

## 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**

### CHAPTER 84

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

##### **Primary Rule: Parts and accessories produced from blanks:**

1. The country of origin of goods that are produced from blanks which by application of the HS General Interpretative Rule 2(a), are classified in the same heading, subheading or subdivision as the complete or finished goods, shall be the country in which the blank was finished provided finishing included configuring to final shape by the removal of material (other than merely by honing or polishing or both), or by forming processes such as bending, hammering, pressing or stamping.
2. Paragraph 1 above applies to goods classifiable in provisions for parts or parts and accessories, including goods specifically named under such provisions.

##### **Definition of ‘Assembly of semi-conductor products’**

‘Assembly of semi-conductor products’ means a change from chips, dice or other semi-conductor products to chips, dice or other semi-conductor products that are packaged or mounted onto a common medium for connection or connected and then mounted. The assembly of semi-conductor products shall not be considered as a minimal operation.

##### **Chapter Notes**

###### **Note 1: Collection of parts:**

Where a change in classification results from the application of HS General Interpretative Rule 2(a) with respect to collections of parts that are presented as unassembled articles of another heading or subheading the individual parts shall retain their origin prior to such collection

###### **Note 2: Assembly of the collection of parts:**

Goods assembled from a collection of parts classified as the assembled good by application of General Interpretative Rule 2 shall have origin in the country of assembly, provided the assembly would have satisfied the primary rule for the good had each of the parts been presented separately and not as a collection

###### **Note 3: Disassembly of goods:**

A change of classification which results from the disassembly of goods shall not be considered as the change required by the rule set forth in the table of "list rules". The country of origin of the parts recovered from the goods shall be the country where the parts are recovered, unless the importer, exporter or any person with a justifiable cause to determine the origin of parts demonstrates another country of origin on the basis of verifiable evidence.

**Chapter residual rule:**

Where the country of origin cannot be determined by application of the primary rules, the country of origin of the goods shall be the country in which the major portion of the materials originated, as determined on the basis of the value of the materials.

HS 2022 Code	Description of goods	Primary rules
<b>8401</b>	<b>Nuclear reactors; fuel elements (cartridges), non-irradiated, for nuclear reactors; machinery and apparatus for isotopic separation.</b>	CTH; or 45% value added rule
<b>8402</b>	<b>Steam or other vapour generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers.</b>	CTH; or 45% value added rule
<b>8403</b>	<b>Central heating boilers other than those of heading 8402.</b>	CTH; or 45% value added rule
<b>8404</b>	<b>Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economisers, super-heaters, soot removers, gas recoverers); condensers for steam or other vapour power units.</b>	CTH; or 45% value added rule
<b>8405</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8406</b>	<b>Steam turbines and other vapour turbines.</b>	CTH; or 45% value added rule
<b>8407</b>	<b>Spark-ignition reciprocating or rotary internal combustion piston engines.</b>	CTH, except from heading 84.09; or 45% value added rule
<b>8408</b>	<b>Compression-ignition internal combustion piston engines (diesel or semi-diesel engines).</b>	CTH, except from heading 84.09; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8409</b>	<b>Parts suitable for use solely or principally with the engines of heading 8407 or 8408.</b>	CTH
<b>8410</b>	<b>Hydraulic turbines, water wheels, and regulators therefore.</b>	CTH; or 45% value added rule
<b>8411</b>	<b>Turbo-jets, turbo-propellers and other gas turbines.</b>	CTH; or 45% value added rule
<b>8412</b>	<b>Other engines and motors.</b>	CTH; or 45% value added rule
<b>8413</b>	<b>Pumps for liquids, whether or not fitted with a measuring device; liquid elevators.</b>	CTH; or 45% value added rule
<b>8414</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8415</b>	<b>Air conditioning machines, comprising a motor-driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be separately regulated.</b>	CTH; or 45% value added rule
<b>8416</b>	<b>Furnace burners for liquid fuel, for pulverised solid fuel or for gas; mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances.</b>	CTH; or 45% value added rule
<b>8417</b>	<b>Industrial or laboratory furnaces and ovens, including incinerators, non-electric.</b>	CTH; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8418</b>	<b>Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps other than air conditioning machines of heading 8415.</b>	CTH; or 45% value added rule
<b>8419</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8420</b>	<b>Calendering or other rolling machines, other than for metals or glass, and cylinders therefor.</b>	CTH; or 45% value added rule
<b>8421</b>	<b>Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases.</b>	CTH; or 45% value added rule
<b>8422</b>	<b>Dish washing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages.</b>	CTH; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
8423	<b>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.</b>	CTH; or 45% value added rule
8424	<b>Mechanical appliances (whether or not hand-operated) for projecting, dispersing or spraying liquids or powders; fire extinguishers, whether or not charged; spray guns and similar appliances; steam or sand blasting machines and similar jet projecting machines.</b>	CTH; or 45% value added rule
8425	<b>Pulley tackle and hoists other than skip hoists; winches and capstans; jacks.</b>	CTH, except from heading 84.31; or 45% value added rule
8426	<b>Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane.</b>	CTH, except from heading 84.31; or 45% value added rule
8427	<b>Fork-lift trucks; other works trucks fitted with lifting or handling equipment.</b>	CTH, except from heading 84.31; or 45% value added rule
8428	<b>Other lifting, handling, loading or unloading machinery (for example, lifts, escalators, conveyors, teleferics).</b>	CTH, except from heading 84.31; or 45% value added rule
8429	<b>Self-propelled bulldozers, angledozers, graders, levellers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers.</b>	CTH, except from heading 84.31; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8430</b>	<b>Other moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or ores; pile-drivers and pile-extractors; snow-ploughs and snow-blowers.</b>	CTH, except from heading 84.31; or 45% value added rule
<b>8431</b>	<b>Parts suitable for use solely or principally with the machinery of headings 8425 to 8430.</b>	CTH
<b>8432</b>	<b>Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers.</b>	CTH; or 45% value added rule
<b>8433</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8434</b>	<b>Milking machines and dairy machinery.</b>	CTH; or 45% value added rule
<b>8435</b>	<b>Presses, crushers and similar machinery used in the manufacture of wine, cider, fruit juices or similar beverages.</b>	CTH; or 45% value added rule
<b>8436</b>	<b>Other agricultural, horticultural, forestry, poultry-keeping or bee-keeping machinery, including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders.</b>	CTH; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8437</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8438</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8439</b>	<b>Machinery for making pulp of fibrous cellulosic material or for making or finishing paper or paperboard.</b>	CTH; or 45% value added rule
<b>8440</b>	<b>Book-binding machinery, including book-sewing machines.</b>	CTH; or 45% value added rule
<b>8441</b>	<b>Other machinery for making up paper pulp, paper or paperboard, including cutting machines of all kinds.</b>	CTH; or 45% value added rule
<b>8442</b>	<b>Machinery, apparatus and equipment (other than the machine-tools of headings 8456 to 8465), for type-founding or type-setting, for preparing or making printing blocks, plates, cylinders or other printing components; printing type, blocks, plates, cylinders and other printing components; blocks, plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished).</b>	CTH; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8443</b>	<b>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.</b>	<b>As specified for splitheadings</b>
<b>ex8443 (a)</b>	<b>- Photocopying apparatus incorporating an optical system or of the contact type</b>	CTH
<b>ex8443 (b)</b>	- Other	CTH; or 45% value added rule
<b>8444</b>	<b>Machines for extruding, drawing, texturing or cutting man-made textile materials.</b>	CTH, except from heading 8448; or 45% value added rule
<b>8445</b>	<b>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.</b>	CTH, except from heading 8448; or 45% value added rule
<b>8446</b>	<b>Weaving machines (looms).</b>	CTH, except from heading 8448; or 45% value added rule
<b>8447</b>	<b>Knitting machines, stitch-bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting.</b>	CTH, except from heading 8448; or 45% value added rule



HS 2022 Code	Description of goods	Primary rules
<b>8448</b>	<b>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).</b>	CTH; or 45% value added rule
<b>8449</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8450</b>	<b>Household or laundry-type washing machines, including machines which both wash and dry.</b>	CTH; or 45% value added rule
<b>8451</b>	<b>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.</b>	CTH; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
8452	<b>Sewing machines, other than book-sewing machines of heading 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles.</b>	CTH; or 45% value added rule
8453	<b>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.</b>	CTH; or 45% value added rule
8454	<b>Converters, ladles, ingot moulds and casting machines, of a kind used in metallurgy or in metal foundries.</b>	CTH; or 45% value added rule
8455	<b>Metal-rolling mills and rolls therefor.</b>	CTH; or 45% value added rule
8456	<b>Machine-tools for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electro-discharge, electro-chemical, electron beam, ionic-beam or plasma arc processes; water-jet cutting machines.</b>	CTH, except from heading 8466; or 45% value added rule
8457	<b>Machining centres, unit construction machines (single station) and multi-station transfer machines, for working metal.</b>	CTH, except from heading 8466; or 45% value added rule
8458	<b>Lathes (including turning centres) for removing metal.</b>	CTH, except from heading 8466; or 45% value added rule
8459	<b>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.</b>	CTH, except from heading 8466; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8460</b>	<b>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.</b>	CTH, except from heading 8466; or 45% value added rule
<b>8461</b>	<b>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.</b>	CTH, except from heading 8466; or 45% value added rule
<b>8462</b>	<b>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.</b>	CTH, except from heading 8466; or 45% value added rule
<b>8463</b>	<b>Other machine-tools for working metal or cermets, without removing material.</b>	CTH, except from heading 8466; or 45% value added rule
<b>8464</b>	<b>Machine-tools for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass.</b>	CTH, except from heading 8466; or 45% value added rule
<b>8465</b>	<b>Machine-tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials.</b>	CTH, except from heading 8466; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8466</b>	<b>Parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine-tools; tool holders for any type of tool for working in the hand.</b>	CTH
<b>8467</b>	<b>Tools for working in the hand, pneumatic, hydraulic or with self-contained non-electric motor.</b>	CTH; or 45% value added rule
<b>8468</b>	<b>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.</b>	CTH; or 45% value added rule
<b>[8469]</b>		
<b>8470</b>	<b>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.</b>	45% value added rule
<b>8471</b>	<b>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.</b>	45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8472</b>	<b>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).</b>	45% value added rule
<b>8473</b>	<b>Parts and accessories (other than covers, carrying cases and the like) suitable for use solely or principally with machines of headings 8470 to 8472.</b>	<b>As specified for split headings</b>
<b>ex 8473 (a)</b>	<b>Memory Modules</b>	CTH or Assembly of semi-conductor products
<b>ex 8473(b)</b>	<b>-- Other</b>	45% value added rule
<b>8474</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8475</b>	<b>Machines for assembling electric or electronic lamps, tubes or valves or flashbulbs, in glass envelopes; machines for manufacturing or hot working glass or glassware.</b>	CTH; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8476</b>	<b>Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines.</b>	CTH; or 45% value added rule
<b>8477</b>	<b>Machinery for working rubber or plastics or for the manufacture of products from these materials, not specified or included elsewhere in this chapter.</b>	CTH; or 45% value added rule
<b>8478</b>	<b>Machinery for preparing or making up tobacco, not specified or included elsewhere in this chapter.</b>	CTH; or 45% value added rule
<b>8479</b>	<b>Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter.</b>	CTH; or 45% value added rule
<b>8480</b>	<b>Moulding boxes for metal foundry; mould bases; moulding patterns; moulds for metal (other than ingot moulds), metal carbides, glass, mineral materials, rubber or plastics.</b>	CTH
<b>8481</b>	<b>Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves.</b>	CTH; or 45% value added rule
<b>8482</b>	<b>Ball or roller bearings</b>	<b>As specified for subheadings</b>
<b>ex 8482 (a)</b>	<b>Ball, roller or needle roller bearings, assembled</b>	Assembly preceded by heat treatment, grinding and polishing of the inner and outer rings

HS 2022 Code	Description of goods	Primary rules
<b>ex 8482 (b)</b>	<b>- Parts</b>	<b>As specified for subheadings</b>
<b>8482 91</b>	<b>-- Balls, needles and rollers</b>	CTH; or 45% value added rule
<b>8482 99</b>	<b>-- Other</b>	<b>As specified for split subheadings</b>
<b>ex8482 99(a)</b>	<b>-- Finished inner or outer rings of ball or roller bearings</b>	CTH; or change from split subheading ex8482.99 (b)
<b>ex8482 99(b)</b>	<b>-- Inner and outer rings, turned or forged, but not subject to heat treatment and/or grinding</b>	CTH
<b>ex8482 99(c)</b>	<b>-- Other parts of ball or roller bearings</b>	CTH
<b>8483</b>	<b>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).</b>	<b>As specified for subheadings</b>
<b>8483 10</b>	<b>- Transmission shafts (including cam shafts and crank shafts) and cranks</b>	CTH; or 45% value added rule
<b>8483 20</b>	<b>- Bearing housings, incorporating ball or roller bearings</b>	CTH, except from heading 8482; or change to this subheading by assembly of parts, preceded by heat treatment and grinding (if necessary), of the inner or the outer ring of split subheading 8482 99(b)

HS 2022 Code	Description of goods	Primary rules
8483 30	<b>- Bearing housings, not incorporating ball or roller bearings; plain shaft bearings</b>	CTH; or 45% value added rule
8483 40	<b>- 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</b>	CTH; or 45% value added rule
8483 50	<b>- Flywheels and pulleys, including pulley blocks</b>	CTH; or 45% value added rule
8483 60	<b>- Clutches and shaft couplings (including universal joints)</b>	CTH; or 45% value added rule
8483 90	<b>- Toothed wheels, chain sprockets and other transmission elements presented separately; parts</b>	CTH; or 45% value added rule
8484	<b>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.</b>	<b>As specified for subheadings</b>
8484 10	<b>- Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal</b>	CTH
8484 20	<b>- Mechanical seals</b>	CTH
8484 90	<b>- Other</b>	CTSH
8485	<b>Machines for additive manufacturing</b>	CTH; or 45% value added rule



HS 2022 Code	Description of goods	Primary rules
<b>8486</b>	<b>Machines and apparatus of a kind used solely or principally for the manufacture of semiconductor boules or wafers, semiconductor devices, electronic integrated circuits or flat panel displays; machines and apparatus specified in Note 9 (C) to this Chapter; parts and accessories.</b>	CTH; or 45% value added rule
<b>8487</b>	<b>Machinery parts, not containing electrical connectors, insulators, coils, contacts or other electrical features, not specified or included elsewhere in this Chapter.</b>	CTH

## 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**

#### **Primary Rule: Parts and accessories produced from blanks:**

1. The country of origin of goods that are produced from blanks which by application of the HS General Interpretative Rule 2(a) are classified in the same heading, subheading or subdivision as the complete or finished goods, shall be the country in which the blank was finished provided finishing included configuring to final shape by the removal of material (other than merely by honing or polishing or both), or by forming processes such as bending, hammering, pressing or stamping.
2. Paragraph 1 above applies to goods classifiable in provisions for parts or parts and accessories, including goods specifically named under such provisions.

#### **Definition of ‘assembly of semi-conductor products’**

‘Assembly of semi-conductor products’ means a change from chips, dice or other semi-conductor products to chips, dice or other semi-conductor products that are packaged or mounted onto a common medium for connection or connected and then mounted. The assembly of semi-conductor products shall not be considered as a minimal operation.

#### **Chapter Notes**

##### **Note 1: Collection of parts:**

Where a change in classification results from the application of HS General Interpretative Rule 2(a) with respect to collections of parts that are presented as unassembled articles of another heading or subheading the individual parts shall retain their origin prior to such collection.

##### **Note 2: Assembly of the collection of parts:**

Goods assembled from a collection of parts classified as the assembled good by application of General Interpretative Rule 2 shall have origin in the country of assembly, provided the assembly would have satisfied the primary rule for the good had each of the parts been presented separately and not as a collection.

##### **Note 3: Disassembly of goods:**

A change of classification which results from the disassembly of goods shall not be considered as the change required by the rule set forth in the table of "list rules". The country of origin of the parts recovered from the goods shall be the country where the parts are recovered, unless the importer, exporter or any person with a justifiable cause to determine the origin of parts demonstrates another country of origin on the basis of verifiable evidence such as origin marks on the part itself or documents.

##### **Chapter residual rule:**

Where the country of origin cannot be determined by application of the primary rules, the country of origin of the goods shall be the country in which the major portion of the materials originated, as determined on the basis of the value of the materials.

HS 2022 Code	Description of goods	Primary rules
<b>8501</b>	<b>Electric motors and generators (excluding generating sets).</b>	<i>As specified for split headings</i>
<b>ex 8501 (A)</b>	<b>- Crystalline silicon photovoltaic modules or panels</b>	CTH, except from heading 8541
<b>ex 8501 (B)</b>	<b>- other</b>	CTH, except from heading 8503; or 45% value added rule
<b>8502</b>	<b>Electric generating sets and rotary converters.</b>	CTH, except from heading 8503; or 45% value added rule
<b>8503</b>	<b>Parts suitable for use solely or principally with the machines of heading 8501 or 8502.</b>	CTH
<b>8504</b>	<b>Electrical transformers, static converters (for example, rectifiers) and inductors.</b>	CTH; or 45% value added rule
<b>8505</b>	<b>Electro-magnets; permanent magnets and articles intended to become permanent magnets after magnetisation; electro-magnetic or permanent magnet chucks, clamps and similar holding devices; electro-magnetic couplings, clutches and brakes; electro-magnetic lifting heads.</b>	CTH; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8506</b>	<b>Primary cells and primary batteries.</b>	CTH; or 45% value added rule
<b>8507</b>	<b>Electric accumulators, including separators therefor, whether or not rectangular (including square).</b>	CTH; or 45% value added rule
<b>8508</b>	<b>Vacuum cleaners</b>	CTH, except from 8501; or 45% value added rule
<b>8509</b>	<b>Electro-mechanical domestic appliances, with self-contained electric motor, other than vacuum cleaners of heading 8508.</b>	CTH, except from 8501; or 45% value added rule
<b>8510</b>	<b>Shavers, hair clippers and hair-removing appliances, with self-contained electric motor.</b>	CTH, except from 8501; or 45% value added rule
<b>8511</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8512</b>	<b>Electrical lighting or signalling equipment (excluding articles of heading 8539), windscreen wipers, defrosters and demisters, of a kind used for cycles or motor vehicles.</b>	CTH; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8513</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8514</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8515</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8516</b>	<b>Electric instantaneous or storage water heaters and immersion heaters; electric space heating apparatus and soil heating apparatus; electro-thermic hair-dressing apparatus (for example, hair dryers, hair curlers, curling tong heaters) and hand dryers; electric smoothing irons; other electro-thermic appliances of a kind used for domestic purposes; electric heating resistors, other than those of heading 8545.</b>	CTH, except from heading 8501; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8517</b>	<b>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.</b>	45% value added rule
<b>8518</b>	<b>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.</b>	45% value added rule
<b>8519</b>	<b>Sound recording or sound reproducing apparatus.</b>	45% value added rule
<b>[8520]</b>		
<b>8521</b>	<b>Video recording or reproducing apparatus, whether or not incorporating a video tuner.</b>	45% value added rule
<b>8522</b>	<b>Parts and accessories suitable for use solely or principally with the apparatus of headings 8519 to 8521.</b>	45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8523</b>	<b>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.</b>	<b>As specified for split (sub)headings</b>
<b>ex8523 59</b>	<b>Chipcard integrated circuit with integrated coil</b>	CTH or Assembly of semiconductor products
<b>ex8523</b>	<b>other</b>	45% value added rule
<b>8524</b>	<b>Flat panel display modules, whether or not incorporating touch-sensitive screens</b>	CTH; or 45% value added rule
<b>8525</b>	<b>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.</b>	<b>As specified for split headings</b>
<b>ex8525 80</b>	<b>Semiconductor imaging component</b>	CTH or Assembly of semiconductor products
<b>ex 8525</b>	<b>other</b>	45% value added rule
<b>8526</b>	<b>Radar apparatus, radio navigational aid apparatus and radio remote control apparatus.</b>	CTH, except from heading 8529; or 45% value added rule
<b>8527</b>	<b>Reception apparatus for radio-broadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock.</b>	CTH, except from heading 8529

HS 2022 Code	Description of goods	Primary rules
<b>8528</b>	<b>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.</b>	CTH, except from heading 8529
<b>8529</b>	<b>Parts suitable for use solely or principally with the apparatus of headings 8524 to 8528.</b>	45% value added rule
<b>8530</b>	<b>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).</b>	CTH; or 45% value added rule
<b>8531</b>	<b>Electric sound or visual signalling apparatus (for example, bells, sirens, indicator panels, burglar or fire alarms), other than those of heading 8512 or 8530.</b>	CTH; or 45% value added rule
<b>8532</b>	<b>Electrical capacitors, fixed, variable or adjustable (pre-set)</b>	CTH; or 45% value added rule
<b>8533</b>	<b>Electrical resistors (including rheostats and potentiometers), other than heating resistors.</b>	CTH; or 45% value added rule
<b>8534</b>	<b>Printed circuits</b>	CTH; or 45% value added rule



HS 2022 Code	Description of goods	Primary rules
<b>8535</b>	<b>Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and other connectors, junction boxes), for a voltage exceeding 1 000 V.</b>	CTH, except from heading 8538; or Assembly of semiconductor products
<b>8536</b>	<b>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 1 000 V; connectors for optical fibres, optical fibre bundles or cables</b>	<b>As specified for split headings</b>
<b>ex 8536 (a)</b>	<b>- Semiconductor 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 1 000 volts.</b>	CTH, except from heading 8538; or Assembly of semiconductor products
<b>ex 8536 (b)</b>	<b>- Other</b>	CTH, except from heading 8538; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8537</b>	<b>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.</b>	CTH, except from heading 8538; or 45% value added rule
<b>8538</b>	<b>Parts suitable for use solely or principally with the apparatus of heading 8535, 8536 or 8537.</b>	CTH
<b>8539</b>	<b>Electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps; arc-lamps; light-emitting diode (LED) light sources.</b>	CTH; or 45% value added rule
<b>8540</b>	<b>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).</b>	CTH; or 45% value added rule
<b>8541</b>	<b>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.</b>	<b>As specified for split headings</b>

HS 2022 Code	Description of goods	Primary rules
<b>ex8541 (a)</b>	<b>Crystalline silicon photovoltaic cells, modules or panels</b>	CTH
<b>ex8541(b)</b>	<b>other</b>	CTH or Assembly of semiconductor products
<b>8542</b>	<b>Electronic integrated circuits</b>	CTH or Assembly of semiconductor products
<b>8543</b>	<b>Electrical machines and apparatus, having individual functions, not specified or included elsewhere in this chapter.</b>	CTH; or 45% value added rule
<b>8544</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8545</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8546</b>	<b>Electrical insulators of any material.</b>	CTH; or 45% value added rule

HS 2022 Code	Description of goods	Primary rules
<b>8547</b>	<b>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.</b>	CTH; or 45% value added rule
<b>8548</b>	<b>Electrical parts of machinery or apparatus, not specified or included elsewhere in this Chapter.</b>	<b>As specified for subheadings</b>
<b>ex8548 90 (a)</b>	<b>Smartconnect modules including a communication controller and a secure smart card controller</b>	CTH or Assembly of semi-conductor products
<b>ex8548 90 (b)</b>	<b>- Other</b>	CTH; or 45% value added rule
<b>8549</b>	<b>Electrical and electronic waste and scrap.</b>	The origin shall be the country where the goods of this subheading in which they are derived or collected from manufacturing or processing operations or from consumption