



COMBINED  
NOMENCLATURE  
CLASSIFICATION  
STRUCTURE



**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**

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*ExportPlanning: Combined Nomenclature Classification Structure*  
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StudiaBo srl via Santo Stefano, 57 - 40125 Bologna Italy

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The tables presented in this document contain the following information:

**Products description** It contains the structure of the product description of the Combined Nomenclature Classification; version 2021;

**Codes** It contains the 8 digits code of the Combined Nomenclature Classification, version 2022;

**XUE** Returns total value of exports in millions of euro of 27 EU member states, in 2021;

**MUE** Returns total value of imports in millions of euro of 27 EU member states, in 2021;

**CODUL** It contains the ExportPlanning Classification code 2022.

# Table of Contents

<b>1 CHAPTER 84 - NUCLEAR REACTORS, BOILERS, MACHINERY AND MECHANICAL APPLIANCES; PARTS THEREOF</b>	<b>10</b>
Nuclear reactors; fuel elements (cartridges), non-irradiated, for nuclear reactors; machinery and apparatus for isotopic separation . . . . .	10
Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); superheated water boilers . . .	10
Central heating boilers other than those of heading 8402 . . . . .	10
Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economisers, superheaters, soot removers, gas recoverers); condensers for steam or other vapour power units . . . . .	11
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	11
Steam turbines and other vapour turbines . . . . .	11
reciprocating or rotary internal combustion piston engines . . . . .	11
internal combustion piston engines (diesel or semi-diesel engines) . . . . .	13
Parts suitable for use solely or principally with the engines of heading 8407 or 8408 . . . . .	15
Hydraulic turbines, water wheels, and regulators therefor . . . . .	15
Turbojets, turbopropellers and other gas turbines . . . . .	15
Other engines and motors . . . . .	16
Pumps for liquids, whether or not fitted with a measuring device; liquid elevators . . . . .	17
Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; gas-tight biological safety cabinets, whether or not fitted with filters . . . . .	19
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 . . . . .	20
Furnace burners for liquid fuel, for pulverised solid fuel or for gas; mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances . . . . .	21
Industrial or laboratory furnaces and ovens, including incinerators, non-electric . . . . .	21
Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air-conditioning machines of heading 8415 . . . . .	22
Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 8514), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric . . . . .	23
Calendering or other rolling machines, other than for metals or glass, and cylinders therefor . . . . .	24
Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases . . . . .	24

Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages . . . . .	25
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 . . . . .	26
Mechanical appliances (whether or not hand-operated) for projecting, dispersing or spraying liquids or powders; fire extinguishers, whether or not charged; spray guns and similar appliances; steam or sandblasting machines and similar jet projecting machines . . . . .	27
Pulley tackle and hoists other than skip hoists; winches and capstans; jacks . . . . .	28
Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane . . . . .	28
trucks; other works trucks fitted with lifting or handling equipment . . . . .	29
Other lifting, handling, loading or unloading machinery (for example, lifts, escalators, conveyors, teleferics) . . . . .	29
bulldozers, angledozers, graders, levellers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and roadrollers . . . . .	30
Other moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or ores; piledrivers and pile extractors; snowploughs and snowblowers . . . . .	31
Parts suitable for use solely or principally with the machinery of headings 8425 to 8430 . . . . .	31
Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers . . . . .	32
Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading 8437 . . . . .	32
Milking machines and dairy machinery . . . . .	34
Presses, crushers and similar machinery used in the manufacture of wine, cider, fruit juices or similar beverages . . . . .	34
Other agricultural, horticultural, forestry, poultry-keeping or bee-keeping machinery, including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders . . . . .	34
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 . . . . .	35
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 or microbial fats or oils . . . . .	35
Machinery for making pulp of fibrous cellulosic material or for making or finishing paper or paperboard . . . . .	35
Bookbinding machinery, including book-sewing machines . . . . .	36
Other machinery for making up paper pulp, paper or paperboard, including cutting machines of all kinds . . . . .	36
Machinery, apparatus and equipment (other than the machines of headings 8456 to 8465) for preparing or making plates, cylinders or other printing components; plates, cylinders and other printing components; plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished)	37

Printing machinery used for printing by means of plates, cylinders and other printing components of heading 8442; other printers, copying machines and facsimile machines, whether or not combined; parts and accessories thereof . . . . .	37
Machines for extruding, drawing, texturing or cutting man-made textile materials . . . . .	38
Machines for preparing textile fibres; spinning, doubling or twisting machines and other machinery for producing textile yarns; textile reeling or winding (including weft-winding) machines and machines for preparing textile yarns for use on the machines of heading 8446 or 8447 . . . . .	38
Weaving machines (looms) . . . . .	39
Knitting machines, stitch-bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting . . . . .	39
Auxiliary machinery for use with machines of heading 8444, 8445, 8446 or 8447 (for example, dobbies, jacquards, automatic stop motions, shuttle changing mechanisms); parts and accessories suitable for use solely or principally with the machines of this heading or of heading 8444, 8445, 8446 or 8447 (for example, spindles and spindle flyers, card clothing, combs, extruding nipples, shuttles, healds and heald-frames, hosiery needles) . . . . .	40
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 . . . . .	40
Household or laundry-type washing machines, including machines which both wash and dry . . . . .	41
Machinery (other than machines of heading 8450) for washing, cleaning, wringing, drying, ironing, pressing (including fusing presses), bleaching, dyeing, dressing, finishing, coating or impregnating textile yarns, fabrics or made-up textile articles and machines for applying the paste to the base fabric or other support used in the manufacture of floor coverings such as linoleum; machines for reeling, unreeling, folding, cutting or pinking textile fabrics . . . . .	42
Sewing machines, other than book-sewing machines of heading 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles . . . . .	43
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 . . . . .	43
Converters, ladles, ingot moulds and casting machines, of a kind used in metallurgy or in metal foundries . . . . .	43
mills and rolls therefor . . . . .	44
Machine tools for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electrodischarge, electrochemical, electron beam, ionic-beam or plasma arc processes; water-jet cutting machines . . . . .	44
Machining centres, unit construction machines (single station) and multi-station transfer machines, for working metal . . . . .	45
Lathes (including turning centres) for removing metal . . . . .	45
Machine tools (including way-type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes (including turning centres) of heading 8458 . . . . .	46
Machine tools for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal or cermets by means of grinding stones, abrasives or polishing products, other than gear cutting, gear grinding or gear finishing machines of heading 8461 . . . . .	47
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 . . . . .	47

Machine tools (including presses) for working metal by forging, hammering or die forging (excluding rolling mills); machine tools (including presses, slitting lines and cut-to-length lines) for working metal by bending, folding, straightening, flattening, shearing, punching, notching or nibbling (excluding draw-benches); presses for working metal or metal carbides, not specified above . . . . .	48
Other machine tools for working metal or cermets, without removing material . . . . .	50
Machine tools for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass . . . . .	50
Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials . . . . .	51
Parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for the machines; tool holders for any type of tool for working in the hand . . . . .	51
Tools for working in the hand, pneumatic, hydraulic or with self-contained electric or non-electric motor . . . . .	52
Machinery and apparatus for soldering, brazing or welding, whether or not capable of cutting, other than those of heading 8515; gas-operated surface tempering machines and appliances . . . . .	53
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 . . . . .	54
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 . . . . .	54
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) . . . . .	55
Parts and accessories (other than covers, carrying cases and the like) suitable for use solely or principally with machines of headings 8470 to 8472 . . . . .	55
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 . . . . .	56
Machines for assembling electric or electronic lamps, tubes or valves or flashbulbs, in glass envelopes; machines for manufacturing or hot working glass or glassware	56
Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines . . . . .	57
Machinery for working rubber or plastics or for the manufacture of products from these materials, not specified or included elsewhere in this chapter . . . . .	57
Machinery for preparing or making up tobacco, not specified or included elsewhere in this chapter . . . . .	58
Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter . . . . .	58
Moulding boxes for metal foundry; mould bases; moulding patterns; moulds for metal (other than ingot moulds), metal carbides, glass, mineral materials, rubber or plastics . . . . .	59
Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves . .	60
Ball or roller bearings . . . . .	61

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) . . . . .	62
Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal; sets or assortments of gaskets and similar joints, dissimilar in composition, put up in pouches, envelopes or similar packings; mechanical seals . . . . .	63
Machines for additive manufacturing . . . . .	63
Machines and apparatus of a kind used solely or principally for the manufacture of semiconductor boules or wafers, semiconductor devices, electronic integrated circuits or flat panel displays; machines and apparatus specified in note 11(C) to this chapter; parts and accessories . . . . .	64
Machinery parts, not containing electrical connectors, insulators, coils, contacts or other electrical features, not specified or included elsewhere in this chapter . . . . .	64
<b>2 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</b> . . . . .	<b>65</b>
Electric motors and generators (excluding generating sets) . . . . .	65
Electric generating sets and rotary converters . . . . .	66
Parts suitable for use solely or principally with the machines of heading 8501 or 8502 . . . . .	67
Electrical transformers, static converters (for example, rectifiers) and inductors . . . . .	67
Electromagnets; permanent magnets and articles intended to become permanent magnets after magnetisation; electromagnetic or permanent magnet chucks, clamps and similar holding devices; electromagnetic couplings, clutches and brakes; electromagnetic lifting heads . . . . .	68
Primary cells and primary batteries . . . . .	69
Electric accumulators, including separators therefor, whether or not rectangular (including square) . . . . .	69
Vacuum cleaners . . . . .	70
Electromechanical domestic appliances, with self-contained electric motor, other than vacuum cleaners of heading 8508 . . . . .	70
Shavers, hair clippers and hair-removing appliances, with self-contained electric motor . . . . .	71
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 . . . . .	71
Electrical lighting or signalling equipment (excluding articles of heading 8539), windscreen wipers, defrosters and demisters, of a kind used for cycles or motor vehicles . . . . .	71
Portable electric lamps designed to function by their own source of energy (for example, dry batteries, accumulators, magnetos), other than lighting equipment of heading 8512 . . . . .	72
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 . . . . .	72
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 . . . . .	73

Electric instantaneous or storage water heaters and immersion heaters; electric space-heating apparatus and soil-heating apparatus; electrothermic hairdressing apparatus (for example, hairdryers, hair curlers, curling tong heaters) and hand dryers; electric smoothing irons; other electrothermic appliances of a kind used for domestic purposes; electric heating resistors, other than those of heading 8545 . . . . .	74
Telephone sets, including smartphones and other 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 8443, 8525, 8527 or 8528 . . . . .	75
Microphones and stands therefor; loudspeakers, whether or not mounted in their enclosures; headphones and earphones, whether or not combined with a microphone, and sets consisting of a microphone and one or more loudspeakers; audio-frequency electric amplifiers; electric sound amplifier sets . . . . .	76
Sound recording or sound reproducing apparatus . . . . .	76
Video recording or reproducing apparatus, whether or not incorporating a video tuner . . . . .	76
Parts and accessories suitable for use solely or principally with the apparatus of heading 8519 or 8521 . . . . .	77
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 recorded, including matrices and masters for the production of discs, but excluding products of Chapter 37 . . . . .	77
Flat panel display modules, whether or not incorporating touch-sensitive screens . . . . .	78
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 . . . . .	78
Radar apparatus, radio navigational aid apparatus and radio remote control apparatus . . . . .	79
Reception apparatus for radio-broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock . . . . .	79
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 . . . . .	80
Parts suitable for use solely or principally with the apparatus of headings 8524 to 8528 . . . . .	81
Electrical signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields (other than those of heading 8608) . . . . .	82
Electric sound or visual signalling apparatus (for example, bells, sirens, indicator panels, burglar or fire alarms), other than those of heading 8512 or 8530 . . . . .	82
Electrical capacitors, fixed, variable or adjustable (pre-set) . . . . .	83
Electrical resistors (including rheostats and potentiometers), other than heating resistors . . . . .	83
Printed circuits . . . . .	84
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 1000 V . . . . .	84
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 and other connectors, junction boxes), for a voltage not exceeding 1000 V; connectors for optical fibres, optical fibre bundles or cables . . . . .	85



Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 8535 or 8536, 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 8517 . . . . .	86
Parts suitable for use solely or principally with the apparatus of heading 8535, 8536 or 8537 . . . . .	87
Electric filament or discharge lamps, including sealed beam lamp units and ultraviolet or infra-red lamps; arc-lamps; light-emitting diode (LED) light sources . . . .	87
Thermionic, cold cathode or photocathode 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) . . . . .	88
Semiconductor devices (for example, diodes, transistors, semiconductor-based transducers); photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light-emitting diodes (LED), whether or not assembled with other light-emitting diodes (LED); mounted piezo-electric crystals . . . . .	89
Electronic integrated circuits . . . . .	89
Electrical machines and apparatus, having individual functions, not specified or included elsewhere in this chapter . . . . .	91
Insulated (including enamelled or anodised) wire, cable (including coaxial 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 . . . . .	92
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 . . . . .	92
Electrical insulators of any material . . . . .	93
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 heading 8546; electrical conduit tubing and joints therefor, of base metal lined with insulating material . . . . .	93
Electrical parts of machinery or apparatus, not specified or included elsewhere in this chapter . . . . .	93
Electrical and electronic waste and scrap . . . . .	94

## CHAPTER 84 - NUCLEAR REACTORS, BOILERS, MACHINERY AND MECHANICAL APPLIANCES; PARTS THEREOF

### Nuclear reactors; fuel elements (cartridges), non-irradiated, for nuclear reactors; machinery and apparatus for isotopic separation

Products description	Codes	XUE	MUE	CODUL
Nuclear reactors (Euratom)	CN840110.00	0.1	0.4	UL840110
Machinery and apparatus for isotopic separation, and parts thereof (Euratom)	CN840120.00	18.5	11.6	UL840120
Fuel elements (cartridges), non-irradiated (Euratom)	CN840130.00	1194.1	1069.0	UL840130
Parts of nuclear reactors (Euratom)	CN840140.00	106.4	55.4	UL840140

### Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); superheated water boilers

Products description	Codes	XUE	MUE	CODUL
Steam or other vapour generating boilers				
- Watertube boilers with a steam production exceeding 45 tonnes per hour	CN840211.00	25.6	16.2	UL840211
- Watertube boilers with a steam production not exceeding 45 tonnes per hour	CN840212.00	62.4	25.7	UL840212
- Other vapour generating boilers, including hybrid boilers				
- - Firetube boilers	CN840219.10	111.0	48.5	UL840219
- - Other	CN840219.90	87.1	50.7	UL840219
Superheated water boilers	CN840220.00	55.2	24.9	UL840220
Parts	CN840290.00	430.0	232.7	UL840290

### Central heating boilers other than those of heading 8402

Products description	Codes	XUE	MUE	CODUL
Boilers				
- Of cast iron	CN840310.10	118.3	88.6	UL840310
- Other	CN840310.90	3856.4	2815.8	UL840310
Parts				

- Of cast iron	CN840390.10	28.3	36.2	UL840390
- Other	CN840390.90	1682.6	1681.1	UL840390

### Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economisers, superheaters, soot removers, gas recoverers); condensers for steam or other vapour power units

Products description	Codes	XUE	MUE	CODUL
Auxiliary plant for use with boilers of heading 8402 or 8403	CN840410.00	197.9	77.1	UL840410
Condensers for steam or other vapour power units	CN840420.00	15.0	32.2	UL840420
Parts	CN840490.00	129.5	138.8	UL840490

### 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

Products description	Codes	XUE	MUE	CODUL
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	CN840510.00	174.9	113.9	UL840510
Parts	CN840590.00	73.4	79.5	UL840590

### Steam turbines and other vapour turbines

Products description	Codes	XUE	MUE	CODUL
Turbines for marine propulsion	CN840610.00	0.4	1.8	UL840610
Other turbines				
- Of an output exceeding 40 MW	CN840681.00	188.4	6.1	UL840681
- Of an output not exceeding 40 MW	CN840682.00	137.8	45.0	UL840682
Parts				
- Stator blades, rotors and their blades	CN840690.10	273.8	153.5	UL840690
- Other	CN840690.90	464.0	212.4	UL840690

### reciprocating or rotary internal combustion piston engines

Products description	Codes	XUE	MUE	CODUL
Aircraft engines	CN840710.00	201.4	74.6	UL840710
Marine propulsion engines				
- Outboard motors				
- - Of a cylinder capacity not exceeding 325 cm <sup>3</sup>	CN840721.10	44.0	91.1	UL840721
- - Of a cylinder capacity exceeding 325 cm <sup>3</sup>				
- - - Of a power not exceeding 30 kW	CN840721.91	75.1	160.5	UL840721
- - - Of a power exceeding 30 kW	CN840721.99	322.0	593.7	UL840721
- Other	CN840729.00	131.6	72.9	UL840729
Reciprocating piston engines of a kind used for the propulsion of vehicles of Chapter 87				
- Of a cylinder capacity not exceeding 50 cm <sup>3</sup>	CN840731.00	9.1	19.6	UL84073A
- Of a cylinder capacity exceeding 50 cm <sup>3</sup> but not exceeding 250 cm <sup>3</sup>				
- - Of a cylinder capacity exceeding 50 cm <sup>3</sup> but not exceeding 125 cm <sup>3</sup>	CN840732.10	48.4	51.6	UL84073A
- - Of a cylinder capacity exceeding 125 cm <sup>3</sup> but not exceeding 250 cm <sup>3</sup>	CN840732.90	5.4	15.5	UL84073A
- Of a cylinder capacity exceeding 250 cm <sup>3</sup> but not exceeding 1000 cm <sup>3</sup>				
- - Of a cylinder capacity exceeding 250 cm <sup>3</sup> but not exceeding 500 cm <sup>3</sup>	CN840733.20	33.8	32.3	UL840733
- - Of a cylinder capacity exceeding 500 cm <sup>3</sup> but not exceeding 1000 cm <sup>3</sup>	CN840733.80	1997.4	1524.2	UL840733
- Of a cylinder capacity exceeding 1000 cm <sup>3</sup>				
- - For the industrial assembly of: pedestrian-controlled tractors of subheading 870110; motor vehicles of heading 8703; motor vehicles of heading 8704 with an engine of a cylinder capacity of less than 2800 cm <sup>3</sup> ; motor vehicles of heading 8705	CN840734.10	2029.5	1974.8	UL840734
- - Other				
- - - Used	CN840734.30	62.5	34.2	UL840734
- - - New, of a cylinder capacity				
- - - - Not exceeding 1500 cm <sup>3</sup>	CN840734.91	2113.7	1183.7	UL840734
- - - - Exceeding 1500 cm <sup>3</sup>	CN840734.99	8123.8	4370.3	UL840734
Other engines				
- Of a cylinder capacity not exceeding 250 cm <sup>3</sup>	CN840790.10	85.4	262.1	UL840790
- Of a cylinder capacity exceeding 250 cm <sup>3</sup>				
- - For the industrial assembly of: pedestrian-controlled tractors of subheading 870110; motor vehicles of heading 8703; motor vehicles of heading 8704 with an engine of a cylinder capacity of less than 2800 cm <sup>3</sup> ; motor vehicles of heading 8705	CN840790.50	3.2	8.2	UL840790

- - Other				
- - - Of a power not exceeding 10 kW	CN840790.80	49.2	96.0	UL840790
- - - Of a power exceeding 10 kW	CN840790.90	344.7	215.2	UL840790

### internal combustion piston engines (diesel or semi-diesel engines)

Products description	Codes	XUE	MUE	CODUL
Marine propulsion engines				
- Used				
- - For seagoing vessels of headings 8901 to 8906, tugs of subheading 89040010 and warships of subheading 89061000	CN840810.11	14.8	8.9	UL840810
- - Other	CN840810.19	11.6	13.1	UL840810
- New, of a power				
- - Not exceeding 50 kW				
- - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 89040010 and warships of subheading 89061000	CN840810.23	10.9	8.2	UL840810
- - - Other	CN840810.27	44.8	39.9	UL840810
- - Exceeding 50 kW but not exceeding 100 kW				
- - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 89040010 and warships of subheading 89061000	CN840810.31	3.1	5.6	UL840810
- - - Other	CN840810.39	27.4	33.4	UL840810
- - Exceeding 100 kW but not exceeding 200 kW				
- - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 89040010 and warships of subheading 89061000	CN840810.41	29.5	9.7	UL840810
- - - Other	CN840810.49	45.4	30.3	UL840810
- - Exceeding 200 kW but not exceeding 300 kW				
- - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 89040010 and warships of subheading 89061000	CN840810.51	27.5	48.5	UL840810
- - - Other	CN840810.59	100.5	48.7	UL840810
- - Exceeding 300 kW but not exceeding 500 kW				
- - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 89040010 and warships of subheading 89061000	CN840810.61	61.9	13.2	UL840810
- - - Other	CN840810.69	107.2	64.3	UL840810

- - Exceeding 500 kW but not exceeding 1000 kW				
- - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 89040010 and warships of subheading 89061000	CN840810.71	32.6	56.5	UL840810
- - - Other	CN840810.79	151.8	71.9	UL840810
- - Exceeding 1000 kW but not exceeding 5000 kW				
- - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 89040010 and warships of subheading 89061000	CN840810.81	350.4	101.4	UL840810
- - - Other	CN840810.89	122.8	32.2	UL840810
- - Exceeding 5000 kW				
- - - For seagoing vessels of headings 8901 to 8906, tugs of subheading 89040010 and warships of subheading 89061000	CN840810.91	226.8	60.6	UL840810
- - - Other	CN840810.99	9.7	2.1	UL840810
Engines of a kind used for the propulsion of vehicles of Chapter 87				
- For the industrial assembly of: pedestrian-controlled tractors of subheading 870110; motor vehicles of heading 8703; motor vehicles of heading 8704 with an engine of a cylinder capacity of less than 2500 $cm^3$ ; motor vehicles of heading 8705	CN840820.10	1914.9	1696.7	UL840820
- Other				
- - For wheeled agricultural or forestry tractors, of a power				
- - - Not exceeding 50 kW	CN840820.31	11.0	27.7	UL840820
- - - Exceeding 50 kW but not exceeding 100 kW	CN840820.35	132.4	219.0	UL840820
- - - Exceeding 100 kW	CN840820.37	163.7	302.9	UL840820
- - For other vehicles of Chapter 87, of a power				
- - - Not exceeding 50 kW	CN840820.51	22.8	43.5	UL840820
- - - Exceeding 50 kW but not exceeding 100 kW	CN840820.55	1235.9	1162.6	UL840820
- - - Exceeding 100 kW but not exceeding 200 kW	CN840820.57	5093.1	3040.3	UL840820
- - - Exceeding 200 kW	CN840820.99	3702.1	3019.6	UL840820
Other engines				
- For rail traction	CN840890.21	84.9	70.4	UL840890
- Other				
- - Used	CN840890.27	64.3	36.5	UL840890
- - New, of a power				
- - - Not exceeding 15 kW	CN840890.41	141.1	156.5	UL840890
- - - Exceeding 15 kW but not exceeding 30 kW	CN840890.43	172.0	274.1	UL840890

- - - Exceeding 30 kW but not exceeding 50 kW	CN840890.45	223.4	215.9	UL840890
- - - Exceeding 50 kW but not exceeding 100 kW	CN840890.47	580.2	327.5	UL840890
- - - Exceeding 100 kW but not exceeding 200 kW	CN840890.61	539.0	442.0	UL840890
- - - Exceeding 200 kW but not exceeding 300 kW	CN840890.65	298.8	272.2	UL840890
- - - Exceeding 300 kW but not exceeding 500 kW	CN840890.67	782.2	423.8	UL840890
- - - Exceeding 500 kW but not exceeding 1000 kW	CN840890.81	171.6	198.1	UL840890
- - - Exceeding 1000 kW but not exceeding 5000 kW	CN840890.85	273.8	144.8	UL840890
- - - Exceeding 5000 kW	CN840890.89	114.7	58.1	UL840890

### Parts suitable for use solely or principally with the engines of heading 8407 or 8408

Products description	Codes	XUE	MUE	CODUL
For aircraft engines	CN840910.00	149.8	64.3	UL840910
Other				
- Suitable for use solely or principally with spark-ignition internal combustion piston engines	CN840991.00	8992.2	8576.7	UL840991
- Other	CN840999.00	14810.6	12228.4	UL840999

### Hydraulic turbines, water wheels, and regulators therefor

Products description	Codes	XUE	MUE	CODUL
Hydraulic turbines and water wheels				
- Of a power not exceeding 1000 kW	CN841011.00	25.9	6.1	UL841011
- Of a power exceeding 1000 kW but not exceeding 10000 kW	CN841012.00	38.1	5.3	UL841012
- Of a power exceeding 10000 kW	CN841013.00	32.0	5.5	UL841013
Parts, including regulators	CN841090.00	259.3	101.6	UL841090

### Turbojets, turbopropellers and other gas turbines

Products description	Codes	XUE	MUE	CODUL
Turbojets				
- Of a thrust not exceeding 25 kN	CN841111.00	118.2	185.1	UL841111
- Of a thrust exceeding 25 kN				
- - Of a thrust exceeding 25 kN but not exceeding 44 kN	CN841112.10	442.4	450.7	UL841112

- - Of a thrust exceeding 44 kN but not exceeding 132 kN	CN841112.30	3903.9	5396.8	UL841112
- - Of a thrust exceeding 132 kN	CN841112.80	8043.9	5186.6	UL841112
<b>Turbopropellers</b>				
- Of a power not exceeding 1100 kW	CN841121.00	150.0	154.0	UL841121
- Of a power exceeding 1100 kW				
- - Of a power exceeding 1100 kW but not exceeding 3730 kW	CN841122.20	114.8	370.3	UL841122
- - Of a power exceeding 3730 kW	CN841122.80	214.6	250.1	UL841122
<b>Other gas turbines</b>				
- Of a power not exceeding 5000 kW	CN841181.00	371.0	311.7	UL841181
- Of a power exceeding 5000 kW				
- - Of a power exceeding 5000 kW but not exceeding 20000 kW	CN841182.20	141.9	221.9	UL841182
- - Of a power exceeding 20000 kW but not exceeding 50000 kW	CN841182.60	194.4	238.7	UL841182
- - Of a power exceeding 50000 kW	CN841182.80	933.2	255.9	UL841182
<b>Parts</b>				
- Of turbojets or turbopropellers	CN841191.00	10194.4	12013.2	UL841191
- Other	CN841199.00	6273.9	5294.5	UL841199

## Other engines and motors

Products description	Codes	XUE	MUE	CODUL
Reaction engines other than turbojets	CN841210.00	61.3	47.6	UL841210
<b>Hydraulic power engines and motors</b>				
- Linear acting (cylinders)				
- - Hydraulic systems	CN841221.20	924.0	522.8	UL841221
- - Other	CN841221.80	1781.6	1030.9	UL841221
- Other				
- - Hydraulic systems	CN841229.20	218.9	149.0	UL841229
- - Other				
- - - Hydraulic fluid power motors	CN841229.81	1411.8	945.3	UL841229
- - - Other	CN841229.89	128.5	145.4	UL841229
<b>Pneumatic power engines and motors</b>				
- Linear acting (cylinders)	CN841231.00	1026.7	791.4	UL841231
- Other	CN841239.00	334.0	216.8	UL841239



Other				
- Steam or other vapour power engines	CN841280.10	6.3	2.1	UL841280
- Other	CN841280.80	315.1	308.1	UL841280
Parts				
- Of reaction engines other than turbojets	CN841290.20	43.0	38.3	UL841290
- Of hydraulic power engines and motors	CN841290.40	679.7	584.1	UL841290
- Other	CN841290.80	2297.9	2462.5	UL841290

### Pumps for liquids, whether or not fitted with a measuring device; liquid elevators

Products description	Codes	XUE	MUE	CODUL
Pumps fitted or designed to be fitted with a measuring device				
- Pumps for dispensing fuel or lubricants, of the type used in filling stations or in garages	CN841311.00	289.1	310.9	UL841311
- Other	CN841319.00	466.0	211.1	UL841319
Handpumps, other than those of subheading 841311 or 841319	CN841320.00	300.3	297.1	UL841320
Fuel, lubricating or cooling medium pumps for internal combustion piston engines				
- Injection pumps	CN841330.20	2469.9	1406.3	UL841330
- Other	CN841330.80	3265.0	2594.2	UL841330
Concrete pumps	CN841340.00	150.1	89.0	UL841340
Other reciprocating positive displacement pumps				
- Hydraulic units	CN841350.20	273.6	323.1	UL841350
- Dosing and proportioning pumps	CN841350.40	812.6	412.0	UL841350
- Other				
- - Piston pumps				
- - - Hydraulic fluid power	CN841350.61	1411.6	731.1	UL841350
- - - Other	CN841350.69	576.6	250.6	UL841350
- - Other	CN841350.80	1024.0	375.6	UL841350
Other rotary positive displacement pumps				
- Hydraulic units	CN841360.20	316.2	237.9	UL841360
- Other				
- - Gear pumps				
- - - Hydraulic fluid power	CN841360.31	661.9	382.3	UL841360
- - - Other	CN841360.39	268.6	228.5	UL841360

- - Vane pumps				
- - - Hydraulic fluid power	CN841360.61	257.7	186.7	UL841360
- - - Other	CN841360.69	162.2	76.7	UL841360
- - Screw pumps	CN841360.70	184.8	72.1	UL841360
- - Other	CN841360.80	403.7	326.9	UL841360
Other centrifugal pumps				
- Submersible pumps				
- - Single-stage	CN841370.21	1232.3	803.7	UL841370
- - Multi-stage	CN841370.29	366.1	274.2	UL841370
- Glandless impeller pumps for heating systems and warm water supply	CN841370.30	1327.2	1055.5	UL841370
- Other, with a discharge outlet diameter				
- - Not exceeding 15 mm	CN841370.35	106.4	102.5	UL841370
- - Exceeding 15 mm				
- - - Channel impeller pumps and side channel pumps	CN841370.45	105.1	46.9	UL841370
- - - Radial flow pumps				
- - - - Single-stage				
- - - - - With single entry impeller				
- - - - - - Monobloc	CN841370.51	631.8	372.1	UL841370
- - - - - - Other	CN841370.59	477.5	230.3	UL841370
- - - - - With more than one entry impeller	CN841370.65	112.4	51.3	UL841370
- - - - Multi-stage	CN841370.75	724.6	385.5	UL841370
- - - Other centrifugal pumps				
- - - - Single-stage	CN841370.81	958.3	485.9	UL841370
- - - - Multi-stage	CN841370.89	414.2	195.0	UL841370
Other pumps; liquid elevators				
- Pumps	CN841381.00	1715.0	1248.3	UL841381
- Liquid elevators	CN841382.00	60.0	57.6	UL841382
Parts				
- Of pumps	CN841391.00	5538.7	4956.9	UL841391
- Of liquid elevators	CN841392.00	61.7	32.1	UL841392

**Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; gas-tight biological safety cabinets, whether or not fitted with filters**

Products description	Codes	XUE	MUE	CODUL
Vacuum pumps				
- Of a kind used for the manufacture of semiconductors or solely or principally used for the manufacture of flat panel displays	CN841410.15	39.2	92.4	UL841410
- Other				
- - Rotary piston pumps, sliding vane rotary pumps, molecular drag pumps and Roots pumps	CN841410.25	960.4	371.5	UL841410
- - Other				
- - - Diffusion pumps, cryopumps and adsorption pumps	CN841410.81	23.3	18.8	UL841410
- - - Other	CN841410.89	1030.2	706.7	UL841410
Hand- or foot-operated air pumps				
- Handpumps for cycles	CN841420.20	30.6	68.4	UL841420
- Other	CN841420.80	62.1	100.5	UL841420
Compressors of a kind used in refrigerating equipment				
- Of a power not exceeding 0,4 kW	CN841430.20	335.7	685.5	UL841430
- Of a power exceeding 0,4 kW				
- - Hermetic or semi-hermetic	CN841430.81	1778.5	1422.3	UL841430
- - Other	CN841430.89	1306.5	1449.0	UL841430
Air compressors mounted on a wheeled chassis for towing				
- Giving a flow per minute not exceeding 2 m <sup>3</sup>	CN841440.10	60.3	67.5	UL841440
- Giving a flow per minute exceeding 2 m <sup>3</sup>	CN841440.90	275.9	130.9	UL841440
Fans				
- Table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output not exceeding 125 W	CN841451.00	429.1	838.3	UL841451
- Other				
- - Fans of a kind used solely or principally for cooling microprocessors, telecommunication apparatus, automatic data processing machines or units of automatic data processing machines	CN841459.15	237.0	371.7	UL841459
- - Other				
- - - Axial fans	CN841459.25	1910.2	1333.2	UL841459
- - - Centrifugal fans	CN841459.35	2204.7	1174.5	UL841459

- - - Other	CN841459.95	580.4	694.4	UL841459
Hoods having a maximum horizontal side not exceeding 120 cm	CN841460.00	1087.4	923.3	UL841460
Gas-tight biological safety cabinets	CN841470.00	N.A.	N.A.	UL841470
Other				
- Turbo-compressors				
- - Single-stage	CN841480.11	4224.8	3183.7	UL841480
- - Multi-stage	CN841480.19	562.6	108.7	UL841480
- Reciprocating displacement compressors, having a gauge pressure capacity of				
- - Not exceeding 15 bar, giving a flow per hour				
- - - Not exceeding 60 m <sup>3</sup>	CN841480.22	576.0	678.9	UL841480
- - - Exceeding 60 m <sup>3</sup>	CN841480.28	59.5	55.4	UL841480
- - Exceeding 15 bar, giving a flow per hour				
- - - Not exceeding 120 m <sup>3</sup>	CN841480.51	204.2	112.2	UL841480
- - - Exceeding 120 m <sup>3</sup>	CN841480.59	297.0	75.2	UL841480
- Rotary displacement compressors				
- - Single-shaft	CN841480.73	431.9	239.4	UL841480
- - Multi-shaft				
- - - Screw compressors	CN841480.75	1465.5	608.2	UL841480
- - - Other	CN841480.78	180.3	73.8	UL841480
- Other	CN841480.80	879.0	984.1	UL841480
Parts	CN841490.00	4822.5	4523.0	UL841490

**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**

Products description	Codes	XUE	MUE	CODUL
Of a kind designed to be fixed to a window, wall, ceiling or floor, self-contained or 'split-system'				
- Self-contained	CN841510.10	359.5	554.6	UL841510
- Split-system	CN841510.90	614.5	2751.8	UL841510
Of a kind used for persons, in motor vehicles	CN841520.00	1059.0	820.7	UL841520
Other				
- Incorporating a refrigerating unit and a valve for reversal of the cooling/heat cycle (reversible heat pumps)	CN841581.00	611.3	1187.3	UL841581
- Other, incorporating a refrigerating unit	CN841582.00	1294.9	1268.1	UL841582

- Not incorporating a refrigerating unit	CN841583.00	1437.7	946.5	UL841583
Parts	CN841590.00	5767.2	6264.4	UL841590

### Furnace burners for liquid fuel, for pulverised solid fuel or for gas; mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances

Products description	Codes	XUE	MUE	CODUL
Furnace burners for liquid fuel				
- Incorporating an automatic control device	CN841610.10	72.3	42.3	UL841610
- Other	CN841610.90	82.1	38.0	UL841610
Other furnace burners, including combination burners				
- Only for gas, monobloc, incorporating a ventilator and a control device	CN841620.10	211.6	94.9	UL841620
- Other				
- - Combination burners	CN841620.20	163.2	21.3	UL841620
- - Other	CN841620.80	201.8	86.2	UL841620
Mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances	CN841630.00	105.8	42.7	UL841630
Parts	CN841690.00	598.3	335.5	UL841690

### Industrial or laboratory furnaces and ovens, including incinerators, non-electric

Products description	Codes	XUE	MUE	CODUL
Furnaces and ovens for the roasting, melting or other heat treatment of ores, pyrites or of metals	CN841710.00	205.8	60.5	UL841710
Bakery ovens, including biscuit ovens				
- Tunnel ovens	CN841720.10	79.9	27.5	UL841720
- Other	CN841720.90	163.3	71.6	UL841720
Other				
- Ovens and furnaces for firing ceramic products	CN841780.30	36.7	31.2	UL841780
- Ovens and furnaces for firing cement, glass or chemical products	CN841780.50	26.2	7.2	UL841780
- Other	CN841780.70	244.5	94.4	UL841780
Parts	CN841790.00	863.5	428.3	UL841790

## Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air-conditioning machines of heading 8415

Products description	Codes	XUE	MUE	CODUL
Combined refrigerator-freezers, fitted with separate external doors or drawers, or combinations thereof				
- Of a capacity exceeding 340 litres	CN841810.20	1316.6	1953.2	UL841810
- Other	CN841810.80	1325.8	1926.8	UL841810
Refrigerators, household type				
- Compression-type				
- - Of a capacity exceeding 340 litres	CN841821.10	205.2	308.1	UL841820
- - Other				
- - - Table model	CN841821.51	74.4	160.4	UL841820
- - - Building-in type	CN841821.59	523.1	442.1	UL841820
- - - Other, of a capacity				
- - - - Not exceeding 250 litres	CN841821.91	245.9	333.0	UL841820
- - - - Exceeding 250 litres but not exceeding 340 litres	CN841821.99	106.4	191.4	UL841820
- Other	CN841829.00	154.5	191.7	UL841820
Freezers of the chest type, not exceeding 800 litres capacity				
- Of a capacity not exceeding 400 litres	CN841830.20	223.1	300.8	UL841830
- Of a capacity exceeding 400 litres but not exceeding 800 litres	CN841830.80	78.2	64.5	UL841830
Freezers of the upright type, not exceeding 900 litres capacity				
- Of a capacity not exceeding 250 litres	CN841840.20	449.6	519.7	UL841840
- Of a capacity exceeding 250 litres but not exceeding 900 litres	CN841840.80	416.1	559.6	UL841840
Other furniture (chests, cabinets, display counters, showcases and the like) for storage and display, incorporating refrigerating or freezing equipment				
- Refrigerated showcases and counters (incorporating a refrigerating unit or evaporator)				
- - For frozen food storage	CN841850.11	490.1	298.9	UL841850
- - Other	CN841850.19	1751.0	1390.7	UL841850
- Other refrigerating furniture	CN841850.90	976.0	678.0	UL841850
Other refrigerating or freezing equipment; heat pumps				
- Heat pumps other than air conditioning machines of heading 8415	CN841861.00	2591.1	2548.1	UL841861
- Other	CN841869.00	3421.7	2354.5	UL841869

Parts				
- Furniture designed to receive refrigerating or freezing equipment	CN841891.00	96.2	72.4	UL841891
- Other				
- - Evaporators and condensers, excluding those for refrigerators of the household type	CN841899.10	933.5	817.7	UL841899
- - Other	CN841899.90	1824.1	2028.1	UL841899

**Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 8514), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, non-electric**

Products description	Codes	XUE	MUE	CODUL
Instantaneous or storage water heaters, non-electric				
- Instantaneous gas water heaters	CN841911.00	159.2	230.5	UL841911
- Solar water heaters	CN841912.00	N.A.	N.A.	UL841912
- Other	CN841919.00	1058.8	799.1	UL841919
Medical, surgical or laboratory sterilisers	CN841920.00	547.8	254.7	UL841920
Dryers				
- Lyophilisation apparatus, freeze drying units and spray dryers	CN841933.00	N.A.	N.A.	UL841931
- Other, for agricultural products	CN841934.00	N.A.	N.A.	UL841931
- Other, for wood, paper pulp, paper or paperboard	CN841935.00	N.A.	N.A.	UL841932
- Other	CN841939.00	836.5	447.8	UL841939
Distilling or rectifying plant	CN841940.00	376.2	124.3	UL841940
Heat-exchange units				
- Heat exchange units made of fluoropolymers and with inlet and outlet tube bores with inside diameters measuring 3 cm or less	CN841950.20	115.4	198.8	UL841950
- Other	CN841950.80	4743.2	3137.5	UL841950
Machinery for liquefying air or other gases	CN841960.00	210.3	167.1	UL841960
Other machinery, plant and equipment				
- For making hot drinks or for cooking or heating food				
- - Percolators and other appliances for making coffee and other hot drinks	CN841981.20	1065.1	534.7	UL841981
- - Other	CN841981.80	1572.4	914.7	UL841981

- Other				
- - Cooling towers and similar plant for direct cooling (without a separating wall) by means of recirculated water	CN841989.10	240.9	83.7	UL841989
- - Vacuum-vapour plant for the deposition of metal	CN841989.30	167.8	29.2	UL841989
- - Other	CN841989.98	3606.0	1505.8	UL841989
Parts				
- Of sterilisers of subheading 84192000	CN841990.15	97.6	71.4	UL841990
- Other	CN841990.85	2531.9	1802.1	UL841990

### Calendering or other rolling machines, other than for metals or glass, and cylinders therefor

Products description	Codes	XUE	MUE	CODUL
Calendering or other rolling machines				
- Of a kind used in the textile industry	CN842010.10	56.8	12.5	UL842010
- Of a kind used in the paper industry	CN842010.30	45.9	14.2	UL842010
- Other				
- - Roll laminators of a kind used solely or principally for the manufacture of printed circuit substrates or printed circuits	CN842010.81	4.3	3.7	UL842010
- - Other	CN842010.89	167.7	45.5	UL842010
Parts				
- Cylinders				
- - Of cast iron	CN842091.10	27.6	18.4	UL842091
- - Other	CN842091.80	182.7	136.7	UL842091
- Other	CN842099.00	146.1	37.7	UL842099

### Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases

Products description	Codes	XUE	MUE	CODUL
Centrifuges, including centrifugal dryers				
- Cream separators	CN842111.00	15.0	5.6	UL842111
- Clothes dryers	CN842112.00	13.9	51.1	UL842112
- Other				
- - Centrifuges of a kind used in laboratories	CN842119.20	357.6	131.3	UL842119
- - Other	CN842119.70	643.1	227.6	UL842119



Filtering or purifying machinery and apparatus for liquids				
- For filtering or purifying water	CN842121.00	4162.1	2538.2	UL842121
- For filtering or purifying beverages other than water	CN842122.00	155.5	109.4	UL842122
- Oil or petrol filters for internal combustion engines	CN842123.00	3201.3	2576.6	UL842123
- Other				
- - Made of fluoropolymers and with filter or purifier membrane thickness not exceeding 140 microns	CN842129.20	257.1	272.8	UL842129
- - Other	CN842129.80	4457.3	3310.2	UL842129
Filtering or purifying machinery and apparatus for gases				
- Intake air filters for internal combustion engines	CN842131.00	1531.1	1200.5	UL842131
- Catalytic converters or particulate filters, whether or not combined, for purifying or filtering exhaust gases from internal combustion engines	CN842132.00	N.A.	N.A.	UL842131
- Other				
- - With stainless steel housing, and with inlet and outlet tube bores with inside diameters not exceeding 1,3 cm	CN842139.15	66.9	69.0	UL842139
- - Other				
- - - Machinery and apparatus for filtering or purifying air	CN842139.25	3521.2	2507.8	UL842139
- - - Machinery and apparatus for filtering or purifying other gases				
- - - - By a catalytic process	CN842139.35	7187.9	7953.4	UL842139
- - - - Other	CN842139.85	1492.9	1201.0	UL842139
Parts				
- Of centrifuges, including centrifugal dryers	CN842191.00	669.6	324.2	UL842191
- Other				
- - Parts of machinery and apparatus of subheadings 84212920 or 84213915	CN842199.10	175.1	191.2	UL842199
- - Other	CN842199.90	5713.2	4154.9	UL842199

**Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages**

Products description	Codes	XUE	MUE	CODUL
Dishwashing machines				
- Of the household type	CN842211.00	2688.1	2632.9	UL842211
- Other	CN842219.00	605.6	358.9	UL842219

Machinery for cleaning or drying bottles or other containers	CN842220.00	501.1	183.9	UL842220
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	CN842230.00	5335.2	1922.3	UL842230
Other packing or wrapping machinery (including heat-shrink wrapping machinery)	CN842240.00	5946.0	1850.9	UL842240
Parts				
- Of dishwashing machines	CN842290.10	510.6	332.4	UL842290
- Other	CN842290.90	4043.5	2534.2	UL842290

**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**

Products description	Codes	XUE	MUE	CODUL
Personal weighing machines, including baby scales; household scales				
- Household scales	CN842310.10	148.2	230.5	UL842310
- Other	CN842310.90	123.8	212.8	UL842310
Scales for continuous weighing of goods on conveyors				
- Using electronic means for gauging weight	CN842320.10	40.0	29.2	UL8423A0
- Other	CN842320.90	6.4	9.9	UL8423A0
Constant weight scales and scales for discharging a predetermined weight of material into a bag or container, including hopper scales				
- Using electronic means for gauging weight	CN842330.10	159.0	102.1	UL8423A0
- Other	CN842330.90	33.7	16.3	UL8423A0
Other weighing machinery				
- Having a maximum weighing capacity not exceeding 30 kg				
- - Using electronic means for gauging weight				
- - - Check weighers and automatic control machines operating by reference to a pre-determined weight	CN842381.21	118.7	41.0	UL842381
- - - Machinery for weighing and labelling pre-packaged goods	CN842381.23	38.1	39.1	UL842381
- - - Shop scales	CN842381.25	117.7	89.8	UL842381
- - - Other	CN842381.29	75.8	80.1	UL842381
- - Other	CN842381.80	29.5	62.5	UL842381
- Having a maximum weighing capacity exceeding 30 kg but not exceeding 5000 kg				
- - Using electronic means for gauging weight, excluding machines for weighing motor vehicles	CN842382.20	119.1	53.6	UL842382
- - Other				

- - - Check weighers and automatic control machines operating by reference to a pre-determined weight	CN842382.81	1.3	2.9	UL842382
- - - Other	CN842382.89	83.3	71.4	UL842382
- Other				
- - Using electronic means for gauging weight	CN842389.20	35.6	24.4	UL842389
- - Other	CN842389.80	21.4	19.9	UL842389
Weighing machine weights of all kinds; parts of weighing machinery				
- Parts of weighing machinery of subheadings 84232010, 84233010, 84238121, 84238123, 84238125, 84238129, 84238220 or 84238920	CN842390.10	177.4	165.4	UL842390
- Other	CN842390.90	143.9	138.4	UL842390

**Mechanical appliances (whether or not hand-operated) for projecting, dispersing or spraying liquids or powders; fire extinguishers, whether or not charged; spray guns and similar appliances; steam or sandblasting machines and similar jet projecting machines**

Products description	Codes	XUE	MUE	CODUL
Fire extinguishers, whether or not charged	CN842410.00	471.2	370.4	UL842410
Spray guns and similar appliances	CN842420.00	738.8	729.9	UL842420
Steam or sandblasting machines and similar jet projecting machines				
- Water cleaning appliances, with built-in motor				
- - With heating device	CN842430.01	264.5	197.1	UL842430
- - Other	CN842430.08	928.4	868.2	UL842430
- Other machines				
- - Compressed air operated	CN842430.10	122.3	70.0	UL842430
- - Other	CN842430.90	488.2	365.1	UL842430
Agricultural or horticultural sprayers				
- Portable sprayers	CN842441.00	122.4	121.4	UL842481
- Other				
- - Sprayers and powder distributors designed to be mounted on or drawn by tractors	CN842449.10	365.1	254.1	UL842481
- - Other	CN842449.90	94.2	66.0	UL842481
Other appliances				
- Agricultural or horticultural				
- - Watering appliances	CN842482.10	593.1	493.4	UL842481
- - Other	CN842482.90	131.5	106.0	UL842481
- Other				

- - Mechanical appliances for projecting, dispersing, or spraying of a kind used solely or principally for the manufacture of printed circuits or printed circuit assemblies	CN842489.40	94.3	63.6	UL842489
- - Other	CN842489.70	2093.1	1391.7	UL842489
Parts				
- Parts of mechanical appliances of subheading 84248940	CN842490.20	145.7	130.4	UL842490
- Other	CN842490.80	2074.6	1696.6	UL842490

### Pulley tackle and hoists other than skip hoists; winches and capstans; jacks

Products description	Codes	XUE	MUE	CODUL
Pulley tackle and hoists other than skip hoists or hoists of a kind used for raising vehicles				
- Powered by electric motor	CN842511.00	453.9	182.0	UL842511
- Other	CN842519.00	139.4	109.2	UL842519
Winches; capstans				
- Powered by electric motor	CN842531.00	370.9	237.0	UL842531
- Other	CN842539.00	350.7	187.9	UL842539
Jacks; hoists of a kind used for raising vehicles				
- Built-in jacking systems of a type used in garages	CN842541.00	265.8	266.3	UL842541
- Other jacks and hoists, hydraulic	CN842542.00	605.5	523.9	UL842542
- Other	CN842549.00	302.4	236.3	UL842549

### Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane

Products description	Codes	XUE	MUE	CODUL
Overhead travelling cranes, transporter cranes, gantry cranes, bridge cranes, mobile lifting frames and straddle carriers				
- Overhead travelling cranes on fixed support	CN842611.00	257.1	131.2	UL842611
- Mobile lifting frames on tyres and straddle carriers	CN842612.00	325.3	92.4	UL842612
- Other	CN842619.00	297.1	187.7	UL842619
Tower cranes	CN842620.00	934.4	545.7	UL842620
Portal or pedestal jib cranes	CN842630.00	158.3	140.4	UL842630
Other machinery, self-propelled				
- On tyres	CN842641.00	935.3	475.2	UL842640
- Other	CN842649.00	923.5	335.2	UL842640

Other machinery				
- Designed for mounting on road vehicles				
- - Hydraulic cranes designed for the loading and unloading of the vehicle	CN842691.10	1304.1	751.5	UL842691
- - Other	CN842691.90	361.9	220.8	UL842691
- Other	CN842699.00	376.8	203.5	UL842699

### trucks; other works trucks fitted with lifting or handling equipment

Products description	Codes	XUE	MUE	CODUL
Self-propelled trucks powered by an electric motor				
- With a lifting height of 1 m or more	CN842710.10	4420.1	3060.3	UL842710
- Other	CN842710.90	958.3	797.2	UL842710
Other self-propelled trucks				
- With a lifting height of 1 m or more				
- - Rough terrain fork-lift and other stacking trucks	CN842720.11	1511.6	1339.8	UL842720
- - Other	CN842720.19	1706.7	1026.9	UL842720
- Other	CN842720.90	199.8	116.2	UL842720
Other trucks	CN842790.00	478.5	365.6	UL842790

### Other lifting, handling, loading or unloading machinery (for example, lifts, escalators, conveyors, teleferics)

Products description	Codes	XUE	MUE	CODUL
Lifts and skip hoists				
- Electrically operated	CN842810.20	2552.5	1087.8	UL842810
- Other	CN842810.80	402.6	222.8	UL842810
Pneumatic elevators and conveyors				
- For bulk materials	CN842820.20	245.3	89.4	UL842820
- Other	CN842820.80	363.1	159.8	UL842820
Other continuous-action elevators and conveyors, for goods or materials				
- Specially designed for underground use	CN842831.00	41.7	17.8	UL842831
- Other, bucket type	CN842832.00	78.8	43.3	UL842832
- Other, belt type	CN842833.00	1703.0	651.5	UL842833
- Other				

- - Roller conveyors	CN842839.20	447.2	250.7	UL842839
- - Other	CN842839.90	2575.5	1137.7	UL842839
Escalators and moving walkways	CN842840.00	97.0	116.0	UL842840
Teleferics, chairlifts, ski-draglines; traction mechanisms for funiculars	CN842860.00	339.5	58.2	UL842860
Industrial robots	CN842870.00	N.A.	N.A.	UL847950
Other machinery				
- Loaders specially designed for use in agriculture				
- - Designed for attachment to agricultural tractors	CN842890.71	334.4	156.9	UL842890
- - Other	CN842890.79	84.7	80.8	UL842890
- Other	CN842890.90	5981.1	3411.2	UL842890

### **bulldozers, angledozers, graders, levellers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and roadrollers**

Products description	Codes	XUE	MUE	CODUL
<b>Bulldozers and angledozers</b>				
- Track laying	CN842911.00	661.7	509.1	UL842911
- Other	CN842919.00	59.2	117.3	UL842919
<b>Graders and levellers</b>	CN842920.00	137.6	163.7	UL842920
<b>Scrapers</b>	CN842930.00	12.1	17.7	UL842930
<b>Tamping machines and roadrollers</b>				
- Roadrollers				
- - Vibratory	CN842940.10	834.5	296.8	UL842940
- - Other	CN842940.30	101.6	81.5	UL842940
- Tamping machines	CN842940.90	73.3	53.6	UL842940
<b>Mechanical shovels, excavators and shovel loaders</b>				
- Front-end shovel loaders				
- - Loaders specially designed for underground use	CN842951.10	301.9	69.3	UL842951
- - Other				
- - - Crawler shovel loaders	CN842951.91	281.4	236.8	UL842951
- - - Other	CN842951.99	2949.0	2972.3	UL842951
- Machinery with a 360° revolving superstructure				
- - Track-laying excavators	CN842952.10	5379.0	7079.4	UL842952

- - Other	CN842952.90	1533.6	1350.3	UL842952
- Other	CN842959.00	573.9	1058.6	UL842959

### Other moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or ores; piledrivers and pile extractors; snowploughs and snowblowers

Products description	Codes	XUE	MUE	CODUL
Piledrivers and pile extractors	CN843010.00	264.5	87.5	UL843010
Snowploughs and snowblowers	CN843020.00	160.4	176.4	UL843020
Coal or rock cutters and tunnelling machinery				
- Self-propelled	CN843031.00	600.8	78.3	UL843031
- Other	CN843039.00	490.4	142.1	UL843039
Other boring or sinking machinery				
- Self-propelled	CN843041.00	1413.0	396.9	UL843041
- Other	CN843049.00	239.6	154.9	UL843049
Other machinery, self-propelled	CN843050.00	336.5	360.1	UL843050
Other machinery, not self-propelled				
- Tamping or compacting machinery	CN843061.00	236.2	183.5	UL843061
- Other	CN843069.00	461.2	183.8	UL843069

### Parts suitable for use solely or principally with the machinery of headings 8425 to 8430

Products description	Codes	XUE	MUE	CODUL
Of machinery of heading 8425	CN843110.00	685.5	578.4	UL843110
Of machinery of heading 8427	CN843120.00	2570.9	3072.2	UL843120
Of machinery of heading 8428				
- Of lifts, skip hoists or escalators	CN843131.00	2281.0	2468.9	UL843131
- Other	CN843139.00	3987.9	2927.9	UL843139
Of machinery of heading 8426, 8429 or 8430				
- Buckets, shovels, grabs and grips	CN843141.00	1117.9	793.3	UL843141
- Bulldozer or angledozer blades	CN843142.00	39.9	30.9	UL843142
- Parts for boring or sinking machinery of subheading 843041 or 843049	CN843143.00	1823.7	846.1	UL843143

- Other				
- - Of cast iron or cast steel	CN843149.20	1684.3	1278.6	UL843149
- - Other	CN843149.80	6874.5	6420.5	UL843149

### Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers

Products description	Codes	XUE	MUE	CODUL
Ploughs	CN843210.00	262.1	195.6	UL843210
Harrows, scarifiers, cultivators, weeders and hoes				
- Disc harrows	CN843221.00	337.1	170.3	UL843221
- Other				
- - Scarifiers and cultivators	CN843229.10	409.2	309.0	UL843229
- - Harrows	CN843229.30	215.9	155.8	UL843229
- - Rotovators	CN843229.50	81.2	114.6	UL843229
- - Other	CN843229.90	220.8	174.1	UL843229
Seeders, planters and transplanters				
- No-till direct seeders, planters and transplanters	CN843231.00	178.6	143.0	UL843230
- Other				
- - Seeders				
- - - Central driven precision spacing seeders	CN843239.11	377.5	177.4	UL843230
- - - Other	CN843239.19	408.7	194.7	UL843230
- - Planters and transplanters	CN843239.90	53.6	24.5	UL843230
Manure spreaders and fertiliser distributors				
- Manure spreaders	CN843241.00	171.5	72.6	UL843240
- Fertiliser distributors	CN843242.00	239.3	152.2	UL843240
Other machinery	CN843280.00	819.8	571.7	UL843280
Parts	CN843290.00	1922.2	1720.4	UL843290

### Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading 8437

Products description	Codes	XUE	MUE	CODUL
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Mowers for lawns, parks or sports grounds				
- Powered, with the cutting device rotating in a horizontal plane				
- - Electric	CN843311.10	1054.6	1385.3	UL843310
- - Other				
- - - Self-propelled				
- - - - With a seat	CN843311.51	792.8	1065.2	UL843310
- - - - Other	CN843311.59	378.3	500.1	UL843310
- - - Other	CN843311.90	120.0	230.9	UL843310
- Other				
- - With motor				
- - - Electric	CN843319.10	24.8	59.5	UL843310
- - - Other				
- - - - Self-propelled				
- - - - - With a seat	CN843319.51	32.6	58.4	UL843310
- - - - - Other	CN843319.59	5.2	12.6	UL843310
- - - - Other	CN843319.70	24.4	15.9	UL843310
- - Without motor	CN843319.90	32.6	32.3	UL843310
Other mowers, including cutter bars for tractor mounting				
- With motor	CN843320.10	49.2	46.2	UL843320
- Other				
- - Designed to be carried on or hauled by a tractor	CN843320.50	855.3	469.2	UL843320
- - Other	CN843320.90	93.8	62.4	UL843320
Other haymaking machinery	CN843330.00	544.0	302.3	UL843330
Straw or fodder balers, including pick-up balers	CN843340.00	969.1	486.1	UL843340
Other harvesting machinery; threshing machinery				
- Combine harvester-threshers	CN843351.00	2389.6	1246.9	UL843351
- Other threshing machinery	CN843352.00	106.1	44.4	UL843352
- Root or tuber harvesting machines				
- - Potato diggers and potato harvesters	CN843353.10	219.3	111.1	UL843353
- - Beet-topping machines and beet harvesters	CN843353.30	122.6	51.9	UL843353
- - Other	CN843353.90	50.8	20.9	UL843353
- Other				

- - Forage harvesters				
- - - Self-propelled	CN843359.11	645.1	229.6	UL843359
- - - Other	CN843359.19	35.6	30.8	UL843359
- - Other	CN843359.85	456.8	259.1	UL843359
Machines for cleaning, sorting or grading eggs, fruit or other agricultural produce	CN843360.00	740.6	207.4	UL843360
Parts	CN843390.00	3368.9	3526.0	UL843390

### Milking machines and dairy machinery

Products description	Codes	XUE	MUE	CODUL
Milking machines	CN843410.00	377.3	280.2	UL843410
Dairy machinery	CN843420.00	407.8	192.3	UL843420
Parts	CN843490.00	542.8	493.3	UL843490

### Presses, crushers and similar machinery used in the manufacture of wine, cider, fruit juices or similar beverages

Products description	Codes	XUE	MUE	CODUL
Machinery	CN843510.00	205.5	92.3	UL843510
Parts	CN843590.00	41.3	31.7	UL843590

### Other agricultural, horticultural, forestry, poultry-keeping or bee-keeping machinery, including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders

Products description	Codes	XUE	MUE	CODUL
Machinery for preparing animal feedingstuffs	CN843610.00	570.9	288.5	UL843610
Poultry-keeping machinery; poultry incubators and brooders				
- Poultry incubators and brooders	CN843621.00	112.6	37.3	UL843621
- Other	CN843629.00	824.0	203.7	UL843629
Other machinery				
- Forestry machinery	CN843680.10	879.2	527.2	UL843680
- Other	CN843680.90	929.2	622.6	UL843680
Parts				

- Of poultry-keeping machinery or poultry incubators and brooders	CN843691.00	271.9	171.3	UL843691
- Other	CN843699.00	912.6	684.6	UL843699

### 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

Products description	Codes	XUE	MUE	CODUL
Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables	CN843710.00	173.2	92.9	UL843710
Other machinery	CN843780.00	197.4	102.4	UL843780
Parts	CN843790.00	226.7	127.6	UL843790

### 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 or microbial fats or oils

Products description	Codes	XUE	MUE	CODUL
Bakery machinery and machinery for the manufacture of macaroni, spaghetti or similar products				
- Bakery machinery	CN843810.10	1388.8	556.0	UL843810
- Machinery for the manufacture of macaroni, spaghetti or similar products	CN843810.90	300.3	89.8	UL843810
Machinery for the manufacture of confectionery, cocoa or chocolate	CN843820.00	621.5	144.3	UL8438A0
Machinery for sugar manufacture	CN843830.00	44.4	12.8	UL8438A0
Brewery machinery	CN843840.00	388.7	82.1	UL843840
Machinery for the preparation of meat or poultry	CN843850.00	1761.8	730.4	UL843850
Machinery for the preparation of fruits, nuts or vegetables	CN843860.00	402.3	161.7	UL843860
Other machinery				
- For the preparation of tea or coffee	CN843880.10	225.5	79.9	UL843880
- Other				
- - For the preparation or manufacture of drink	CN843880.91	139.2	54.1	UL843880
- - Other	CN843880.99	1148.8	440.9	UL843880
Parts	CN843890.00	2289.2	1461.1	UL843890

### Machinery for making pulp of fibrous cellulosic material or for making or finishing paper or paperboard

Products description	Codes	XUE	MUE	CODUL
Machinery for making pulp of fibrous cellulosic material	CN843910.00	309.9	43.8	UL843900
Machinery for making paper or paperboard	CN843920.00	795.7	166.0	UL843900
Machinery for finishing paper or paperboard	CN843930.00	295.2	166.3	UL843900
Parts				
- Of machinery for making pulp of fibrous cellulosic material	CN843991.00	551.8	213.1	UL843991
- Other	CN843999.00	1106.2	609.8	UL843999

### Bookbinding machinery, including book-sewing machines

Products description	Codes	XUE	MUE	CODUL
Machinery				
- Folding machines	CN844010.10	84.6	46.3	UL844010
- Collating machines and gathering machines	CN844010.20	14.8	12.3	UL844010
- Sewing, wire stitching and stapling machines	CN844010.30	34.6	22.8	UL844010
- Unsewn (perfect) binding machines	CN844010.40	31.7	27.0	UL844010
- Other	CN844010.90	104.8	78.7	UL844010
Parts	CN844090.00	98.4	93.6	UL844090

### Other machinery for making up paper pulp, paper or paperboard, including cutting machines of all kinds

Products description	Codes	XUE	MUE	CODUL
Cutting machines				
- Combined reel slitting and re-reeling machines	CN844110.10	291.2	82.3	UL844110
- Other slitting and cross-cutting machines	CN844110.20	129.6	43.7	UL844110
- Guillotines	CN844110.30	48.1	26.4	UL844110
- Other	CN844110.70	225.0	170.3	UL844110
Machines for making bags, sacks or envelopes	CN844120.00	231.1	103.7	UL8441A0
Machines for making cartons, boxes, cases, tubes, drums or similar containers, other than by moulding	CN844130.00	639.4	440.5	UL8441A0
Machines for moulding articles in paper pulp, paper or paperboard	CN844140.00	161.2	90.0	UL8441B0
Other machinery	CN844180.00	881.7	293.9	UL8441B0
Parts				

- Of cutting machines	CN844190.10	171.3	182.7	UL844190
- Other	CN844190.90	770.7	486.6	UL844190

**Machinery, apparatus and equipment (other than the machines of headings 8456 to 8465) for preparing or making plates, cylinders or other printing components; plates, cylinders and other printing components; plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished)**

Products description	Codes	XUE	MUE	CODUL
Machinery, apparatus and equipment	CN844230.00	201.0	85.7	UL844230
Parts of the foregoing machinery, apparatus or equipment	CN844240.00	89.6	72.6	UL844240
Plates, cylinders and other printing components; plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished)	CN844250.00	284.6	245.3	UL844250

**Printing machinery used for printing by means of plates, cylinders and other printing components of heading 8442; other printers, copying machines and facsimile machines, whether or not combined; parts and accessories thereof**

Products description	Codes	XUE	MUE	CODUL
Printing machinery used for printing by means of plates, cylinders and other printing components of heading 8442				
- Offset printing machinery, reel fed	CN844311.00	74.7	64.2	UL84430A
- 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)	CN844312.00	4.4	4.1	UL844312
- Other offset printing machinery				
-- Sheet fed				
--- Used	CN844313.10	278.6	78.4	UL84430A
--- New, taking sheets of a size				
---- Not exceeding 53 x 75 cm	CN844313.32	117.8	18.9	UL84430A
---- Exceeding 53 x 75 cm but not exceeding 75 x 107 cm	CN844313.34	671.7	172.3	UL84430A
---- Exceeding 75 x 107 cm	CN844313.38	186.2	43.6	UL84430A
-- Other	CN844313.90	90.1	69.5	UL84430A
- Letterpress printing machinery, reel fed, excluding flexographic printing	CN844314.00	19.0	10.0	UL84430B
- Letterpress printing machinery, other than reel fed, excluding flexographic printing	CN844315.00	7.8	5.6	UL84430B
- Flexographic printing machinery	CN844316.00	713.4	209.6	UL844316

- Gravure printing machinery	CN844317.00	79.2	14.6	UL84430B
- Other				
-- For printing textile materials	CN844319.20	128.4	30.7	UL844319
-- For use in the production of semiconductors	CN844319.40	2.6	1.2	UL844319
-- Other	CN844319.70	369.8	211.3	UL844319
Other printers, copying machines and facsimile machines, whether or not combined				
- 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	CN844331.00	3426.4	5073.1	UL844331
- Other, capable of connecting to an automatic data-processing machine or to a network				
-- Printers	CN844332.10	3032.7	3318.6	UL844332
-- Other	CN844332.80	55.9	81.0	UL844332
- Other	CN844339.00	253.7	200.7	UL844339
Parts and accessories				
- Parts and accessories of printing machinery used for printing by means of plates, cylinders and other printing components of heading 8442				
-- Of apparatus of subheading 84431940	CN844391.10	39.9	30.0	UL844391
-- Other				
--- Of cast iron or cast steel	CN844391.91	99.4	56.7	UL844391
--- Other	CN844391.99	793.2	558.5	UL844391
- Other				
-- Electronic assemblies	CN844399.10	277.2	352.5	UL844399
-- Other	CN844399.90	12717.4	14340.0	UL844399

### Machines for extruding, drawing, texturing or cutting man-made textile materials

Products description	Codes	XUE	MUE	CODUL
Machines for extruding	CN844400.10	465.5	28.3	UL844400
Other	CN844400.90	114.5	18.0	UL844400

**Machines for preparing textile fibres; spinning, doubling or twisting machines and other machinery for producing textile yarns; textile reeling or winding (including weft-winding) machines and machines for preparing textile yarns for use on the machines of heading 8446 or 8447**

Products description	Codes	XUE	MUE	CODUL
Machines for preparing textile fibres				
- Carding machines	CN844511.00	27.4	12.2	UL844510
- Combing machines	CN844512.00	7.3	3.3	UL844510
- Drawing or roving machines	CN844513.00	83.0	6.2	UL844510
- Other	CN844519.00	117.5	44.7	UL844510
Textile spinning machines	CN844520.00	237.0	32.3	UL844520
Textile doubling or twisting machines	CN844530.00	75.0	11.6	UL844530
Textile winding (including weft-winding) or reeling machines	CN844540.00	394.5	21.9	UL844540
Other	CN844590.00	60.5	23.1	UL844590

### Weaving machines (looms)

Products description	Codes	XUE	MUE	CODUL
For weaving fabrics of a width not exceeding 30 cm	CN844610.00	7.6	12.8	UL8446A0
For weaving fabrics of a width exceeding 30 cm, shuttle type				
- Power looms	CN844621.00	35.6	6.0	UL8446A0
- Other	CN844629.00	4.8	2.9	UL8446A0
For weaving fabrics of a width exceeding 30 cm, shuttleless type	CN844630.00	867.8	52.0	UL844630

### Knitting machines, stitch-bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting

Products description	Codes	XUE	MUE	CODUL
Circular knitting machines				
- With cylinder diameter not exceeding 165 mm	CN844711.00	158.0	17.1	UL844711
- With cylinder diameter exceeding 165 mm	CN844712.00	174.7	26.3	UL844712
Flat knitting machines; stitch-bonding machines				
- Warp knitting machines (including Raschel type); stitch-bonding machines	CN844720.20	6.7	15.8	UL844720
- Other	CN844720.80	12.9	59.9	UL844720
Other	CN844790.00	99.2	102.6	UL844790

**Auxiliary machinery for use with machines of heading 8444, 8445, 8446 or 8447 (for example, dobbies, jacquards, automatic stop motions, shuttle changing mechanisms); parts and accessories suitable for use solely or principally with the machines of this heading or of heading 8444, 8445, 8446 or 8447 (for example, spindles and spindle flyers, card clothing, combs, extruding nipples, shuttles, healds and heald-frames, hosiery needles)**

Products description	Codes	XUE	MUE	CODUL
Auxiliary machinery for machines of heading 8444, 8445, 8446 or 8447				
- Dobbies and jacquards; card-reducing, copying, punching or assembling machines for use therewith	CN844811.00	204.4	110.4	UL844811
- Other	CN844819.00	124.3	60.5	UL844819
Parts and accessories of machines of heading 8444 or of their auxiliary machinery	CN844820.00	164.2	133.1	UL844820
Parts and accessories of machines of heading 8445 or of their auxiliary machinery				
- Card clothing	CN844831.00	95.8	30.0	UL844831
- Of machines for preparing textile fibres, other than card clothing	CN844832.00	114.8	77.9	UL844832
- Spindles, spindle flyers, spinning rings and ring travellers	CN844833.00	70.3	15.7	UL844833
- Other	CN844839.00	365.3	209.6	UL844839
Parts and accessories of weaving machines (looms) or of their auxiliary machinery				
- Reeds for looms, healds and heald-frames	CN844842.00	12.8	14.7	UL844842
- Other	CN844849.00	361.2	280.1	UL844849
Parts and accessories of machines of heading 8447 or of their auxiliary machinery				
- Sinkers, needles and other articles used in forming stitches				
- - Sinkers	CN844851.10	1.8	12.3	UL844851
- - Other	CN844851.90	61.1	44.0	UL844851
- Other	CN844859.00	241.8	128.5	UL844859

**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**

Products description	Codes	XUE	MUE	CODUL
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	CN844900.00	829.2	211.9	UL844900



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**Household or laundry-type washing machines, including machines which both wash and dry**

Products description	Codes	XUE	MUE	CODUL
Machines, each of a dry linen capacity not exceeding 10 kg				
- Fully-automatic machines				
- - Each of a dry linen capacity not exceeding 6 kg				
- - - Front-loading machines	CN845011.11	490.0	677.3	UL845011
- - - Top-loading machines	CN845011.19	263.8	270.1	UL845011
- - Each of a dry linen capacity exceeding 6 kg but not exceeding 10 kg	CN845011.90	2555.4	2776.4	UL845011
- Other machines, with built-in centrifugal drier	CN845012.00	30.4	69.0	UL845012
- Other	CN845019.00	21.4	51.6	UL845019
Machines, each of a dry linen capacity exceeding 10 kg	CN845020.00	341.6	230.0	UL845020
Parts	CN845090.00	518.2	405.4	UL845090

**Machinery (other than machines of heading 8450) for washing, cleaning, wringing, drying, ironing, pressing (including fusing presses), bleaching, dyeing, dressing, finishing, coating or impregnating textile yarns, fabrics or made-up textile articles and machines for applying the paste to the base fabric or other support used in the manufacture of floor coverings such as linoleum; machines for reeling, unreeling, folding, cutting or pinking textile fabrics**

Products description	Codes	XUE	MUE	CODUL
Dry-cleaning machines	CN845110.00	27.3	8.6	UL845110
Drying machines				
- Each of a dry linen capacity not exceeding 10 kg	CN845121.00	1702.7	1760.3	UL845121
- Other	CN845129.00	220.4	82.1	UL845129
Ironing machines and presses (including fusing presses)	CN845130.00	180.5	101.3	UL845130
Washing, bleaching or dyeing machines	CN845140.00	264.4	60.6	UL845140
Machines for reeling, unreeling, folding, cutting or pinking textile fabrics	CN845150.00	352.9	126.7	UL845150
Other machinery				
- Machines used in the manufacture of linoleum or other floor coverings for applying the paste to the base fabric or other support	CN845180.10	37.8	4.5	UL845180
- Machines for dressing or finishing	CN845180.30	87.7	7.5	UL845180
- Other	CN845180.80	310.5	123.0	UL845180
Parts	CN845190.00	383.0	311.0	UL845190

### Sewing machines, other than book-sewing machines of heading 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles

Products description	Codes	XUE	MUE	CODUL
Sewing machines of the household type				
- Sewing machines (lock-stitch only), with heads of a weight not exceeding 16 kg without motor or 17 kg including the motor; sewing machine heads (lock-stitch only), of a weight not exceeding 16 kg without motor or 17 kg including the motor				
- - Sewing machines having a value (not including frames, tables or furniture) of more than € 65 each	CN845210.11	69.9	132.6	UL845210
- - Other	CN845210.19	17.2	63.7	UL845210
- Other sewing machines and other sewing machine heads	CN845210.90	165.7	308.1	UL845210
Other sewing machines				
- Automatic units	CN845221.00	101.1	66.6	UL845221
- Other	CN845229.00	271.6	204.3	UL845229
Sewing machine needles	CN845230.00	18.8	12.7	UL845230
Furniture, bases and covers for sewing machines and parts thereof; other parts of sewing machines	CN845290.00	69.8	92.6	UL845290

### 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

Products description	Codes	XUE	MUE	CODUL
Machinery for preparing, tanning or working hides, skins or leather	CN845310.00	130.1	25.5	UL845310
Machinery for making or repairing footwear	CN845320.00	78.4	42.0	UL845320
Other machinery	CN845380.00	53.4	14.4	UL845380
Parts	CN845390.00	122.8	58.0	UL845390

### Converters, ladles, ingot moulds and casting machines, of a kind used in metallurgy or in metal foundries

Products description	Codes	XUE	MUE	CODUL
Converters	CN845410.00	8.1	6.1	UL845410
Ingot moulds and ladles	CN845420.00	44.4	47.6	UL845420
Casting machines				

- For casting under pressure	CN845430.10	161.6	61.0	UL845430
- Other	CN845430.90	99.3	42.0	UL845430
Parts	CN845490.00	401.9	242.9	UL845490

### mills and rolls therefor

Products description	Codes	XUE	MUE	CODUL
Tube mills	CN845510.00	59.1	10.2	UL845510
Other rolling mills				
- Hot or combination hot and cold	CN845521.00	82.9	5.6	UL845521
- Cold	CN845522.00	80.3	25.4	UL845522
Rolls for rolling mills				
- Of cast iron	CN845530.10	206.0	132.9	UL845530
- Of open-die forged steel				
- - Hot-rolling work-rolls; hot-rolling and cold-rolling back-up rolls	CN845530.31	69.1	69.9	UL845530
- - Cold-rolling work-rolls	CN845530.39	103.4	71.6	UL845530
- Other	CN845530.90	208.7	109.1	UL845530
Other parts	CN845590.00	816.6	285.1	UL845590

### Machine tools for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electrodischarge, electrochemical, electron beam, ionic-beam or plasma arc processes; water-jet cutting machines

Products description	Codes	XUE	MUE	CODUL
Operated by laser or other light or photon beam processes				
- Operated by laser				
- - Of a kind used solely or principally for the manufacture of printed circuits, printed circuit assemblies, parts of heading 8517, or parts of automatic data processing machines	CN845611.10	62.6	48.8	UL845610
- - Other	CN845611.90	1537.1	1152.7	UL845610
- Operated by other light or photon beam processes				
- - Of a kind used solely or principally for the manufacture of printed circuits, printed circuit assemblies, parts of heading 8517, or parts of automatic data processing machines	CN845612.10	0.1	0.6	UL845610
- - Other	CN845612.90	38.7	10.8	UL845610
Operated by ultrasonic processes	CN845620.00	34.5	17.1	UL8456A0

Operated by electrodischarge processes				
- Numerically controlled				
- - Wire-cut	CN845630.11	66.1	122.2	UL8456A0
- - Other	CN845630.19	82.4	64.4	UL8456A0
- Other	CN845630.90	20.0	48.7	UL8456A0
Operated by plasma arc processes	CN845640.00	143.0	79.3	UL8456A0
Water-jet cutting machines	CN845650.00	83.9	46.4	UL8456A0
Other	CN845690.00	106.5	59.9	UL8456A0

### Machining centres, unit construction machines (single station) and multi-station transfer machines, for working metal

Products description	Codes	XUE	MUE	CODUL
Machining centres				
- Horizontal	CN845710.10	999.9	479.9	UL845710
- Other	CN845710.90	1459.4	1168.3	UL845710
Unit construction machines (single station)	CN845720.00	77.2	17.6	UL845720
Multi-station transfer machines				
- Numerically controlled	CN845730.10	231.8	147.6	UL845730
- Other	CN845730.90	94.7	36.7	UL845730

### Lathes (including turning centres) for removing metal

Products description	Codes	XUE	MUE	CODUL
Horizontal lathes				
- Numerically controlled				
- - Turning centres	CN845811.20	609.3	872.6	UL845811
- - Automatic lathes				
- - - Single spindle	CN845811.41	205.3	196.5	UL845811
- - - Multi-spindle	CN845811.49	278.1	215.1	UL845811
- - Other	CN845811.80	269.5	161.9	UL845811
- Other	CN845819.00	82.6	77.1	UL845819
Other lathes				
- Numerically controlled				

- - Turning centres	CN845891.20	268.4	165.7	UL845891
- - Other	CN845891.80	145.9	68.3	UL845891
- Other	CN845899.00	35.8	36.0	UL845899

**Machine tools (including way-type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes (including turning centres) of heading 8458**

Products description	Codes	XUE	MUE	CODUL
Way-type unit head machines	CN845910.00	30.6	22.9	UL845910
Other drilling machines				
- Numerically controlled	CN845921.00	74.0	44.3	UL845921
- Other	CN845929.00	97.4	91.5	UL845929
Other boring-milling machines				
- Numerically controlled	CN845931.00	304.5	120.4	UL845931
- Other	CN845939.00	23.2	19.0	UL845939
Other boring machines				
- Numerically controlled	CN845941.00	9.7	5.0	UL845940
- Other	CN845949.00	8.9	3.8	UL845940
Milling machines, knee-type				
- Numerically controlled	CN845951.00	9.5	26.5	UL845951
- Other	CN845959.00	5.7	8.5	UL845959
Other milling machines				
- Numerically controlled				
- - Tool milling machines	CN845961.10	273.3	136.1	UL845961
- - Other	CN845961.90	354.5	97.4	UL845961
- Other				
- - Tool milling machines	CN845969.10	17.6	10.2	UL845969
- - Other	CN845969.90	71.9	58.5	UL845969
Other threading or tapping machines	CN845970.00	40.5	19.1	UL845970

**Machine tools for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal or cermets by means of grinding stones, abrasives or polishing products, other than gear cutting, gear grinding or gear finishing machines of heading 8461**

Products description	Codes	XUE	MUE	CODUL
Flat-surface grinding machines				
- Numerically controlled	CN846012.00	134.7	55.6	UL846011
- Other	CN846019.00	59.5	39.7	UL846019
Other grinding machines				
- Centreless grinding machines, numerically controlled	CN846022.00	40.5	30.3	UL846021
- Other cylindrical grinding machines, numerically controlled	CN846023.00	285.0	129.7	UL846021
- Other, numerically controlled	CN846024.00	262.8	103.7	UL846021
- Other				
- - For cylindrical surfaces	CN846029.10	21.3	18.8	UL846029
- - Other	CN846029.90	47.2	30.9	UL846029
Sharpening (tool or cutter grinding) machines				
- Numerically controlled	CN846031.00	87.6	69.7	UL846031
- Other	CN846039.00	102.9	81.5	UL846039
Honing or lapping machines				
- Numerically controlled	CN846040.10	65.7	21.9	UL846040
- Other	CN846040.90	35.2	21.2	UL846040
Other	CN846090.00	111.6	100.5	UL846090

**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**

Products description	Codes	XUE	MUE	CODUL
Shaping or slotting machines	CN846120.00	39.9	10.1	UL846120
Broaching machines				
- Numerically controlled	CN846130.10	11.3	2.7	UL846130
- Other	CN846130.90	7.9	3.4	UL846130
Gear-cutting, gear-grinding or gear-finishing machines				

- Gear-cutting machines (including abrasive gear-cutting machines)				
- - For cutting cylindrical gears				
- - - Numerically controlled	CN846140.11	109.0	26.1	UL846140
- - - Other	CN846140.19	3.9	7.1	UL846140
- - For cutting other gears				
- - - Numerically controlled	CN846140.31	18.8	2.9	UL846140
- - - Other	CN846140.39	2.7	2.2	UL846140
- Gear-finishing machines				
- - Fitted with a micrometric adjusting system, in which the positioning in any one axis can be set up to an accuracy of at least 0,01 mm				
- - - Numerically controlled	CN846140.71	256.6	23.3	UL846140
- - - Other	CN846140.79	0.1	0.0	UL846140
- - Other	CN846140.90	2.5	17.8	UL846140
Sawing or cutting-off machines				
- Sawing machines				
- - Circular saws	CN846150.11	133.2	67.0	UL846150
- - Other	CN846150.19	170.8	138.4	UL846150
- Cutting-off machines	CN846150.90	106.5	56.3	UL846150
Other	CN846190.00	40.8	26.8	UL846190

**Machine tools (including presses) for working metal by forging, hammering or die forging (excluding rolling mills); machine tools (including presses, slitting lines and cut-to-length lines) for working metal by bending, folding, straightening, flattening, shearing, punching, notching or nibbling (excluding draw-benches); presses for working metal or metal carbides, not specified above**

Products description	Codes	XUE	MUE	CODUL
Hot forming machines for forging, die forging (including presses) and hot hammers				
- Closed die forging machines				
- - Numerically controlled	CN846211.10	N.A.	N.A.	UL846210
- - Other	CN846211.90	N.A.	N.A.	UL846210
- Other				
- - Numerically controlled	CN846219.10	N.A.	N.A.	UL846210



- - Other	CN846219.90	N.A.	N.A.	UL846210
Bending, folding, straightening or flattening machines (including press brakes) for flat products				
- Profile forming machines				
- - Numerically controlled	CN846222.10	N.A.	N.A.	UL846221
- - Other	CN846222.90	N.A.	N.A.	UL846221
- Numerically controlled press brakes	CN846223.00	N.A.	N.A.	UL846221
- Numerically controlled panel benders	CN846224.00	N.A.	N.A.	UL846221
- Numerically controlled roll forming machines	CN846225.00	N.A.	N.A.	UL846221
- Other numerically controlled bending, folding, straightening or flattening machines	CN846226.00	N.A.	N.A.	UL846221
- Other				
- - Numerically controlled	CN846229.10	130.4	77.5	UL846229
- - Other	CN846229.90	N.A.	N.A.	UL846229
Slitting lines, cut-to-length lines and other shearing machines (excluding presses) for flat products, other than combined punching and shearing machines				
- Slitting lines and cut-to-length lines				
- - Numerically controlled	CN846232.10	N.A.	N.A.	UL846231
- - Other	CN846232.90	N.A.	N.A.	UL846231
- Numerically controlled shearing machines	CN846233.00	N.A.	N.A.	UL846231
- Other	CN846239.00	N.A.	N.A.	UL846239
Punching, notching or nibbling machines (excluding presses) for flat products including combined punching and shearing machines				
- Numerically controlled	CN846242.00	N.A.	N.A.	UL846241
- Other	CN846249.00	N.A.	N.A.	UL846249
Machines for working tube, pipe, hollow section and bar (excluding presses)				
- Numerically controlled	CN846251.00	N.A.	N.A.	UL846250
- Other	CN846259.00	N.A.	N.A.	UL846250
Cold metal working presses				
- Hydraulic presses				
- - Numerically controlled	CN846261.10	N.A.	N.A.	UL846261
- - Other	CN846261.90	N.A.	N.A.	UL846261
- Mechanical presses				
- - Numerically controlled	CN846262.10	N.A.	N.A.	UL846269

- - Other	CN846262.90	N.A.	N.A.	UL846269
- Servo-presses				
- - Numerically controlled	CN846263.10	N.A.	N.A.	UL846269
- - Other	CN846263.90	N.A.	N.A.	UL846269
- Other				
- - Numerically controlled	CN846269.10	N.A.	N.A.	UL846269
- - Other	CN846269.90	N.A.	N.A.	UL846269
Other				
- Numerically controlled	CN846290.10	N.A.	N.A.	UL846299
- Other	CN846290.90	N.A.	N.A.	UL846299

### Other machine tools for working metal or cermets, without removing material

Products description	Codes	XUE	MUE	CODUL
Drawbenches for bars, tubes, profiles, wire or the like				
- Drawbenches for wire	CN846310.10	161.9	18.3	UL846310
- Other	CN846310.90	41.5	15.8	UL846310
Thread-rolling machines	CN846320.00	21.6	7.4	UL846320
Machines for working wire	CN846330.00	111.1	107.5	UL846330
Other	CN846390.00	263.0	132.4	UL846390

### Machine tools for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass

Products description	Codes	XUE	MUE	CODUL
Sawing machines	CN846410.00	324.2	190.6	UL846410
Grinding or polishing machines				
- For working glass				
- - Optical glass	CN846420.11	104.1	43.3	UL8464A0
- - Other	CN846420.19	143.9	57.9	UL8464A0
- Other	CN846420.80	232.7	65.4	UL8464A0
Other	CN846490.00	518.1	199.5	UL8464A0

**Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials**

Products description	Codes	XUE	MUE	CODUL
Machines which can carry out different types of machining operations without tool change between such operations				
- With manual transfer of workpiece between each operation	CN846510.10	123.2	45.8	UL846510
- With automatic transfer of workpiece between each operation	CN846510.90	752.9	271.2	UL846510
Machining centres	CN846520.00	322.7	166.6	UL846599
Other				
- Sawing machines				
- - Bandsaws	CN846591.10	118.4	94.1	UL846591
- - Circular saws	CN846591.20	689.3	625.1	UL846591
- - Other	CN846591.90	217.6	181.4	UL846591
- Planing, milling or moulding (by cutting) machines	CN846592.00	351.4	246.8	UL846592
- Grinding, sanding or polishing machines	CN846593.00	196.1	86.0	UL846593
- Bending or assembling machines	CN846594.00	295.3	100.3	UL846594
- Drilling or morticing machines	CN846595.00	397.0	117.7	UL846595
- Splitting, slicing or paring machines	CN846596.00	217.7	182.4	UL846596
- Other	CN846599.00	675.9	412.6	UL846599

**Parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for the machines; tool holders for any type of tool for working in the hand**

Products description	Codes	XUE	MUE	CODUL
Tool holders and self-opening dieheads				
- Tool holders				
- - Arbors, collets and sleeves	CN846610.20	347.9	244.5	UL846610
- - Other				
- - - For lathes	CN846610.31	363.8	289.2	UL846610
- - - Other	CN846610.38	791.1	658.1	UL846610
- Self-opening dieheads	CN846610.80	20.6	30.9	UL846610

Work holders				
- Jigs and fixtures for specific applications; sets of standard jig and fixture components	CN846620.20	279.1	189.6	UL846620
- Other				
- - For lathes	CN846620.91	206.5	99.7	UL846620
- - Other	CN846620.98	242.6	181.3	UL846620
Dividing heads and other special attachments for machines	CN846630.00	258.1	173.6	UL846630
Other				
- For machines of heading 8464				
- - Of cast iron or cast steel	CN846691.20	45.2	42.9	UL846691
- - Other	CN846691.95	275.7	202.9	UL846691
- For machines of heading 8465				
- - Of cast iron or cast steel	CN846692.20	165.3	107.2	UL846692
- - Other	CN846692.80	732.6	653.2	UL846692
- For machines of headings 8456 to 8461				
- - Parts and accessories of machines of subheadings 84561110, 84561210, 845620, 845630, 845710, 845891, 84592100, 845961 or 846150 of a kind used solely or principally for the manufacture of printed circuits, printed circuit assemblies, parts of heading 8517, or parts of automatic data processing machines	CN846693.40	243.3	188.9	UL846693
- - Other				
- - - For machines of subheading 84565000	CN846693.50	47.5	52.9	UL846693
- - - Other	CN846693.60	2359.8	2012.3	UL846693
- For machines of heading 8462 or 8463	CN846694.00	1530.9	1294.8	UL846694

### Tools for working in the hand, pneumatic, hydraulic or with self-contained electric or non-electric motor

Products description	Codes	XUE	MUE	CODUL
Pneumatic				
- Rotary type (including combined rotary-percussion)				
- - Metalworking	CN846711.10	107.4	136.3	UL846710
- - Other	CN846711.90	171.2	238.7	UL846710
- Other	CN846719.00	198.2	226.2	UL846710
With self-contained electric motor				
- Drills of all kinds				
- - Capable of operation without an external source of power	CN846721.10	1155.8	1547.3	UL846721

- - Other				
- - - Electropneumatic	CN846721.91	303.5	302.5	UL846721
- - - Other	CN846721.99	397.3	472.1	UL846721
- Saws				
- - Chainsaws	CN846722.10	353.0	349.8	UL846722
- - Circular saws	CN846722.30	329.6	409.0	UL846722
- - Other	CN846722.90	449.6	593.7	UL846722
- Other				
- - Capable of operation without an external source of power	CN846729.20	2340.9	2507.7	UL846729
- - Other				
- - - Grinders and sanders				
- - - - Angle grinders	CN846729.51	535.7	641.6	UL846729
- - - - Belt sanders	CN846729.53	45.8	87.5	UL846729
- - - - Other	CN846729.59	434.7	463.4	UL846729
- - - Planers	CN846729.70	36.8	66.7	UL846729
- - - Hedge trimmers and lawn edge cutters	CN846729.80	233.8	349.5	UL846729
- - - Other	CN846729.85	782.1	960.8	UL846729
Other tools				
- Chainsaws	CN846781.00	263.7	505.2	UL846781
- Other	CN846789.00	805.7	821.5	UL846789
Parts				
- Of chainsaws	CN846791.00	61.2	165.6	UL846791
- Of pneumatic tools	CN846792.00	160.1	200.7	UL846792
- Other	CN846799.00	587.7	847.1	UL846799

**Machinery and apparatus for soldering, brazing or welding, whether or not capable of cutting, other than those of heading 8515; gas-operated surface tempering machines and appliances**

Products description	Codes	XUE	MUE	CODUL
Hand-held blow pipes	CN846810.00	66.0	63.0	UL8468B0
Other gas-operated machinery and apparatus	CN846820.00	53.5	31.2	UL8468B0
Other machinery and apparatus	CN846880.00	45.1	84.2	UL8468B0
Parts	CN846890.00	144.6	141.3	UL846890

**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**

Products description	Codes	XUE	MUE	CODUL
Electronic calculators capable of operation without an external source of electric power and pocket-size data-recording, reproducing and displaying machines with calculating functions	CN847010.00	184.5	238.3	UL8470A0
Other electronic calculating machines				
- Incorporating a printing device	CN847021.00	11.2	19.2	UL8470A0
- Other	CN847029.00	47.6	23.7	UL8470A0
Other calculating machines	CN847030.00	1.6	7.3	UL8470A0
Cash registers	CN847050.00	686.2	778.0	UL847050
Other	CN847090.00	154.2	207.6	UL847090

**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**

Products description	Codes	XUE	MUE	CODUL
Portable automatic data-processing machines, weighing not more than 10 kg, consisting of at least a central processing unit, a keyboard and a display	CN847130.00	35635.0	65363.4	UL8471C0
Other automatic data-processing machines				
- Comprising in the same housing at least a central processing unit and an input and output unit, whether or not combined	CN847141.00	5069.4	4387.2	UL8471A0
- Other, presented in the form of systems	CN847149.00	5319.2	5557.7	UL8471A0
Processing units other than those of subheading 847141 or 847149, whether or not containing in the same housing one or two of the following types of unit: storage units, input units, output units	CN847150.00	15244.7	14564.4	UL8471A0
Input or output units, whether or not containing storage units in the same housing				
- Keyboards	CN847160.60	1483.8	2141.7	UL847160
- Other	CN847160.70	3020.0	3702.5	UL847160
Storage units				
- Central storage units	CN847170.20	1791.8	1432.3	UL847170
- Other				

- - Disk storage units				
- - - Optical, including magneto-optical	CN847170.30	340.7	215.2	UL847170
- - - Other				
- - - - Hard disk drives	CN847170.50	4171.3	7253.6	UL847170
- - - - Other	CN847170.70	265.4	358.8	UL847170
- - Magnetic tape storage units	CN847170.80	170.1	211.7	UL847170
- - Other	CN847170.98	4781.7	6700.2	UL847170
Other units of automatic data-processing machines	CN847180.00	5706.7	7799.1	UL8471B0
Other	CN847190.00	2610.2	2486.5	UL8471B0

**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)**

Products description	Codes	XUE	MUE	CODUL
Duplicating machines	CN847210.00	5.3	4.2	UL847210
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	CN847230.00	102.7	76.3	UL847230
Other				
- Coin-sorting, coin-counting or coin-wrapping machines	CN847290.10	127.2	183.5	UL847290
- Other	CN847290.80	1137.4	725.5	UL847290

**Parts and accessories (other than covers, carrying cases and the like) suitable for use solely or principally with machines of headings 8470 to 8472**

Products description	Codes	XUE	MUE	CODUL
Parts and accessories of the machines of heading 8470				
- Of the electronic calculating machines of subheading 847010, 847021 or 847029				
- - Electronic assemblies	CN847321.10	28.0	19.6	UL847321
- - Other	CN847321.90	33.9	28.4	UL847321
- Other				
- - Electronic assemblies	CN847329.10	29.2	70.2	UL847329

- - Other	CN847329.90	181.9	186.5	UL847329
Parts and accessories of the machines of heading 8471				
- Electronic assemblies	CN847330.20	7627.1	13575.8	UL847330
- Other	CN847330.80	5818.3	7306.8	UL847330
Parts and accessories of the machines of heading 8472				
- Electronic assemblies	CN847340.10	92.8	136.4	UL847340
- Other	CN847340.80	396.4	579.1	UL847340
Parts and accessories equally suitable for use with machines of two or more of the headings 8470 to 8472				
- Electronic assemblies	CN847350.20	111.1	45.1	UL847350
- Other	CN847350.80	174.6	136.9	UL847350

**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**

Products description	Codes	XUE	MUE	CODUL
Sorting, screening, separating or washing machines	CN847410.00	726.2	521.3	UL847410
Crushing or grinding machines	CN847420.00	1210.1	550.4	UL847420
Mixing or kneading machines				
- Concrete or mortar mixers	CN847431.00	461.0	274.0	UL847431
- Machines for mixing mineral substances with bitumen	CN847432.00	187.5	62.0	UL847430
- Other	CN847439.00	203.0	63.9	UL847430
Other machinery				
- Machinery for agglomerating, shaping or moulding ceramic paste	CN847480.10	433.0	60.2	UL847480
- Other	CN847480.90	562.1	168.6	UL847480
Parts				
- Of cast iron or cast steel	CN847490.10	658.8	441.3	UL847490
- Other	CN847490.90	2050.0	1159.3	UL847490

**Machines for assembling electric or electronic lamps, tubes or valves or flashbulbs, in glass envelopes; machines for manufacturing or hot working glass or glassware**



Products description	Codes	XUE	MUE	CODUL
Machines for assembling electric or electronic lamps, tubes or valves or flashbulbs, in glass envelopes	CN847510.00	9.8	16.6	UL847510
Machines for manufacturing or hot working glass or glassware				
- Machines for making optical fibres and preforms thereof	CN847521.00	26.4	10.7	UL847520
- Other	CN847529.00	397.0	173.6	UL847520
Parts				
- Parts of machines of subheading 84752100	CN847590.10	460.7	72.3	UL847590
- Other	CN847590.90	1782.2	1380.8	UL847590

### Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines

Products description	Codes	XUE	MUE	CODUL
Automatic beverage-vending machines				
- Incorporating heating or refrigerating devices	CN847621.00	226.8	208.3	UL847621
- Other	CN847629.00	13.9	8.2	UL847629
Other machines				
- Incorporating heating or refrigerating devices	CN847681.00	73.6	65.2	UL847681
- Other				
- - Money-changing machines	CN847689.10	21.9	14.5	UL847689
- - Other	CN847689.90	128.5	117.2	UL847689
Parts				
- Parts of money-changing machines	CN847690.10	26.0	30.5	UL847690
- Other	CN847690.90	178.8	145.7	UL847690

### Machinery for working rubber or plastics or for the manufacture of products from these materials, not specified or included elsewhere in this chapter

Products description	Codes	XUE	MUE	CODUL
Injection-moulding machines	CN847710.00	1296.7	1244.8	UL847710
Extruders	CN847720.00	1116.6	373.5	UL847720
Blow-moulding machines	CN847730.00	572.2	140.7	UL847730

Vacuum-moulding machines and other thermoforming machines	CN847740.00	296.3	120.8	UL847740
Other machinery for moulding or otherwise forming				
- For moulding or retreading pneumatic tyres or for moulding or otherwise forming inner tubes	CN847751.00	139.1	14.2	UL847751
- Other				
- - Presses	CN847759.10	211.5	81.5	UL847759
- - Other	CN847759.80	237.7	126.0	UL847759
Other machinery				
- Machines for the manufacture of foam products				
- - Machines for processing reactive resins	CN847780.11	141.5	20.3	UL847780
- - Other	CN847780.19	93.8	33.8	UL847780
- Other				
- - Size reduction equipment	CN847780.91	116.6	51.0	UL847780
- - Mixers, kneaders and agitators	CN847780.93	133.0	35.2	UL847780
- - Cutting, splitting and peeling machines	CN847780.95	206.5	70.0	UL847780
- - Other	CN847780.99	2842.4	1013.8	UL847780
Parts				
- Of cast iron or cast steel	CN847790.10	292.7	278.9	UL847790
- Other	CN847790.80	3024.9	2441.5	UL847790

### Machinery for preparing or making up tobacco, not specified or included elsewhere in this chapter

Products description	Codes	XUE	MUE	CODUL
Machinery	CN847810.00	362.0	187.4	UL847810
Parts	CN847890.00	121.6	136.0	UL847890

### Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter

Products description	Codes	XUE	MUE	CODUL
Machinery for public works, building or the like	CN847910.00	1920.1	831.0	UL847910
Machinery for the extraction or preparation of animal or fixed vegetable or microbial fats or oils	CN847920.00	248.0	73.3	UL847920
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				
- Presses	CN847930.10	396.6	78.5	UL847930

- Other	CN847930.90	257.1	91.7	UL847930
Rope- or cable-making machines	CN847940.00	346.4	85.0	UL847940
Industrial robots, not elsewhere specified or included	CN847950.00	2274.3	1521.8	UL847950
Evaporative air coolers	CN847960.00	59.3	105.6	UL847960
Passenger boarding bridges				
- Of a kind used in airports	CN847971.00	34.2	10.0	UL847989
- Other	CN847979.00	89.0	26.6	UL847989
Other machines and mechanical appliances				
- For treating metal, including electric wire coil-winders	CN847981.00	587.5	284.7	UL847981
- Mixing, kneading, crushing, grinding, screening, sifting, homogenising, emulsifying or stirring machines	CN847982.00	2901.5	1165.0	UL847982
- Cold isostatic presses	CN847983.00	N.A.	N.A.	UL847989
- Other				
- - Mobile hydraulic-powered mine roof supports	CN847989.30	66.9	4.8	UL847989
- - Central greasing systems	CN847989.60	155.4	90.7	UL847989
- - Automated electronic component placement machines of a kind used solely or principally for the manufacture	CN847989.70	512.2	349.7	UL847989
of printed circuit assemblies				
- - Other	CN847989.97	15818.7	9382.8	UL847989
Parts				
- Parts of machines of subheading 84798970	CN847990.15	385.2	268.0	UL847990
- Other				
- - Of cast iron or cast steel	CN847990.20	664.5	480.7	UL847990
- - Other	CN847990.70	7387.1	5133.4	UL847990

**Moulding boxes for metal foundry; mould bases; moulding patterns; moulds for metal (other than ingot moulds), metal carbides, glass, mineral materials, rubber or plastics**

Products description	Codes	XUE	MUE	CODUL
Moulding boxes for metal foundry	CN848010.00	21.5	20.0	UL848010
Mould bases	CN848020.00	21.6	37.0	UL848020
Moulding patterns				
- Of wood	CN848030.10	26.2	17.7	UL848030
- Other	CN848030.90	57.0	39.3	UL848030
Moulds for metal or metal carbides				

- Injection or compression types	CN848041.00	352.5	268.9	UL848040
- Other	CN848049.00	168.6	109.7	UL848040
Moulds for glass	CN848050.00	292.7	206.1	UL848050
Moulds for mineral materials	CN848060.00	331.1	125.3	UL848060
Moulds for rubber or plastics				
- Injection or compression types	CN848071.00	2938.4	2675.1	UL848070
- Other	CN848079.00	655.2	484.0	UL848070

### **Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves**

Products description	Codes	XUE	MUE	CODUL
Pressure-reducing valves				
- Combined with filters or lubricators	CN848110.05	239.7	144.6	UL848110
- Other				
- - Of cast iron or of steel	CN848110.19	312.6	178.5	UL848110
- - Other	CN848110.99	662.2	500.9	UL848110
Valves for oleohydraulic or pneumatic transmissions				
- Valves for the control of oleohydraulic power transmission	CN848120.10	3738.4	2407.2	UL848120
- Valves for the control of pneumatic power transmission	CN848120.90	2537.8	1680.0	UL848120
Check (non-return) valves				
- Of cast iron or of steel	CN848130.91	417.7	248.7	UL848130
- Other	CN848130.99	504.8	378.9	UL848130
Safety or relief valves				
- Of cast iron or of steel	CN848140.10	478.5	329.6	UL848140
- Other	CN848140.90	811.4	649.4	UL848140
Other appliances				
- Taps, cocks and valves for sinks, washbasins, bidets, water cisterns, baths and similar fixtures				
- - Mixing valves	CN848180.11	2990.9	3102.6	UL848180
- - Other	CN848180.19	726.3	760.6	UL848180
- Central heating radiator valves				
- - Thermostatic valves	CN848180.31	181.7	191.3	UL848180
- - Other	CN848180.39	300.3	297.3	UL848180

- Valves for pneumatic tyres and inner tubes	CN848180.40	152.3	193.1	UL848180
- Other				
- - Process control valves				
- - - Temperature regulators	CN848180.51	371.7	216.9	UL848180
- - - Other	CN848180.59	3080.0	2076.8	UL848180
- - Other				
- - - Gate valves				
- - - - Of cast iron	CN848180.61	335.0	187.1	UL848180
- - - - Of steel	CN848180.63	662.0	258.3	UL848180
- - - - Other	CN848180.69	360.7	174.0	UL848180
- - - Globe valves				
- - - - Of cast iron	CN848180.71	129.2	88.4	UL848180
- - - - Of steel	CN848180.73	979.9	472.5	UL848180
- - - - Other	CN848180.79	1608.5	993.3	UL848180
- - - Ball and plug valves	CN848180.81	2600.1	1339.6	UL848180
- - - Butterfly valves	CN848180.85	1296.4	579.2	UL848180
- - - Diaphragm valves	CN848180.87	335.0	188.2	UL848180
- - - Other	CN848180.99	4331.9	2996.4	UL848180
Parts	CN848190.00	5378.8	5234.2	UL848190

## Ball or roller bearings

Products description	Codes	XUE	MUE	CODUL
Ball bearings				
- With greatest external diameter not exceeding 30 mm	CN848210.10	555.5	703.5	UL848210
- Other	CN848210.90	4257.6	3797.0	UL848210
Tapered roller bearings, including cone and tapered roller assemblies	CN848220.00	2050.7	1606.5	UL848220
Spherical roller bearings	CN848230.00	1069.4	672.2	UL848230
Needle roller bearings, including cage and needle roller assemblies	CN848240.00	462.4	431.7	UL848240
Other cylindrical roller bearings, including cage and roller assemblies	CN848250.00	1468.1	1043.3	UL848250
Other, including combined ball/roller bearings	CN848280.00	489.9	416.9	UL848280
Parts				
- Balls, needles and rollers				

- - Tapered rollers	CN848291.10	117.7	107.8	UL848291
- - Other	CN848291.90	545.6	499.7	UL848291
- Other	CN848299.00	1668.9	2148.2	UL848299

**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)**

Products description	Codes	XUE	MUE	CODUL
Transmission shafts (including cam shafts and crank shafts) and cranks				
- Cranks and crank shafts				
- - Of cast iron or cast steel	CN848310.21	124.2	206.6	UL848310
- - Of open-die forged steel	CN848310.25	296.5	107.3	UL848310
- - Other	CN848310.29	647.8	587.2	UL848310
- Articulated shafts	CN848310.50	344.3	396.6	UL848310
- Other	CN848310.95	2458.7	1832.7	UL848310
Bearing housings, incorporating ball or roller bearings	CN848320.00	394.6	349.8	UL848320
Bearing housings, not incorporating ball or roller bearings; plain shaft bearings				
- Bearing housings				
- - For ball or roller bearings	CN848330.32	183.5	219.3	UL848330
- - Other	CN848330.38	217.1	358.9	UL848330
- Plain shaft bearings	CN848330.80	2125.0	1477.6	UL848330
Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements presented separately; ball or roller screws; gear boxes and other speed changers, including torque converters				
- Gears and gearing (other than friction gears)				
- - Spur and helical	CN848340.21	1121.5	441.1	UL848340
- - Bevel and bevel/spur	CN848340.23	405.3	188.6	UL848340
- - Worm gear	CN848340.25	261.3	129.5	UL848340
- - Other	CN848340.29	1831.3	1112.5	UL848340
- Ball or roller screws	CN848340.30	469.7	228.7	UL848340
- Gear boxes and other speed changers				
- - Gear boxes	CN848340.51	2700.0	1347.9	UL848340

- - Other	CN848340.59	445.9	231.5	UL848340
- Other	CN848340.90	1230.9	819.0	UL848340
Flywheels and pulleys, including pulley blocks				
- Of cast iron or cast steel	CN848350.20	488.1	606.4	UL848350
- Other	CN848350.80	2237.0	2014.3	UL848350
Clutches and shaft couplings (including universal joints)				
- Of cast iron or cast steel	CN848360.20	379.8	247.2	UL848360
- Other	CN848360.80	1125.6	616.4	UL848360
Toothed wheels, chain sprockets and other transmission elements presented separately; parts				
- Parts of bearing housings	CN848390.20	132.0	139.7	UL848390
- Other				
- - Of cast iron or cast steel	CN848390.81	951.3	942.2	UL848390
- - Other	CN848390.89	4102.6	3477.8	UL848390

### Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal; sets or assortments of gaskets and similar joints, dissimilar in composition, put up in pouches, envelopes or similar packings; mechanical seals

Products description	Codes	XUE	MUE	CODUL
Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal	CN848410.00	711.4	610.8	UL848410
Mechanical seals	CN848420.00	1094.4	792.8	UL848420
Other	CN848490.00	901.9	529.5	UL848490

### Machines for additive manufacturing

Products description	Codes	XUE	MUE	CODUL
By metal deposit	CN848510.00	N.A.	N.A.	UL848500
By plastics or rubber deposit	CN848520.00	N.A.	N.A.	UL848500
By plaster, cement, ceramics or glass deposit				
- By plaster, cement, or ceramic deposit	CN848530.10	N.A.	N.A.	UL848500
- Other	CN848530.90	N.A.	N.A.	UL848500
Other	CN848580.00	N.A.	N.A.	UL848500
Parts				
- Parts of machines of subheading 84853010	CN848590.10	N.A.	N.A.	UL848500

- Other	CN848590.90	N.A.	N.A.	UL848500
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**Machines and apparatus of a kind used solely or principally for the manufacture of semiconductor boules or wafers, semiconductor devices, electronic integrated circuits or flat panel displays; machines and apparatus specified in note 11(C) to this chapter; parts and accessories**

Products description	Codes	XUE	MUE	CODUL
Machines and apparatus for the manufacture of boules or wafers	CN848610.00	454.5	137.9	UL848610
Machines and apparatus for the manufacture of semiconductor devices or of electronic integrated circuits	CN848620.00	15667.6	1971.1	UL848620
Machines and apparatus for the manufacture of flat panel displays	CN848630.00	34.7	8.3	UL848630
Machines and apparatus specified in note 11(C) to this chapter	CN848640.00	694.4	354.9	UL848640
Parts and accessories	CN848690.00	4548.3	6029.7	UL848690

**Machinery parts, not containing electrical connectors, insulators, coils, contacts or other electrical features, not specified or included elsewhere in this chapter**

Products description	Codes	XUE	MUE	CODUL
Ships' or boats' propellers and blades therefor				
- Of bronze	CN848710.10	105.8	67.0	UL848710
- Other	CN848710.90	122.5	103.3	UL848710
Other				
- Of cast iron	CN848790.40	103.8	70.1	UL848790
- Of iron or steel				
- - Of cast steel	CN848790.51	59.8	42.0	UL848790
- - Of open-die forged or closed-die forged iron or steel	CN848790.57	113.9	103.6	UL848790
- - Other	CN848790.59	704.3	377.7	UL848790
- Other	CN848790.90	1942.2	1206.4	UL848790



## 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

### Electric motors and generators (excluding generating sets)

Products description	Codes	XUE	MUE	CODUL
Motors of an output not exceeding 37,5 W				
- Synchronous motors of an output not exceeding 18 W	CN850110.10	352.4	445.9	UL850110
- Other				
- - Universal AC/DC motors	CN850110.91	250.7	418.7	UL850110
- - AC motors	CN850110.93	272.9	402.5	UL850110
- - DC motors	CN850110.99	2348.8	2784.2	UL850110
Universal AC/DC motors of an output exceeding 37,5 W	CN850120.00	355.1	498.3	UL850120
Other DC motors; DC generators, other than photovoltaic generators				
- Of an output not exceeding 750 W	CN850131.00	4077.7	4700.6	UL85013A
- Of an output exceeding 750 W but not exceeding 75 kW	CN850132.00	875.8	596.7	UL85013A
- Of an output exceeding 75 kW but not exceeding 375 kW	CN850133.00	75.5	72.6	UL85013B
- Of an output exceeding 375 kW	CN850134.00	25.9	41.6	UL85013B
Other AC motors, single-phase				
- Of an output not exceeding 750 W	CN850140.20	878.6	1081.8	UL850140
- Of an output exceeding 750 W	CN850140.80	154.9	222.4	UL850140
Other AC motors, multi-phase				
- Of an output not exceeding 750 W	CN850151.00	1560.3	1355.1	UL85015A
- Of an output exceeding 750 W but not exceeding 75 kW				
- - Of an output exceeding 750 W but not exceeding 7,5 kW	CN850152.20	2424.3	1853.5	UL85015A
- - Of an output exceeding 7,5 kW but not exceeding 37 kW	CN850152.30	1264.3	813.4	UL85015A
- - Of an output exceeding 37 kW but not exceeding 75 kW	CN850152.90	719.4	628.4	UL85015A
- Of an output exceeding 75 kW				
- - Traction motors	CN850153.50	622.3	904.3	UL850153
- - Other, of an output				

- - - Exceeding 75 kW but not exceeding 375 kW	CN850153.81	814.5	471.4	UL850153
- - - Exceeding 375 kW but not exceeding 750 kW	CN850153.94	225.8	103.2	UL850153
- - - Exceeding 750 kW	CN850153.99	617.5	190.8	UL850153
AC generators (alternators), other than photovoltaic generators				
- Of an output not exceeding 75 kVA				
- - Of an output not exceeding 7,5 kVA	CN850161.20	79.2	91.0	UL85016A
- - Of an output exceeding 7,5 kVA but not exceeding 75 kVA	CN850161.80	177.9	131.6	UL85016A
- Of an output exceeding 75 kVA but not exceeding 375 kVA	CN850162.00	205.1	218.8	UL85016B
- Of an output exceeding 375 kVA but not exceeding 750 kVA	CN850163.00	79.9	58.7	UL85016B
- Of an output exceeding 750 kVA	CN850164.00	1306.8	554.2	UL85016B
Photovoltaic DC generators				
- Of an output not exceeding 50 W	CN850171.00	N.A.	N.A.	UL850190
- Of an output exceeding 50 W	CN850172.00	N.A.	N.A.	UL850190
Photovoltaic AC generators	CN850180.00	N.A.	N.A.	UL850190

## Electric generating sets and rotary converters

Products description	Codes	XUE	MUE	CODUL
Generating sets with compression-ignition internal combustion piston engines (diesel or semi-diesel engines)				
- Of an output not exceeding 75 kVA				
- - Of an output not exceeding 7,5 kVA	CN850211.20	85.2	68.2	UL850211
- - Of an output exceeding 7,5 kVA but not exceeding 75 kVA	CN850211.80	358.6	203.4	UL850211
- Of an output exceeding 75 kVA but not exceeding 375 kVA	CN850212.00	308.2	188.7	UL850212
- Of an output exceeding 375 kVA				
- - Of an output exceeding 375 kVA but not exceeding 750 kVA	CN850213.20	196.4	80.6	UL850213
- - Of an output exceeding 750 kVA but not exceeding 2000 kVA	CN850213.40	274.6	118.5	UL850213
- - Of an output exceeding 2000 kVA	CN850213.80	482.9	232.7	UL850213
Generating sets with spark-ignition internal combustion piston engines				
- Of an output not exceeding 7,5 kVA	CN850220.20	115.0	216.6	UL850220
- Of an output exceeding 7,5 kVA but not exceeding 375 kVA	CN850220.40	109.9	57.1	UL850220
- Of an output exceeding 375 kVA but not exceeding 750 kVA	CN850220.60	26.5	16.1	UL850220
- Of an output exceeding 750 kVA	CN850220.80	990.1	236.9	UL850220
Other generating sets				

- Wind-powered	CN850231.00	4325.7	1302.8	UL850231
- Other				
- - Turbo-generators	CN850239.20	609.0	108.2	UL850239
- - Other	CN850239.80	195.4	116.0	UL850239
Electric rotary converters	CN850240.00	65.5	57.4	UL850240

### Parts suitable for use solely or principally with the machines of heading 8501 or 8502

Products description	Codes	XUE	MUE	CODUL
Non-magnetic retaining rings	CN850300.10	76.0	91.9	UL850300
Other				
- Of cast iron or cast steel	CN850300.91	408.1	620.8	UL850300
- Other	CN850300.99	6002.3	7055.1	UL850300

### Electrical transformers, static converters (for example, rectifiers) and inductors

Products description	Codes	XUE	MUE	CODUL
Ballasts for discharge lamps or tubes				
- Inductors, whether or not connected with a capacitor	CN850410.20	108.4	86.3	UL850410
- Other	CN850410.80	290.4	309.9	UL850410
Liquid dielectric transformers				
- Having a power handling capacity not exceeding 650 kVA	CN850421.00	368.8	379.2	UL850421
- Having a power handling capacity exceeding 650 kVA but not exceeding 10000 kVA				
- - Exceeding 650 kVA but not exceeding 1600 kVA	CN850422.10	203.8	157.8	UL850422
- - Exceeding 1600 kVA but not exceeding 10000 kVA	CN850422.90	381.2	403.8	UL850422
- Having a power handling capacity exceeding 10000 kVA	CN850423.00	1358.1	462.6	UL850423
Other transformers				
- Having a power handling capacity not exceeding 1 kVA				
- - Measuring transformers				
- - - For voltage measurement	CN850431.21	322.5	261.1	UL850431
- - - Other	CN850431.29	302.4	196.8	UL850431
- - Other	CN850431.80	604.8	925.8	UL850431
- Having a power handling capacity exceeding 1 kVA but not exceeding 16 kVA	CN850432.00	157.4	177.5	UL850432

- Having a power handling capacity exceeding 16 kVA but not exceeding 500 kVA	CN850433.00	211.8	167.0	UL850433
- Having a power handling capacity exceeding 500 kVA	CN850434.00	456.0	285.3	UL850434
Static converters				
- Of a kind used with telecommunication apparatus, automatic data-processing machines and units thereof	CN850440.30	2902.9	3898.3	UL850440
- Other				
- - Accumulator chargers	CN850440.55	2645.3	2606.1	UL850440
- - Other				
- - - Rectifiers	CN850440.82	2101.6	2557.5	UL850440
- - - Inverters				
- - - - Having a power handling capacity not exceeding 7,5 kVA	CN850440.84	1991.5	2552.7	UL850440
- - - - Having a power handling capacity exceeding 7,5 kVA	CN850440.88	4940.8	3485.2	UL850440
- - - Other	CN850440.90	6845.7	6238.5	UL850440
Other inductors	CN850450.00	2089.4	2940.7	UL850450
Parts				
- Of transformers and inductors				
- - Ferrite cores	CN850490.11	260.5	342.3	UL850490
- - Steel laminations and cores, whether or not stacked or wound	CN850490.13	208.8	233.1	UL850490
- - Other	CN850490.17	822.4	600.2	UL850490
- Of static converters	CN850490.90	1627.6	1843.9	UL850490

**Electromagnets; permanent magnets and articles intended to become permanent magnets after magnetisation; electromagnetic or permanent magnet chucks, clamps and similar holding devices; electromagnetic couplings, clutches and brakes; electromagnetic lifting heads**

Products description	Codes	XUE	MUE	CODUL
Permanent magnets and articles intended to become permanent magnets after magnetisation				
- Of metal	CN850511.00	413.9	1144.9	UL850510
- Other				
- - Permanent magnets of agglomerated ferrite	CN850519.10	127.1	225.2	UL850510
- - Other	CN850519.90	152.0	261.7	UL850510
Electromagnetic couplings, clutches and brakes	CN850520.00	435.6	279.1	UL850520
Other, including parts				

- Electromagnets; electromagnetic or permanent magnet chucks, clamps and similar holding devices				
- - Electromagnets of a kind used solely or principally for magnetic resonance imaging apparatus other than electromagnets of heading 9018	CN850590.21	45.7	30.1	UL850590
- - Other	CN850590.29	587.3	423.9	UL850590
- Electromagnetic lifting heads	CN850590.50	18.5	25.6	UL850590
- Parts	CN850590.90	428.9	725.9	UL850590

### Primary cells and primary batteries

Products description	Codes	XUE	MUE	CODUL
Manganese dioxide				
- Alkaline				
- - Cylindrical cells	CN850610.11	775.4	1122.9	UL850610
- - Other	CN850610.18	69.1	102.8	UL850610
- Other				
- - Cylindrical cells	CN850610.91	54.9	54.1	UL850610
- - Other	CN850610.98	9.2	17.4	UL850610
Mercuric oxide	CN850630.00	2.0	1.8	UL850630
Silver oxide	CN850640.00	48.3	43.1	UL850640
Lithium				
- Cylindrical cells	CN850650.10	343.8	396.4	UL850650
- Button cells	CN850650.30	197.2	215.0	UL850650
- Other	CN850650.90	151.0	270.3	UL850650
Air-zinc	CN850660.00	218.0	146.2	UL850660
Other primary cells and primary batteries				
- Dry zinc-carbon batteries of a voltage of 5,5 V or more but not exceeding 6,5 V	CN850680.05	6.6	16.8	UL850680
- Other	CN850680.80	70.5	113.9	UL850680
Parts	CN850690.00	71.4	87.2	UL850690

### Electric accumulators, including separators therefor, whether or not rectangular (including square)

Products description	Codes	XUE	MUE	CODUL
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Lead-acid, of a kind used for starting piston engines				
- Working with liquid electrolyte	CN850710.20	4199.8	2987.9	UL850710
- Other	CN850710.80	578.2	706.6	UL850710
Other lead-acid accumulators				
- Working with liquid electrolyte	CN850720.20	1181.1	1055.7	UL850720
- Other	CN850720.80	1284.8	1343.4	UL850720
Nickel-cadmium				
- Hermetically sealed	CN850730.20	65.2	72.8	UL8507A0
- Other	CN850730.80	293.3	77.8	UL8507A0
Nickel-metal hydride	CN850750.00	329.5	672.5	UL850780
Lithium-ion	CN850760.00	18220.2	21504.3	UL850780
Other accumulators	CN850780.00	224.6	492.3	UL850780
Parts				
- Separators	CN850790.30	81.7	430.0	UL850790
- Other	CN850790.80	973.6	2049.0	UL850790

### Vacuum cleaners

Products description	Codes	XUE	MUE	CODUL
With self-contained electric motor				
- Of a power not exceeding 1500 W and having a dust bag or other receptacle capacity not exceeding 20 l	CN850811.00	3074.3	5768.0	UL850811
- Other	CN850819.00	599.0	605.6	UL850819
Other vacuum cleaners	CN850860.00	138.1	168.7	UL850860
Parts	CN850870.00	379.8	541.1	UL850870

### Electromechanical domestic appliances, with self-contained electric motor, other than vacuum cleaners of heading 8508

Products description	Codes	XUE	MUE	CODUL
Food grinders and mixers; fruit or vegetable juice extractors	CN850940.00	1814.7	2687.3	UL850940
Other appliances	CN850980.00	2762.4	3084.2	UL850980
Parts	CN850990.00	460.8	619.3	UL850990

**Shavers, hair clippers and hair-removing appliances, with self-contained electric motor**

Products description	Codes	XUE	MUE	CODUL
Shavers	CN851010.00	1082.1	866.8	UL851010
Hair clippers	CN851020.00	725.9	828.9	UL851020
Hair-removing appliances	CN851030.00	338.6	360.0	UL851030
Parts	CN851090.00	464.6	303.3	UL851090

**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**

Products description	Codes	XUE	MUE	CODUL
Sparking plugs	CN851110.00	1137.8	990.6	UL851110
Ignition magnetos; magneto-dynamos; magnetic flywheels	CN851120.00	54.0	41.8	UL851120
Distributors; ignition coils	CN851130.00	474.1	533.5	UL851130
Starter motors and dual purpose starter-generators	CN851140.00	1341.6	1457.7	UL851140
Other generators	CN851150.00	2164.1	1764.4	UL851150
Other equipment	CN851180.00	431.6	324.0	UL851180
Parts	CN851190.00	661.9	1329.6	UL851190

**Electrical lighting or signalling equipment (excluding articles of heading 8539), windscreen wipers, defrosters and demisters, of a kind used for cycles or motor vehicles**

Products description	Codes	XUE	MUE	CODUL
Lighting or visual signalling equipment of a kind used on bicycles	CN851210.00	147.8	275.8	UL851210
Other lighting or visual signalling equipment	CN851220.00	8790.2	7158.5	UL851220
Sound signalling equipment				
- Burglar alarms of a kind used for motor vehicles	CN851230.10	110.3	84.5	UL851230
- Other	CN851230.90	214.5	230.1	UL851230
Windscreen wipers, defrosters and demisters	CN851240.00	354.8	321.8	UL851240
Parts				

- Of apparatus of subheading 85123010	CN851290.10	56.7	36.2	UL851290
- Other	CN851290.90	3348.7	3155.0	UL851290

**Portable electric lamps designed to function by their own source of energy (for example, dry batteries, accumulators, magnetos), other than lighting equipment of heading 8512**

Products description	Codes	XUE	MUE	CODUL
Lamps	CN851310.00	461.7	764.9	UL851310
Parts	CN851390.00	13.9	22.8	UL851390

**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**

Products description	Codes	XUE	MUE	CODUL
Resistance heated furnaces and ovens				
- Hot isostatic presses	CN851411.00	N.A.	N.A.	UL847989
- Other				
- - Bakery and biscuit ovens	CN851419.10	N.A.	N.A.	UL851410
- - Other	CN851419.80	N.A.	N.A.	UL851410
Furnaces and ovens functioning by induction or dielectric loss				
- Induction furnaces and ovens	CN851420.10	171.6	38.3	UL851420
- Dielectric furnaces and ovens	CN851420.80	20.2	31.2	UL851420
Other furnaces and ovens				
- Electron beam furnaces				
- - Of a kind used solely or principally for the manufacture of printed circuits or printed circuit assemblies	CN851431.10	N.A.	N.A.	UL851431
- - Other	CN851431.90	N.A.	N.A.	UL851431
- Plasma and vacuum arc furnaces				
- - Of a kind used solely or principally for the manufacture of printed circuits or printed circuit assemblies	CN851432.10	N.A.	N.A.	UL851432
- - Other	CN851432.90	N.A.	N.A.	UL851432
- Other				
- - Of a kind used solely or principally for the manufacture of printed circuits or printed circuit assemblies	CN851439.10	N.A.	N.A.	UL851430
- - Other	CN851439.90	N.A.	N.A.	UL851430



Other equipment for the heat treatment of materials by induction or dielectric loss	CN851440.00	210.0	98.9	UL851440
Parts				
- Of other furnaces and ovens of subheadings 85143110, 85143210 or 85143910	CN851490.30	35.9	19.2	UL851490
- Other	CN851490.70	523.0	244.8	UL851490

**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**

Products description	Codes	XUE	MUE	CODUL
Brazing or soldering machines and apparatus				
- Soldering irons and guns	CN851511.00	63.8	76.2	UL851510
- Other				
- - Wave soldering machines of a kind used solely or principally for the manufacture of printed circuit assemblies	CN851519.10	34.8	23.9	UL851510
- - Other	CN851519.90	237.8	95.6	UL851510
Machines and apparatus for resistance welding of metal				
- Fully or partly automatic	CN851521.00	625.8	233.5	UL851520
- Other	CN851529.00	67.5	48.9	UL851520
Machines and apparatus for arc (including plasma arc) welding of metals				
- Fully or partly automatic	CN851531.00	831.9	440.3	UL851530
- Other				
- - For manual welding with coated electrodes, complete with welding or cutting devices, and consigned with				
- - - Transformers	CN851539.13	35.2	23.7	UL851530
- - - Generators or rotary converters or static converters, rectifiers or rectifying apparatus	CN851539.18	48.0	36.8	UL851530
- - Other	CN851539.90	205.9	221.1	UL851530
Other machines and apparatus				
- For treating metals	CN851580.10	385.3	125.8	UL851580
- Other	CN851580.90	575.7	404.7	UL851580
Parts				
- Of wave soldering machines of subheading 85151910	CN851590.20	44.1	64.2	UL851590
- Other	CN851590.80	1276.5	1146.7	UL851590

**Electric instantaneous or storage water heaters and immersion heaters; electric space-heating apparatus and soil-heating apparatus; electrothermic hairdressing apparatus (for example, hairdryers, hair curlers, curling tong heaters) and hand dryers; electric smoothing irons; other electrothermic appliances of a kind used for domestic purposes; electric heating resistors, other than those of heading 8545**

Products description	Codes	XUE	MUE	CODUL
Electric instantaneous or storage water heaters and immersion heaters				
- Instantaneous water heaters	CN851610.11	200.3	236.1	UL851610
- Other	CN851610.80	894.1	1041.1	UL851610
Electric space-heating apparatus and electric soil-heating apparatus				
- Storage heating radiators	CN851621.00	74.0	55.8	UL851621
- Other				
- - Liquid-filled radiators	CN851629.10	200.9	257.9	UL851629
- - Convection heaters	CN851629.50	103.7	200.2	UL851629
- - Other				
- - - With built-in fan	CN851629.91	231.0	384.3	UL851629
- - - Other	CN851629.99	410.3	588.6	UL851629
Electrothermic hairdressing or hand-drying apparatus				
- Hairdryers	CN851631.00	348.7	506.1	UL851631
- Other hairdressing apparatus	CN851632.00	440.4	807.0	UL851632
- Hand-drying apparatus	CN851633.00	23.7	24.3	UL851633
Electric smoothing irons	CN851640.00	553.7	672.2	UL851640
Microwave ovens	CN851650.00	464.2	1149.4	UL851650
Other ovens; cookers, cooking plates, boiling rings; grillers and roasters				
- Cookers (incorporating at least an oven and a hob)	CN851660.10	731.4	655.3	UL851660
- Cooking plates, boiling rings and hobs	CN851660.50	1926.9	1565.1	UL851660
- Grillers and roasters	CN851660.70	318.5	617.2	UL851660
- Ovens for building in	CN851660.80	2402.4	1864.3	UL851660
- Other	CN851660.90	504.4	709.2	UL851660
Other electrothermic appliances				
- Coffee or tea makers	CN851671.00	4089.7	4259.7	UL851671
- Toasters	CN851672.00	137.5	305.7	UL851672

- Other				
- - Deep fat fryers	CN851679.20	165.3	412.8	UL851679
- - Other	CN851679.70	1574.9	2351.2	UL851679
Electric heating resistors				
- Assembled with an insulated former	CN851680.20	352.3	328.7	UL851680
- Other	CN851680.80	1466.5	1041.5	UL851680
Parts	CN851690.00	1369.8	1831.9	UL851690

**Telephone sets, including smartphones and other 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 8443, 8525, 8527 or 8528**

Products description	Codes	XUE	MUE	CODUL
Telephone sets, including smartphones and other telephones for cellular networks or for other wireless networks				
- Line telephone sets with cordless handsets	CN851711.00	292.9	415.9	UL851711
- Smartphones	CN851713.00	N.A.	N.A.	UL851713
- Other telephones for cellular networks or for other wireless networks	CN851714.00	N.A.	N.A.	UL851714
- Other	CN851718.00	1029.9	1613.0	UL851718
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)				
- Base stations	CN851761.00	818.4	490.4	UL851761
- Machines for the reception, conversion and transmission or regeneration of voice, images or other data, including switching and routing apparatus	CN851762.00	40883.2	51894.2	UL851762
- Other				
- - Videophones	CN851769.10	641.1	754.1	UL851769
- - Entry-phone systems	CN851769.20	112.6	98.1	UL851769
- - Reception apparatus for radio-telephony or radio-telegraphy	CN851769.30	207.8	136.9	UL851769
- - Other	CN851769.90	1304.1	1314.6	UL851769
Parts				
- Aerials and aerial reflectors of all kinds; parts suitable for use therewith	CN851771.00	N.A.	N.A.	UL851771
- Other	CN851779.00	N.A.	N.A.	UL851770

**Microphones and stands therefor; loudspeakers, whether or not mounted in their enclosures; headphones and earphones, whether or not combined with a microphone, and sets consisting of a microphone and one or more loudspeakers; audio-frequency electric amplifiers; electric sound amplifier sets**

Products description	Codes	XUE	MUE	CODUL
Microphones and stands therefor	CN851810.00	774.9	843.5	UL851810
Loudspeakers, whether or not mounted in their enclosures				
- Single loudspeakers, mounted in their enclosures	CN851821.00	949.2	1181.5	UL851820
- Multiple loudspeakers, mounted in the same enclosure	CN851822.00	2014.3	2397.6	UL851820
- Other	CN851829.00	671.8	825.6	UL851820
Headphones and earphones, whether or not combined with a microphone, and sets consisting of a microphone and one or more loudspeakers	CN851830.00	5638.8	6482.1	UL851830
Audio-frequency electric amplifiers	CN851840.00	786.0	840.0	UL851840
Electric sound amplifier sets	CN851850.00	366.6	317.3	UL851850
Parts	CN851890.00	350.8	515.6	UL851890

### Sound recording or sound reproducing apparatus

Products description	Codes	XUE	MUE	CODUL
Apparatus operated by coins, banknotes, bank cards, tokens or by other means of payment				
- Coin- or disc-operated record-players	CN851920.10	0.4	1.2	UL851920
- Other				
-- With laser reading system	CN851920.91	0.7	2.3	UL851920
-- Other	CN851920.99	1.6	3.2	UL851920
Turntables (record-decks)	CN851930.00	82.8	121.4	UL851930
Other apparatus				
- Using magnetic, optical or semiconductor media	CN851981.00	372.0	600.6	UL851981
- Other	CN851989.00	646.1	765.2	UL851989

### Video recording or reproducing apparatus, whether or not incorporating a video tuner

Products description	Codes	XUE	MUE	CODUL
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Magnetic tape-type				
- Using tape of a width not exceeding 1,3 cm and allowing recording or reproduction at a tape speed not exceeding 50 mm per second	CN852110.20	3.0	4.3	UL852100
- Other	CN852110.95	11.5	7.4	UL852100
Other	CN852190.00	568.9	649.5	UL852100

### Parts and accessories suitable for use solely or principally with the apparatus of heading 8519 or 8521

Products description	Codes	XUE	MUE	CODUL
Pick-up cartridges	CN852210.00	19.4	17.1	UL852210
Other	CN852290.00	137.4	214.0	UL852290

### 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 recorded, including matrices and masters for the production of discs, but excluding products of Chapter 37

Products description	Codes	XUE	MUE	CODUL
Magnetic media				
- Cards incorporating a magnetic stripe	CN852321.00	63.5	53.7	UL852321
- Other				
- - Magnetic tapes; magnetic discs				
- - - Unrecorded	CN852329.15	183.0	362.3	UL852329
- - - Other	CN852329.19	38.3	28.2	UL852329
- - Other	CN852329.90	43.2	65.6	UL852329
Optical media				
- Unrecorded				
- - Discs for laser reading systems of a recording capacity not exceeding 900 megabytes, other than erasable	CN852341.10	39.0	54.3	UL852340
- - Discs for laser reading systems of a recording capacity exceeding 900 megabytes but not exceeding 18 gigabytes, other than erasable	CN852341.30	27.4	40.9	UL852340
- - Other	CN852341.90	33.5	57.2	UL852340
- Other				
- - Discs for laser reading systems				

- - - Digital versatile discs (DVD)	CN852349.10	1521.1	1244.5	UL852340
- - - Other	CN852349.20	2572.0	2216.3	UL852340
- - Other	CN852349.90	471.1	352.1	UL852340
Semiconductor media				
- Solid-state non-volatile storage devices				
- - Unrecorded	CN852351.10	2226.6	3898.7	UL85235A
- - Other	CN852351.90	1186.0	1155.2	UL85235A
- 'Smart cards'	CN852352.00	1347.7	1260.2	UL852352
- Other				
- - Unrecorded	CN852359.10	60.5	93.6	UL85235A
- - Other	CN852359.90	82.1	121.4	UL85235A
Other				
- Unrecorded	CN852380.10	29.1	21.4	UL852380
- Other	CN852380.90	671.1	484.1	UL852380

### Flat panel display modules, whether or not incorporating touch-sensitive screens

Products description	Codes	XUE	MUE	CODUL
Without drivers or control circuits				
- Of liquid crystals	CN852411.00	N.A.	N.A.	UL852410
- Of organic light-emitting diodes (OLED)	CN852412.00	N.A.	N.A.	UL852410
- Other	CN852419.00	N.A.	N.A.	UL852410
Other				
- Of liquid crystals	CN852491.00	N.A.	N.A.	UL852490
- Of organic light-emitting diodes (OLED)	CN852492.00	N.A.	N.A.	UL852490
- Other	CN852499.00	N.A.	N.A.	UL852490

### 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

Products description	Codes	XUE	MUE	CODUL
Transmission apparatus	CN852550.00	179.9	236.6	UL852550

Transmission apparatus incorporating reception apparatus	CN852560.00	447.7	528.3	UL852560
Television cameras, digital cameras and video camera recorders				
- High-speed goods as specified in subheading note 1 to this chapter	CN852581.00	N.A.	N.A.	UL852580
- Other, radiation-hardened or radiation-tolerant goods as specified in subheading note 2 to this chapter	CN852582.00	N.A.	N.A.	UL852580
- Other, night vision goods as specified in subheading note 3 to this chapter	CN852583.00	N.A.	N.A.	UL852580
- Other	CN852589.00	N.A.	N.A.	UL852580

### Radar apparatus, radio navigational aid apparatus and radio remote control apparatus

Products description	Codes	XUE	MUE	CODUL
Radar apparatus	CN852610.00	3014.3	1287.5	UL852610
Other				
- Radio navigational aid apparatus				
- - Radio navigational receivers	CN852691.20	1956.3	2053.9	UL852691
- - Other	CN852691.80	726.9	563.1	UL852691
- Radio remote control apparatus	CN852692.00	1275.5	947.1	UL852692

### Reception apparatus for radio-broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock

Products description	Codes	XUE	MUE	CODUL
Radio-broadcast receivers capable of operating without an external source of power				
- Pocket-size radio cassette players	CN852712.00	0.9	3.6	UL852710
- Other apparatus combined with sound recording or reproducing apparatus	CN852713.00	102.2	185.9	UL852710
- Other	CN852719.00	179.3	259.5	UL852710
Radio-broadcast receivers not capable of operating without an external source of power, of a kind used in motor vehicles				
- Combined with sound recording or reproducing apparatus				
- - Capable of receiving and decoding digital radio data system signals				
- - - With laser reading system	CN852721.20	948.0	273.1	UL852720
- - - Other				
- - - - Of the cassette-type with an analogue and digital reading system	CN852721.52	2.1	3.7	UL852720
- - - - Other	CN852721.59	407.0	396.0	UL852720
- - Other				

- - - With laser reading system	CN852721.70	55.7	8.8	UL852720
- - - Other				
- - - - Of the cassette-type with an analogue and digital reading system	CN852721.92	0.6	2.2	UL852720
- - - - Other	CN852721.98	63.5	45.1	UL852720
- Other	CN852729.00	174.4	222.0	UL852720
Other				
- Combined with sound recording or reproducing apparatus	CN852791.00	216.3	429.5	UL852790
- Not combined with sound recording or reproducing apparatus but combined with a clock	CN852792.00	50.0	88.7	UL852790
- Other	CN852799.00	47.3	78.3	UL852790

### 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

Products description	Codes	XUE	MUE	CODUL
Cathode-ray tube monitors				
- Capable of directly connecting to and designed for use with an automatic data processing machine of heading 8471	CN852842.00	44.3	66.5	UL852841
- Other	CN852849.00	14.5	28.2	UL852849
Other monitors				
- Capable of directly connecting to and designed for use with an automatic data processing machine of heading 8471				
- - Of a kind solely or principally used in an automatic data-processing system of heading 8471	CN852852.10	5058.0	8062.2	UL852851
- - Other				
- - - With a screen of the liquid crystal display (LCD) technology	CN852852.91	2549.6	3251.9	UL852851
- - - Other	CN852852.99	262.4	375.0	UL852851
- Other	CN852859.00	1617.4	967.0	UL852859
Projectors				
- Capable of directly connecting to and designed for use with an automatic data processing machine of heading 8471	CN852862.00	1053.7	1312.3	UL852861
- Other				
- - Monochrome	CN852869.20	7.3	10.7	UL852869
- - Other	CN852869.80	106.5	183.7	UL852869
Reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus				
- Not designed to incorporate a video display or screen				
- - Video tuners				



- - - Electronic assemblies for incorporation into automatic data-processing machines	CN852871.11	52.9	100.1	UL852871
- - - Apparatus with a microprocessor-based device incorporating a modem for gaining access to the Internet, and having a function of interactive information exchange, capable of receiving television signals (so-called 'set-top boxes which have a communication function', including those incorporating a device performing a recording or reproducing function, provided that they retain the essential character of a set top box which has a communication function)	CN852871.15	716.9	1455.0	UL852871
- - - Other	CN852871.19	73.3	223.7	UL852871
- - Other				
- - - Apparatus with a microprocessor-based device incorporating a modem for gaining access to the Internet, and having a function of interactive information exchange, capable of receiving television signals (so-called 'set-top boxes which have a communication function', including those incorporating a device performing a recording or reproducing function, provided that they retain the essential character of a set top box which has a communication function)	CN852871.91	614.5	1019.0	UL852871
- - - Other	CN852871.99	25.2	39.8	UL852871
- Other, colour				
- - Television projection equipment	CN852872.10	172.1	262.8	UL852872
- - Apparatus incorporating a video recorder or reproducer	CN852872.20	4309.1	4977.7	UL852872
- - Other				
- - - With integral tube	CN852872.30	19.0	32.3	UL852872
- - - With a screen of the liquid crystal display (LCD) technology	CN852872.40	9640.9	6410.8	UL852872
- - - With a screen of the plasma display panel (PDP) technology	CN852872.60	10.7	32.7	UL852872
- - - Other	CN852872.80	1596.3	2035.5	UL852872
- Other, monochrome	CN852873.00	3.5	7.1	UL852873

### Parts suitable for use solely or principally with the apparatus of headings 8524 to 8528

Products description	Codes	XUE	MUE	CODUL
Aerials and aerial reflectors of all kinds; parts suitable for use therewith				
- Aerials				
- - Telescopic and whip-type aerials for portable apparatus or for apparatus for fitting in motor vehicles	CN852910.11	200.5	245.2	UL852910
- - Outside aerials for radio or television broadcast receivers	CN852910.30	193.6	184.9	UL852910
- - Inside aerials for radio or television broadcast receivers, including built-in types	CN852910.65	50.9	67.5	UL852910
- - Other	CN852910.69	423.6	413.3	UL852910
- Aerial filters and separators	CN852910.80	97.2	80.0	UL852910
- Other	CN852910.95	296.7	311.2	UL852910

Other				
- Organic light-emitting diode modules and organic light-emitting diode panels for the apparatus of subheadings 852872 or 852873	CN852990.15	4.3	12.2	UL852990
- Other				
- - Of articles of subheadings 85241100 and 85249100	CN852990.18	N.A.	N.A.	UL852990
- - Of digital cameras falling within subheadings 85258100, 85258200, 85258300 and 85258900; Of apparatus of subheadings 85256000, 85284200, 85285210 and 85286200	CN852990.20	323.2	480.1	UL852990
- - Other				
- - - Cabinets and cases	CN852990.40	N.A.	N.A.	UL852990
- - - Electronic assemblies	CN852990.65	465.6	748.5	UL852990
- - - Other				
- - - - Light-emitting diode (LED) backlight modules, which are lighting sources that consist of one or more LEDs, and one or more connectors and are mounted on a printed circuit or other similar substrate, and other passive components, whether or not combined with optical components or protective diodes, and used as backlight illumination for liquid crystal displays (LCDs)	CN852990.91	41.4	215.2	UL852990
- - - - Other				
- - - - - For television cameras falling within subheadings 852581, 852582, 852583 and 852589 and apparatus of headings 8527 and 8528	CN852990.92	4310.7	12542.8	UL852990
- - - - - Other	CN852990.97	1586.4	1011.8	UL852990

### Electrical signalling, safety or traffic control equipment for railways, tramways, roads, inland waterways, parking facilities, port installations or airfields (other than those of heading 8608)

Products description	Codes	XUE	MUE	CODUL
Equipment for railways or tramways	CN853010.00	346.8	122.4	UL853010
Other equipment	CN853080.00	511.1	254.7	UL853080
Parts	CN853090.00	391.8	234.7	UL853090

### Electric sound or visual signalling apparatus (for example, bells, sirens, indicator panels, burglar or fire alarms), other than those of heading 8512 or 8530

Products description	Codes	XUE	MUE	CODUL
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Burglar or fire alarms and similar apparatus				
- Of a kind used for buildings	CN853110.30	1247.5	1366.5	UL853110
- Other	CN853110.95	286.5	335.6	UL853110
Indicator panels incorporating liquid crystal devices (LCD) or light-emitting diodes (LED)				
- Incorporating light-emitting diodes (LED)	CN853120.20	359.2	470.5	UL853120
- Incorporating liquid crystal devices (LCD)				
- - Incorporating active matrix liquid crystal devices (LCD)	CN853120.40	346.5	582.8	UL853120
- - Other	CN853120.95	305.8	737.4	UL853120
Other apparatus				
- Bells, buzzers, door chimes and similar	CN853180.40	87.7	116.7	UL853180
- Other	CN853180.70	727.7	1056.5	UL853180
Parts	CN853190.00	996.2	903.5	UL853190

### Electrical capacitors, fixed, variable or adjustable (pre-set)

Products description	Codes	XUE	MUE	CODUL
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)	CN853210.00	195.0	135.3	UL853210
Other fixed capacitors				
- Tantalum	CN853221.00	276.3	311.4	UL853221
- Aluminium electrolytic	CN853222.00	835.7	1108.1	UL853222
- Ceramic dielectric, single layer	CN853223.00	51.4	102.9	UL853223
- Ceramic dielectric, multilayer	CN853224.00	1649.2	2856.4	UL853224
- Dielectric of paper or plastics	CN853225.00	613.2	549.8	UL853225
- Other	CN853229.00	192.4	284.5	UL853229
Variable or adjustable (pre-set) capacitors	CN853230.00	8.7	31.3	UL853230
Parts	CN853290.00	111.5	132.4	UL853290

### Electrical resistors (including rheostats and potentiometers), other than heating resistors

Products description	Codes	XUE	MUE	CODUL
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Fixed carbon resistors, composition or film types	CN853310.00	45.4	97.5	UL853310
Other fixed resistors				
- For a power handling capacity not exceeding 20 W	CN853321.00	1382.0	1687.7	UL853321
- Other	CN853329.00	435.4	432.1	UL853329
Wirewound variable resistors, including rheostats and potentiometers				
- For a power handling capacity not exceeding 20 W	CN853331.00	27.9	28.3	UL853330
- Other	CN853339.00	24.0	29.9	UL853330
Other variable resistors, including rheostats and potentiometers				
- For a power handling capacity not exceeding 20 W	CN853340.10	427.6	367.6	UL853340
- Other	CN853340.90	304.7	305.3	UL853340
Parts	CN853390.00	129.4	58.5	UL853390

## Printed circuits

Products description	Codes	XUE	MUE	CODUL
Consisting only of conductor elements and contacts				
- Multilayer circuits	CN853400.11	1363.2	3788.6	UL853400
- Other	CN853400.19	982.9	1783.1	UL853400
With other passive elements	CN853400.90	1116.9	1998.3	UL853400

**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 1000 V**

Products description	Codes	XUE	MUE	CODUL
Fuses	CN853510.00	93.6	59.5	UL853510
Automatic circuit breakers				
- For a voltage of less than 72,5 kV	CN853521.00	235.3	171.9	UL853521
- Other	CN853529.00	260.9	94.7	UL853529
Isolating switches and make-and-break switches				
- For a voltage of less than 72,5 kV	CN853530.10	314.5	254.4	UL853530
- Other	CN853530.90	254.9	161.5	UL853530

Lightning arresters, voltage limiters and surge suppressors	CN853540.00	193.3	137.7	UL853540
Other	CN853590.00	1358.5	805.3	UL853590

**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 and other connectors, junction boxes), for a voltage not exceeding 1000 V; connectors for optical fibres, optical fibre bundles or cables**

Products description	Codes	XUE	MUE	CODUL
Fuses				
- For a current not exceeding 10 A	CN853610.10	303.3	301.3	UL853610
- For a current exceeding 10 A but not exceeding 63 A	CN853610.50	179.7	237.5	UL853610
- For a current exceeding 63 A	CN853610.90	192.8	240.4	UL853610
Automatic circuit breakers				
- For a current not exceeding 63 A	CN853620.10	2380.5	1885.3	UL853620
- For a current exceeding 63 A	CN853620.90	1399.1	831.4	UL853620
Other apparatus for protecting electrical circuits				
- For a current not exceeding 16 A	CN853630.10	725.0	589.6	UL853630
- For a current exceeding 16 A but not exceeding 125 A	CN853630.30	693.1	584.8	UL853630
- For a current exceeding 125 A	CN853630.90	549.4	406.9	UL853630
Relays				
- For a voltage not exceeding 60 V				
- - For a current not exceeding 2 A	CN853641.10	199.5	227.5	UL853641
- - For a current exceeding 2 A	CN853641.90	1233.9	1014.0	UL853641
- Other	CN853649.00	2298.0	1835.3	UL853649
Other switches				
- Electronic AC switches consisting of optically coupled input and output circuits (insulated thyristor AC switches)	CN853650.03	51.3	41.3	UL853650
- Electronic switches, including temperature protected electronic switches, consisting of a transistor and a logic chip (chip-on-chip technology)	CN853650.05	130.8	109.6	UL853650
- Electromechanical snap-action switches for a current not exceeding 11 A	CN853650.07	238.6	250.6	UL853650
- Other				
- - For a voltage not exceeding 60 V				
- - - Push-button switches	CN853650.11	869.7	827.3	UL853650

- - - Rotary switches	CN853650.15	136.2	193.5	UL853650
- - - Other	CN853650.19	2428.4	2040.1	UL853650
- - Other	CN853650.80	3615.3	3464.6	UL853650
Lamp holders, plugs and sockets				
- Lamp holders				
- - Edison lamp holders	CN853661.10	27.1	29.3	UL853661
- - Other	CN853661.90	80.8	76.4	UL853661
- Other				
- - For coaxial cables	CN853669.10	522.6	395.2	UL853669
- - For printed circuits	CN853669.30	1450.2	1655.5	UL853669
- - Other	CN853669.90	6910.4	5816.1	UL853669
Connectors for optical fibres, optical fibre bundles or cables	CN853670.00	274.3	446.7	UL853670
Other apparatus				
- Prefabricated elements for electrical circuits	CN853690.01	728.9	454.2	UL853690
- Connections and contact elements for wire and cables	CN853690.10	5673.3	4718.3	UL853690
- Battery clamps of a kind used for motor vehicles of heading 8702, 8703, 8704, or 8711	CN853690.40	48.1	150.8	UL853690
- Other	CN853690.95	2660.7	2505.6	UL853690

**Boards, panels, consoles, desks, cabinets and other bases, equipped with two or more apparatus of heading 8535 or 8536, 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 8517**

Products description	Codes	XUE	MUE	CODUL
For a voltage not exceeding 1000 V				
- Numerical control panels with built-in automatic data-processing machine	CN853710.10	1598.0	1044.6	UL853710
- Other				
- - Programmable memory controllers	CN853710.91	7897.9	6657.6	UL853710
- - Touch-Sensitive Data Input Devices (so-called touch screens) without display capabilities, for incorporation into apparatus having a display, which function by detecting the presence and location of a touch within the display area	CN853710.95	157.1	287.5	UL853710
- - Other	CN853710.98	16052.5	11100.8	UL853710
For a voltage exceeding 1000 V				
- For a voltage exceeding 1000 V but not exceeding 72,5 kV	CN853720.91	1818.6	819.9	UL853720
- For a voltage exceeding 72,5 kV	CN853720.99	580.1	164.2	UL853720

### Parts suitable for use solely or principally with the apparatus of heading 8535, 8536 or 8537

Products description	Codes	XUE	MUE	CODUL
Boards, panels, consoles, desks, cabinets and other bases for the goods of heading 8537, not equipped with their apparatus	CN853810.00	2331.1	1705.6	UL853810
Other				
- For wafer probers				
- - Electronic assemblies	CN853890.11	140.4	104.3	UL853890
- - Other	CN853890.19	166.9	129.3	UL853890
- Other				
- - Electronic assemblies	CN853890.91	3526.5	2349.1	UL853890
- - Other	CN853890.99	8259.2	7362.1	UL853890

### Electric filament or discharge lamps, including sealed beam lamp units and ultraviolet or infra-red lamps; arc-lamps; light-emitting diode (LED) light sources

Products description	Codes	XUE	MUE	CODUL
Sealed beam lamp units	CN853910.00	209.6	150.2	UL853910
Other filament lamps, excluding ultraviolet or infra-red lamps				
- Tungsten halogen				
- - Of a kind used for motorcycles or other motor vehicles	CN853921.30	437.6	321.8	UL853921
- - Other, for a voltage				
- - - Exceeding 100 V	CN853921.92	105.8	78.5	UL853921
- - - Not exceeding 100 V	CN853921.98	93.6	89.7	UL853921
- Other, of a power not exceeding 200 W and for a voltage exceeding 100 V				
- - Reflector lamps	CN853922.10	7.8	4.4	UL853922
- - Other	CN853922.90	56.9	51.7	UL853922
- Other				
- - Of a kind used for motorcycles or other motor vehicles	CN853929.30	207.5	220.5	UL853929
- - Other, for a voltage				
- - - Exceeding 100 V	CN853929.92	8.2	9.8	UL853929
- - - Not exceeding 100 V	CN853929.98	28.9	27.5	UL853929
Discharge lamps, other than ultraviolet lamps				

- Fluorescent, hot cathode				
- - With double ended cap	CN853931.10	161.9	115.2	UL853931
- - Other	CN853931.90	77.8	70.9	UL853931
- Mercury or sodium vapour lamps; metal halide lamps				
- - Mercury or sodium vapour lamps	CN853932.20	125.3	87.3	UL853932
- - Metal halide lamps	CN853932.90	158.7	120.7	UL853932
- Other				
- - Cold-cathode fluorescent lamps (CCFLs) for backlighting of flat panel displays	CN853939.20	5.9	3.2	UL853939
- - Other	CN853939.80	59.2	44.9	UL853939
Ultraviolet or infra-red lamps; arc lamps				
- Arc lamps	CN853941.00	246.1	119.1	UL853941
- Other	CN853949.00	379.1	236.5	UL853949
Light-emitting diode (LED) light sources				
- Light-emitting diode (LED) modules	CN853951.00	N.A.	N.A.	UL853950
- Light-emitting diode (LED) lamps	CN853952.00	N.A.	N.A.	UL853950
Parts				
- Lamp bases	CN853990.10	37.8	49.7	UL853990
- Other	CN853990.90	177.6	145.6	UL853990

**Thermionic, cold cathode or photocathode 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)**

Products description	Codes	XUE	MUE	CODUL
Cathode ray television picture tubes, including video monitor cathode ray tubes				
- Colour	CN854011.00	0.5	11.8	UL8540A0
- Monochrome	CN854012.00	0.2	3.1	UL8540A0
Television camera tubes; image converters and intensifiers; other photocathode tubes				
- Television camera tubes	CN854020.10	0.3	1.7	UL8540A0
- Other	CN854020.80	195.2	130.8	UL8540A0
Data/graphic display tubes, monochrome; data/graphic display tubes, colour, with a phosphor dot screen pitch smaller than 0,4 mm	CN854040.00	1.0	2.4	UL8540A0
Other cathode ray tubes	CN854060.00	1.9	1.8	UL8540A0
Microwave tubes (for example, magnetrons, klystrons, travelling-wave tubes, carcinotrons), excluding grid-controlled tubes				



- Magnetrons	CN854071.00	74.7	93.6	UL8540B0
- Other	CN854079.00	120.3	42.1	UL8540B0
Other valves and tubes				
- Receiver or amplifier valves and tubes	CN854081.00	57.7	20.1	UL8540B0
- Other	CN854089.00	64.0	54.9	UL8540B0
Parts				
- Of cathode ray tubes	CN854091.00	18.7	21.0	UL854091
- Other	CN854099.00	41.9	47.6	UL854099

**Semiconductor devices (for example, diodes, transistors, semiconductor-based transducers); photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light-emitting diodes (LED), whether or not assembled with other light-emitting diodes (LED); mounted piezo-electric crystals**

Products description	Codes	XUE	MUE	CODUL
Diodes, other than photosensitive or light-emitting diodes (LED)	CN854110.00	2082.8	2329.9	UL854110
Transistors, other than photosensitive transistors				
- With a dissipation rate of less than 1 W	CN854121.00	508.3	645.9	UL854120
- Other	CN854129.00	3704.7	3808.4	UL854120
Thyristors, diacs and triacs, other than photosensitive devices	CN854130.00	460.5	348.9	UL854130
Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light-emitting diodes (LED)				
- Light-emitting diodes (LED)	CN854141.00	N.A.	N.A.	UL854141
- Photovoltaic cells not assembled in modules or made up into panels	CN854142.00	N.A.	N.A.	UL854142
- Photovoltaic cells assembled in modules or made up into panels	CN854143.00	N.A.	N.A.	UL854143
- Other	CN854149.00	N.A.	N.A.	UL854150
Other semiconductor devices				
- Semiconductor-based transducers	CN854151.00	N.A.	N.A.	UL854150
- Other	CN854159.00	N.A.	N.A.	UL854150
Mounted piezo-electric crystals	CN854160.00	701.2	676.9	UL854160
Parts	CN854190.00	252.6	362.2	UL854190

**Electronic integrated circuits**

Products description	Codes	XUE	MUE	CODUL
Electronic integrated circuits				
- Processors and controllers, whether or not combined with memories, converters, logic circuits, amplifiers, clock and timing circuits, or other circuits				
- - Goods specified in note 12(b)(3 and 4) to this chapter				
- - - Multi-component integrated circuits (MCOs)	CN854231.11	902.1	1130.5	UL854231
- - - Other	CN854231.19	562.4	1117.5	UL854231
- - Other	CN854231.90	30110.0	29382.0	UL854231
- Memories				
- - Goods specified in note 12(b)(3 and 4) to this chapter				
- - - Multi-component integrated circuits (MCOs)	CN854232.11	27.9	64.5	UL854232
- - - Other	CN854232.19	157.3	225.3	UL854232
- - Other				
- - - Dynamic random-access memories (D-RAMs)				
- - - - With a storage capacity not exceeding 512 Mbits	CN854232.31	111.2	147.7	UL854232
- - - - With a storage capacity exceeding 512 Mbits	CN854232.39	1089.5	1628.9	UL854232
- - - Static random-access memories (S-RAMs), including cache random-access memories (cache-RAMs)	CN854232.45	94.6	250.8	UL854232
- - - UV erasable, programmable, read only memories (EPROMs)	CN854232.55	12.8	33.7	UL854232
- - - Electrically erasable, programmable, read only memories ( $E^2$ PROMs), including flash $E^2$ PROMs				
- - - - Flash $E^2$ PROMs				
- - - - - With a storage capacity not exceeding 512 Mbits	CN854232.61	254.1	426.1	UL854232
- - - - - With a storage capacity exceeding 512 Mbits	CN854232.69	314.2	544.3	UL854232
- - - - - Other	CN854232.75	270.4	238.8	UL854232
- - - Other memories	CN854232.90	276.6	903.8	UL854232
- Amplifiers				
- - Multi-component integrated circuits (MCOs)	CN854233.10	93.1	131.6	UL854233
- - Other	CN854233.90	1028.5	1430.7	UL854233
- Other				
- - Goods specified in note 12(b)(3 and 4) to this chapter				
- - - Multi-component integrated circuits (MCOs)	CN854239.11	948.5	1197.4	UL854239
- - - Other	CN854239.19	348.6	432.6	UL854239
- - Other	CN854239.90	13980.2	19371.9	UL854239

Parts	CN854290.00	473.2	620.7	UL854290
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### Electrical machines and apparatus, having individual functions, not specified or included elsewhere in this chapter

Products description	Codes	XUE	MUE	CODUL
Particle accelerators	CN854310.00	106.5	33.5	UL854310
Signal generators	CN854320.00	413.0	237.9	UL854320
Machines and apparatus for electroplating, electrolysis or electrophoresis				
- Electroplating and electrolysis machines of a kind used solely or principally for the manufacture of printed circuits	CN854330.40	30.5	12.3	UL854330
- Other	CN854330.70	223.4	123.1	UL854330
Electronic cigarettes and similar personal electric vaporizing devices	CN854340.00	N.A.	N.A.	UL854340
Other machines and apparatus				
- Articles specifically designed for connection to telegraphic or telephonic apparatus or instruments or to telegraphic or telephonic networks	CN854370.01	54.0	26.8	UL854370
- Microwave amplifiers	CN854370.02	179.0	34.7	UL854370
- Cordless infrared remote control devices for video game consoles	CN854370.03	7.6	14.4	UL854370
- Digital flight-data recorders	CN854370.04	20.3	34.7	UL854370
- Portable battery operated electronic readers for recording and reproducing text, still image or audio file	CN854370.05	164.5	311.6	UL854370
- Digital signal processing apparatus capable of connecting to a wired or wireless network for the mixing of sound	CN854370.06	116.0	143.5	UL854370
- Portable interactive electronic education devices primarily designed for children	CN854370.07	5.6	8.3	UL854370
- Plasma cleaner machines that remove organic contaminants from electron microscopy specimens and specimen holders	CN854370.08	2.3	13.2	UL854370
- Touch-Sensitive Data Input Devices (so-called touch screens) without display capabilities, for incorporation into apparatus having a display, which function by detecting the presence and location of a touch within the display area	CN854370.09	102.3	203.7	UL854370
- Electrical machines with translation or dictionary functions	CN854370.10	21.2	17.4	UL854370
- Aerial amplifiers	CN854370.30	189.7	241.2	UL854370
- Sunbeds, sunlamps and similar suntanning equipment	CN854370.50	64.1	17.6	UL854370
- Electric fence energisers	CN854370.60	42.4	34.1	UL854370
- Other	CN854370.90	6289.8	6191.0	UL854370
Parts	CN854390.00	1357.1	1293.6	UL854390

**Insulated (including enamelled or anodised) wire, cable (including coaxial 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**

Products description	Codes	XUE	MUE	CODUL
Winding wire				
- Of copper				
- - Lacquered or enamelled	CN854411.10	1808.0	1402.7	UL854411
- - Other	CN854411.90	696.1	677.6	UL854411
- Other	CN854419.00	162.3	221.3	UL854419
Coaxial cable and other coaxial electric conductors	CN854420.00	1510.6	1172.2	UL854420
Ignition wiring sets and other wiring sets of a kind used in vehicles, aircraft or ships	CN854430.00	9155.3	14568.3	UL854430
Other electric conductors, for a voltage not exceeding 1000 V				
- Fitted with connectors				
- - Of a kind used for telecommunications	CN854442.10	651.8	845.9	UL854442
- - Other	CN854442.90	7961.3	8933.6	UL854442
- Other				
- - Of a kind used for telecommunications, for a voltage not exceeding 80 V	CN854449.20	970.8	1005.3	UL854449
- - Other				
- - - Wire and cables, with individual conductor wires of a diameter exceeding 0,51 mm	CN854449.91	2133.8	2106.7	UL854449
- - - Other				
- - - - For a voltage not exceeding 80 V	CN854449.93	1934.6	1268.5	UL854449
- - - - For a voltage exceeding 80 V but less than 1000 V	CN854449.95	6476.9	5504.4	UL854449
- - - - For a voltage of 1000 V	CN854449.99	1150.7	811.9	UL854449
Other electric conductors, for a voltage exceeding 1000 V				
- With copper conductors	CN854460.10	1928.3	981.0	UL854460
- With other conductors	CN854460.90	916.3	817.0	UL854460
Optical fibre cables	CN854470.00	1948.2	1876.2	UL854470

**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**

Products description	Codes	XUE	MUE	CODUL
Electrodes				
- Of a kind used for furnaces	CN854511.00	1154.7	772.2	UL854511
- Other	CN854519.00	423.5	177.9	UL854519
Brushes	CN854520.00	303.2	208.8	UL854520
Other				
- Heating resistors	CN854590.10	14.3	18.5	UL854590
- Other	CN854590.90	84.7	98.6	UL854590

### Electrical insulators of any material

Products description	Codes	XUE	MUE	CODUL
Of glass	CN854610.00	59.1	47.8	UL854610
Of ceramics	CN854620.00	165.4	135.4	UL854A00
Other				
- Of plastics	CN854690.10	278.5	209.0	UL854690
- Other	CN854690.90	198.4	148.2	UL854690

**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 heading 8546; electrical conduit tubing and joints therefor, of base metal lined with insulating material**

Products description	Codes	XUE	MUE	CODUL
Insulating fittings of ceramics	CN854710.00	167.0	123.6	UL854A00
Insulating fittings of plastics	CN854720.00	2724.4	1828.0	UL854720
Other	CN854790.00	191.2	191.9	UL854790

### Electrical parts of machinery or apparatus, not specified or included elsewhere in this chapter

Products description	Codes	XUE	MUE	CODUL
Memories in multicombinational forms such as stack D-RAMs and modules	CN854800.20	N.A.	N.A.	UL854890

Light-emitting diode (LED) backlight modules, which are lighting sources that consist of one or more LEDs, and one or more connectors and are mounted on a printed circuit or other similar substrate, and other passive components, whether or not combined with optical components or protective diodes, and used as backlight illumination for liquid crystal displays (LCDs)	CN854800.30	N.A.	N.A.	UL854890
Other	CN854800.90	N.A.	N.A.	UL854890

### Electrical and electronic waste and scrap

Products description	Codes	XUE	MUE	CODUL
Waste and scrap of primary cells, primary batteries and electric accumulators; spent primary cells, spent primary batteries and spent electric accumulators				
- Waste and scrap of lead-acid accumulators; spent lead-acid accumulators				
- - Spent lead-acid accumulators	CN854911.10	N.A.	N.A.	UL854900
- - Waste and scrap of lead-acid accumulators	CN854911.90	N.A.	N.A.	UL854900
- Other, containing lead, cadmium or mercury				
- - Spent primary cells, spent primary batteries	CN854912.10	N.A.	N.A.	UL854900
- - Spent electric accumulators	CN854912.20	N.A.	N.A.	UL854900
- - Other	CN854912.90	N.A.	N.A.	UL854900
- Sorted by chemical type and not containing lead, cadmium or mercury				
- - Spent primary cells, spent primary batteries	CN854913.10	N.A.	N.A.	UL854900
- - Spent electric accumulators	CN854913.20	N.A.	N.A.	UL854900
- - Other	CN854913.90	N.A.	N.A.	UL854900
- Unsorted and not containing lead, cadmium or mercury				
- - Spent primary cells, spent primary batteries	CN854914.10	N.A.	N.A.	UL854900
- - Spent electric accumulators	CN854914.20	N.A.	N.A.	UL854900
- - Other	CN854914.90	N.A.	N.A.	UL854900
- Other				
- - Spent primary cells, spent primary batteries	CN854919.10	N.A.	N.A.	UL854900
- - Spent electric accumulators	CN854919.20	N.A.	N.A.	UL854900
- - Other	CN854919.90	N.A.	N.A.	UL854900
Of a kind used principally for the recovery of precious metal				

- Containing primary cells, primary batteries, electric accumulators, mercury-switches, glass from cathode-ray tubes or other activated glass, or electrical or electronic components containing cadmium, mercury, lead or polychlorinated biphenyls (PCBs)	CN854921.00	N.A.	N.A.	UL854900
- Other	CN854929.00	N.A.	N.A.	UL854900
Other electrical and electronic assemblies and printed circuit boards				
- Containing primary cells, primary batteries, electric accumulators, mercury-switches, glass from cathode-ray tubes or other activated glass, or electrical or electronic components containing cadmium, mercury, lead or polychlorinated biphenyls (PCBs)	CN854931.00	N.A.	N.A.	UL854900
- Other	CN854939.00	N.A.	N.A.	UL854900
Other				
- Containing primary cells, primary batteries, electric accumulators, mercury-switches, glass from cathode-ray tubes or other activated glass, or electrical or electronic components containing cadmium, mercury, lead or polychlorinated biphenyls (PCBs)	CN854991.00	N.A.	N.A.	UL854900
- Other	CN854999.00	N.A.	N.A.	UL854900