing housings:	
8483.30.5020	Ball or roller bearing type	kg
8483.30.5040	Other	kg
	Plain shaft bearings:	
	With housing:	
8483.30.8055	Rod end bearings	No.
		kg.
8483.30.8065	Other	No.
		kg.

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8483 (con.)	Transmission shafts (including camshafts and crankshafts) and cranks; bearing housings, housed bearings and plain etc. –(con.):	
8483.30 (con.)	Bearing housings; plain shaft bearings (con.):	
	Plain shaft bearings (con.):	
	Without housing:	
8483.30.8070	Spherical	No.
		kg
8483.30.8090	Other	No.
		kg
8483.40	Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements exported separately; ball or roller screws; gear boxes and other speed changers, including torque converters:	
8483.40.1000	Torque converters	No.
	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:	
8483.40.4010	Fixed ratio speed changers	No.
8483.40.4050	Other	No.
8483.40.7000	Other speed changers	No.
8483.40.8000	Ball or roller screws	X
8483.40.9000	Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements exported separately	X
8483.50	Flywheels and pulleys, including pulley blocks:	
8483.50.8030	Grooved pulleys	X
8483.50.8080	Other	X
8483.60	Clutches and shaft couplings (including universal joints):	
8483.60.4000	Clutches and universal joints	X
8483.60.8000	Other	X

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Schedule B No. and Headings	Commodity Description	Unit of Quantity
8483 (con.)	Transmission shafts (including camshafts and crankshafts) and cranks; bearing housings, housed bearings and plain etc. –(con.):	
8483.90	Toothed wheels, chain sprockets, and other transmission elements presented separately; parts:	
8483.90.1000	Chain sprockets and parts thereof	kg
8483.90.5000	Parts of gearing, gear boxes and other speed changers	X
	Other:	
8483.90.8010	Parts of the articles of subheading 8483.60.80	X
8483.90.9500	Other	X
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:	
8484.10.0000	Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal	X
8484.20.0000	Mechanical seals	No.
8484.90.0000	Other	No.
8485	Machinery parts, not containing electrical connectors, insulators, coils, contacts or other electrical features, and not specified or included elsewhere in this chapter:	
8485.10.0000	Ships' or boats' propellers and blades therefor	X
8485.90	Other:	
8485.90.0040	Oil seals, other than those of Chapter 40	No.
8485.90.0080	Other	X