

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 or conveyor belts or belting, of plastics of Chapter 39, or of vulcanised rubber (heading 40.10), or other articles of a kind used in machinery or mechanical or electrical appliances or for other technical uses, of vulcanised rubber other than hard rubber (heading 40.16);
 - (b) Articles of leather or of composition leather (heading 42.05) or of furskin (heading 43.03), 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 and belting of textile material (heading 59.10) or other articles of textile material for technical uses (heading 59.11);
 - (f) Precious or semi-precious stones (natural, synthetic or reconstructed) of headings 71.02 to 71.04, or articles wholly of such stones of heading 71.16, except unmounted worked sapphires and diamonds for styli (heading 85.22);
 - (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 73.04);
 - (ij) Endless belts of metal wire or strip (Section XV);
 - (k) Articles of Chapter 82 or 83;
 - (l) Articles of Section XVII;
 - (m) Articles of Chapter 90;
 - (n) Clocks, watches or other articles of Chapter 91;
 - (o) Interchangeable tools of heading 82.07 or brushes of a kind used as parts of machines (heading 96.03); 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 68.04 or 69.09);
 - (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 96.12 if inked or otherwise prepared for giving impressions), or monopods, bipods, tripods and similar articles, of heading 96.20.
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 84.84, 85.44, 85.45, 85.46 or 85.47) 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 84.09, 84.31, 84.48, 84.66, 84.73, 84.87, 85.03, 85.22, 85.29, 85.38 and 85.48) 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 84.79 or 85.43) are to be classified with the machines of that kind or in heading 84.09, 84.31, 84.48, 84.66, 84.73, 85.03, 85.22, 85.29 or 85.38 as appropriate. However, parts which are equally suitable for use principally with the goods of headings 85.17 and 85.25 to 85.28 are to be classified in heading 85.17;
 - (c) All other parts are to be classified in heading 84.09, 84.31, 84.48, 84.66, 84.73, 85.03, 85.22, 85.29 or 85.38 as appropriate or, failing that, in heading 84.87 or 85.48.
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.

Chapter 84

Nuclear reactors, boilers, machinery and mechanical appliances; parts thereof

NOTES—

1. This Chapter does not cover:
 - (a) Millstones, grindstones or other articles of Chapter 68;
 - (b) Machinery or appliances (for example, pumps) of ceramic material and ceramic parts of machinery or appliances of any material (Chapter 69);
 - (c) Laboratory glassware (heading 70.17); machinery, appliances or other articles for technical uses or parts thereof, of glass (heading 70.19 or 70.20);
 - (d) Articles of heading 73.21 or 73.22 or similar articles of other base metals (Chapters 74 to 76 or 78 to 81);
 - (e) Vacuum cleaners of heading 85.08;
 - (f) Electro-mechanical domestic appliances of heading 8509; digital cameras of heading 8525;
 - (g) Radiators for the articles of Section XVII; or
 - (h) Hand-operated mechanical floor sweepers, not motorised (heading 96.03).

2. Subject to the operation of Note 3 to Section XVI and subject to Note 9 to this Chapter, a machine or appliance which answers to a description in one or more of the headings 84.01 to 84.24, or heading 84.86 and at the same time to a description in one or other of the headings 84.25 to 84.80 is to be classified under the appropriate heading of the former group or under heading 84.86, as the case may be, and not the latter group.

Heading 84.19 does not, however, cover:

- (a) Germination plant, incubators or brooders (heading 84.36);
- (b) Grain dampening machines (heading 84.37);
- (c) Diffusing apparatus for sugar juice extraction (heading 84.38);
- (d) Machinery for the heat-treatment of textile yarns, fabrics or made up textile articles (heading 84.51); or
- (e) Machinery, plant or laboratory equipment, designed for mechanical operation, in which a change of temperature, even if necessary, is subsidiary.

Heading 84.22 does not cover:

- (a) Sewing machines for closing bags or similar containers (heading 84.52); or
- (b) Office machinery of heading 84.72.

Heading 84.24 does not cover:

- (a) Ink-jet printing machines (heading 84.43); or
- (b) Water-jet cutting machines (heading 84.56).

3. A machine-tool for working any material which answers to a description in heading 84.56 and at the same time to a description in heading 84.57, 84.58, 84.59, 84.60, 84.61, 84.64 or 84.65 is to be classified in heading 84.56.
4. Heading 84.57 applies only to machine-tools for working metal, other than lathes (including turning centres), which can carry out different types of machining operations either:
 - (a) by automatic tool change from a magazine or the like in conformity with a machining programme (machining centres),
 - (b) by the automatic use, simultaneously or sequentially, of different unit heads working on a fixed position workpiece (unit construction machines, single station), or
 - (c) by the automatic transfer of the workpiece to different unit heads (multi-station transfer machines).
5. (A) For the purposes of heading 84.71, the expression “automatic data processing machines” means machines capable of:
 - (i) Storing the processing program or programs and at least the data immediately necessary for the execution of the program;
 - (ii) Being freely programmed in accordance with the requirements of the user;
 - (iii) Performing arithmetical computations specified by the user; and
 - (iv) Executing, without human intervention, a processing program which requires them to modify their execution, by logical decision during the processing run.
- (B) Automatic data processing machines may be in the form of systems consisting of a variable number of separate units.
- (C) Subject to paragraphs (D) and (E) below, a unit is to be regarded as being part of an automatic data processing system if it meets all of the following conditions:
 - (i) It is of a kind solely or principally used in an automatic data processing system;
 - (ii) It is connectable to the central processing unit either directly or through one or more other units; and
 - (iii) It is able to accept or deliver data in a form (codes or signals) which can be used by the system.

Separately presented units of an automatic data processing machine are to be classified in heading 84.71.

However, keyboards, X-Y co-ordinate input devices and disk storage units which satisfy the conditions of paragraphs (C) (ii) and (C) (iii) above, are in all cases to be classified as units of heading 84.71.

(D) Heading 84.71 does not cover the following when presented separately, even if they meet all of the conditions set forth in Note 5 (C) above:

- (i) Printers, copying machines, facsimile machines, whether or not combined;
- (ii) Apparatus for the transmission or reception of voice, images or other data, including apparatus for communication in a wired or wireless network (such as a local or wide area network);
- (iii) Loudspeakers and microphones;
- (iv) Television cameras, digital cameras and video camera recorders;
- (v) Monitors and projectors, not incorporating television reception apparatus.

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

6. Heading 84.82 applies, *inter alia*, to polished steel balls, the maximum and minimum diameters of which do not differ from the nominal diameter by more than 1 % or by more than 0.05 mm, whichever is less. Other steel balls are to be classified in heading 73.26.
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 84.79. Heading 84.79 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 84.70, the term “pocket-size” applies only to machines the dimensions of which do not exceed 170 mm x 100 mm x 45 mm.
9. (A) Notes 9(a) and 9(b) to Chapter 85 also apply with respect to the expressions “semiconductor devices” and “electronic integrated circuits”, respectively, as used in this Note and in heading 84.86. However, for the purposes of this Note and of heading 84.86, the expression “semiconductor devices” also covers photosensitive semiconductor devices and light-emitting diodes (LED).”
- (B) For the purposes of this Note and of heading 84.86, the expression “manufacture of flat panel displays” covers the fabrication of substrates into a flat panel. It does not cover the manufacture of glass or the assembly of printed circuit boards or other electronic components onto the flat panel. The expression “flat panel display” does not cover cathode-ray tube technology.

(C) Heading 84.86 also includes machines and apparatus solely or principally of a kind used for:

- (i) the manufacture or repair of masks and reticles;
- (ii) assembling semiconductor devices or electronic integrated circuits;
- (iii) lifting, handling, loading or unloading of boules, wafers, semiconductor devices, electronic integrated circuits and flat panel displays.

(D) Subject to Note 1 to Section XVI and Note 1 to Chapter 84, machines and apparatus answering to the description in heading 84.86 are to be classified in that heading and in no other heading of the Tariff.

SUBHEADING NOTES—

1. For the purposes of subheading 8465.20, the term “machining centres” applies only to machine-tools for working wood, cork, bone, hard rubber, hard plastics or similar hard materials, which can carry out different types of machining operations by automatic tool change from a magazine or the like in conformity with a machining programme.
2. For the purposes of subheading 8471.49, the term “systems” means automatic data processing machines whose units satisfy the conditions laid down in Note 5 (C) to Chapter 84 and which comprise at least a central processing unit, one input unit (for example, a keyboard or a scanner), and one output unit (for example, a visual display unit or a printer).
3. For the purposes of subheading 8481.20, the expression “valves for oleohydraulic or pneumatic Transmissions” means valves which are used specifically in the transmission of “fluid power” in a hydraulic or pneumatic system, where the energy source is supplied in the form of pressurised fluids (liquid or gas). These valves may be of any type (for example, pressure-reducing type, check type). Subheading 8481.20 takes precedence over all other subheadings of heading 8481.
4. Subheading 8482.40 applies only to bearings with cylindrical rollers of a uniform diameter not exceeding 5 mm and having a length which is at least three times the diameter. The ends of the rollers may be rounded.

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Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
84.01		Nuclear reactors; fuel elements (cartridges), non-irradiated, for nuclear reactors; machinery and apparatus for isotopic separation		
8401.10.00	. .	– Nuclear reactors	Free	Free
8401.20.00	. .	– Machinery and apparatus for isotopic separation, and parts thereof	Free	Free
8401.30.00	. .	– Fuel elements (cartridges), non-irradiated	Free	Free
8401.40.00	. .	– Parts of nuclear reactors	Free	Free
84.02		Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers		
		– Steam or other vapour generating boilers :		
8402.11.00	kg	– – Watertube boilers with a steam production exceeding 45 t per hour	Free	Free
8402.12.00	kg	– – Watertube boilers with a steam production not exceeding 45 t per hour	Free	Free
8402.19		– – Other vapour generating boilers, including hybrid boilers		
8402.19.10	kg	– – – Wood fired boilers	Free	Free
8402.19.19	kg	– – – Other	Free	Free
8402.20.00	kg	– Super– heated water boilers	Free	Free
8402.90		– Parts		
8402.90.10	kg	– – – Suitable for use with wood fired boilers	Free	Free
8402.90.90	kg	– – – Other	Free	Free
84.03		Central heating boilers other than those of 8402		
8403.10.00	kg	– Boilers	Free	Free
8403.90.00	kg	– Parts	Free	Free
85.04		Auxiliary plant for use with boilers of 8402 or 8403 (for example, economisers, super-heaters, soot removers, gas recoverers); condensers for steam or other vapour power units		
8404.10.00	kg	– Auxiliary plant for use with boilers of heading 84.02 or 84.03	Free	Free
8404.20.00	kg	– Condensers for steam or other vapour power units	Free	Free
8404.90.00	. .	– Parts	Free	Free
85.05		Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers		
8405.10.00	. .	– 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	Free	Free
8405.90.00	. .	– Parts	Free	Free
84.06		Steam turbines and other vapour turbines		
8406.10.00	kg	– Turbines for marine propulsion	Free	Free
		– Other turbines :		
8406.81.00	kg	– – Of an output exceeding 40 MW	Free	Free
8406.82.00	kg	– – Of an output not exceeding 40 MW	Free	Free
8406.90.00	. .	– Parts	Free	Free
84.07		Spark– ignition reciprocating or rotary internal combustion piston engines		
8407.10.00	No	– Aircraft engines	Free	Free
		– Marine propulsion engines :		
8407.21.00	No	– – Outboard motors	Free	Free
8407.29.00	No	– – Other	Free	Free
		– Reciprocating piston engines of a kind used for the propulsion of vehicles of Chapter 87 :		
8407.31.00	No	– – Of a cylinder capacity not exceeding 50 cc	Free	Free
8407.32.00	No	– – Of a cylinder capacity exceeding 50 cc but not exceeding 250 cc	Free	Free
8407.33.00	No	– – Of a cylinder capacity exceeding 250 cc but not exceeding 1,000 cc	Free	Free
8407.34.00	No	– – Of a cylinder capacity exceeding 1,000 cc	Free	Free
8407.90.00	No	– Other engines	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
84.08		Compression-ignition internal combustion piston engines (diesel or semi-diesel engines)		
8408.10.00	No	– Marine propulsion engines	Free	Free
8408.20.00	No	– Engines of a kind used for the propulsion of vehicles of Chapter 87	Free	Free
8408.90.00	No	– Other engines	Free	Free
84.09		Parts suitable for use solely or principally with the engines of 8407 or 8408		
8409.10.00	No	– For aircraft engines – Other :	Free	Free
8409.91.00	No	– – Suitable for use solely or principally with spark-ignition internal combustion piston engines	Free	Free
8409.99.00	No	– – Other	Free	Free
84.10		Hydraulic turbines, water wheels, and regulators		
		– Hydraulic turbines and water wheels :		
8410.11.00	No	– – Of a power not exceeding 1,000 kW	Free	Free
8410.12.00	No	– – Of a power exceeding 1,000 kW but not exceeding 10,000 kW	Free	Free
8410.13.00	No	– – Of a power exceeding 10,000 kW	Free	Free
8410.90.00	. .	– Parts, including regulators	Free	Free
84.11		Turbo-jets, turbo-propellers and other gas turbines		
		– Turbo-jets :		
8411.11.00	No	– – Of a thrust not exceeding 25 kN	Free	Free
8411.12.00	No	– – Of a thrust exceeding 25 kN	Free	Free
		– Turbo-propellers :		
8411.21.00	No	– – Of a power not exceeding 1,100 kW	Free	Free
8411.22.00	No	– – Of a power exceeding 1,100 kW	Free	Free
		– Other gas turbines :		
8411.81.00	No	– – Of a power not exceeding 5,000 kW	Free	Free
8411.82.00	No	– – Of a power exceeding 5,000 kW	Free	Free
		– Parts :		
8411.91.00	. .	– – Of turbo-jets or turbo-propellers	Free	Free
8411.99.00	. .	– – Other	Free	Free
84.12		Other engines and motors		
8412.10.00	No	– Reaction engines other than turbo-jets – Hydraulic power engines and motors :	Free	Free
8412.21.00	No	– – Linear acting (cylinders)	Free	Free
8412.29.00	No	– – Other	Free	Free
		– Pneumatic power engines and motors :		
8412.31.00	No	– – Linear acting (cylinders)	Free	Free
8412.39.00	No	– – Other	Free	Free
8412.80.00	No	– Other	Free	Free
8412.90.00	. .	– Parts	Free	Free
84.13		Pumps for liquids, whether or not fitted with a measuring device; liquid elevators		
		– Pumps fitted or designed to be fitted with a measuring		
8413.11.00	No	– – Pumps for dispensing fuel or lubricants, of the type used in filling-stations or in garages	Free	Free
8413.19.00	No	– – Other	Free	Free
8413.20.00	No	– Hand pumps, other than those of subheading 8413.11 or 8413.19	Free	Free
8413.30.00	No	– Fuel, lubricating or cooling medium pumps for internal combustion piston engines	Free	Free
8413.40.00	No	– Concrete pumps	Free	Free
8413.50.00	No	– Other reciprocating positive displacement pumps	Free	Free
8413.60.00	No	– Other rotary positive displacement pumps	Free	Free
8413.70.00	No	– Other centrifugal pumps	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
		Pumps for liquids, etc.-continued.		
		– Other pumps; liquid elevators :		
8413.81.00	No	– – Pumps	Free	Free
8413.82.00	No	– – Liquid elevators	Free	Free
		– Parts :		
8413.91.00	. .	– – Of pumps	Free	Free
8413.92.00	. .	– – Of liquid elevators	Free	Free
84.14		Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters		
8414.10.00	No	– Vacuum pumps	Free	Free
8414.20.00	. .	– Hand-or foot-operated air pumps	Free	Free
8414.30.00	No	– Compressors of a kind used in refrigerating equipment	Free	Free
8414.40.00	. .	– Air compressors mounted on a wheeled chassis for towing	Free	Free
		– Fans :		
8414.51.00	. .	– – Table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output not exceeding 125W	Free	Free
8414.59.00	No	– – Other	Free	Free
8414.60.00	No	– Hoods having a maximum horizontal side not exceeding 120 cm	Free	Free
8414.80.00	No	– Other	Free	Free
8414.90.00	. .	– Parts	Free	Free
84.15		Air conditioning machines, comprising a motor-driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be separately regulated		
8415.10.00	No	– Of a kind designed to be fixed to a window, wall, ceiling or floor, self-contained or “split-system”	Free	Free
8415.20.00	No	– Of a kind used for persons, in motor vehicles	Free	Free
		– Other :		
8415.81.00	No	– – Incorporating a refrigerating unit and a valve for reversal of the cooling/heat cycle (reversible heat pumps)	Free	Free
8415.82.00	No	– – Other, incorporating a refrigerating unit	Free	Free
8415.83.00	No	– – Not incorporating a refrigerating unit	Free	Free
8415.90.00	. .	– Parts	Free	Free
84.16		Furnace burners for liquid fuel, for pulverised solid fuel		
8416.10.00	No	– Furnace burners for liquid fuel	Free	Free
8416.20.00	No	– Other furnace burners, including combination burners	Free	Free
8416.30.00	No	– Mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances	Free	Free
8416.90.00	. .	– Parts	Free	Free
84.17		Industrial or laboratory furnaces and ovens, including incinerators, non-electric		
8417.10.00	No	– Furnaces and ovens for the roasting, melting or other heat-treatment of ores, pyrites or of metals	Free	Free
8417.20.00	No	– Bakery ovens, including biscuit ovens	Free	Free
8417.80.00	No	– Other	Free	Free
8417.90.00	. .	– Parts	Free	Free
84.18		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of 8415		
8418.10.00	No	– Combined refrigerator-freezers, fitted with separate external doors	Free	Free
		– Refrigerators, household type :		
8418.21.00	No	– – Compression-type	Free	Free
		– – Other		
8418.29.10	No	– – – Electrically operated	Free	Free
8418.29.90	No	– – – Other	Free	Free
8418.30.00	No	– Freezers of the chest type, not exceeding 800 l capacity	Free	Free
8418.40.00	No	– Freezers of the upright type, not exceeding 900 l capacity	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
		Refrigerators, freezers and other refrigerating, etc.-continued.		
8418.50		– Other furniture (chests, cabinets, display counters, show-cases and the like) for storage and display, incorporating refrigerating or freezing equipment		
8418.50.10	No	– – – Dispensers of a kind suitable for use in hotels, restaurants and the like	Free	Free
8418.50.90	No	– – – Other	Free	Free
		– Other refrigerating or freezing equipment; heat pumps :		
8418.61.00	No	– – Heat pumps other than air conditioning machines of heading 84.15	Free	Free
8418.69		– – Other		
8418.69.10	No	– – – Condensing unit, self-contained comprising a compressor, condenser and pump for use with air conditioning units	Free	Free
8418.69.90	No	– – – Other	Free	Free
		– Parts :		
8418.91.00	. .	– – Furniture designed to receive refrigerating or freezing equipment	Free	Free
8418.99		– – Other		
8418.99.10	. .	– – – Coolroom freezer panels	Free	Free
8418.99.90	. .	– – – Other	Free	Free
84.19		Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 85.14) for treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric.		
		– Instantaneous or storage water heaters, non– electric :		
8419.11.00	No	– – Instantaneous gas water heaters	Free	Free
8419.19.00	No	– – Other	Free	Free
8419.20.00	No	– Medical, surgical or laboratory sterilisers	Free	Free
		– Dryers :		
8419.31.00	No	– – For agricultural products	Free	Free
8419.32.00	No	– – For wood, paper pulp, paper or paperboard	Free	Free
8419.39.00	No	– – Other	Free	Free
8419.40.00	No	– Distilling or rectifying plant	Free	Free
8419.50.00	No	– Heat exchange units	Free	Free
8419.60.00	No	– Machinery for liquefying air or other gases	Free	Free
		– Other machinery, plant and equipment :		
8419.81.00	No	– – For making hot drinks or for cooking or heating food	Free	Free
8419.89.00	No	– – Other	Free	Free
8419.90.00	. .	– Parts	Free	Free
84.20		Calendering or other rolling machines, other than for metals or glass, and cylinders therefor		
8420.10.00	No	– Calendering or other rolling machines	Free	Free
		– Parts :		
8420.91.00	. .	– – Cylinders	Free	Free
8420.99.00	. .	– – Other	Free	Free
84.21		Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases		
		– Centrifuges, including centrifugal dryers :		
8421.11.00	No	– – Cream separators	Free	Free
8421.12.00	No	– – Clothes-dryers	Free	Free
		– – Other		
8421.19.10	No	– – – Centrifugal clarifiers for milk	Free	Free
8421.19.11	No	– – – Centrifuges for extracting honey	Free	Free
8421.19.19	No	– – – Other	Free	Free
		– Filtering or purifying machinery and apparatus for liquids :		
8421.21.00	No	– – For filtering or purifying water	Free	Free
8421.22.00	No	– – For filtering or purifying beverages other than water	Free	Free
8421.23.00	No	– – Oil or petrol-filters for internal combustion engines	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
		Centrifuges, including centrifugal dryers, etc.-continued.		
		– Filtering or purifying machinery, etc.-continued.		
8421.29.00	No	– – Other	Free	Free
		– Filtering or purifying machinery and apparatus for gases :		
8421.31.00	No	– – Intake air filters for internal combustion engines	Free	Free
8421.39.00	No	– – Other	Free	Free
		– Parts :		
8421.91.00	. .	– – Of centrifuges, including centrifugal dryers	Free	Free
8421.99.00	. ,	– – Other	Free	Free
84.22		Dish washing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages		
		– Dish washing machines :		
8422.11.00	No	– – Of the household type	Free	Free
8422.19.00	No	– – Other	Free	Free
8422.20.00	No	– Machinery for cleaning or drying bottles or other containers	Free	Free
8422.30.00	No	– Machinery for filling, closing, sealing, or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; machinery for aerating beverages	Free	Free
8422.40.00	No	– Other packing or wrapping machinery (including heat-shrink wrapping machinery)	Free	Free
8422.90.00	. .	– Parts	Free	Free
84.23		Weighing machinery (excluding balances of a sensitivity of 5 cg or better), including weight operated counting or checking machines ; weighing machine weights of all kinds		
8423.10.00	No	– Personal weighing machines, including baby scales; household scales	Free	Free
8423.20.00	No	– Scales for continuous weighing of goods on conveyors	Free	Free
8423.30.00	No	– Constant weight scales and scales for discharging a predetermined weight of material into a bag or container, including hopper scales	Free	Free
		– Other weighing machinery :		
8423.81.00	No	– – Having a maximum weighing capacity not exceeding 30 kg	Free	Free
8423.82.00	No	– – Having a maximum weighing capacity exceeding 30 kg but not exceeding 5,000 kg	Free	Free
8423.89		– – Other		
8423.89.10	No	– – – Portable or mobile platform type scales	Free	Free
8423.89.19	No	– – – Other	Free	Free
8423.90.00	. .	– Weighing machine weights of all kinds; parts of weighing machinery	Free	Free
84.24		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		
8424.10.00	No	– Fire extinguishers, whether or not charged	Free	Free
8424.20.00	No	– Spray guns and similar appliances	Free	Free
8424.30.00	No	– Steam or sand blasting machines and similar jet projecting machines	Free	Free
		– Agricultural or horticultural sprayers :		
8424.41.00	No	– – Portable sprayers	Free	Free
8424.49.00	No	– – Other	Free	Free
		– Other appliances :		
8424.82.00	No	– – Agricultural or horticultural	Free	Free
8424.89.00	No	– – Other	Free	Free
8424.90.00	. .	– Parts	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
84.25		Pulley tackle and hoists other than skip hoists; winches and capstans; jacks		
		– Pulley tackle and hoists other than skip hoists or hoists of a kind used for raising vehicles :		
8425.11.00	No	-- Powered by electric motor	Free	Free
8425.19.00	No	-- Other	Free	Free
		– Winches; capstans :		
8425.31.00	No	-- Powered by electric motor	Free	Free
8425.39.00	No	-- Other	Free	Free
		– Jacks; hoists of a kind used for raising vehicles :		
8425.41.00	No	-- Built-in jacking systems of a type used in garages	Free	Free
8425.42.00	No	-- Other jacks and hoists, hydraulic	Free	Free
8425.49.00	No	-- Other	Free	Free
84.26		Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane		
		– Overhead travelling cranes, transporter cranes, gantry cranes, bridge cranes, mobile lifting frames and straddle carriers :		
8426.11		-- Overhead travelling cranes on fixed support		
8426.11.10	No	---- New	Free	Free
8426.11.20	No	---- Used or reconditioned	Free	Free
8426.12		-- Mobile lifting frames on tyres and straddle carriers		
8426.12.10	No	---- New	Free	Free
8426.12.20	No	---- Used or reconditioned	Free	Free
8426.19		-- Other		
8426.19.10	No	---- New	Free	Free
8426.19.20	No	---- Used or reconditioned	Free	Free
8426.20		– Tower cranes		
8426.20.10	No	-- New	Free	Free
8426.20.20	No	-- Used or reconditioned	Free	Free
8426.30		– Portal or pedestal jib cranes		
8426.30.10	No	-- New	Free	Free
8426.30.20	No	-- Used or reconditioned	Free	Free
		– Other machinery, self-propelled :		
8426.41		-- On tyres		
8426.41.10	No	---- New	Free	Free
8426.41.20	No	---- Used or reconditioned	Free	Free
8426.49		-- Other		
8426.49.10	No	---- New	Free	Free
8426.49.20	No	---- Used or reconditioned	Free	Free
		– Other machinery :		
8426.91		-- Designed for mounting on road vehicles		
8426.91.10	No	---- New	Free	Free
8426.91.20	No	---- Used or reconditioned	Free	Free
8426.99		-- Other		
8426.99.10	No	---- New	Free	Free
8426.99.20	No	---- Used or reconditioned	Free	Free
84.27		Fork-lift trucks; other works trucks fitted with lifting or handling equipment		
8427.10		– Self-propelled trucks powered by an electric motor		
8427.10.10	No	-- New	Free	Free
8427.10.20	No	-- Used or reconditioned	Free	Free
8427.20		– Other self-propelled trucks		
8427.20.10	No	-- New	Free	Free
8427.20.20	No	-- Used or reconditioned	Free	Free
8427.90		– Other trucks		
8427.90.10	No	-- New	Free	Free
8427.90.20	No	-- Used or reconditioned	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
84.28		Other lifting, handling, loading or unloading machinery (for example, lifts, escalators, conveyors, teleferics)		
8428.10.00	kg	– Lifts and skip hoists	Free	Free
8428.20.00	kg	– Pneumatic elevators and conveyors	Free	Free
		– Other continuous-action elevators and conveyors, for goods or materials :		
8428.31.00	kg	– – Specially designed for underground use	Free	Free
8428.32.00	kg	– – Other, bucket type	Free	Free
8428.33.00	kg	– – Other, belt type	Free	Free
8428.39.00	kg	– – Other	Free	Free
8428.40.00	kg	– Escalators and moving walkways	Free	Free
8428.60.00	kg	– Teleferics, chair-lifts, ski-draglines; traction mechanisms for funiculars	Free	Free
8428.90.00	kg	– Other machinery	Free	Free
84.29		Self-propelled bulldozers, angledozers, graders, levellers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers.		
		– Bulldozers and angledozers:		
8429.11		– – Track laying		
8429.11.10	No	– – – New	Free	Free
8429.11.20	No	– – – Used or reconditioned	Free	Free
8429.19		– – Other		
8429.19.10	No	– – – New	Free	Free
8429.19.20	No	– – – Used or reconditioned	Free	Free
84.29.20		– Graders and levellers		
8429.20.10	No	– – – New	Free	Free
8429.20.20	No	– – – Used or reconditioned	Free	Free
8429.30		– Scrapers		
8429.30.10	No	– – – New	Free	Free
8429.30.20	No	– – – Used or reconditioned	Free	Free
8429.40		– Tamping machines and road rollers–		
8429.40.10	No	– – – New	Free	Free
8429.40.20	No	– – – Used or reconditioned	Free	Free
		– Mechanical shovels, excavators and shovel loaders:		
8429.51		– – Front-end shovel loaders		
8429.51.10	No	– – – New	Free	Free
8429.51.20	No	– – – Used or reconditioned	Free	Free
8429.52		– – Machinery with a 360° revolving superstructure		
8429.52.10	No	– – – New	Free	Free
8429.52.20	No	– – – Used or reconditioned	Free	Free
8429.59		– – Other		
8429.59.10	No	– – – New	Free	Free
8429.59.20	No	– – – Used or reconditioned	Free	Free
84.30		Other moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or ores; pile-drivers and pile-extractors; snow-ploughs and snow-blowers		
8430.10		– Pile-drivers and pile-extractors		
8430.10.10	No	– – New	Free	Free
8430.10.20	No	– – Used or reconditioned	Free	Free
8430.20		– Snow-ploughs and snow-blowers		
8430.20.10	No	– – New	Free	Free
8430.20.20	No	– – Used or reconditioned	Free	Free
		– Coal or rock cutters and tunnelling machinery :		
8430.31		– – Self-propelled		
8430.31.10	No	– – – New	Free	Free
8430.31.20	No	– – – Used or reconditioned	Free	Free
8430.39		– – Other		
8430.39.10	No	– – – New	Free	Free
8430.39.20	No	– – – Used or reconditioned	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
Other moving, grading, levelling, scraping, etc. -continued				
– Other boring or sinking machinery :				
8430.41		– – Self-propelled		
8430.41.10	No	– – – New	Free	Free
8430.41.20	No	– – – Used or reconditioned	Free	Free
8430.49		– – Other		
8430.49.10	No	– – – New	Free	Free
8430.49.20	No	– – – Used or reconditioned	Free	Free
8430.50		– Other machinery, self-propelled		
8430.50.10	No	– – New	Free	Free
8430.50.20	No	– – Used or reconditioned	Free	Free
– Other machinery, not self-propelled :				
8430.61		– – Tamping or compacting machinery		
8430.61.10	No	– – – New	Free	Free
8430.61.20	No	– – – Used or reconditioned	Free	Free
8430.69		– – Other		
8430.69.10	No	– – – New	Free	Free
8430.69.20	No	– – – Used or reconditioned	Free	Free
84.31		Parts suitable for use solely or principally with the machinery of 8425 to 8430		
8431.10.00	. .	– Of machinery of heading 84.25	Free	Free
8431.20.00	. .	– Of machinery of heading 84.27	Free	Free
– Of machinery of heading 84.28 :				
8431.31.00	. .	– – Of lifts, skip hoists or escalators	Free	Free
8431.39.00	. .	– – Other	Free	Free
– Of machinery of heading 84.26, 84.29 or 84.30 :				
8431.41.00	. .	– – Buckets, shovels, grabs and grips	Free	Free
8431.42.00	. .	– – Bulldozer or angledozer blades	Free	Free
8431.43.00	. .	– – Parts for boring or sinking machinery of subheading 8430.41 or 8430.49	Free	Free
8431.49.00	. .	– – Other	Free	Free
84.32		Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers		
8432.10.00	No	– Ploughs	Free	Free
– Harrows, scarifiers, cultivators, weeders and hoes :				
8432.21.00	No	– – Disc harrows	Free	Free
8432.29.00	No	– – Other	Free	Free
– Seeders, planters and transplanters :				
8432.31.00	No	– – No-till direct seeders, planters and transplanters	Free	Free
8432.39.00	No	– – Other	Free	Free
– Manure spreaders and fertiliser distributors :				
8432.41.00	No	– – Manure spreaders	Free	Free
8432.42.00	No	– – Fertiliser distributors	Free	Free
8432.80.00	No	– Other machinery		
8432.90.00	. .	– Parts		
84.33		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 8437		
– Mowers for lawns, parks or sports-grounds :				
8433.11.00	No	– – Powered, with the cutting device rotating in a horizontal plane	Free	Free
8433.19		– – Other		
8433.19.10	No	– – – Other lawn mowers, powered	Free	Free
8433.19.19	No	– – – Other	Free	Free
8433.20.00	No	– Other mowers, including cutter bars for tractor mounting	Free	Free
8433.30.00	No	– Other haymaking machinery	Free	Free
8433.40.00	No	– Straw or fodder balers, including pick– up balers	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
Harvesting or threshing machinery, including straw, etc. -continued				
– Other harvesting machinery; threshing machinery :				
8433.51.00	No	– – Combine harvester– threshers	Free	Free
8433.52.00	No	– – Other threshing machinery	Free	Free
8433.53.00	No	– – Root or tuber harvesting machines	Free	Free
8433.59.00	No	– – Other	Free	Free
8433.60.00	No	– Machines for cleaning, sorting or grading eggs, fruit or other agricultural produce	Free	Free
8433.90.00	. .	– Parts	Free	Free
84.34		Milking machines and dairy machinery		
8434.10.00	No	– Milking machines	Free	Free
8434.20.00	No	– Dairy machinery	Free	Free
8434.90.00	. .	– Parts	Free	Free
84.35		Presses, crushers and similar machinery used in the manufacture of wine, cider, fruit juices or similar beverages		
8435.10.00	No	– Machinery	Free	Free
8435.90.00	. .	– Parts	Free	Free
84.36		Other agricultural, horticultural, forestry, poultry-keeping or bee-keeping machinery, including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders		
8436.10.00	No	– Machinery for preparing animal feeding stuffs	Free	Free
– Poultry– keeping machinery; poultry incubators and brooders :				
8436.21.00	No	– – Poultry incubators and brooders	Free	Free
8436.29.00	No	– – Other	Free	Free
8436.80.00	No	– Other machinery	Free	Free
– Parts :				
8436.91.00	. .	– – Of poultry-keeping machinery or poultry incubators and brooders	Free	Free
8436.99.00	. .	– – Other	Free	Free
84.37		Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables; machinery used in the milling industry or for the working of cereals or dried leguminous vegetables, other than farm– type machinery		
8437.10.00	No	– Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables	Free	Free
8437.80.00	No	– Other machinery	Free	Free
8437.90.00	. .	– Parts	Free	Free
84.38		Machinery, not specified or included elsewhere in this chapter, for the industrial preparation or manufacture of food or drink, other than machinery for the extraction or preparation of animal or fixed vegetable fats or oils		
8438.10.00	No	– Bakery machinery and machinery for the manufacture of macaroni, spaghetti or similar products	Free	Free
8438.20.00	No	– Machinery for the manufacture of confectionery, cocoa or chocolate	Free	Free
8438.30.00	No	– Machinery for sugar manufacture	Free	Free
8438.40.00	No	– Brewery machinery	Free	Free
8438.50.00	No	– Machinery for the preparation of meat or poultry	Free	Free
8438.60.00	No	– Machinery for the preparation of fruits, nuts or vegetables	Free	Free
8438.80.00	No	– Other machinery	Free	Free
8438.90.00	. .	– Parts	Free	Free
84.39		Machinery for making pulp of fibrous cellulosic material or for making or finishing paper or paperboard		
8439.10.00	kg	– Machinery for making pulp of fibrous cellulosic material	Free	Free
8439.20.00	kg	– Machinery for making paper or paperboard	Free	Free
8439.30.00	kg	– Machinery for finishing paper or paperboard	Free	Free
– Parts :				
8439.91.00	. .	– – Of machinery for making pulp of fibrous cellulosic material	Free	Free
8439.99.00	. .	– – Other	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
84.40		Book-binding machinery, including book-sewing machines		
8440.10.00	No	– Machinery	Free	Free
8440.90.00	. .	– Parts	Free	Free
84.41		Other machinery for making up paper pulp, paper or paperboard, including cutting machines of all kinds		
8441.10.00	No	– Cutting machines	Free	Free
8441.20.00	kg	– Machines for making bags, sacks or envelopes	Free	Free
8441.30.00	kg	– Machines for making cartons, boxes, cases, tubes, drums or similar containers, other than by moulding	Free	Free
8441.40.00	kg	– Machines for moulding articles in paper pulp, paper or paperboard	Free	Free
8441.80.00	kg	– Other machinery	Free	Free
8441.90.00	. .	– Parts	Free	Free
84.42		Machinery, apparatus and equipment (other than the machines of headings 84.56 to 84.65) for preparing or making plates, cylinders or other printing components; plates, cylinders and other printing components; plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished).		
8442.30.00	kg	– Machinery, apparatus and equipment	Free	Free
8442.40.00	. .	– Parts of the foregoing machinery, apparatus or equipment	Free	Free
8442.50.00	kg	– Plates, cylinders and other printing components; plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished)	Free	Free
84.43		Printing machinery used for printing by means of the printing type, blocks, plates, cylinders and other printing components of heading 84.42; other printers, copying machines and facsimile machines, whether or not combined, parts and accessories thereof		
		– Printing machinery used for printing by means of plates, cylinders and other printing components of heading 84.42 :		
8443.11.00	kg	– – Offset printing machinery, reel– fed	Free	Free
8443.12.00	kg	– – Offset printing machinery, sheet– fed, office type (using sheets with one side not exceeding 22 cm and the other side not exceeding 36 cm in the unfolded state)	Free	Free
8443.13.00	kg	– – Other offset printing machinery	Free	Free
8443.14.00	kg	– – Letterpress printing machinery, reel fed, excluding flexographic printing	Free	Free
8443.15.00	kg	– – Letterpress printing machinery, other than reel fed, excluding flexographic printing	Free	Free
8443.16.00	kg	– – Flexographic printing machinery	Free	Free
8443.17.00	kg	– – Gravure printing machinery	Free	Free
8443.19.00	kg	– – Other	Free	Free
		– Other printers, copying machines and facsimile machines, whether or not combined :		
8443.31.00	kg	– – Machines which perform two or more of the functions of printing, copying or facsimile transmission, capable of connecting to an automatic data processing machine or to a network	Free	Free
8443.32.00	No	– – Other, capable of connecting to an automatic data processing machine or to a network	Free	Free
8443.39.00	No	– – Other	Free	Free
		– Parts and accessories :		
8443.91.00	. .	– – Parts and accessories of printing machinery used for printing by means of plates, cylinders and other printing components of heading 84.42	Free	Free
8443.99.00	. .	– – Other	Free	Free
84.44		Machines for extruding, drawing, texturing or cutting man-made textile materials		
8444.00.00	kg		Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
84.45		Machines for preparing textile fibres; spinning, doubling or twisting machines and other machinery for producing textile yarns; textile reeling or winding (including weft-winding) machines and machines for preparing textile yarns for use on the machines of 8446 or 8447		
		– Machines for preparing textile fibres :		
8445.11.00	kg	-- Carding machines	Free	Free
8445.12.00	kg	-- Combing machines	Free	Free
8445.13.00	kg	-- Drawing or roving machines	Free	Free
8445.19.00	kg	-- Other	Free	Free
8445.20.00	kg	– Textile spinning machines	Free	Free
8445.30.00	kg	– Textile doubling or twisting machines	Free	Free
8445.40.00	kg	– Textile winding (including weft-winding) or reeling machines	Free	Free
8445.90.00	kg	– Other	Free	Free
84.46		Weaving machines (looms)		
8446.10.00	No	– For weaving fabrics of a width not exceeding 30 cm	Free	Free
		– For weaving fabrics of a width exceeding 30 cm, shuttle type:		
8446.21.00	No	-- Power looms	Free	Free
8446.29.00	No	-- Other	Free	Free
8446.30.00	No	– For weaving fabrics of a width exceeding 30 cm, shuttleless type		
84.47		Knitting machines, stitch-bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting		
		– Circular knitting machines :		
8447.11.00	No	-- With cylinder diameter not exceeding 165 mm	Free	Free
8447.12.00	No	-- With cylinder diameter exceeding 165 mm	Free	Free
8447.20.00	No	– Flat knitting machines; stitch-bonding machines	Free	Free
8447.90.00	No	– Other	Free	Free
84.48		Auxiliary machinery for use with machines of 8444, 8445, 8446 or 8447 (for example, dobbies, jacquards, automatic stop motions, shuttle changing mechanisms); parts and accessories suitable for use solely or principally with the machines of this heading or of 8444, 8445, 8446 or 8447 (for example, spindles and spindle flyers, card clothing, combs, extruding nipples, shuttles, healds and heald-frames, hosiery needles)		
		– Auxiliary machinery for machines of heading 84.44, 84.45, 84.46 or 84.47 :		
8448.11.00	. .	-- Dobbies and Jacquards; card reducing, copying, punching or assembling machines for use therewith	Free	Free
8448.19.00	. .	-- Other	Free	Free
8448.20.00	. .	– Parts and accessories of machines of heading 84.44 or of their auxiliary machinery	Free	Free
		– Parts and accessories of machines of heading 84.45 or of their auxiliary machinery :		
8448.31.00	. .	-- Card clothing	Free	Free
8448.32.00	. .	-- Of machines for preparing textile fibres, other than card clothing	Free	Free
8448.33.00	. .	-- Spindles, spindle flyers, spinning rings and ring travellers	Free	Free
8448.39.00	. .	-- Other	Free	Free
		– Parts and accessories of weaving machines (looms) or of their auxiliary machinery :		
8448.42.00	. .	-- Reeds for looms, healds and heald-frames	Free	Free
8448.49.00	. .	-- Other	Free	Free
		– Parts and accessories of machines of heading 84.47 or of their auxiliary machinery :		
8448.51.00	. .	-- Sinkers, needles and other articles used in forming stitches	Free	Free
8448.59.00	. .	-- Other	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
84.49				
8449.00.00	. .	Machinery for the manufacture or finishing of felt or nonwovens in the piece or in shapes, including machinery for making felt hats; blocks for making hats	Free	Free
84.50				
		Household or laundry-type washing machines, including machines which both wash and dry		
		– Machines, each of a dry linen capacity not exceeding 10kg:		
8450.11.00	No	– – Fully-automatic machines	Free	Free
8450.12.00	No	– – Other machines, with built-in centrifugal drier	Free	Free
8450.19.00	No	– – Other	Free	Free
8450.20.00	No	– Machines, each of a dry linen capacity exceeding 10 kg	Free	Free
8450.90.00	. .	– Parts	Free	Free
84.51				
		Machinery (other than machines of 8450) for washing, cleaning, wringing, drying, ironing, pressing (including fusing presses), bleaching, dyeing, dressing, finishing, coating or impregnating textile yarns, fabrics or made up textile articles and machines for applying the paste to the base fabric or other support used in the manufacture of floor coverings such as linoleum; machines for reeling, unreeling, folding, cutting or pinking textile fabrics		
8451.10.00	No	– Dry-cleaning machines	Free	Free
		– Drying machines :		
8451.21.00	No	– – Each of a dry linen capacity not exceeding 10 kg	Free	Free
8451.29.00	No	– – Other	Free	Free
8451.30.00	No	– Ironing machines and presses (including fusing presses)	Free	Free
8451.40.00	No	– Washing, bleaching or dyeing machines	Free	Free
8451.50.00	No	– Machines for reeling, unreeling, folding, cutting or pinking textile fabrics	Free	Free
8451.80.00	No	– Other machinery	Free	Free
8451.90.00	. .	– Parts	Free	Free
84.52				
		Sewing machines, other than book-sewing machines of 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles		
8452.10.00	No	– Sewing machines of the household type	Free	Free
		– Other sewing machines :		
8452.21.00	No	– – Automatic units	Free	Free
8452.29.00	No	– – Other	Free	Free
8452.30.00	No	– Sewing machine needles	Free	Free
8452.90.00	No	– Furniture, bases and covers for sewing machines and parts thereof; other parts of sewing machines	Free	Free
84.53				
		Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather, other than sewing machines		
8453.10.00	kg	– Machinery for preparing, tanning or working hides, skins or leather	Free	Free
8453.20.00	kg	– Machinery for making or repairing footwear	Free	Free
8453.80.00	kg	– Other machinery	Free	Free
8453.90.00	. .	– Parts	Free	Free
84.54				
		Converters, ladles, ingot moulds and casting machines, of a kind used in metallurgy or in metal foundries		
8454.10.00	kg	– Converters	Free	Free
8454.20.00	kg	– Ingot moulds and ladles	Free	Free
8454.30.00	kg	– Casting machines	Free	Free
8454.90.00	. .	– Parts	Free	Free
84.55				
		Metal-rolling mills and rolls therefor		
8455.10.00	kg	– Tube mills	Free	Free
		– Other rolling mills :		
8455.21.00	kg	– – Hot or combination hot and cold	Free	Free
8455.22.00	kg	– – Cold	Free	Free
8455.30.00	kg	– Rolls for rolling mills	Free	Free
8455.90.00	. .	– Other parts	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
84.56		Machine-tools for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electro-discharge, electro-chemical, electron beam, ionic-beam or plasma arc processes; water-jet cutting machines		
		– Operated by laser or other light or photon beam processes :		
8456.11.00	kg	– – Operated by laser	Free	Free
8456.12.00	kg	– – Operated by other light or photon beam processes	Free	Free
8456.20.00	kg	– Operated by ultrasonic processes	Free	Free
8456.30.00	kg	– Operated by electro-discharge processes	Free	Free
8456.40.00	kg	– Operated by plasma arc processes	Free	Free
8456.50.00	kg	– Water-jet cutting machines	Free	Free
8456.90.00	kg	– Other	Free	Free
84.57		Machining centres, unit construction machines (single station) and multi-station transfer machines, for working metal		
8457.10.00	No	– Machining centres	Free	Free
8457.20.00	kg	– Unit construction machines (single station)	Free	Free
8457.30.00	kg	– Multi-station transfer machines	Free	Free
84.58		Lathes (including turning centres) for removing metal		
		– Horizontal lathes :		
8458.11.00	No	– – Numerically controlled	Free	Free
8458.19.00	kg	– – Other	Free	Free
		– Other lathes :		
8458.91.00	kg	– – Numerically controlled	Free	Free
8458.99.00	kg	– – Other	Free	Free
84.59		Machine-tools (including way-type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes (including turning centres) of heading 84.58		
8459.10.00	kg	– Way-type unit head machines	Free	Free
		– Other drilling machines :		
8459.21.00	kg	– – Numerically controlled	Free	Free
8459.29.00	kg	– – Other	Free	Free
		– Other boring-milling machines :		
8459.31.00	kg	– – Numerically controlled	Free	Free
8459.39.00	kg	– – Other	Free	Free
		– Other boring machines :		
8459.41.00	kg	– – Numerically controlled	Free	Free
8459.49.00	kg	– – Other	Free	Free
		– Milling machines, knee-type :		
8459.51.00	kg	– – Numerically controlled	Free	Free
8459.59.00	kg	– – Other	Free	Free
		– Other milling machines :		
8459.61.00	kg	– – Numerically controlled	Free	Free
8459.69.00	kg	– – Other	Free	Free
8459.70.00	kg	– Other threading or tapping machines	Free	Free
84.60		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 8461		
		– Flat-surface grinding machines :		
8460.12.00	kg	– – Numerically controlled	Free	Free
8460.19.00	kg	– – Other	Free	Free
		– Other grinding machines :		
8460.22.00	kg	– – Centreless grinding machines, numerically controlled	Free	Free
8460.23.00	kg	– – Other cylindrical grinding machines, numerically controlled	Free	Free
8460.24.00	kg	– – Other, numerically controlled	Free	Free
8460.29.00	kg	– – Other	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
		Machine-tools for deburring, sharpening, grinding, etc. -continued		
		– Sharpening (tool or cutter grinding) machines :		
8460.31.00	kg	– – Numerically controlled	Free	Free
8460.39.00	kg	– – Other	Free	Free
8460.40.00	kg	– Honing or lapping machines	Free	Free
8460.90.00	kg	– Other	Free	Free
84.61		Machine-tools for planing, shaping, slotting, broaching, gear cutting, gear grinding or gear finishing, sawing, cutting– off and other machine– tools working by removing metal, or cermets, not elsewhere specified or included		
8461.20.00	kg	– Shaping or slotting machines	Free	Free
8461.30.00	kg	– Broaching machines	Free	Free
8461.40.00	kg	– Gear cutting, gear grinding or gear finishing machines	Free	Free
8461.50.00	kg	– Sawing or cutting-off machines	Free	Free
8461.90.00	kg	– Other	Free	Free
84.62		Machine-tools (including presses) for working metal by forging, hammering or die-stamping; machine-tools (including presses) for working metal by bending, folding, straightening, flattening, shearing, punching or notching; presses for working metal or metal carbides, not specified above		
8462.10.00	kg	– Forging or die-stamping machines (including presses) and hammers	Free	Free
		– Bending, folding, straightening or flattening machines (including presses) :		
8462.21.00	kg	– – Numerically controlled	Free	Free
8462.29.00	kg	– – Other	Free	Free
		– Shearing machines (including presses), other than combined punching and shearing machines :		
8462.31.00	kg	– – Numerically controlled	Free	Free
8462.39.00	kg	– – Other	Free	Free
		– Punching or notching machines (including presses), including combined punching and shearing machines :		
8462.41.00	kg	– – Numerically controlled	Free	Free
8462.49.00	kg	– – Other	Free	Free
		– Other :		
8462.91.00	kg	– – Hydraulic presses	Free	Free
8462.99.00	kg	– – Other	Free	Free
84.63		Other machine-tools for working metal, or cermets, without removing material		
8463.10.00	kg	– Draw-benches for bars, tubes, profiles, wire or the like	Free	Free
8463.20.00	kg	– Thread rolling machines	Free	Free
8463.30.00	kg	– Machines for working wire	Free	Free
8463.90.00	kg	– Other	Free	Free
84.64		Machine-tools for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass		
8464.10.00	kg	– Sawing machines	Free	Free
8464.20.00	kg	– Grinding or polishing machines	Free	Free
8464.90.00	kg	– Other	Free	Free
84.65		Machine-tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials		
8465.10.00	kg	– Machines which can carry out different types of machining operations without tool change between such operations	Free	Free
8465.20.00	kg	– Machining centres	Free	Free
		– Other :		
8465.91.00	kg	– – Sawing machines	Free	Free
8465.92.00	kg	– – Planing, milling or moulding (by cutting) machines	Free	Free
8465.93.00	kg	– – Grinding, sanding or polishing machines	Free	Free
8465.94.00	kg	– – Bending or assembling machines	Free	Free
8465.95.00	kg	– – Drilling or morticing machines	Free	Free
8465.96.00	kg	– – Splitting, slicing or paring machines	Free	Free
8465.99.00	kg	– – Other	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
84.66		Parts and accessories suitable for use solely or principally with the machines of headings 84.56 to 84.65, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for the machines; tool holders for any type of tool for working in the hand.		
8466.10.00	. .	– Tool holders and self-opening dieheads	Free	Free
8466.20.00	. .	– Work holders	Free	Free
8466.30.00	. .	– Dividing heads and other special attachments for machines	Free	Free
		– Other :		
8466.91.00	. .	– – For machines of heading 84.64	Free	Free
8466.92.00	. .	– – For machines of heading 84.65	Free	Free
8466.93.00	. .	– – For machines of headings 84.56 to 84.61	Free	Free
8466.94.00	. .	– – For machines of heading 84.62 or 84.63	Free	Free
84.67		Tools for working in the hand, pneumatic hydraulic or with self-contained electric or non-electric motor		
		– Pneumatic :		
8467.11.00	No	– – Rotary type (including combined rotary-percussion)	Free	Free
8467.19.00	No	– – Other	Free	Free
		– With self-contained electric motor :		
8467.21.00	No	– – Drills of all kinds	Free	Free
8467.22.00	No	– – Saws	Free	Free
8467.29.00	No	– – Other	Free	Free
		– Other tools :		
8467.81.00	No	– – Chain saws	Free	Free
8467.89.00	No	– – Other	Free	Free
		– Parts :		
8467.91.00	. .	– – Of chain saws	Free	Free
8467.92.00	. .	– – Of pneumatic tools	Free	Free
8467.99.00	. .	– – Other	Free	Free
84.68		Machinery and apparatus for soldering, brazing or welding, whether or not capable of cutting, other than those of 8515; gas-operated surface tempering machines and appliances		
8468.10.00	kg	– Hand-held blow pipes	Free	Free
8468.20.00	kg	– Other gas-operated machinery and apparatus	Free	Free
8468.80.00	kg	– Other machinery and apparatus	Free	Free
8468.90.00	. .	– Parts	Free	Free
84.70		Calculating machines and pocket size data recording, reproducing and displaying machines with calculating functions; accounting machines, postage-franking machines, ticket-issuing machines and similar machines, incorporating a calculating device; cash registers		
8470.10.00	No	– Electronic calculators capable of operation without an external source of electric power and pocket-size data recording, reproducing and displaying machines with calculating functions	Free	Free
		– Other electronic calculating machines :		
8470.21.00	No	– – Incorporating a printing device	Free	Free
8470.29.00	No	– – Other	Free	Free
8470.30.00	No	– Other calculating machines	Free	Free
8470.50.00	No	– Cash registers	Free	Free
8470.90.00	No	– Other	Free	Free
84.71		Automatic data processing machines and units thereof; magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, not elsewhere specified or included		
8471.30.00	. .	– Portable automatic data processing machines, weighing not more than 10 kg, consisting of at least a central processing unit, a keyboard and a display	Free	Free
		– Other automatic data processing machines :		
8471.41.00	. .	– – Comprising in the same housing at least a central processing unit and an input and output unit, whether or not combined	Free	Free
8471.49.00	. .	– – Other, presented in the form of systems	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
Automatic data processing machines and units thereof, etc. -continued				
8471.50.00	. .	– Processing units other than those of subheading 8471.41 or 8471.49, whether or not containing in the same housing one or two of the following types of unit : storage units, input units, output units	Free	Free
8471.60.00	. .	– Input or output units, whether or not containing storage units in the same housing	Free	Free
8471.70.00	. .	– Storage units	Free	Free
8471.80.00	. .	– Other units of automatic data processing machines	Free	Free
8471.90.00	. .	– Other	Free	Free
84.72		Other office machines (for example, hectograph or stencil duplicating machines, addressing machines, automatic banknote dispensers, coin-sorting machines, coin-counting or wrapping machines, pencil sharpening machines, perforating or stapling machines)		
8472.10.00	No	– Duplicating machines	Free	Free
8472.30.00	No	– Machines for sorting or folding mail or for inserting mail in envelopes or bands, machines for opening, closing or sealing mail and machines for affixing or cancelling postage stamps	Free	Free
8472.90.00	No	– Other	Free	Free
84.73		Parts and accessories (other than covers, carrying cases and the like) suitable for use solely or principally with machines of headings 84.70 to 84.72.		
– Parts and accessories of the machines of heading 84.70 :				
8473.21.00	. .	– – Of the electronic calculating machines of subheading 8470.10, 8470.21 or 8470.29	Free	Free
8473.29.00	. .	– – Other	Free	Free
8473.30.00	. .	– Parts and accessories of the machines of heading 84.71	Free	Free
8473.40.00	. .	– Parts and accessories of the machines of heading 84.72	Free	Free
8473.50.00	. .	– Parts and accessories equally suitable for use with the machines of two or more of the headings 84.70 to 84.72	Free	Free
84.74		Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including powder or paste) form; machinery for agglomerating, shaping or moulding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry moulds of sand		
8474.10.00	kg	– Sorting, screening, separating or washing machines	Free	Free
8474.20.00	kg	– Crushing or grinding machines	Free	Free
– Mixing or kneading machines :				
8474.31.00	kg	– – Concrete or mortar mixers	Free	Free
8474.32.00	kg	– – Machines for mixing mineral substances with bitumen	Free	Free
8474.39.00	kg	– – Other	Free	Free
8474.80.00	kg	– Other machinery	Free	Free
8474.90.00	. .	– Parts	Free	Free
84.75		Machines for assembling electric or electronic lamps, tubes or valves or flashbulbs, in glass envelopes; machines for manufacturing or hot working glass or glassware	Free	Free
8475.10.00	. .	– Machines for assembling electric or electronic lamps, tubes or valves or flashbulbs, in glass envelopes	Free	Free
– Machines for manufacturing or hot working glass or glassware :				
8475.21.00	. .	– – Machines for making optical fibres and preforms thereof	Free	Free
8475.29.00	. .	– – Other	Free	Free
8475.90.00	. .	– Parts	Free	Free
84.76		Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines		
– Automatic beverage-vending machines :				
8476.21.00	. .	– – Incorporating heating or refrigerating devices	Free	Free
8476.29.00	. .	– – Other	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
Automatic goods-vending machines, etc. -continued				
– Other machines :				
8476.81.00	. .	– – Incorporating heating or refrigerating devices	Free	Free
8476.89.00	. .	– – Other	Free	Free
8476.90.00	. .	– Parts	Free	Free
84.77		Machinery for working rubber or plastics or for the manufacture of products from these materials, not specified or included elsewhere in this Chapter		
8477.10.00	. .	– Injection-moulding machines	Free	Free
8477.20.00	. .	– Extruders	Free	Free
8477.30.00	No	– Blow moulding machines	Free	Free
8477.40.00	. .	– Vacuum moulding machines and other thermoforming machines	Free	Free
– Other machinery for moulding or otherwise forming :				
8477.51.00	. .	– – For moulding or retreading pneumatic tyres or for moulding or otherwise forming inner tubes	Free	Free
8477.59.00	. .	– – Other	Free	Free
8477.80.00	No	– Other machinery	Free	Free
8477.90.00	. .	– Parts	Free	Free
84.78		Machinery for preparing or making up tobacco, not specified or included elsewhere in this Chapter		
8478.10.00	No	– Machinery	Free	Free
8478.90.00	. .	– Parts	Free	Free
84.79		Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter		
8479.10.00	. .	– Machinery for public works, building or the like	Free	Free
8479.20.00	. .	– Machinery for the extraction or preparation of animal or fixed vegetable fats or oils	Free	Free
8479.30.00	. .	– Presses for the manufacture of particle board or fibre building board of wood or other ligneous materials and other machinery for treating wood or cork	Free	Free
8479.40.00	. .	– Rope or cable-making machines	Free	Free
8479.50.00	No	– Industrial robots, not elsewhere specified or included	Free	Free
8479.60.00	No	– Evaporative air coolers	Free	Free
– Passenger boarding bridges :				
8479.71.00	No	– – Of a kind used in airports	Free	Free
8479.79.00	No	– – Other	Free	Free
– Other machines and mechanical appliances :				
8479.81.00	No	– – For treating metal, including electric wire coil-winders	Free	Free
8479.82.00	kg	– – Mixing, kneading, crushing, grinding, screening, sifting, homogenising, emulsifying or stirring machines	Free	Free
8479.89		– – Other		
8479.89.10	No	– – – Taps combined with a measuring-device for dispensing ice-cream, spirits, milk and the like	Free	Free
8479.89.20	No	– – – Windscreen wipers, non-electric; compressed air operated horns; truck type sweepers of a kind used in a warehouses and the like	Free	Free
8479.89.30	No	– – – Carpet sweepers, non-electric; floor polishing, sanding, scrubbing, scraping and scouring appliances other than those falling within heading 8509	Free	Free
8479.89.40	No	– – – Air coolers; air humidifiers and dehumidifiers	Free	Free
8479.89.90	No	– – – Other	Free	Free
8479.90.00	. .	– Parts	Free	Free
84.80		Moulding boxes for metal foundry; mould bases; moulding patterns; moulds for metal (other than ingot moulds), metal carbides, glass, mineral materials, rubber or plastics		
8480.10.00	. .	– Moulding boxes for metal foundry	Free	Free
8480.20.00	. .	– Mould bases	Free	Free
8480.30.00	. .	– Moulding patterns	Free	Free
– Moulds for metal or metal carbides :				
8480.41.00	. .	– – Injection or compression types	Free	Free
8480.49.00	. .	– – Other	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
Moulding boxes for metal foundry; mould bases, etc. -continued				
8480.50.00	. .	– Moulds for glass	Free	Free
8480.60.00	. .	– Moulds for mineral materials	Free	Free
		– Moulds for rubber or plastics :		
8480.71.00	No	– – Injection or compression types	Free	Free
8480.79.00	No	– – Other	Free	Free
84.81		Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves		
8481.10.00	No	– Pressure– reducing valves	Free	Free
8481.20.00	No	– Valves for oleohydraulic or pneumatic transmissions	Free	Free
8481.30.00	No	– Check (nonreturn) valves	Free	Free
8481.40.00	No	– Safety or relief valves	Free	Free
8481.80		– Other appliances		
8481.80.10	No	– – – Of a kind and size suitable for all domestic water supply and disposal points, hosepipe nozzles	Free	Free
8481.80.20	No	– – – Soda-water bottles valve; taps and cocks for fitting to casks, barrels, beverage dispensing urns and the like; appliance for use as parts for cookers, stoves, lamps, burners, blow lamps and lighters, including parts of fuel reservoirs of cylinders of a kind suitable for use with any of these appliances	Free	Free
8481.80.90	No	– – – Other	Free	Free
8481.90.00	. .	– Parts	Free	Free
84.82		Ball or roller bearings		
8482.10.00	. .	– Ball bearings	Free	Free
8482.20.00	. .	– Tapered roller bearings, including cone and tapered roller assemblies	Free	Free
8482.30.00	. .	– Spherical roller bearings	Free	Free
8482.40.00	. .	– Needle roller bearings	Free	Free
8482.50.00	. .	– Other cylindrical roller bearings	Free	Free
8482.80.00	. .	– Other, including combined ball/roller bearings	Free	Free
		– Parts :		
8482.91.00	. .	– – Balls, needles and rollers	Free	Free
8482.92.00	. .	– – Other	Free	Free
84.83		Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)		
8483.10.00	. .	– Transmission shafts (including cam shafts and crank shafts) and cranks	Free	Free
8483.20.00	. .	– Bearing housings, incorporating ball or roller bearings	Free	Free
8483.30.00	. .	– Bearing housings, not incorporating ball or roller bearings; plain shaft bearings	Free	Free
8483.40.00	. .	– Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements presented separately; ball or roller screws; gear boxes and other speed changers, including torque converters	Free	Free
8483.50.00	. .	– Flywheels and pulleys, including pulley blocks	Free	Free
8483.60.00	. .	– Clutches and shaft couplings (including universal joints)	Free	Free
8483.90.00	. .	– Toothed wheels, chain sprockets and other transmission elements presented separately; parts	Free	Free
84.84		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 seal		
8484.10.00	. .	– Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal	Free	Free
8484.20.00	. .	– Mechanical seals	Free	Free
8484.90.00	. .	– Other	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
84.86		Machinery and apparatus of a kind used solely or principally for the manufacture of semiconductor boules or wafers, semiconductor devices, electronic integrated circuits or flat panel displays; machines and apparatus specified in Note 9 (c) to this chapter; parts and accessories.		
8486.10.00	No	– Machines and apparatus for the manufacture of boules or wafers	Free	Free
8486.20.00	kg	– Machines and apparatus for the manufacture of semiconductor devices or of electronic integrated circuits	Free	Free
8486.30.00	kg	– Machines and apparatus for the manufacture of flat panel	Free	Free
8486.40		– Machines and apparatus specified in Note 9 (C) to this displays Chapter		
8486.40.10	No	– – – Apparatus for the projection or drawing of circuit patterns on sensitized semiconductor materials	Free	Free
8486.40.90	No	– – – Other	Free	Free
8486.90.00	. .	– Parts and accessories	Free	Free
84.87		Machinery parts, not containing electrical connectors, insulators, coils, contacts or other electrical features, not specified or included elsewhere in this Chapter		
8487.10.00	No	– Ships' or boats' propellers and blades therefor	Free	Free
8487.90.00	No	– Other	Free	Free

* * *

Chapter 85

Electrical machinery and equipment and parts thereof; sound recorders and reproducers, television image and sound recorders and reproducers, and parts and accessories of such articles

NOTES—

1. This Chapter does not cover:
 - (a) Electrically warmed blankets, bed pads, foot-muffs or the like; electrically warmed clothing, footwear or ear pads or other electrically warmed articles worn on or about the person;
 - (b) Articles of glass of heading 70.11;
 - (c) Machines and apparatus of heading 84.86;
 - (d) Vacuum apparatus of a kind used in medical, surgical, dental or veterinary sciences (heading 90.18); or
 - (e) Electrically heated furniture of Chapter 94.
2. Headings 85.01 to 85.04 do not apply to goods described in heading 85.11, 85.12, 85.40, 85.41 or 85.42. However, metal tank mercury arc rectifiers remain classified in heading 85.04.
3. For the purposes of heading 8507, the expression “electric accumulators” includes those presented with ancillary components which contribute to the accumulator’s function of storing and supplying energy or protect it from damage, such as electrical connectors, temperature control devices (for example, thermistors) and circuit protection devices. They may also include a portion of the protective housing of the goods in which they are to be used.
4. Heading 85.09 covers only the following electro-mechanical machines of the kind commonly used for domestic purposes:
 - (a) Floor polishers, food grinders and mixers, and fruit or vegetable juice extractors, of any weight;
 - (b) Other machines provided the weight of such machines does not exceed 20 kg.The heading does not, however, apply to fans or ventilating or recycling hoods incorporating a fan, whether or not fitted with filters (heading 84.14), centrifugal clothes-dryers (heading 84.21), dish washing machines (heading 84.22), household washing machines (heading 84.50), roller or other ironing machines (heading 84.20 or 84.51), sewing machines (heading 84.52), electric scissors (heading 84.67) or to electro-thermic appliances (heading 85.16).
5. For the purposes of heading 85.23:
 - (a) “Solid-state non-volatile storage devices” (for example, “flash memory cards” or “flash electronic storage cards”) are storage devices with a connecting socket, comprising in the same housing one or more flash memories (for example, “FLASH E2PROM”) in the form of integrated circuits mounted on a printed circuit board. They may include a controller in the form of an integrated circuit and discrete passive components, such as capacitors and resistors;
 - (b) The term “smart cards” means cards which have embedded in them one or more electronic integrated circuits (a microprocessor, random access memory (RAM) or read-only memory (ROM)) in the form of chips. These cards may contain contacts, a magnetic stripe or an embedded antenna but do not contain any other active or passive circuit elements.
6. For the purposes of heading 85.34 “printed circuits” are circuits obtained by forming on an insulating base, by any printing process (for example, embossing, plating-up, etching) or by the “film circuit” technique, conductor elements, contacts or other printed components (for example, inductances, resistors, capacitors) alone or interconnected according to a pre-established pattern, other than elements which can produce, rectify, modulate or amplify an electrical signal (for example, semiconductor elements).

The expression “printed circuits” does not cover circuits combined with elements other than those obtained during the printing process, nor does it cover individual, discrete resistors, capacitors or inductances. Printed circuits may, however, be fitted with non-printed connecting elements.

Thin-or thick-film circuits comprising passive and active elements obtained during the same technological process are to be classified in heading 85.42.
7. For the purpose of heading 85.36, “connectors for optical fibres, optical fibre bundles or cables” means connectors that simply mechanically align optical fibres end to end in a digital line system. They perform no other function, such as amplification, regeneration or modification of a signal.
8. Heading 85.37 does not include cordless infrared devices for the remote control of television receivers or other electrical equipment (heading 85.43).
9. For the purposes of headings 85.41 and 85.42:
 - (a) “Diodes, transistors and similar semiconductor devices” are semiconductor devices the operation of which depends on variations in resistivity on the application of an electric field;

(b) “Electronic integrated circuits” are:

- (i) Monolithic integrated circuits in which the circuit elements (diodes, transistors, resistors, capacitors, inductances, etc.) are created in the mass (essentially) and on the surface of a semiconductor or compound semiconductor material (for example, doped silicon, gallium arsenide, silicon germanium, indium phosphide) and are inseparably associated;
- (ii) Hybrid integrated circuits in which passive elements (resistors, capacitors, inductances, etc.), obtained by thin- or thick-film technology, and active elements (diodes, transistors, monolithic integrated circuits, etc.), obtained by semiconductor technology, are combined to all intents and purposes indivisibly, by interconnections or interconnecting cables, on a single insulating substrate (glass, ceramic, etc.). These circuits may also include discrete components;
- (iii) Multichip integrated circuits consisting of two or more interconnected monolithic integrated circuits combined to all intents and purposes indivisibly, whether or not on one or more insulating substrates, with or without leadframes, but with no other active or passive circuit elements.
- (iv) Multi-component integrated circuits (MCOs): a combination of one or more monolithic, hybrid, or multi-chip integrated circuits with at least one of the following components: silicon-based sensors, actuators, oscillators, resonators or combinations thereof, or components performing the functions of articles classifiable under heading 85.32, 85.33, 85.41, or inductors classifiable under heading 85.04, formed to all intents and purposes indivisibly into a single body like an integrated circuit, as a component of a kind used for assembly onto a printed circuit board (PCB) or other carrier, through the connecting of pins, leads, balls, lands, bumps, or pads.

For the purpose of this definition:

1. “Components” may be discrete, manufactured independently then assembled onto the rest of the MCO, or integrated into other components.
2. “Silicon based” means built on a silicon substrate, or made of silicon materials, or manufactured onto integrated circuit die.
3. (a) “Silicon based sensors” consist of microelectronic or mechanical structures that are created in the mass or on the surface of a semiconductor and that have the function of detecting physical or chemical quantities and transducing these into electric signals, caused by resulting variations in electric properties or displacement of a mechanical structure. “Physical or chemical quantities” relates to real world phenomena, such as pressure, acoustic waves, acceleration, vibration, movement, orientation, strain, magnetic field strength, electric field strength, light, radioactivity, humidity, flow, chemicals concentration, etc.
- (b) “Silicon based actuators” consist of microelectronic and mechanical structures that are created in the mass or on the surface of a semiconductor and that have the function of converting electrical signals into physical movement.
- (c) “Silicon based resonators” are components that consist of microelectronic or mechanical structures that are created in the mass or on the surface of a semiconductor and have the function of generating a mechanical or electrical oscillation of a predefined frequency that depends on the physical geometry of these structures in response to an external input.
- (d) “Silicon based oscillators” are active components that consist of microelectronic or mechanical structures that are created in the mass or on the surface of a semiconductor and that have the function of generating a mechanical or electrical oscillation of a predefined frequency that depends on the physical geometry of these structures.

For the classification of the articles defined in this Note, headings 85.41 and 85.42 shall take precedence over any other heading in the Nomenclature, except in the case of heading 85.23, which might cover them by reference to, in particular, their function.

10. For the purposes of heading 85.48, “spent primary cells, spent primary batteries and spent electric accumulators” are those which are neither usable as such because of breakage, cutting-up, wear or other reasons, nor capable of being recharged.

SUBHEADING NOTE—

1. Subheading 8527.12 covers only cassette-players with built-in amplifier, without built-in loudspeaker, capable of operating without an external source of electric power and the dimensions of which do not exceed 170 mm x 100 mm x 45 mm.

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Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
85.01		Electric motors and generators (excluding generating sets)		
8501.10.00	No	– Motors of an output not exceeding 37.5 W	Free	Free
8501.20.00	No	– Universal AC/DC motors of an output exceeding 37.5 W	Free	Free
		– Other DC motors; DC generators :		
8501.31		– – Of an output not exceeding 750 W		
8501.31.10	No	– – – Photovoltaic generators	Free	Free
8501.31.90	No	– – – Other	Free	Free
8501.32		– – Of an output exceeding 750 W but not exceeding 75 kW		
8501.32.10	No	– – – Photovoltaic generators	Free	Free
8501.32.90	No	– – – Other	Free	Free
8501.33		– – Of an output exceeding 75 kW but not exceeding 375 kW		
8501.33.10	No	– – – Photovoltaic generators	Free	Free
8501.33.90	No	– – – Other	Free	Free
8501.34		– – Of an output exceeding 375 kW		
8501.34.10	No	– – – Photovoltaic generators	Free	Free
8501.34.90	No	– – – Other	Free	Free
8501.40.00	No	– Other AC motors, single– phase	Free	Free
		– Other AC motors, multi– phase :		
8501.51.00	No	– – Of an output not exceeding 750 W	Free	Free
8501.52.00	No	– – Of an output exceeding 750 W but not exceeding 75 kW	Free	Free
8501.53.00	No	– – Of an output exceeding 75 kW	Free	Free
		– AC generators (alternators) :		
8501.61		– – Of an output not exceeding 75 kVA		
8501.61.10	No	– – – Photovoltaic generators	Free	Free
8501.61.90	No	– – – Other	Free	Free
8501.62		– – Of an output exceeding 75 kVA but not exceeding 375 kVA		
8501.62.10	No	– – – Photovoltaic generators	Free	Free
8501.62.90	No	– – – Other	Free	Free
8501.63		– – Of an output exceeding 375 kVA but not exceeding 750 kVA		
8501.63.10	No	– – – Photovoltaic generators	Free	Free
8501.63.90	No	– – – Other	Free	Free
8501.64		– – Of an output exceeding 750 kVA		
8501.64.10	No	– – – Photovoltaic generators	Free	Free
8501.64.90	No	– – – Other	Free	Free
85.02		Electric generating sets and rotary converters		
		– Generating sets with compression-ignition internal combustion piston engines (diesel or semi-diesel engines) :		
8502.11.00	No	– – Of an output not exceeding 75 kVA	Free	Free
8502.12.00	No	– – Of an output exceeding 75 kVA but not exceeding 375 kVA	Free	Free
8502.13.00	No	– – Of an output exceeding 375 kVA	Free	Free
8502.20.00	No	– Generating sets with spark-ignition internal combustion piston engines	Free	Free
		– Other generating sets :		
8502.31.00	No	– – Wind-powered	Free	Free
8502.39.00	No	– – Other	Free	Free
8502.40.00	No	– Electric rotary converters	Free	Free
85.03				
8503.00.00	. .	Parts suitable for use solely or principally with the machines of 8501 or 8502	Free	Free
85.04		Electrical transformers, static converters (for example, rectifiers) and inductors		
8504.10.00	No	– Ballasts for discharge lamps or tubes	Free	Free
		– Liquid dielectric transformers :		
8504.21.00	No	– – Having a power handling capacity not exceeding 650 kVA	Free	Free
8504.22.00	No	– – Having a power handling capacity exceeding 650 kVA but not exceeding 10,000 kVA	Free	Free
8504.23.00	No	– – Having a power handling capacity exceeding 10,000 kVA	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
		Electrical transformers, static converters, etc.-continued.		
		– Other transformers :		
8504.31.00	No	– – Having a power handling capacity not exceeding 1 kVA	Free	Free
8504.32.00	No	– – Having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA	Free	Free
8504.33.00	No	– – Having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA	Free	Free
8504.34.00	No	– – Having a power handling capacity exceeding 500 kVA	Free	Free
8504.40.00	No	– Static converters	Free	Free
8504.50.00	No	– Other inductors	Free	Free
8504.90.00	. .	– Parts	Free	Free
85.05		Electro-magnets; permanent magnets and articles intended to become permanent magnets after magnetisation; electro-magnetic or permanent magnet chucks, clamps and similar holding devices; electro-magnetic couplings, clutches and brakes; electro-magnetic lifting heads		
		– Permanent magnets and articles intended to become permanent magnets after magnetisation :		
8505.11.00	. .	– – Of metal	Free	Free
8505.19.00	. .	– – Other	Free	Free
8505.20.00	No	– Electro-magnetic couplings, clutches and brakes	Free	Free
8505.90.00	No	– Other, including parts	Free	Free
85.06		Primary cells and primary batteries		
8506.10.00	No	– Manganese dioxide	Free	Free
8506.30.00	No	– Mercuric oxide	Free	Free
8506.40.00	No	– Silver oxide	Free	Free
8506.50.00	No	– Lithium	Free	Free
8506.60.00	No	– Air-zinc	Free	Free
8506.80.00	No	– Other primary cells and primary batteries	Free	Free
8506.90.00	. .	– Parts	Free	Free
85.07		Electric accumulators, including separators therefor, whether or not rectangular (including square)		
8507.10.00	No	– Lead-acid, of a kind used for starting piston engines	Free	Free
8507.20.00	No	– Other lead-acid accumulators	Free	Free
8507.30.00	No	– Nickel-cadmium	Free	Free
8507.40.00	No	– Nickel-iron	Free	Free
8507.50.00	No	– Nickel-metal hydride	Free	Free
8507.60.00	No	– Lithium-ion	Free	Free
8507.80.00	No	– Other accumulators	Free	Free
8507.90.00	. .	– Parts	Free	Free
85.08		Vacuum cleaners		
		– With self-contained electric motor :		
8508.11.00	No	– – Of a power not exceeding 1,500 W and having a dust bag or other receptacle capacity not exceeding 20 l	Free	Free
8508.19		– – Other		
8508.19.10	No	– – – Industrial vacuum cleaners	Free	Free
8508.19.90	No	– – – Other	Free	Free
8508.60		– Other vacuum cleaners		
8508.60.10	No	– – – Industrial vacuum cleaners	Free	Free
8508.60.90	No	– – – Other	Free	Free
8508.70.00	. .	– Parts	Free	Free
85.09		Electro-mechanical domestic appliances, with self-contained electric motor		
8509.40.00	No	– Food grinders and mixers; fruit or vegetable juice extractors	Free	Free
8509.80.00	No	– Other appliances	Free	Free
8509.90.00	. .	– Parts	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
85.10		Shavers, hair clippers and hair-removing appliances, with self-contained electric motor		
8510.10.00	No	– Shavers	Free	Free
8510.20.00	No	– Hair clippers	Free	Free
8510.30.00	No	– Hair-removing appliances	Free	Free
8510.90.00	No	– Parts	Free	Free
85.11		Electrical ignition or starting equipment of a kind used for spark-ignition or compression-ignition internal combustion engines (for example, ignition magnetos, magneto-dynamos, ignition coils, sparking plugs and glow plugs, starter motors); generators (for example, dynamos, alternators) and cut-outs of a kind used in conjunction with such engines		
8511.10.00	No	– Sparking plugs	Free	Free
8511.20.00	No	– Ignition magnetos; magneto-dynamos; magnetic flywheels	Free	Free
8511.30.00	No	– Distributors; ignition coils	Free	Free
8511.40.00	No	– Starter motors and dual purpose starter-generators	Free	Free
8511.50.00	No	– Other generators	Free	Free
8511.80.00	. .	– Other equipment	Free	Free
8511.90.00	. .	– Parts	Free	Free
85.12		Electrical lighting or signalling equipment (excluding articles of 8539), windscreen wipers, defrosters and demisters, of a kind used for cycles or motor vehicles		
8512.10.00	. .	– Lighting or visual signalling equipment of a kind used on bicycles	Free	Free
8512.20.00	. .	– Other lighting or visual signalling equipment	Free	Free
8512.30.00	. .	– Sound signalling equipment	Free	Free
8512.40.00	No	– Windscreen wipers, defrosters and demisters	Free	Free
8512.90.00	. .	– Parts	Free	Free
85.13		Portable electric lamps designed to function by their own source of energy (for example, dry batteries, accumulators, magnetos), other than lighting equipment of 8512		
8513.10.00	No	– Lamps	Free	Free
8513.90.00	. .	– Parts	Free	Free
85.14		Industrial or laboratory electric furnaces and ovens (including those functioning by induction or dielectric loss); other industrial or laboratory equipment for the heat treatment of materials by induction or dielectric loss		
8514.10.00	. .	– Resistance heated furnaces and ovens	Free	Free
8514.20.00	. .	– Furnaces and ovens functioning by induction or dielectric loss	Free	Free
8514.30.00	. .	– Other furnaces and ovens	Free	Free
8514.40.00	. .	– Other equipment for the heat treatment of materials by induction or dielectric loss	Free	Free
8514.90.00	. .	– Parts	Free	Free
85.15		Electric (including electrically heated gas), laser or other light or photon beam, ultrasonic, electron beam, magnetic pulse or plasma arc soldering, brazing or welding machines and apparatus, whether or not capable of cutting; electric machines and apparatus for hot spraying of metals or cermets		
		– Brazing or soldering machines and apparatus :		
8515.11.00	No	-- Soldering irons and guns	Free	Free
8515.19.00	No	-- Other	Free	Free
		– Machines and apparatus for resistance welding of metal :		
8515.21.00	No	-- Fully or partly automatic	Free	Free
8515.29.00	No	-- Other	Free	Free
		– Machines and apparatus for arc (including plasma arc) welding of metals :		
8515.31.00	. .	-- Fully or partly automatic	Free	Free
8515.39.00	. .	-- Other	Free	Free
8515.80.00	. .	– Other machines and apparatus	Free	Free
8515.90.00	. .	– Parts	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
85.16		Electric instantaneous or storage water heaters and immersion heaters; electric space heating apparatus and soil heating apparatus; electro-thermic hair-dressing apparatus (for example, hair dryers, hair curlers, curling tong heaters) and hand dryers; electric smoothing irons; other electro-thermic appliances of a kind used for domestic purposes; electric heating resistors, other than those of 8545		
8516.10.00	No	– Electric instantaneous or storage water heaters and immersion heaters	Free	Free
		– Electric space heating apparatus and electric soil heating apparatus :		
8516.21.00	No	– – Storage heating radiators	Free	Free
8516.29.00	No	– – Other	Free	Free
		– Electro-thermic hair-dressing or hand-drying apparatus :		
8516.31.00	No	– – Hair dryers	Free	Free
8516.32.00	No	– – Other hair-dressing apparatus	Free	Free
8516.33.00	No	– – Hand-drying apparatus	Free	Free
8516.40.00	No	– Electric smoothing irons	Free	Free
8516.50.00	No	– Microwave ovens	Free	Free
8516.60.00	No	– Other ovens; cookers, cooking plates, boiling rings, grillers and roasters	Free	Free
		– Other electro-thermic appliances :		
8516.71.00	No	– – Coffee or tea makers	Free	Free
8516.72.00	No	– – Toasters	Free	Free
8516.79.00	No	– – Other	Free	Free
8516.80.00	. .	– Electric heating resistors	Free	Free
8516.90.00	. .	– Parts	Free	Free
85.17		Telephone sets, including telephones for cellular networks or for other wireless networks; other apparatus for the transmission or reception of voice, images or other data, including apparatus for communication in a wired or wireless network (such as a local or wide area network), other than transmission or reception apparatus of heading 84.43, 85.25, 85.27 or 85.28		
		– Telephone sets, including telephones for cellular networks or for other wireless networks :		
8517.11.00	No	– – Line telephone sets with cordless handsets	Free	Free
8517.12.00	. .	– – Telephones for cellular networks or for other wireless networks	Free	Free
8517.18.00	No	– – Other	Free	Free
		– Other apparatus for transmission or reception of voice, images or other data, including apparatus for communication in a wired or wireless network (such as a local or wide area network) :		
8517.61.00	No	– – Base stations	Free	Free
		– – Machines for the reception, conversion and transmission or regeneration of voice, images or other data, including switching and routing apparatus		
8517.62.10	No	– – – Modems	Free	Free
8517.62.90	No	– – – Other	Free	Free
8517.69.00	No	– – Other	Free	Free
8517.70.00	. .	– Parts	Free	Free
85.18		Microphones and stands therefor; loudspeakers, whether or not mounted in their enclosures; headphones, earphones and combined with a microphone sets consisting of a microphone and one or more loudspeakers, audio frequency electric amplifiers; electric sound amplifier sets		
8518.10.00	No	– Microphones and stands therefor	Free	Free
		– Loudspeakers, whether or not mounted in their enclosures :		
8518.21.00	No	– – Single loudspeakers, mounted in their enclosures	Free	Free
8518.22.00	No	– – Multiple loudspeakers, mounted in the same enclosure	Free	Free
8518.29.00	No	– – Other	Free	Free
8518.30.00	. .	– Headphones and earphones, whether or not combined with a microphone, and sets consisting of a microphone and one or more loudspeakers	Free	Free
8518.40.00	No	– Audio-frequency electric amplifiers	Free	Free
8518.50.00	No	– Electric sound amplifier sets	Free	Free
8518.90.00	. .	– Parts	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
85.19		Sound recording or reproducing apparatus		
8519.20.00	. .	– Apparatus operated by coins, banknotes, bank cards, tokens or by other means of payment	Free	Free
8519.30.00	No	– Turntables (record-decks)	Free	Free
8519.50.00	No	– Telephone answering machines	Free	Free
		– Other apparatus :		
8519.81.00	. .	– – Using magnetic, optical or semiconductor media	Free	Free
8519.89.00	. .	– – Other	Free	Free
85.21		Video recording or reproducing apparatus, whether or not incorporating a video tuner		
8521.10.00	No	– Magnetic tape-type	Free	Free
8521.90.00	No	– Other	Free	Free
85.22		Parts and accessories suitable for use solely or principally with the apparatus of headings 85.19 or 85.21		
8522.10.00	. .	– Pick-up cartridges	Free	Free
8522.90.00	. .	– Other	Free	Free
85.23		Discs, tapes, solid-state non-volatile storage devices, “smart cards” and other media for the recording of sound or of other phenomena, whether or not for the production of discs, but excluding products of Chapter 37		
		– Magnetic media :		
8523.21.00	. .	– – Cards incorporating a magnetic stripe	Free	Free
8523.29.00	. .	– – Other	Free	Free
		– Optical media :		
8523.41.00	. .	– – Unrecorded	Free	Free
8523.49.00	. .	– – Other	Free	Free
		– Semiconductor media :		
8523.51.00	. .	– – Solid-state non-volatile storage devices	Free	Free
8523.52.00	. .	– – “ Smart cards”	Free	Free
8523.59.00	. .	– – Other	Free	Free
8523.80.00	. .	– Other	Free	Free
85.25		Transmission apparatus for radio– broadcasting or television, whether or not incorporating reception apparatus or sound recording or reproducing apparatus; television cameras; digital cameras and video camera recorders		
8525.50		– Transmission apparatus		
8525.50.10	No	– – – Television transmission apparatus	Free	Free
8525.50.90	. .	– – – Other	Free	Free
8525.60		– Transmission apparatus incorporating reception apparatus		
8525.60.10	No	– – – Private mobile radios used in vehicles	Free	Free
8525.60.90	. .	– – – Other	Free	Free
8525.80.00	No	– Television cameras, digital cameras and video camera recorders	Free	Free
85.26		Radar apparatus, radio navigational aid apparatus and radio remote control apparatus		
8526.10.00	. .	– Radar apparatus	Free	Free
		– Other :		
8526.91.00	. .	– – Radio navigational aid apparatus	Free	Free
8526.92.00	. .	– – Radio remote control apparatus	Free	Free
85.27		Reception apparatus for radio-broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock		
		– Radio-broadcast receivers capable of operating without an external source of power :		
8527.12.00	No	– – Pocket-size radio cassette-players	Free	Free
8527.13.00	No	– – Other apparatus combined with sound recording or reproducing apparatus	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
		Reception apparatus for radio-broadcasting, whether, etc. -continued		
		– Radio-broadcast receivers capable of operating, etc. -continued		
		– – Other		
8527.19.10	No	– – – Domestic radio receivers of all kinds, including car radio receivers for receiving radio broadcast whether or not combined with cassette player and or CD player	Free	Free
8527.19.90	No	– – – Other	Free	Free
		– Radio-broadcast receivers not capable of operating without an external source of power, of a kind used in motor vehicles :		
8527.21.00	No	– – Combined with sound recording or reproducing apparatus	Free	Free
8527.29		– – Other		
8527.29.10	No	– – – Domestic radio receivers of all kinds, including car radio receivers for receiving radio broadcast whether or not combined with cassette player and or CD player	Free	Free
8527.29.90	No	– – – Other	Free	Free
		– Other :		
8527.91.00	No	– – Combined with sound recording or reproducing apparatus	Free	Free
8527.92.00	No	– – Not combined with sound recording or reproducing apparatus but combined with a clock	Free	Free
8527.99		– – Other		
8527.99.10	No	– – – Domestic radio receivers of all kinds, including car radio receivers for receiving radio broadcast whether or not combined with cassette player and or CD player	Free	Free
8527.99.90	No	– – – Other	Free	Free
85.28		Monitors and projectors, not incorporating television reception apparatus; reception apparatus for television, whether or not incorporating radio broadcast receivers or sound or video recording or reproducing apparatus		
		– Cathode-ray tube monitors :		
8528.42.00	No	– – Capable of directly connecting to and designed for use with an automatic data processing machine of heading 84.71	Free	Free
8528.49.00	No	– – Other	Free	Free
		– Other monitors :		
8528.52.00	No	– – Capable of directly connecting to and designed for use with an automatic data processing machine of heading 84.71	Free	Free
8528.59.00	No	– – Other	Free	Free
		– Projectors :		
8528.62.00	No	– – Capable of directly connecting to and designed for use with an automatic data processing machine of heading 84.71	Free	Free
8528.69.00	No	– – Other	Free	Free
		– Reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus :		
8528.71.00	No	– – Not designed to incorporate a video display or screen	Free	Free
8528.72.00	No	– – Other, colour	Free	Free
8528.73.00	No	– – Other, monochrome	Free	Free
85.29		Parts suitable for use solely or principally with the apparatus of 8525 to 8528		
8529.10.00	. .	– Aerials and aerial reflectors of all kinds; parts suitable for use therewith	Free	Free
8529.90.00	. .	– Other	Free	Free
85.30		Electrical signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields (other than those of 8608)		
8530.10.00	. .	– Equipment for railways or tramways	Free	Free
8530.80.00	. .	– Other equipment	Free	Free
8530.90.00	. .	– Parts	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
85.31		Electric sound or visual signalling apparatus (for example, bells, sirens, indicator panels, burglar or fire alarms), other than those of 8512 or 8530		
8531.10.00	. .	– Burglar or fire alarms and similar apparatus	Free	Free
8531.20.00	. .	– Indicator panels incorporating liquid crystal devices (LCD) or light-emitting diodes (LED)	Free	Free
8531.80.00	. .	– Other apparatus	Free	Free
8531.90.00	. .	– Parts	Free	Free
85.32		Electrical capacitors, fixed, variable or adjustable (pre-set)		
8532.10.00	. .	– Fixed capacitors designed for use in 50/60 Hz circuits and having a reactive power handling capacity of not less than 0.5 kvar (power capacitors)	Free	Free
		– Other fixed capacitors :		
8532.21.00	. .	-- Tantalum	Free	Free
8532.22.00	. .	-- Aluminium electrolytic	Free	Free
8532.23.00	. .	-- Ceramic dielectric, single layer	Free	Free
8532.24.00	. .	-- Ceramic dielectric, multilayer	Free	Free
8532.25.00	. .	-- Dielectric of paper or plastics	Free	Free
8532.29.00	. .	-- Other	Free	Free
8532.30.00	. .	– Variable or adjustable (pre-set) capacitors	Free	Free
8532.90.00	. .	– Parts	Free	Free
85.33		Electrical resistors (including rheostats and potentiometers), other than heating resistors		
8533.10.00	No	– Fixed carbon resistors, composition or film types	Free	Free
		– Other fixed resistors :		
8533.21.00	No	-- For a power handling capacity not exceeding 20 W	Free	Free
8533.29.00	No	-- Other	Free	Free
		– Wirewound variable resistors, including rheostats and potentiometers :		
8533.31.00	No	-- For a power handling capacity not exceeding 20 W	Free	Free
8533.39.00	No	-- Other	Free	Free
8533.40.00	No	– Other variable resistors, including rheostats and potentiometers	Free	Free
8533.90.00	. .	– Parts	Free	Free
85.34		Printed circuits		
8534.00.00	No		Free	Free
85.35		Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1 000 volts		
8535.10.00	No	– Fuses	Free	Free
		– Automatic circuit breakers :		
8535.21.00	No	-- For a voltage of less than 72.5 kV	Free	Free
8535.29.00	No	-- Other	Free	Free
8535.30.00	No	– Isolating switches and make-and-break switches	Free	Free
8535.40.00	No	– Lightning arresters, voltage limiters and surge suppressors	Free	Free
8535.90.00	No	– Other	Free	Free
85.36		Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, relays, fuses, surge suppressors, plugs, sockets, lamp-holders, junction boxes), for a voltage not exceeding 1 000 volts; connectors for optical fibres, optical fibre bundles or cables		
8536.10.00	. .	– Fuses	Free	Free
8536.20.00	No	– Automatic circuit breakers	Free	Free
8536.30.00	No	– Other apparatus for protecting electrical circuits	Free	Free
		– Relays :		
8536.41.00	. .	-- For a voltage not exceeding 60 V	Free	Free
8536.49	. .	-- Other		
8536.49.10	. .	--- Time switch (timer switch or timer)	Free	Free
8536.49.90	. .	--- Other	Free	Free
8536.50.00	. .	– Other switches	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
		Electrical apparatus for switching or protecting, etc. -continued		
		– Lamp-holders, plugs and sockets :		
8536.61.00	. .	– – Lamp-holders	Free	Free
8536.69.00	. .	– – Other	Free	Free
8536.70.00	. .	– Connectors for optical fibres, optical fibre bundles or cables	Free	Free
8536.90.00	. .	– Other apparatus	Free	Free
85.37		Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 85.35 or 85.36, for electric control or the distribution of electricity, including those incorporating instruments or apparatus of Chapter 90, and numerical control apparatus, other than switching apparatus of heading 85.17		
8537.10.00	. .	– For a voltage not exceeding 1,000 V	Free	Free
8537.20.00	. .	– For a voltage exceeding 1,000 V	Free	Free
85.38		Parts suitable for use solely or principally with the apparatus of 8535, 8536 or 8537		
8538.10.00	. .	– Boards, panels, consoles, desks, cabinets and other bases for the goods of heading 85.37, not equipped with their apparatus	Free	Free
8538.90.00	. .	– Other	Free	Free
85.39		Electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps; arc-lamps; light-emitting diode (LED) lamps		
8539.10		– Sealed beam lamp units		
8539.10.10	No	– – – Of a kind used in motor vehicles	Free	Free
8539.10.90	No	– – – Other	Free	Free
		– Other filament lamps, excluding ultra-violet or infra-red lamps :		
8539.21.00	No	– – Tungsten halogen	Free	Free
8539.22.00	No	– – Other, of a power not exceeding 200 W and for a voltage exceeding 100V	Free	Free
8539.29.00	No	– – Other	Free	Free
		– Discharge lamps, other than ultra-violet lamps :		
8539.31.00	No	– – Fluorescent, hot cathode	Free	Free
8539.32		– – Mercury or sodium vapour lamps; metal halide lamps		
8539.32.10	No	– – – Mercury lamps	Free	Free
8539.32.90	No	– – – Other	Free	Free
8539.39.00	No	– – Other	Free	Free
		– Ultra-violet or infra-red lamps; arc-lamps :		
8539.41.00	No	– – Arc-lamps	Free	Free
8539.49.00	No	– – Other	Free	Free
8539.50.00	No	– Light-emitting diode (LED) lamps	Free	Free
8539.90.00	. .	– Parts	Free	Free
85.40		Thermionic, cold cathode or photo-cathode valves and tubes (for example, vacuum or vapour or gas filled valves and tubes, mercury arc rectifying valves and tubes, cathode-ray tubes, television camera tubes)		
		– Cathode-ray television picture tubes, including video monitor cathode-ray tubes :		
8540.11.00	No	– – Colour	Free	Free
8540.12.00	No	– – Monochrome	Free	Free
8540.20.00	No	– Television camera tubes; image converters and intensifiers; other photo-cathode tubes	Free	Free
8540.40.00	No	– Data/graphic display tubes, monochrome; data/graphic display tubes, colour, with a phosphor dot screen pitch smaller than 0.4 mm	Free	Free
8540.60.00	No	– Other cathode-ray tubes	Free	Free
		– Microwave tubes (for example, magnetrons, klystrons, travelling wave tubes, carcinotrons), excluding grid-controlled tubes :		
8540.71.00	No	– – Magnetrons	Free	Free
8540.79.00	No	– – Other	Free	Free
		– Other valves and tubes :		
8540.81.00	No	– – Receiver or amplifier valves and tubes	Free	Free
8540.89.00	No	– – Other	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
		Thermionic, cold cathode or photo-cathode valves, etc. -continued		
		– Parts :		
8540.91.00	No	-- Of cathode-ray tubes	Free	Free
8540.99.00	No	-- Other	Free	Free
85.41		Diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light-emitting diodes (LED); mounted piezo-electric crystals		
8541.10.00	No	– Diodes, other than photosensitive or light-emitting diodes (LED)	Free	Free
		– Transistors, other than photosensitive transistors :		
8541.21.00	No	-- With a dissipation rate of less than 1 W	Free	Free
8541.29.00	No	-- Other	Free	Free
8541.30.00	No	– Thyristors, diacs and triacs, other than photosensitive devices	Free	Free
8541.40		– Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light-emitting diodes (LED)		
8541.40.10	No	--- Solar cells	Free	Free
8541.40.90	No	--- Other	Free	Free
8541.50.00	No	– Other semiconductor devices	Free	Free
8541.60.00	No	– Mounted piezo-electric crystals	Free	Free
8541.90.00	. .	– Parts	Free	Free
85.42		Electronic integrated circuits		
		– Electronic integrated circuits :		
8542.31.00	No	-- Processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits	Free	Free
8542.32.00	No	-- Memories	Free	Free
8542.33.00	No	-- Amplifiers	Free	Free
8542.39.00	No	-- Other	Free	Free
8542.90.00	. .	– Parts	Free	Free
85.43		Electrical machines and apparatus, having individual functions, not specified or included elsewhere in this Chapter		
8543.10.00	. .	– Particle accelerators	Free	Free
8543.20.00	. .	– Signal generators	Free	Free
8543.30.00	. .	– Machines and apparatus for electroplating, electrolysis or electrophoresis	Free	Free
8543.70	. .	– Other machines and apparatus		
8543.70.10	No	--- Electronic cigarette device	Free	Free
8543.70.90	. .	--- Other	Free	Free
8543.90.00	. .	– Parts	Free	Free
85.44		Insulated (including enamelled or anodised) wire, cable (including co-axial cable) and other insulated electric conductors, whether or not fitted with connectors; optical fibre cables, made up of individually sheathed fibres, whether or not assembled with electric conductors or fitted with connectors		
		– Winding wire :		
8544.11.00	kg	-- Of copper	Free	Free
8544.19.00	kg	-- Other	Free	Free
8544.20.00	m2	– Co-axial cable and other co-axial electric conductors	Free	Free
8544.30.00	. .	– Ignition wiring sets and other wiring sets of a kind used in vehicles, aircraft or ships	Free	Free
		– Other electric conductors, for a voltage not exceeding 1,000 V :		
8544.42.00	kg	-- Fitted with connectors	Free	Free
8544.49.00	kg	-- Other	Free	Free
8544.60.00	kg	– Other electric conductors, for a voltage exceeding 1,000 V	Free	Free
8544.70.00	. .	– Optical fibre cables	Free	Free

Number	Statistical Unit	Goods Description	Normal Tariff	Preferential Rates
85.45		Carbon electrodes, carbon brushes, lamp carbons, battery carbons and other articles of graphite or other carbon, with or without metal, of a kind used for electrical purposes		
		– Electrodes :		
8545.11.00	No	– – Of a kind used for furnaces	Free	Free
8545.19.00	No	– – Other	Free	Free
8545.20.00	. .	– Brushes	Free	Free
8545.90.00	. .	– Other	Free	Free
85.46		Electrical insulators of any material		
8546.10.00	No	– Of glass	Free	Free
8546.20.00	No	– Of ceramics	Free	Free
8546.90.00	No	– Other	Free	Free
85.47		Insulating fittings for electrical machines, appliances or equipment, being fittings wholly of insulating material apart from any minor components of metal (for example, threaded sockets) incorporated during moulding solely for purposes of assembly, other than insulators of 8546; electrical conduit tubing and joints therefor, of base metal lined with insulating material		
8547.10.00	. .	– Insulating fittings of ceramics	Free	Free
8547.20.00	. .	– Insulating fittings of plastics	Free	Free
8547.90.00	kg	– Other	Free	Free
85.48		Waste and scrap of primary cells, primary batteries and electric accumulators; spent primary cells, spent primary batteries and spent electric accumulators; electrical parts of machinery or apparatus, not specified or included elsewhere in this Chapter		
8548.10.00	. .	– Waste and scrap of primary cells, primary batteries and electric accumulators; spent primary cells, spent primary batteries and spent electric accumulators	Free	Free
8548.90.00	. .	– Other	Free	Free

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