

COMMODITY CLASSIFICATION
FOR FOREIGN TRADE STATISTICS

Edition 1954

Englische Übersetzung
des Warenverzeichnisses
für die Außenhandelsstatistik
Ausgabe 1954



Part V: Chapters 84 - 85
Teil V: Kapitel 84 - 85

S T A T I S T I S C H E S B U N D E S A M T
W i e s b a d e n - B i e b r i c h

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Preliminary notes

1. The draft of an English Translation of the Commodity Classification for Foreign Trade Statistics (Edition 1954) is herewith presented.
2. In case of doubt and ambiguity of the text only the original German version of the Classification for Foreign Trade Statistics is to be regarded as authentic in every case.
3. Users of this Classification are recommended to communicate to the Statistisches Bundesamt any suggestions for improvement of the translation.
4. Abbreviations:
n.e.s. - not elsewhere specified or included.

Vorbemerkungen

1. Hiermit wird der Entwurf einer englischen Übersetzung des Warenverzeichnisses für die Außenhandelsstatistik (Ausgabe 1954) vorgelegt.
2. In Zweifelsfällen und bei Unklarheiten des Textes ist in jedem Fall die ursprüngliche deutsche Fassung des Warenverzeichnisses für die Außenhandelsstatistik maßgebend.
3. Es wird gebeten, etwaige Vorschläge zur Verbesserung der Übersetzung an das Statistische Bundesamt zu richten.
4. Abkürzungen:
n.e.s. - not elsewhere specified or included.

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Nur für den Dienstgebrauch

Section XVI

Machinery and mechanical appliances; electrical equipment
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General notes.

1. This section does not include:
 - a) Articles of unhardened rubber for industrial use (Chapter 40);
 - b) Leather articles for industrial use (Chapter 42);
 - c) Wooden spools, bobbins or the like of a kind suitable for use in the textile industry (Chapter 44);
 - d) Paper or paperboard spools and bobbins of all kinds suitable for use in the textile industry; cards for jacquard machines (Chapter 48);
 - e) Textile articles for industrial use (Chapter 59);
 - f) Goods of asbestos for industrial use; brake linings, clutch linings and similar friction materials, millstones, grindstones and the like (Chapter 68);
 - g) Implements of ceramics, for industrial use (Chapter 69);
 - h) Boilers for central heating (Chapter 73); chains and springs of base metal (Section XV);
 - i) Hand drills, knives and other tools and implements for machinery, hand and pedal operated grinding wheels, hand operated domestic implements and hair clippers (Chapter 82);
 - k) Automatic door closers (Chapter 83);
 - l) Vehicles (Section XVII), including special vehicles (Chapter 86 and 87); however, machinery and appliances of a kind running on rails, such as mobile motor pumps, compressors, ladders, cranes and other mobile lifting or handling apparatus remain within Chapter 84 (see General Note 2 and Section XVII);
 - m) Catapults and similar aircraft launching gear; ground flying trainers (Chapter 88);
 - n) Scientific measuring and precision instruments, mecano-therapeutic and orthopaedic appliances, material testing machines, gas and liquid supply meters (Chapter 90);
 - o) Clock- and watchmakers' articles; spring operated mechanisms with escapements (Chapter 91);
 - p) Metronomes; automatic playing mechanisms for musical instruments (Chapter 92);
 - q) Games, toys and sports requisites (Chapter 97).
2. Machines complete except for the power units driving the machines or for minor parts or accessories (e.g. flywheels, bed plates, bushes, bearings, tools, tool-holders, work-holders, safety and operating devices and cocks) are treated as complete machines and not as parts thereof, provided the assembly retains the characteristics of a machine.

The same rule applies to electrical apparatus and appliances not fitted with their lamp bulbs or tubes. Unassembled machines if complete or complete except for minor parts or accessories as defined in the previous para are treated in the same manner as the corresponding assembled machines. This applies likewise to unassembled machines imported or exported in several consignments and cleared subject to special conditions of control.

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3. Parts, unworked or worked (including frames) of electrical or other machines, to which no special item applies and which are imported or exported separately are to be treated as follows:
- a) If beyond doubt recognisable as specialised for use with particular machines, in the same manner as the machines to which they pertain;
 - b) Otherwise, in the same manner as parts of electrical machines (item 8535 00) or other machinery parts (items 8477 11 to 8477 99), not elsewhere specified or included.

Where, under the general rules, such parts are deemed to be parts of base metal, they are to be classified according to General Note 4 ad Section XV.

The distinction between unworked and worked parts is made in accordance with the provisions of General Notes 5 and 6 ad Section XV.

4. Except where otherwise provided, combinations of machines of different kinds, which have to work together and form a composite machine and other machines which by reason of performing more than one function are falling under more than one heading are to be classified according to the main purpose or main function of the machine.
5. Motors and other power units of all kinds incorporated in machinery or imported or exported with machinery are to be treated in the same manner as the machines for which they are clearly intended. This applies equally to transmission belts belonging to such machinery. Except where otherwise provided the weight of such motors and other power units and of conveyor belts is to be added to the weight of the machine when ascertaining the unit weight.
6. Parts for power transmission, tools, chucks and the like imported or exported with a machine and forming the normal equipment of such a machine are treated in the same manner as the corresponding machine. The weight of such tools is to be added to the weight of the machine when ascertaining the unit weight. The same applies to tools and accessories normally sold with such a machine for assembly or maintenance.
7. Lubricating oils and greases necessary for the functioning of a machine are treated in the same manner as integral parts thereof, provided that they are in the place where they would normally be found when the machine is functioning. In this case, the weight of such oils and greases is to be added to the weight of the machine when ascertaining the unit weight.
On the other hand, oils and greases in separate containers are to be treated invariably according to their nature.
8. The above provisions relating to machinery, parts of machinery and accessories apply equally to apparatus and mechanical appliances of a kind falling within Section XVI and to parts and accessories thereof.

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9. For the purpose of Chapter 84 the expression "plant" is deemed to apply to the combination of machinery, apparatus, motors and other power units, lifting, hoisting and conveying equipment, mechanical appliances, pipe lines, fittings and supporting structures all of which effect a certain working or manufacturing process in several stages.

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Chapter 84

Boilers, machinery, apparatus and mechanical appliances

Steam-generating boilers:

8401 10	Boiler house plant, excluding steam-generating boiler plant for ships	kg.
8401 30	Locomotive boilers, not in conjunction with mechanical parts	kg.& number
	Water tube boilers:	
8401 51	Marine boilers	kg.& number
8401 59	Other water tube boilers	kg.& number
	Boilers enclosing fire bed and flue chambers:	
8401 71	Marine boilers	kg.& number
8401 79	Other	kg.& number
8401 90	Parts and spare parts for steam-generating boilers, excluding articles classified within items 8402 10 to 8402 99, 8417 00 to 8418 99	kg.

Auxiliary apparatus and appliances and accessories, n.e.s. (economisers, superheaters, condensers, gas-purifiers, gas-recoverers and the like):

8402 10	Superheaters	kg.
8402 20	Economisers	kg.
8402 35	Air heaters	kg.
8402 50	Gas purifiers and gas-recoverers	kg.
8402 60	Condensers	kg.
8402 80	Other auxiliary apparatus and other boiler accessories	kg.
	Parts and spare parts:	
8402 91	Economiser tubes and -shapes	kg.
	Other parts and spare parts:	
8402 95	Of cast iron	kg.
8402 99	Other	kg.

Gas producers, gas generators and gas purifiers for gas producers, acetylene gas generators (water process):

8403 10	Complete gas generating and gas purifying plants	kg.
	Gas generators:	
8403 20	Acetylene gas generators	kg.
8403 30	Wood gas generators for vehicles	kg.& number
8403 40	Gas generators for engines	kg.& number
8403 70	Other gas generators	kg.& number
8403 80	Gas purifiers	kg.& number
	Parts and spare parts:	
8403 91	For gas generators for vehicles and engines	kg.
	For other gas generators, gas producers and gas purifiers:	
8403 95	Of cast iron	kg.
8403 97	Of malleable cast iron	kg.
8403 99	Other	kg.

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Locomotives, mobile or stationary:

8404 10	Locomotives	kg.& number
8404 90	Parts and spare parts, excluding boilers without mechanical parts (8401 59 or 8401 79)	kg.

Steam power units, not incorporating boilers:

Reciprocating steam engines:		
8405 10	For ship propulsion	kg.& number
For other purposes:		
8405 31	Vertical	kg.& number
8405 35	Horizontal	kg.& number
Steam turbines:		
8405 50	For ship propulsion	kg., number & h.p.
For driving electric generators of a capacity:		
8405 71	Not exceeding 2000 kw.	kg., number & kw.
8405 73	Exceeding 2000 up to and including 10 000 kw.	kg., number & kw.
8405 75	Exceeding 10 000 up to and including 40 000 kw.	kg., number & kw.
8405 79	Exceeding 40 000 kw.	kg., number & kw.
8405 80	For other purposes	kg.& number
Parts and spare parts:		
8405 91	For reciprocating steam engines	kg.
8405 95	For steam turbines	kg.

Internal combustion engines:

Gasoline engines:		
8406 11	For tractors	kg.& number
For motor vehicles of a cylinder capacity:		
8406 15	Of less than 1 l.	kg.& number
8406 16	Of 1 up to and including 1,5 l.	kg.& number
8406 17	Exceeding 1,5 up to and including 2,5 l.	kg.& number
8406 18	Exceeding 2,5 l.	kg.& number
For motorcycles, motor scooters and motorised cycles, of a cylinder capacity:		
8406 20	Not exceeding 200 c.c.	kg.& number
8406 22	Exceeding 200 c.c.	kg.& number
8406 23	For bicycles (auxiliary motors for attachment to pedal operated cycles)	kg.& number
8406 24	For railvehicles	kg.& number
For aircraft of a nominal capacity:		
8406 26	Not exceeding 200 h.p.	kg.& number
8406 27	Exceeding 200 up to and including 2200 h.p.	kg.& number
8406 28	Exceeding 2200 h.p.	kg.& number
For vessels, excluding auxiliary ship engines (8406 34 to 8406 39):		
8406 31	Boat engines	kg.& number
8406 32	Outboard motors	kg.& number
Stationary engines and built-in engines for other purposes:		
Air-cooled, of a cylinder capacity:		
8406 34	Not exceeding 250 c.c.	kg.& number
8406 35	Exceeding 250 up to and including 500 c.c.	kg.& number
8406 36	Exceeding 500 c.c.	kg.& number
Water-cooled, of a cylinder capacity:		
8406 38	Not exceeding 1 l.	kg.& number
8406 39	Exceeding 1 l.	kg.& number

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Diesel-engines:

For tractors, of a constant engine power:

8406 41	Not exceeding 12 h.p.	kg.& number
8406 42	Exceeding 12 up to and including 17 h.p.	kg.& number
8406 43	Exceeding 17 up to and including 24 h.p.	kg.& number
8406 44	Exceeding 24 up to and including 34 h.p.	kg.& number
8406 45	Exceeding 34 up to and including 60 h.p.	kg.& number
8406 46	Exceeding 60 up to and including 100 h.p.	kg.& number
8406 47	Exceeding 100 h.p.	kg.& number

For motor vehicles, of a constant engine power:

8406 51	Not exceeding 60 h.p.	kg.& number
8406 52	Exceeding 60 up to and including 100 h.p.	kg.& number
8406 53	Exceeding 100 up to and including 140 h.p.	kg.& number
8406 54	Exceeding 140 h.p.	kg.& number

For other motor vehicles, including auxiliary motors for attachment to pedal operated cycles

kg.& number

For rail vehicles, of a constant engine power:

8406 56	Not exceeding 40 h.p.	kg., number & h.p.
8406 57	Exceeding 40 up to and including 200 h.p.	kg., number & h.p.
8406 58	Exceeding 200 up to and including 1000 h.p.	kg., number & h.p.
8406 59	Exceeding 1000 h.p.	kg., number & h.p.

For vessels (ship propulsion engines), excluding auxiliary ship engines (8406 66 to 8406 69), of a constant engine power:

8406 61	Not exceeding 30 h.p.	kg., number & h.p.
8406 62	Exceeding 30 up to and including 200 h.p.	kg., number & h.p.
8406 63	Exceeding 200 up to and including 1000 h.p.	kg., number & h.p.
8406 64	Exceeding 1000 h.p.	kg., number & h.p.

Stationary engines and built-in engines for other purposes, of a constant engine power:

8406 66	Not exceeding 30 h.p.	kg., number & h.p.
8406 67	Exceeding 30 up to and including 200 h.p.	kg., number & h.p.
8406 68	Exceeding 200 up to and including 1000 h.p.	kg., number & h.p.
8406 69	Exceeding 1000 h.p.	kg., number & h.p.

Gas engines:

8406 75	Heavy gas engines for coal gas and blast-furnace gas	kg.& number
8406 77	Other gas engines	kg.& number
8406 79	Other engines	kg.& number

Parts and spare parts:

For gasoline engines:

8406 81	For tractors and motor vehicles	kg.
8406 82	For motorcycles, motor scooters, motorised cycles and bicycles	kg.
8406 83	For rail vehicles	kg.
8406 84	For aircraft	kg.
8406 85	For vessels	kg.
8406 86	For stationary engines and built-in engines for other purposes	kg.

8406 89	For gasoline or diesel engines of no recognisable special purpose, including parts suitable for gasoline and diesel engines	kg.
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For diesel engines:

8406 91	For tractors	kg.
8406 92	For motor cars and for motor vehicles of item 8406 55	kg.
8406 93	For rail vehicles	kg.
8406 95	For vessels	kg.
8406 96	For stationary engines and built-in engines for other purposes	kg.

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8406 97	For gas engines and heavy gas engines	kg.
8406 99	For other engines	kg.

Notes.

1. The following internal combustion engines are regarded as engines for bicycles, motorcycles, automobiles and tractors, irrespective of the ultimate use to which they may be put and provided that their cylinder capacity does not exceed twelve litres:

- a) Motors incorporating gear-changing mechanism suitable for automobiles, tractors or motorcycles or fitted for receiving such mechanism;
- b) Other motors of a weight per litre of cylinder capacity not exceeding that shown in the following table, unless they are clearly unsuited - because of their size or design - for incorporation in motor vehicles:

Internal combustion spark ignition engines:

With one cylinder and a cylinder capacity of	Maximum weight per litre of cylinder capacity
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<u>Cubic centimetres</u>	<u>Kilogrammes</u>
Less than 250	150
Less than 500 but not less than 250	125
Less than 750 but not less than 500	110
750 or more	100

With more than one cylinder
and a cylinder capacity of

<u>Cubic centimetres</u>	
Less than 1000	120
Less than 2000 but not less than 1000	105
Less than 3000 but not less than 2000	95
Less than 4000 but not less than 3000	90
4000 or more	85

Other engines with a
cylinder capacity of

<u>Cubic centimetres</u>	
Less than 5000	110
Less than 7000 but not less than 5000	100
Less than 10 000 but not less than 7000	90
10 000 or more	80

2. The following engines are deemed to be suitable for aircraft:

- a) Engines of a nominal horse power at ground level not exceeding two hundred and equipped with an attachment for an aircraft propeller;
- b) All engines of a nominal horse power at ground level exceeding two hundred and of a weight per effective horse power not exceeding one kilogramme.

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Reaction engines:

8407 10	Reaction engines	kg.& number
8407 90	Parts and spare parts	kg.

Hydraulic engines:

Water turbines for driving electric generators of a capacity:

8408 12	Not exceeding 1000 kw.	kg., number & kw.
8408 14	Exceeding 1000 up to and including 10 000 kw.	kg., number & kw.
8408 16	Exceeding 10 000 kw.	kg., number & kw.
8408 30	Water wheels	kg.& number
8408 50	Small hydraulic engines for domestic and agricultural use	kg.& number
	Parts and spare parts:	
8408 91	Governors for turbines	kg.
8408 99	Other parts and spare parts, excluding pressure piping and tubing (Chapter 73)	kg.

Other engines, n.e.s.:

8409 10	Gas turbines	kg.
	Compressed air and compressed gas engines and turbines:	
8409 31	For mining	kg.& number
8409 39	For other purposes	kg.& number
8409 50	Windpropelled engines and apparatus	kg.& number
8409 70	Other engines	kg.& number
	Parts and spare parts:	
8409 91	For gas turbines	kg.
8409 93	For compressed air and compressed gas engines and turbines	kg.
8409 95	For windpropelled engines and apparatus	kg.
8409 99	For other engines	kg.

Mechanically propelled road rollers:

8410 10	Road rollers	kg.& number
	Parts and spare parts:	
8410 91	Roll tyres	kg.
8410 99	Other parts and spare parts	kg.

Liquid elevators, excluding pumps:

8411 10	Liquid elevators	kg.& number
	Parts and spare parts:	
8411 95	Of cast iron	kg.
8411 97	Of malleable cast iron	kg.
8411 99	Other	kg.

Pumps for liquids, with or without self-contained motor units, including non-mechanical pumps:

8412 11	Pumps with measure mechanisms of the types used for the delivery of petrol and lubricants at garages and filling stations	kg.& number
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8412 13	Fire-fighting pumps, excluding special vehicles with fire-fighting equipment (Chapter 87) and other fire-fighting appliances (8472 45)	kg.& number
8412 15	Deep well pumps and slush pumps for well drilling plant	kg.& number
8412 17	Storage pumps for hydraulic plant	kg.& number
8412 19	Submerged motor pumps	kg.& number
8412 20	Circulation accelerators for heating plant	kg.& number
8412 22	Ships pumps	kg.& number
8412 23	Grease guns of all kinds and oil lubricating pumps	kg.
8412 25	Liquid manure pumps	kg.& number
	Hand-operated pumps for liquids:	
8412 32	Wing pumps	kg.
8412 33	Diaphragm pumps	kg.
8412 34	Piston pressure pumps	kg.
8412 38	Other hand-operated pumps	kg.
	Other pumps for liquids:	
	Oscillating pumps:	
8412 42	Domestic piston pumps	kg.& number
8412 43	Steam and compressed air powdered piston pumps	kg.& number
8412 44	Mechanical pressure pumps	kg.& number
8412 49	Other oscillating pumps, excluding deep well pumps for well boring plant	kg.& number
	Rotary pumps:	
	Centrifugal pumps, including heating circulating pumps, but excluding circulation accelerators for heating plant (8412 20):	
8412 52	With automatic suction	kg.& number
	Other centrifugal pumps:	
8412 56	Single-stage	kg.& number
8412 57	Multi-stage	kg.& number
8412 61	Gear pumps	kg.& number
8412 62	Screw- or spindle pumps and piston rotary pumps	kg.& number
8412 63	Propeller type pumps, cog-wheel geared pumps and sewer pumps	kg.& number
8412 69	Other rotary pumps	kg.& number
8412 79	Other pumps for liquids	kg.
	Parts and spare parts:	
8412 92	For fire-fighting pumps	kg.
8412 93	For deep well pumps and slush pumps for well drilling plant	kg.
8412 97	For liquid manure pumps	kg.
8412 98	For grease guns of all kinds and oil lubricating pumps	kg.
8412 99	For other pumps	kg.

Air pumps, air and gas compressors:

Motor pumps and motor compressors with attached internal combustion engine or electric motor, mounted on a common base plate (units):

8413 10	Of a kind suitable for inflating pneumatic tyres or the like	kg.& number
	Other units:	
	Mobile:	
8413 12	Reciprocating compressors	kg.& number
8413 13	Other compressors	kg.& number
8413 15	Stationary	kg.& number

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Pumps and compressors of a kind suitable for inflating pneumatic tyres or the like, excluding power units (8413 10):

Hand or pedal operated:

8413 31	Bicycles and motorcycle pumps	kg.& number
8413 34	Other pumps and compressors, hand or pedal operated	kg.& number
8413 36	Mechanically driven	kg.& number
8413 51	Vacuum pumps for laboratories	kg.& number

Other pumps and compressors:

Oscillating:

8413 61	Reciprocating-vacuum pumps, including reciprocating-high vacuum pumps	kg.& number
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Other:

For an end pressure of 0,5 up to and including 15 atmospheric excess pressure and a delivery capacity:

8413 66	Of less than 60 cu.m./h.	kg.& number
8413 67	Of 60 up to and including 3000 cu.m./h.	kg.& number
8413 68	Exceeding 3000 cu.m./h.	kg.& number
8413 69	For an end pressure exceeding 15 atmospheric excess pressure	kg.& number

Rotary:

8413 81	Vacuum pumps	kg.& number
8413 82	Turbo compressors, of a radial and axial type	kg.& number
8413 83	Rotary piston compressors with two or more axles	kg.& number
8413 88	Other rotary compressors	kg.& number
8413 89	Other pumps and compressors	kg.& number

Parts and spare parts:

8413 91	For hand and pedal operated pumps	kg.
8413 99	For other pumps and compressors	kg.

Ventilators blowers and the like, excluding electric fans of a power not exceeding 600 watts:

Ventilators:

8414 11	Ventilators for large mines	kg.& number
8414 15	Ventilators for mine ventilating conduits	kg.& number
8414 19	Other ventilators	kg.& number
8414 30	Exhausters and blowing machines	kg.& number
8414 50	Air-conditioning apparatus and plant	kg.

Parts and spare parts:

8414 91	For ventilators suitable for use in large mines and for mine ventilating conduits	kg.
8414 99	For other ventilators, blowers and the like	kg.

Air or gasfilters, of a weight:

8415 10	Exceeding 5 kg.	kg.& number
8415 50	Not exceeding 5 kg.	kg.& number
8415 90	Parts and spare parts	kg.

Note.

Air and gasfilters for internal combustion engines are falling within items 8406 81 to 8406 99, filter for breathing apparatus within item 9017 90.

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Air-conditioning plant, consisting of a motor-driven ventilator and of elements for changing the temperature or humidity of air, with or without accessories:

8416 10	Air-conditioning plant	kg.
8416 90	Parts and spare parts	kg.

8417 00	Force feed furnace burners (atomisers) for fuel oil, for pulverised coal or for gas	kg.
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Forehearth, fireboxes, automatic or not; mechanical grates and similar furnace feeding devices:

8418 10	Coal feeding devices, mechanical plants, stokers and the like for steam boilers	kg.
8418 20	Mechanical grates, caterpillar band grates, level and oscillating inclined step grates, including stokers	kg.
8418 30	Pulverised coal burners	kg.
	Oil and gas burners:	
8418 41	For industrial furnaces and ovens	kg.
8418 49	For other purposes	kg.
8418 80	Other fireboxes and other furnace feeding devices	kg.
	Parts and spare parts:	
8418 91	Fire-bars, grate parts and other parts for firing furnaces of cast iron	kg.
	Parts and spare parts:	
8418 94	For oil and gas burners of industrial furnaces and ovens	kg.
8418 99	For other fireboxes and other furnace feeding devices	kg.

Industrial furnaces and ovens (not including electric furnaces and ovens) n.e.s., whether or not internally lined with fire bricks and the like:

8419 10	For the metal industry	kg.
	For other industries:	
8419 51	Bakery ovens for industrial purposes	kg. & number
8419 57	Furnaces and ovens including so-called Lepol-ovens for the cement-, lime-, gypsum-, trass- and chalk industry	kg. & number
8419 59	Other industrial furnaces and ovens	kg. & number
	Parts and spare parts, excluding fire-boxes and parts thereof:	
8419 95	For bakery ovens for industrial purposes	kg.
8419 97	For furnaces and ovens of the cement, lime, gypsum, trass and chalk industry	kg.
8419 99	For other industrial furnaces and ovens	kg.

Machinery and plant, n.e.s. for heating, cooking, roasting, distilling, rectifying, refining, sterilising, pasteurising, steaming, drying, evaporating, vapourising, condensing, cooling or for similar processes involving temperature change:

8420 10	Air and gas liquefying and decomposing apparatus and plant	kg.
	Drying ovens and plant, excluding drying machines and plant for textiles (8441 11 to 8441 19):	
8420 31	For the food industry, including the beverage and tobacco manufacturing industries	kg.

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8420 33	For the chemical industry	kg.
8420 35	For the wood industry	kg.
8420 36	For the mining industry	kg.
8420 37	For the cellulose, paper- and paperboard industry	kg.
8420 38	For the stone and earth industry	kg.
8420 39	For other industries	kg.
	Other machinery and plant:	
	For the food industry, including the beverage and tobacco manufacturing industries:	
8420 40	Milkheaters and milkcoolers	kg.
8420 41	Pasteurising machinery and plant	kg.
8420 42	Complete brewery and malting plant	kg.
8420 43	Brewery and malting machinery	kg.
8420 44	Complete plant for the sugar industry	kg.
8420 45	Machinery for the sugar industry	kg.
8420 47	Roasting machines for the cacao and chocolate manufacture for tobacco, coffee, tea, chicory, peanuts, sojabbeans and the like	kg.
8420 48	Machinery and plant for the edible oil- and fat industry	kg.
8420 49	Other machinery and plant for the food industry, including the beverage and tobacco manufacturing industries, excluding articles classified within items 7346 11 to 7346 70	kg.
	For the chemical industry and related industries:	
8420 51	Complete plant for distilleries, yeast- and starch factories	kg.
8420 52	Machinery for distilleries, yeast- and starch factories	kg.
8420 55	Complete plant for the chemical industry	kg.
8420 59	Machinery for the chemical industry	kg.
	For other industries:	
8420 61	Cooling towers and cooling plant for energy production	kg.
8420 65	Industrial refrigerators and frigorific and artificial ice producing plant of which the constituent elements are not mounted on a common base plate	kg.
8420 69	Other machinery and plant, excluding autoclaves for the paper making industry (8430 40)	kg.
	Parts and spare parts:	
8420 71	For air and gas liquefying and decomposing apparatus	kg.
	For drying ovens:	
8420 81	Of cast iron	kg.
8420 82	Of malleable cast iron	kg.
8420 83	Other	kg.
	For machinery of the food industry, including the beverage and tobacco manufacturing industries:	
8420 87	Of cast iron	kg.
8420 88	Of malleable cast iron	kg.
8420 89	Other	kg.
	For machinery of the chemical industry and related industries:	
8420 91	Of cast iron	kg.
8420 92	Of malleable cast iron	kg.
8420 93	Other	kg.
	For machinery of other industries:	
8420 97	Of cast iron	kg.
8420 98	Of malleable cast iron	kg.
8420 99	Other	kg.

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Geysers and water-heaters (e.g. instantaneous and automatic water-heaters), non-electric:

8421 10	To be heated by solid fuel	kg.& number
8421 70	Other	kg.& number
	Parts and spare parts:	
8421 95	Of cast iron	kg.
8421 99	Other	kg.

Refrigerating machinery, apparatus and appliances, whether or not fitted with electrical equipment:

Refrigerating plant of which the constituent elements are mounted on a common base plate:

For installation into refrigerators and other refrigerating furniture of a cooling chamber capacity:

Of 250 l. or less:

8422 32	With compressor	kg.& number
8422 34	Other	kg.& number
	Exceeding 250 l.:	
8422 37	With compressor	kg.& number
8422 39	Other	kg.& number
8422 40	Other	kg.& number

Refrigerators and other refrigerating furniture with frigorific plant:

With compressor and a cooling chamber capacity:

8422 51	Of 100 l. or less	kg.& number
8422 53	Exceeding 100 up to and including 180 l.	kg.& number
8422 55	Exceeding 180 up to and including 250 l.	kg.& number
8422 57	Exceeding 250 l.	kg.& number

Other with a cooling chamber capacity:

Of 250 l. or less:

Electric absorption refrigerators with a cooling chamber capacity:

8422 72	Of 50 l. or less	kg.& number
8422 73	Exceeding 50 up to and including 100 l.	kg.& number
8422 75	Exceeding 100 up to and including 250 l.	kg.& number
8422 78	Other (e.g. gas refrigerators)	kg.& number
8422 79	Exceeding 250 l.	kg.& number

Parts and spare parts:

Refrigerators and other refrigerating furniture suitable for installation of frigorific plant which is imported or exported separately, with a cooling chamber capacity:

8422 81	Of 250 l. or less	kg.
8422 89	Exceeding 250 l.	kg.
8422 99	Other parts and spare parts	kg.

Agricultural machinery, agricultural appliances and implements for preparing or cultivating the soil:

8423 10	Motor rotary tillers and self propelled cultivators	kg.& number
	Ploughs:	
8423 51	Machine powered	kg.& number
8423 52	Animal drawn	kg.& number
8423 54	Grubbers animal drawn or machine powered	kg.& number
8423 56	Disc harrows	kg.& number
8423 57	Peg tooth field and wire net harrows	kg.& number

XVI. Machinery and mechanical appliances; electrical equipment

8423 61	Sowing and drill machines, excluding dibbling planters and hand sowing machines and small drills (8423 80)	kg.& number
8423 63	Hoeing and scrub etc. clearing machines and weeders	kg.& number
	Machines for the cultivation of root crops:	
8423 65	Multi-purpose machines	kg.& number
8423 67	Other machines for the cultivation of root crops	kg.& number
8423 71	Manure spreaders	kg.& number
8423 73	Overhead irrigation plant	kg.
8423 80	Other machines and implements for soil cultivation	kg.
	Parts and spare parts:	
8423 93	Parts and spare parts for ploughs	kg.
8423 95	Grubber teeth, cultivator spring teeth harrow teeth, spring teeth, for cultivator shares and hoeing and scrub etc. clearing machines and weeders	kg.
	Other parts and spare parts:	
8423 96	Of forged or pressed steel	kg.
8423 97	Of cast iron	kg.
8423 98	Of malleable cast iron	kg.
8423 99	Other	kg.

Harvesting, thrashing and agricultural sorting machinery, appliances and implements, n.e.s., including egg-grading, machines, straw and fodder pressers and lawn mowers:

Mowing machines, excluding maize mowing machines, maize and hemp mowing-binders (8424 29):

8424 11	Grass and corn mowers	kg.& number
8424 13	Mowing-binders, including binders with power take-off	kg.& number
8424 15	Mowing attachments for tractors	kg.& number
8424 17	Motor mowers, excluding lawn mowers	kg.& number
8424 19	Other mowing machines (e.g. lawn mowers)	kg.& number
	Harvesting machines:	
8424 21	Haymaking machines	kg.& number
8424 23	Potato diggers	kg.& number
8424 25	Beet lifters and beet toppers	kg.& number
8424 29	Other harvesting machines	kg.& number
8424 30	Harvester-threshers with or without motor, including combined harvester-binder-threshers	kg.& number
8424 40	Threshing machines, excluding small shredders, clover threshing machines and maize-shredders	kg.& number
8424 50	Hay and straw baling presses, straw binders and pick-up balers for hay and straw	kg.& number
8424 60	Machinery appliances and implements for cleaning and sorting agriculture products	kg.& number
8424 70	Egg grading, testing and stamping machines	kg.& number
8424 81	Attachments and accessories	kg.
	Parts and spare parts:	
8424 83	Threshing nails, self-dump hay rake teeth, hay tedder teeth	kg.
	Other parts and spare parts:	
8424 91	For egg grading, testing and stamping machines and appliances	kg.
	For other harvesting, threshing and agricultural sorting machines, appliances and implements:	
8424 95	Of cast iron	kg.
8424 97	Of malleable cast iron	kg.
8424 98	Of forged or pressed steel	kg.
8424 99	Other	kg.

XVI. Machinery and mechanical appliances; electrical equipment

Dairy machinery and appliances, n.e.s.:

8425 10	Milking machines	kg.& number
8425 30	Cream separators, hand or machine operated	kg.& number
8425 70	Dairy machines and appliances, including butter-making machines for farms	kg.& number
8425 90	Parts and spare parts	kg.

Appliances for the preparation of wine, cider, or the like:

8426 10	Wine, cider and fruit-juice presses, whether or not hydraulic	kg.& number
8426 30	Mobile continuous fruit presses	kg.& number
8426 70	Other appliances for the preparation of wine, fruit wine and the like	kg.& number
8426 90	Parts and spare parts	kg.

Sprayers and powder distributors of all kinds, syringes and similar appliances for dispersing or spraying insecticides, hand, knapsack or transportable:

8427 10	Appliances and implements	kg.
8427 90	Parts and spare parts	kg.

Agricultural, horticultural, avicultural, apicultural and forestry machinery, appliances and implements, n.e.s.:

8428 10	Avicultural, excluding electrical incubators (8514 89)	kg.
8428 20	Apicultural	kg.
	For fodder preparation:	
8428 31	Chaff-cutters, with or without blowers	kg.& number
8428 33	Crushing- and grinding mills	kg.& number
8428 35	Potato and beet washing machines, beet cleaners and beet leaf cleaners	kg.& number
8428 37	Tipping forage steamers, excluding mobile and stationary forage steaming plant, excluding electric steam appliances (8514 89) and Henze-cookers(8420 52)	kg.& number
8428 39	Other machines, appliances and implements for fodder preparation	kg.& number
	Agricultural means of transportation and conveyance:	
8428 51	Hay-, straw-, sheaf- and grain blowers	kg.& number
8428 55	Other agricultural means of transportation and conveyance	kg.& number
8428 70	Other agricultural, horticultural or forestry machinery, appliances and implements	kg.& number
	Parts and spare parts:	
8428 91	For avicultural and apicultural machinery, appliances and implements	kg.
8428 93	For machinery, appliances and implements for fodder preparation	kg.
8428 95	For agricultural means of transportation and conveyance	kg.
8428 99	For other machinery, appliances and implements	kg.

XVI. Machinery and mechanical appliances; electrical equipment

Machinery and appliances of a kind suitable for the milling
or working of cereals or of leguminous vegetables:

8429 10	Milling plant	kg.
8429 50	Seed cleaners, winnowers, and cleansing mills	kg.
8429 60	Malt crushing mills	kg.
8429 70	Other machinery and appliances of a kind suitable for the milling or working of cereals or of leguminous vegetables, excluding agricultural crushing- and grinding mills (8428 33)	kg.
	Parts and spare parts:	
8429 91	Rollers of cast iron	kg.
8429 99	Other parts and spare parts	kg.

Machinery and appliances for making pulp and for making,
dressing or finishing paper or paperboard:

8430 10	Complete plant	kg.
8430 40	Machinery and appliances for making pulp	kg.
8430 70	Machinery and appliances for making, dressing and finishing paper and paperboard, excluding calenders (8466 77)	kg.
	Parts and spare parts:	
8430 91	Drying cylinders of cast iron	kg.
8430 99	Other parts and spare parts	kg.

Machinery and appliances for making up paper or paperboard, n.e.s.:

8431 10	Machinery and appliances	kg.
8431 90	Parts and spare parts	kg.

Type founding and setting machines:

8432 10	Machines and appliances	kg.
8432 80	Matrices and punches	kg.
8432 90	Parts and spare parts	kg.

Printing and graphic machinery, mechanical apparatus and auxi-
liary appliances, n.e.s.:

8433 10	Printing presses and printing machines of all kinds with or without margin-setting, gumming, cutting, folding, perforating, stapling or similar equipment	kg.
8433 50	Auxiliary printing machinery, appliances and equipment, excluding automatically working machinery and appliances of item 8431 10	kg.
8433 90	Parts and spare parts	kg.

Equipment for type-setting, stereotype, galvanoplastics and for
photomechanical processes of all kinds, not including photo-
graphic apparatus:

8434 10	Letters and other movable printing type of all materials	kg.
8434 21	Cylinders for graphic work, not engraved	kg.
	Ground or grained metal plates prepared for graphic work:	
8434 25	Of zinc	kg.
8434 26	Of copper	kg.
8434 29	Of other metals	kg.

XVI. Machinery and mechanical appliances; electrical equipment

8434 30	Impressed matrices	kg.
	Clichés, printing blocks, plates and cylinders of all kinds, including prepared lithographic stones:	
8434 51	Engraved or obtained by photomechanical process	kg.
8434 59	Other (electrotypes, stereotypes and the like)	kg.
	Engraving equipment and lined screens for photomechanical or for copperplate printing:	
8434 61	Lined screens of all kinds	kg.
8434 69	Other	kg.
8434 70	Printed lines	kg.
8434 80	Matrix rolling presses, dressing machines for printing blocks, mechanical chemigraphic machines and equipment for electrotyping	kg.
8434 91	Other requisites	kg.
8434 99	Parts and spare parts for matrix rolling presses, dressing machines for clichés, mechanical chemigraphic machines and equipment for electrotyping	kg.

Card file teething machines:

8435 10	Machines for mounting card clothing on card cylinders, machines for planting the teeth in card clothing and similar machines	kg.
8435 90	Parts and spare parts	kg.

Machinery and appliances for preparing textiles (opening, washing, carding, combing, and other machinery for preparing textiles up to the spinning stage):

	Machinery and appliances for preparing textiles:	
8436 20	Silk	kg.
	Wool:	
8436 31	For worsted yarn	kg.
8436 35	For carded yarn	kg.
8436 50	Cotton	kg.
8436 60	Flax, hemp, tow, jute, ramie, Manila hemp and other textiles not mentioned above	kg.
	Accessories:	
8436 81	Card clothing and card spiked lags	kg.
8436 83	Spinning needles	kg.
8436 85	Needle bars and combs	kg.
8436 89	Other accessories	kg.
8436 90	Parts and spare parts	kg.

Spinning and twisting machinery and appliances:

8437 10	Nozzle spinning machines and stretching machines for the production of artificial and synthetic filaments and fibres	kg.
	Other spinning machines:	
8437 20	For silk	kg.
	For wool:	
8437 31	For worsted yarn	kg.
8437 35	For carded yarn	kg.
8437 50	For cotton	kg.
8437 60	For flax, hemp, tow, jute, ramie, Manila hemp and other textiles not mentioned above	kg.

XVI. Machinery and mechanical appliances; electrical equipment

8437 71	Twisting machines	kg.
8437 75	Rope-making machines	kg.
	Accessories:	
8437 81	Spinning nozzles, whether or not of precious metal	kg.
8437 85	Spinning pumps	kg.
8437 89	Other accessories	kg.
8437 90	Parts and spare parts	kg.

Machinery and appliances of a kind suitable for performing operations supplementary to spinning or preparatory to weaving (e.g. machines for doubling and throwing raw silk, winding, reeling, warping and sizing machines and other machines for performing operations preparatory to weaving):

8438 10	Rolling, winding and spooling machines	kg.
8438 40	Sizers, warpers and slashers	kg.
8438 70	Other	kg.
8438 90	Parts and spare parts	kg.

Looms, hosiery frames, machines for making tulle, lace, embroidery, trimmings and net; auxiliary weaving machines and appliances:

	Looms:	
8439 11	Narrow fabric looms	kg.& number
8439 13	Tubular tape looms	kg.& number
8439 15	Automatic looms	kg.& number
8439 19	Other looms	kg.& number
	Hosiery frames:	
	Cotton-type machines:	
8439 21	Cotton machines	kg.& number
8439 23	Flat warp hosiery frames	kg.& number
8439 25	Other cotton-type machines	kg.& number
8439 29	Circular hosiery frames	kg.& number
	Knitting machines:	
8439 31	Handknitting machines	kg.& number
	Motorknitting machines:	
8439 35	Flat knitting machines	kg.& number
	Circular knitting machines:	
8439 38	Double cylinder machines	kg.& number
8439 39	Other circular knitting machines	kg.& number
8439 51	Machines for making embroideries	kg.& number
8439 53	Machines for making nets, tulle, lace and curtains	kg.& number
8439 59	Braiding, lace making and trimming machines, including covering and plaiting machines for cables	kg.& number
	Auxiliary weaving, knitting and hosiery machines and appliances:	
8439 71	Jacquard machines	kg.
8439 73	Weft and warp stop motions	kg.
8439 79	Other auxiliary machines and appliances	kg.
	Accessories:	
8439 81	Sinkers and sliders	kg.
8439 82	Shuttles and parts thereof	kg.
	Other accessories:	
8439 83	For weaving machines	kg.

XVI. Machinery and mechanical appliances; electrical equipment

For other machines:

8439 85	Knitting machine needles	kg.
8439 86	Hosiery frame needles	kg.
8439 87	Embroidery machine needles	kg.
8439 89	Other accessories	kg.
8439 90	Parts and spare parts	kg.

Machinery and appliances for the manufacture of felt in the piece or in shapes, including felt-hat making machines and hat-making blocks:

8440 10	Machinery and appliances for the manufacture of felt	kg.
8440 50	Hat-making machines	kg.
8440 80	Hat-making blocks	kg.
8440 90	Parts and spare parts	kg.

Machinery and appliances for washing, bleaching, dyeing, cleaning or drying textiles and textile goods, n.e.s.; accessories to such machinery and appliances:

Machines and plant for drying textiles and textile goods:

8441 11	For the textile industry	kg.
8441 19	For other industrial purposes	kg.
Other machines and appliances:		
8441 30	For domestic use, excluding electrical machines and appliances (8508 10) and washing centrifuges (8465 10)	kg.
8441 50	For industrial purposes, excluding electrically heated machines and appliances (Chapter 85)	kg.
8441 70	For the textile industry	kg.
Accessories:		
8441 81	Spools for dyeing processes	kg.
8441 89	Other accessories	kg.
Parts and spare parts:		
8441 91	For drying machines	kg.
8441 93	For household washing machines	kg.
8441 95	For laundry, ironing and pressing machines for industrial purposes	kg.
8441 97	For other machines and appliances	kg.

Machines for printing textiles and textile goods, and similar machines:

8442 10	Machines and appliances for printing textiles and textile goods and similar machines	kg.
8442 90	Parts and spare parts	kg.

Machines and appliances for dressing, finishing and making up yarns, woven fabrics or other textile goods; n.e.s.:

8443 10	Machines and appliances for dressing and finishing	kg.
8443 40	Machines for cutting out patterns	kg.
8443 70	Other machines and appliances for making up yarns, woven fabrics or other textile goods, including tissue cutting and cloth pattern cutting machines	kg.
8443 80	Accessories	kg.
8443 90	Parts and spare parts	kg.

XVI. Machinery and mechanical appliances; electrical equipment

Sewing machines of all kinds:

Heads (upper parts):

8444 13	For household sewing machines	kg.& number
8444 15	For sewing machines for the trade (tailors, dress-makers etc.)	kg.& number
8444 17	For industrial sewing machines	kg.& number
Complete sewing machines, whether or not motor powered:		
Household sewing machines:		
8444 31	Hand operated	kg.& number
8444 35	Other household sewing machines	kg.& number
8444 50	Sewing machines for the trade (tailors, dressmakers etc.)	kg.& number
8444 70	Industrial sewing machines	kg.& number
Stands, covers; furniture specially adapted for sewing machines and parts thereof:		
8444 80	Of wood	kg.
8444 84	Of other materials	kg.
Accessories:		
8444 85	Sewing machine needles	kg.
8444 89	Other accessories	kg.
8444 90	Parts and spare parts	kg.

Machinery and appliances for measuring, preparing or working leather, hides or skins or for making goods of leather, hides or skins, n.e.s.:

8445 10	Hide or skin measuring machines and appliances	kg.
8445 30	Boot and shoe making and repairing machines and appliances, excluding sewing machines (8444 15, 8444 17, 8444 50 or 8444 70)	kg.
8445 50	Tanning machines and leather making machines	kg.
8445 70	Other machines and appliances	kg.
8445 90	Parts and spare parts	kg.

Machine-tools, metal-working, n.e.s.:

Operating by removal of metal:

8446 11	Planing, slotting and broaching machines	kg.& number
8446 15	Lathes	kg.& number
8446 21	Turret and capstan lathes, automatic lathes	kg.& number
8446 25	Drilling machines	kg.& number
8446 32	Precision drilling machines, tapping machines, combined drilling and tapping machines	kg.& number
8446 36	Milling machines	kg.& number
8446 41	Sawing and filing machines	kg.& number
8446 45	Grinding machines	kg.& number
8446 51	Gear cutting machines	kg.& number
8446 59	Other machines operating by removal of metal	kg.& number

Operating by deformation without removal of metal:

8446 65	Hammers, forging and auxiliary forging machines, riveting machines, bending and straightening machines for tubes, shafts, bars and profile shapes	kg.& number
8446 67	Mechanically driven metal-working presses	kg.& number
8446 71	Hydraulically driven metal-working presses	kg.& number
8446 76	Wire working and drawing machines	kg.& number
8446 77	Chain manufacturing machines	kg.& number

XVI. Machinery and mechanical appliances; electrical equipment

8446 81	Screw-, nut and rivet making machines	kg.& number
	Sheet-metal working machines:	
8446 82	Hand-lever sheet-metal shears and punches	kg.& number
8446 83	Other, excluding hand-lever sheet-metal shears and punches	kg.& number
8446 89	Other machines, n.e.s., operating by removal of metal or by deformation, excluding can-container and collapsible tube manufacturing machines	kg.& number
8446 91	Machines for making can-containers	kg.& number
8446 95	Machines for making collapsible tubes	kg.& number

Machines for working stone, ceramic material or glass in the cold, n.e.s.:

8447 10	Machines for working stone	kg.& number
8447 50	Machines for working ceramic products	kg.& number
	Machines for working glass in the cold:	
8447 91	For the optical industry	kg.& number
8447 99	For other purposes	kg.& number

Machines for working wood, cork, bone, ebonite and vulcanite, artificial plastic materials or other hard carving materials, n.e.s.:

Machines for working wood:

Saws:

8448 11	Multiple frame saws (complete saws)	kg.& number
8448 13	Parts of frame saws	kg.
8448 19	Other saws	kg.& number
8448 21	Planing and moulding machines	kg.& number
8448 25	Milling machines	kg.& number
8448 31	Drilling machines	kg.& number
8448 35	Tenoning, slot mortising, transversal groove cutting, dovetailing and mortising machines	kg.& number
8448 41	Lathes and copying machines	kg.& number
8448 45	Sanding and polishing machines	kg.& number
8448 47	Combined machines for the working of wood in the way as mentioned in items 8448 11 to 8448 45	kg.& number
8448 51	Veneer and plywood manufacturing machines	kg.& number
8448 59	Other wood working machines, including nailing, assembling, glueing machines or the like	kg.& number
8448 70	Hand-operated wood working machines, excluding those classified within item 8506 11	kg.& number
8448 90	Machines for working cork, bone, ebonite and vulcanite, artificial plastic materials or other hard carving materials	kg.& number

Parts and accessories of machines of a kind falling within items 8446 11 to 8448 90, excluding parts of multiple frame saws (item 8448 13):

8449 10	Work and tool-holders, excluding electromagnetic work and tool-holders (8502 80)	kg.
	Accessory precision appliances for machine tools:	
8449 31	Dividing heads	kg.
8449 39	Other accessory precision appliances	kg.

XVI. Machinery and mechanical appliances; electrical equipment

Other parts and spare parts and other accessories:

For metal working machines:

8449 61	Operating by removal of metal	kg.
8449 66	Operating by deformation without removal of metal	kg.
8449 69	For can-container and collapsible tube manufacturing machines	kg.
8449 71	For machines for working stone and ceramic products	kg.
8449 79	For machines for working glass in the cold	kg.
8449 80	For machines for working wood, cork, bone, ebonite and vulcanite, artificial plastic materials or other hard carving materials	kg.

Pneumatic machines, pneumatic tools and tools with self-contained internal combustion engines, portable, adapted for working in the hand (e.g. drilling, dumping and compressed air riveting machines):

8450 10	Tools with self-contained internal combustion engines	kg. & number
	Pneumatic machines and tools:	
8450 30	For metal-working	kg. & number
8450 50	For mining and for the stone- and earth-working industry	kg. & number
8450 70	For other purposes	kg. & number
	Parts and spare parts:	
8450 91	For tools with self-contained internal combustion engines	kg.
	For pneumatic machines and tools:	
8450 93	For metal working	kg.
8450 95	For mining and for the stone and earth-working industry	kg.
8450 99	For other purposes	kg.

Note.

Pneumatic machines and tools, and tools with self-contained internal combustion engines, not answering the definitions set forth in item 8450 10 to 8450 70 are treated as machine tools according to their type.

Autogenous welding, cutting or surface hardening machines and appliances, including burners, hot metal spray guns and the like:

8451 11	Autogenous welding and cutting appliances, block-joint and oxygen planing torches, point removing torches, flame-torch equipment and the like	kg.
8451 21	Autogenous welding, cutting or autogenous surface hardening machines	kg.
8451 90	Parts and spare parts	kg.

Machinery and appliances for cleaning or drying bottles, drums or other containers, n.e.s., including dishwashing and drying machines:

8452 10	For dairies	kg.
8452 30	For the beverage industry, including breweries and distilleries	kg.
8452 50	For hotels and industrial kitchens etc.	kg.
8452 70	For other purposes	kg.

XVI. Machinery and mechanical appliances; electrical equipment

Parts and spare parts:

8452 91	For dairy machines and appliances	kg.
8452 99	For other machines and appliances	kg.

Machinery and appliances for filling, closing, labelling and capsuling bottles, cans, sacks and other containers for packing or putting up goods, including machinery and appliances for aerating beverages, n.e.s.:

For the beverage industry:

8453 10	Mineral water machines	kg.& number
8453 20	Other machines and appliances for the beverage industry	kg.
8453 50	Can-filling and closing machines, preserving bottle closing machines	kg.
8453 80	Other machines and appliances	kg.
8453 90	Parts and spare parts	kg.

Weighing devices, excluding precision balances of a sensitivity of 50 mg. or better; weights of all kinds:

Special balances and multi-purpose weighing devices:

8454 21	Discharging, packaging and bagging scales	kg.& number
8454 22	Conveyor belt scales	kg.& number
8454 29	Other	kg.& number
8454 31	Household scales and person-weighing scales, of all kinds, platform scales	kg.& number
8454 35	Letter scales	kg.& number

Other scales:

Not automatic:

8454 41	Weigh-bridges for vehicles, motor cars and wagons	kg.& number
8454 42	Decimal balances	kg.& number
8454 43	Sliding, switchable and rolling weight balances	kg.& number
8454 49	Other	kg.

Semi-automatic and automatic:

8454 61	Dial type spring balances	kg.& number
8454 65	Other:	
	With a weighing capacity up to and including 20 kg.	kg.& number
8454 66	With a weighing capacity exceeding 20 kg.	kg.& number

Weights of all kinds:

8454 81	For analytical scales	g.
8454 89	For other scales	kg.

Parts and spare parts:

8454 92	For scales classified within items 8454 31, 8454 35 and 8454 49	kg.
8454 99	For other scales	kg.

Typewriters of all kinds, including cheque writing machines, but not including typewriters incorporating calculation mechanisms:

Typewriters:

8455 10	Portable typewriters	kg.& number
8455 91	Other typewriters	kg.& number
8455 95	Cheque writing machines	kg.& number

XVI. Machinery and mechanical appliances; electrical equipment

Calculating machines, calculating typewriting- and bookkeeping-machines, cash registers and the like, perforated card machines:

Calculating machines, printing or not, with or without registering tape:

Adding machines and appliances:

8456 12	Printing	kg.& number
8456 13	Not printing	kg.& number
8456 19	Other calculating machines	kg.& number
8456 30	Calculating typewriting- and bookkeeping-machines, registering bookkeeping machines	kg.& number
8456 50	Cash registers and recording counters	kg.& number
8456 70	Postage franking machines	kg.& number
8456 80	Combined ticket-printing and registering machines, totalisators and similar machines incorporating a recording and totalling device	kg.& number
8456 90	Perforated card machines, whether or not equipped with alphabets	kg.& number

Office machinery and appliances, n.e.s.:

Duplicating machines and appliances:

8457 11	Blueprint machines and appliances	kg.& number
8457 19	Other duplicating machines and appliances	kg.& number
8457 50	Addressing and address-plate stamping machines	kg.& number
	Other office machinery and appliances:	
8457 71	Letter folding and envelopping machines, strip-cutting machines and the like	kg.& number
8457 90	Small machines and appliances (e.g. mechanical pencil sharpeners, stapling machines and punching machines)	kg.

Parts and accessories of machinery and appliances of a kind falling within items 8455 10 to 8457 90:

8458 10	Calculating devices for calculating typewriting- and bookkeeping-machines	kg.& number
	Other parts and spare parts and other accessories, excluding ribbons (9808 10):	
8458 50	For typewriters	kg.
8458 61	For calculating and bookkeeping machines	kg.
8458 65	For cash registers and recording counters	kg.
8458 69	For perforated card machines	kg.
8458 70	For other machines and appliances	kg.

Automatic vending machines (e.g. post stamp, cigarette, chocolate and food vending machines), excluding slot machines for games of skill or of chance:

8459 10	Automatic vending machines	kg.& number
8459 90	Parts and spare parts	kg.

Lifting and handling machinery, n.e.s.:

For mining:

8460 11	Longwall and drift conveyors	kg.
8460 15	Machinery and equipment for shaft hoisting, mine car circulation and galleries	kg.

XVI. Machinery and mechanical appliances; electrical equipment

8460 19	Other lifting and handling machinery for mining	kg.
	For constructional building:	
8460 21	Cranes with or without excavators	kg.& number
8460 25	Winches and other lifting equipment for construction purposes	kg.& number
8460 29	Other lifting and handling equipment for constructional building	kg.& number
	For other purposes:	
8460 31	Charging and burdening appliances for iron and steel works	kg.
8460 35	Conveying devices for flour milling plants and grain storages	kg.
8460 39	Cranes, excluding hand operated cranes (8460 44), cranes mounted upon vehicles and floating cranes (Chapters 87 and 89)	kg.
8460 41	Lifting devices	kg.
	Small lifting devices, hand operated cranes and car lifts:	
8460 43	Hemp rope blocks, screw- and rack jacks	kg.
8460 44	Other	kg.
8460 46	Lifting stockers with driving and lifting devices powered by electrical batteries	kg.
8460 47	Lifting stackers with driving and lifting devices powered by internal combustion engine	kg.
8460 51	Track and aerial ropeways conveyors	kg.
8460 55	Conveyors for continuous operation, excluding special conveyors for mining, for flour milling plants and grain stores	kg.
	Pneumatic conveyor installations, loading and unloading equipment:	
8460 62	Pneumatic mail dispatch systems	kg.
8460 63	Other pneumatic conveyor installations, loading and unloading equipment, excluding pneumatic conveyors for agricultural purposes (8428 51) and for flour milling plants and grain stores (8460 35)	kg.
8460 65	Elevators	kg.
8460 71	Mechanical lifting and handling devices for theatre stages	kg.
	Parts and spare parts:	
8460 80	Rails for travelling cranes, gantry cranes, bridge cranes, loading bridges, supports for aerial ropeways, without mechanical devices	kg.
	Other parts and spare parts:	
	For mining machines and appliances:	
8460 81	Winding cages for main shafts and winches and pulleys, imported or exported separately	kg.
8460 83	Other	kg.
8460 85	For working machines and appliances for constructional building	kg.
8460 86	For machines and accessories for flour milling plants and grain stores	kg.
	For cranes and hoisting equipment:	
8460 88	Load-lifting equipment (e.g. grabs, automatic grabs, jaws of grabs, crane hooks)	kg.
8460 89	Other	kg.
8460 91	For small hoisting equipment, hand operated cranes and car lifts, other than those falling within item 8460 92	kg.
8460 92	For lifting stackers with driving and lifting devices powered by electrical batteries	kg.

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8460 93	For track and aerial ropeway conveyors	kg.
8460 94	For pneumatic mail dispatch systems	kg.
8460 96	For conveyors for continuous operation, pneumatic conveyor installations, loading and unloading equipment, excluding those classified within item 8460 94	kg.
	For elevators:	
8460 97	Elevator cabins, imported or exported separately	kg.
8460 98	Other	kg.
8460 99	For mechanical handling and lifting devices for theatre stages	kg.

Machinery and appliances, n.e.s. of a kind suitable for earth moving, mining and quarrying, petroleum and deep boring (e.g. mechanical shovels, excavators, scrapers and pile drivers):

8461 10	Petroleum and deep-well drilling equipment, including complete plant	kg.
	Other machines and appliances:	
8461 20	For underground mining	kg.
8461 30	For open-pit mining	kg.
	For constructional building:	
8461 40	Excavators	kg.
8461 50	Ground-levelling, scraping and earthmoving machines and appliances	kg.
8461 60	Rams, excluding hand-operated (8450 10 and 8450 70)	kg.
8461 80	For other purposes	kg.
	Parts and spare parts for machines and appliances:	
8461 90	For petroleum boring and deep-well drilling purposes	kg.
8461 92	For underground mining	kg.
8461 93	For open-pit mining	kg.
8461 95	For constructional building	kg.
8461 99	For other purposes	kg.

Machinery and appliances, n.e.s., of a kind suitable for sorting, screening, grading, washing, dust removing, crushing, pounding, grinding, mixing, pugging, moulding, pressing or casting earth, stone, ores, fuels and other materials:

8462 11	For road construction	kg.
	For building construction:	
8462 16	Concrete and mortar mixers	kg. & number
8462 19	Other machines and appliances for building construction	kg. & number
	For the cement, lime, gypsum, trass and chalk industry:	
8462 21	Complete plant	kg.
8462 24	Machines and appliances	kg.
	For the preliminary treatment of solid mineral products:	
8462 26	Complete plant	kg.
8462 29	Machines and appliances (e.g. hammer type crushers, drum crushers, ball and roller grinders, granulators, jaw crushers, screening machines etc.)	kg.
	For the manufacture of bricks, refractory materials and ceramics:	
8462 31	Complete plant	kg.
8462 34	Machines and appliances	kg.
8462 35	For the manufacture of artificial stones, concrete goods and building slabs for light construction	kg.
8462 37	For the glass industry	kg.

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For the dressing and moulding of ores, coal, peat, potassium salts, salt and other minerals earned by mining:

8462 41	Complete plant	kg.
8462 44	Machines and appliances	kg.
8462 65	For coking plant	kg.
8462 71	For foundries	kg.
8462 79	For other purposes	kg.
	Parts and spare parts for machines and appliances:	
8462 81	For road and building construction	kg.
8462 83	For the cement, lime, gypsum, trass and chalk industry	kg.
8462 84	For the preliminary treatment of solid mineral products	kg.
8462 85	For the manufacture of bricks, refractory materials and ceramics, artificial stones, concrete goods and building slabs for light construction	kg.
8462 86	For the glass industry	kg.
8462 87	For the dressing and moulding of ores, coal, peat and the like	kg.
8462 96	For coking plant	kg.
8462 97	For foundries	kg.
8462 99	For other purposes	kg.

Moulding presses for hardened rubber or artificial plastic materials:

8463 10	Presses, including combined spraying and pressing automatic machinery	kg.
8463 90	Parts and spare parts, excluding moulding, pressure casting and die-casting tools (Chapter 82)	kg.

Presses, hydraulic or not, n.e.s., including filter-presses:

	Filter-presses, with or without pumps:	
8464 11	For the sugar industry	kg.& number
8464 13	For the edible oil and fat industry	kg.& number
8464 15	For the soap industry	kg.& number
8464 19	For other purposes	kg.& number
8464 50	Presses, hydraulic or not, for the textile industry	kg.& number
8464 71	Scrap baling presses	kg.& number
8464 79	Other presses	kg.& number
	Parts and spare parts:	
8464 91	For filter-presses	kg.
8464 95	For presses for the textile industry	kg.
8464 97	For scrap baling presses	kg.
8464 99	For other presses	kg.

Centrifuges (separators, cleansing and similar machinery), n.e.s.:

8465 10	Centrifuges for laundries, excluding electric household washing centrifuges (8508 10)	kg.
8465 20	Centrifuges for laboratories	kg.
	Other centrifuges, excluding cream separators (8425 30):	
8465 73	For the chemical industry	kg.
8465 75	For the textile industry	kg.
8465 79	For other purposes	kg.

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Parts and spare parts:

8465 91	For centrifuges for laundries	kg.
8465 92	For centrifuges for laboratories	kg.
8465 93	For centrifuges for the chemical industry	kg.
8465 95	For centrifuges for the textile industry	kg.
8465 99	For centrifuges for other purposes	kg.

Rolling mills (rolling machines) and calendering machines;
accessories thereof:

8466 10	Rolling mills and mill trains, including tube rolling mills	kg.
	Rolling machines:	
8466 31	For the manufacture of metallic foil	kg.
8466 39	For other purposes	kg.
8466 50	Auxiliary appliances for rolling mills, excluding machines operating by deformation or removal of metal (8446 11 to 8446 95)	kg.
	Calendering machines of all kinds:	
8466 73	For the rubber and artificial plastic material industry	kg.
8466 75	For the textile industry	kg.
8466 77	For the paper industry	kg.
8466 79	For other purposes	kg.

Parts and spare parts and accessories for rolling mills
and calendering machines:

Rolls:

	For rolling mills and rolling machines:	
8466 81	Of cast iron	kg.
8466 82	Of malleable cast iron	kg.
8466 83	Other	kg.
	For textile calendering machines:	
8466 84	Of cast iron	kg.
8466 85	Of malleable cast iron	kg.
8466 86	Other	kg.
	For other calendering machines:	
8466 87	Of cast iron	kg.
8466 88	Of malleable cast iron	kg.
8466 89	Other	kg.

Other parts and spare parts and other accessories:

8466 91	For rolling mills, rolling machines and auxiliary appliances	kg.
8466 93	For rubber and artificial plastic calendering machines	kg.
8466 95	For textile calendering machines	kg.
8466 97	For paper calendering machines	kg.
8466 99	For other calendering machines	kg.

Appliances for atomising and spraying liquids or powders, n.e.s.,
including sand or steam blast appliances and the like:

8467 10	Spray painting equipment and appliances	kg. & number
	Appliances for atomising and spraying liquids or powders:	
8467 31	For the chemical industry	kg. & number
8467 39	For other purposes, excluding milk spray dryers (8420 49) and appliances for atomising insecticides (8427 10)	kg. & number
8467 50	Steam and water jet appliances	kg.

XVI. Machinery and mechanical appliances; electrical equipment

Sand blast appliances:

8467 71	For foundries	kg.& number
8467 79	For other purposes	kg.& number
Parts and spare parts:		
8467 91	For spray painting equipment	kg.
8467 93	For sprayers for the chemical industry	kg.
8467 95	For steam and water jet appliances	kg.
8467 97	For sand blast appliances	kg.
8467 99	For other appliances	kg.

Machinery and appliances of a kind suitable for use in the glass- and the glassware industry, n.e.s., machines for making electric lamp bulbs:

8468 10	For the electric lamp bulb and wireless valve industry	kg.& number
8468 70	Other machines and appliances for the glass industry	kg.& number
Parts and spare parts for machines and appliances:		
8468 91	For the electric lamp bulb and wireless valve industry	kg.
8468 99	For other purposes	kg.

Machinery and appliances, n.e.s., for working or processing rubber (e.g. regenerating, vulcanising, rubber-thread making and air-tube making machinery and appliances):

8469 10	Machines and appliances	kg.
8469 90	Parts and spare parts	kg.

Machinery and appliances of a kind suitable for use in iron smelting works, foundries, steelworks or for the production of non-ferrous metals, n.e.s. (e.g. cupolas, foundry carladles, machines for die-casting under pressure, tube drawing benches; tuyers, converters and mechanically tipping casting ladles):

8470 10	Complete plants for iron smelting works and for the production of non-ferrous metals	kg.
8470 30	Machines and appliances for iron smelting works and for the production of non-ferrous metals	kg.
8470 70	Machines and apparatus for foundries	kg.
8470 81	Ladle cars, hearth cars, pit furnace cover cars and the like for iron and metal smelting works	kg.
8470 87	Mechanically tipping casting ladles and the like	kg.
Parts and spare parts for machines and appliances:		
8470 91	For iron and metal smelting works	kg.
8470 97	For foundries, excluding die-casting and pressure casting tools (8203 17)	kg.

Moulds of all kinds, including upper-dies for metal, glass, rubber or artificial plastic materials:

For iron smelting works:		
8471 11	Of cast iron	kg.
8471 19	Other	kg.
For foundries:		
8471 31	Of cast iron	kg.
8471 39	Other	kg.

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	For the glass industry:	
8471 51	Of cast iron	kg.
8471 59	Other	kg.
	For the rubber industry:	
8471 71	Of cast iron	kg.
8471 79	Other	kg.
	For the artificial plastics industry:	
8471 91	Of cast iron	kg.
8471 99	Other	kg.

Machinery, apparatus and mechanical appliances, n.e.s.:

8472 11	For bakers, pastry-cooks and for the manufacture of macaroni and dough	kg.
8472 13	For the manufacture of sugar confectionery	kg.
8472 15	For butcheries, slaughter-houses and stock-yards	kg.
8472 17	For the beverage industry, excluding filter-presses (8464 19)	kg.
8472 21	For the sugar manufacturing or refining industry	kg.
8472 23	For the manufacture of tobacco products	kg.
8472 25	For canning factories and vinegar and mustard manufacturing industries	kg.
8472 27	For the edible oil and fat industries	kg.
8472 31	For the processing of coffee and tea	kg.
8472 39	For other branches of the food, beverage and tobacco manufacturing industries and for hotels and restaurants, excluding industrial cooking appliances (7346 70)	kg.
8472 41	For the pencil, brush, match and related industries	kg.
8472 45	For fire fighting purposes, excluding fire fighting pumps (8412 13), special vehicles with fire fighting mountings (Chapt. 87), fire extinguishing grenades and charged hand fire extinguishing appliances (3824 50)	kg.
8472 48	For chemical surface-treatment and processing, including complete plant	kg.
8472 49	For the chemical industry, excluding those falling within items 8420 51 to 8420 59	kg.
	For water processing and purifying, including complete plant:	
8472 50	Chemically	kg.
8472 52	Mechanically	kg.
8472 55	For the pharmaceutical industry	kg.
8472 57	For the paint, soap and candle industry	kg.
8472 59	For the manufacture of artificial plastic materials and linoleum and for similar industries	kg.
	For the textile industry:	
8472 61	Machines for the manufacture of cellulose goods and bandages and dressings, excluding those falling within items 8437 10 to 8437 75	kg.
8472 65	Machines and appliances for upholstery work, excluding those falling within items 8436 20 to 8436 60	kg.
8472 69	Other machines, appliances and mechanisms for the textile industry	kg.
	For other purposes:	
8472 71	Coking plants	kg.
8472 75	Machines and appliances for the manufacture of batteries, elements, accumulators, welding electrodes and carbons	kg.
8472 77	All purpose mixing, kneading and sieving machines	kg.
8472 79	Other machines, apparatus and mechanical appliances	kg.

XVI. Machinery and mechanical appliances; electrical equipment

Parts and spare parts for machines and appliances:

8472 91	For the food, beverage and tobacco manufacturing industry	kg.
8472 93	For the pencil, brush, match and related industries	kg.
8472 94	For fire fighting purposes	kg.
8472 95	For the chemical industry, for chemical surface treatment and processing, for water processing and water purifying	kg.
8472 96	For the pharmaceutical industry, paint-, soap- and candle industry	kg.
8472 97	For the manufacture of artificial plastic materials and linoleum and for similar industries	kg.
8472 98	For the textile industry	kg.
8472 99	For other purposes	kg.

Base metal taps, cocks, valves and all mechanisms and appliances of a kind suitable for regulating the flow (liquids, vapor or gas) through pipes, automatic or not:

8473 10	Heavy equipment	kg.
8473 20	Fittings for steam and chemical purposes, excluding shutt-off and check valves and cocks, classified with fittings for fire fighting equipment, heating plant, small and miscellaneous fittings	kg.
8473 30	Heating plant fittings, excluding fittings for grid heating systems (8473 10 and 8473 20)	kg.
8473 40	Fittings for fire fighting equipment	kg.
8473 50	Compressed air fittings	kg.
8473 60	Fittings for pressure gas	kg.
	Small fittings:	
8473 71	Small plumbing fittings, fittings for garden watering and sprinklers	kg.
8473 79	Other (e.g. cocks for gas ranges, miscellaneous fittings for gas ranges and stoves, fittings for sanitary installations, i.e. outlet valves, bathroom mixing faucets, shower nozzles and the like)	kg.
8473 80	Other	kg.

Anti-friction bearings (ball, needle, barrel-shape, and roller bearings of all kinds):

8474 10	Anti-friction bearings, whether or not assembled, excluding cages with balls for bicycles (8711 59)	kg.
	Parts and spare parts:	
8474 92	Calibrated balls, needles and rollers, excluding bicycle balls (8711 59)	kg.
8474 99	Other	kg.

Shafts, gearing and gearingparts, fly wheels, pulleys and other transmission equipment for machinery and appliances, n.e.s., excluding parts of motor vehicles and tractors falling within Chapter 87:

8475 10	Worked transmission shafts of all kinds, excluding straight shafts of constant section (Chapter 73)	kg.
8475 20	Transmissions	kg.
	Pulleys:	
8475 31	Of wood	kg.
8475 39	Other, including fly wheels	kg.

XVI. Machinery and mechanical appliances; electrical equipment

Gearing:		
8475 40	For deep well pumps for oil-well appliances	kg.
Other gearing:		
8475 41	Infinitely variable	kg.
8475 49	Other	kg.
8475 50	Clutches and couplings	kg.
8475 60	Gears for general engineering	kg.
8475 70	Bearing supports and blocks, bearing shells, friction bearings, locking rings and the like	kg.
8475 80	Other equipment for power transmission	kg.
Parts and spare parts:		
For gearing:		
8475 91	Of cast iron	kg.
8475 92	Of malleable cast iron	kg.
8475 93	Other	kg.
For other equipment for power transmission:		
8475 97	Of cast iron	kg.
8475 98	Of malleable cast iron	kg.
8475 99	Other	kg.
8476 00	Gaskets and similar joints of metal; assortments and sets of gaskets and similar joints of different kinds, for engines, vehicles and conduits, put up in pouches, envelopes or similar packings	kg.
Parts of machinery, apparatus and mechanical appliances, n.e.s.:		
Of base metal:		
Unworked:		
Of cast iron, of a weight:		
8477 11	Not exceeding 2000 kg.	kg.
8477 15	Exceeding 2000 kg.	kg.
Of malleable cast iron, of a weight:		
8477 21	Not exceeding 2000 kg.	kg.
8477 25	Exceeding 2000 kg.	kg.
Of other malleable cast iron, of a weight:		
Not exceeding 250 kg:		
8477 27	Drop forgings	kg.
Open-die forgings:		
8477 28	Not exceeding 125 kg.	kg.
8477 29	Exceeding 125 up to and including 250 kg.	kg.
8477 30	Other	kg.
8477 33	Exceeding 250 up to and including 2000 kg.	kg.
8477 35	Exceeding 2000 kg.	kg.
8477 41	Of copper	kg.
8477 45	Of aluminium or magnesium	kg.
8477 49	Of other base metal	kg.
Worked:		
Of cast iron, of a weight:		
8477 51	Not exceeding 2000 kg.	kg.
8477 55	Exceeding 2000 kg.	kg.
Of malleable cast iron of a weight:		
8477 61	Not exceeding 2000 kg.	kg.
8477 65	Exceeding 2000 kg.	kg.

XVI. Machinery and mechanical appliances; electrical equipment

Of other malleable cast iron of a weight:

Not exceeding 250 kg.:

8477 67	Drop forgings	kg.
	Open-die forgings:	
8477 68	Not exceeding 100 kg.	kg.
8477 69	Exceeding 100 up to and including 250 kg.	kg.
8477 70	Other	kg.
8477 73	Exceeding 250 up to and including 2000 kg.	kg.
8477 75	Exceeding 2000 kg.	kg.
8477 81	Of copper	kg.
8477 83	Of nickel	kg.
8477 85	Of aluminium or magnesium	kg.
8477 89	Of other base metal	kg.
8477 91	Of wood	kg.
8477 99	Of other materials	kg.

XVI. Machinery and mechanical appliances; electrical equipment

Chapter 85

Electrical machinery, appliances
and other electrical equipment

General note.

This chapter does not include:

- a) Electrical tools, machine tools, vacuum cleaners, floor-polishing machines, washing machines, washing and drying machines, wringing machines and fans not falling within items 8506 11 to 8510 90; electrical pumps, refrigerators, electrically operated lifting, hoisting and mining machinery; other working and mechanical apparatus and appliances, electrically operated, not specified by name (Chapter 84);
- b) Electric locomotives and electric rail coaches (Chapter 86);
- c) Electric tractors and motor vehicles; electric trucks (Chapter 87);
- d) Sound film apparatus, electricity supply meters, electro-medical apparatus in which electricity merely provides the transmissive power or the motive force (Chapter 90), and electrical measuring instruments of a kind falling within items 9028 11 to 9028 90);
- e) Electrical clocks (Chapter 91);
- f) Electrical sound recorders and reproducers and parts thereof; pianos and organs with electric, electro-acoustic or radio-electric means of producing or amplifying sound (Chapter 92);
- g) Toys and games (Chapter 97);
- h) Electrical lighters (gas and other) (Chapter 98).

Electrical generators and motors, transformers, converters and similar machinery and apparatus, n.e.s.:

Electrical generators and motors of:

8501 12	0,5 kilowatts or kilovoltamperes respectively or less	kg.& number
8501 19	Over 0,5 up to and including 10 kilowatts or kilovoltamperes respectively	kg.& number
8501 21	Over 10 up to and including 100 kilowatts or kilovoltamperes respectively	kg.& number
	Over 100 up to and including 1000 kilowatts or kilovoltamperes respectively:	
8501 25	Generators	kg.& number
8501 27	Motors	kg.& number
	Over 1000 up to and including 6000 kilowatts or kilovoltamperes respectively:	
8501 31	Generators	kg.
8501 33	Motors	kg.
	Over 6000 kilowatts or kilovoltamperes respectively:	
8501 35	Generators	kg.
8501 37	Motors	kg.

XVI. Machinery and mechanical appliances; electrical equipment

		Rotary converters (e.g. synchronous converters, motor-generators, frequency machines, rotary phase advancers:	
8501 41	Of 1000 kilowatts or less		kg.& number
8501 43	Exceeding 1000 kilowatts		kg.& number
	Complete generating sets:		
	Steam turbine generator sets of a capacity:		
8501 50	Of 6000 kilowatts or less		kg.
8501 56	Exceeding 6000 kilowatts up to and including 40 000 kilowatts		kg.
8501 60	Exceeding 40 000 kilowatts		kg.
	Complete piston-type machine-sets powered by internal-combustion engines of a capacity:		
8501 61	Of 100 kilowatts or less		kg.
8501 62	Exceeding 100 kilowatts up to and including 1000 kilowatts		kg.
8501 63	Exceeding 1000 kilowatts		kg.
	Complete piston-type machine-sets powered by steam-engines of a capacity:		
8501 64	Of 100 kilowatts or less		kg.
8501 65	Exceeding 100 kilowatts up to and including 1000 kilowatts		kg.
8501 66	Exceeding 1000 kilowatts		kg.
	Other complete generating sets (e.g. powered by water-power-engines or wind motors) of a capacity:		
8501 67	Of 100 kilowatts or less		kg.
8501 68	Exceeding 100 kilowatts up to and including 1000 kilowatts		kg.
8501 69	Exceeding 1000 kilowatts		kg.
	Transformers (e.g. output transformers, instrument-transformers, frequency-transformers, earth coils and short-circuit coils as well as choke coils), excluding welding transformers (8514 13):		
	Current transformers for a tension:		
8501 71	Not exceeding 30 kv.		kg.& number
8501 72	Exceeding 30 kv.		kg.& number
	Voltage transformers for a tension:		
8501 73	Not exceeding 30 kv.		kg.& number
8501 74	Exceeding 30 kv.		kg.& number
8501 75	Choke coils (short-circuit coils, earth coils and the like)		kg.
8501 76	Bell-transformers of a capacity up to 1 kilovoltampere single-phase or 1,5 kilovoltamperes three-phase		kg.
	Other transformers, of a capacity:		
8501 77	Not exceeding 1600 kilovoltamperes		kg.& number
8501 78	Exceeding 1600 up to and including 10 000 kilovoltamperes		kg.
8501 79	Exceeding 10 000 kilovoltamperes		kg.
	Converters, excluding rectifying valves:		
8501 81	Converters with iron or glass containers		kg.
8501 85	Mechanical converters (e.g. contact rectifiers)		kg.& number
8501 87	Selenium and copper-oxide rectifiers		kg.
8501 89	Other converters (e.g. thermionic rectifiers)		kg.
	Parts and spare parts:		
8501 91	Casings for electric generators, motors or rotary converters, whether or not fitted with unwound stators; unwound rotors and stators		kg.

XVI. Machinery and mechanical appliances; electrical equipment

Other parts and spare parts:

8501 95	For generators, motors and rotary converters	kg.
8501 97	For transformers	kg.
8501 98	For converters	kg.

Note.

When exported, complete power stations fall under item 8538 00.

Electro-magnet operated appliances, n.e.s.:

8502 10	Electro-magnets for lifting loads	kg.
8502 80	Other (e.g. magnetic chucks, electro-magnetic brakes and brake-lifting electro-magnets, electro-magnetic clutches, electro-magnetic separators, electro-magnetic hammers and vibrators)	kg.
8503 00	Magnets	kg.

Primary cells and batteries:

8504 10	Wet cells	kg.
	Dry cells:	
8504 81	Plate-batteries and plate-cells	kg.
8504 89	Other dry cells and dry batteries	kg.
8504 90	Parts and spare parts (e.g. carbon bags, zinc sleeves, zinc containers)	kg.

Electric accumulators:

	Lead-acid accumulators:	
8505 11	Stationary accumulators	kg.
8505 19	Other lead-acid accumulators (e.g. batteries for motor vehicles)	kg.
8505 80	Alcaline and other accumulators	kg.
	Parts:	
	Plates:	
8505 91	For lead-acid accumulators	kg.
8505 94	For alkaline and other accumulators	kg.
	Casings and other parts:	
8505 95	Made of glass	kg.
8505 96	Made of hardened rubber or of artificial plastic material	kg.
8505 99	Made of other material	kg.

Electrically operated tools and machine tools, n.e.s. portable or adapted for working in the hand:

8506 11	Only adapted for woodworking (e.g. chain saws and band saws, circular saws, planing machines, chain moulding- and mortising machines, grinding and polishing machines, all these hand operated)	kg. & number
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XVI. Machinery and mechanical appliances; electrical equipment

8506 15	For working other materials (e.g. boring machines, hand operated, sheet metal cutters <u>shear type</u> , screw-drivers, thread cutters, hammers, stampers and vibrators, motors with flexible shaft, cutting-out machines, hand operated, and other electric tools and machine tools), excluding electro-magnetic tools (8502 80)	kg.& number
	Parts and spare parts for electric tools and machine tools:	
8506 91	For wood-working	kg.
8506 95	For working of other materials	kg.

Electrically operated domestic type vacuum cleaners and floor polishing machines:

8507 10	Vacuum cleaners	kg.& number
8507 50	Floor polishing machines, including those with a waxing attachment	kg.& number
8507 90	Parts and spare parts	kg.

Electrically operated domestic type washing machines, combined washing, dish-washing and drying machines and electrically operated wringers with or without heating elements:

8508 10	Complete machines	kg.& number
8508 90	Parts and spare parts	kg.

Electric fans of a power not exceeding 600 watts:

8509 10	Ventilators (e.g. ring mounted fans for building into walls, table fans, ceiling fans), excluding blowers	kg.& number
8509 90	Parts and spare parts	kg.

Electro-mechanical domestic appliances, n.e.s., of a weight not exceeding 15 kg.:

8510 80	Electro-mechanical domestic appliances (e.g. coffee grinders, knife cleaners, cream whippers and egg beaters, food mixers)	kg.
8510 90	Parts and spare parts	kg.

Electric shavers, hair clippers and other clipping apparatus:

8511 10	Electric shavers, hair clippers and other clipping apparatus	kg.
8511 90	Parts and spare parts, excluding knives and blades (8205 91 to 8205 99)	kg.

Electrical ignition equipment for internal combustion engines:

8512 10	Magnetos of all kinds, including dynamo-magnetos	kg.
8512 70	Other ignition equipment (e.g. distributors and coils)	kg.
8512 80	Parts and accessories of magnetos and other ignition equipment (e.g. contact breakers, distributor heads)	kg.
8512 90	Sparking plugs, glow plugs, and parts thereof	kg.

XVI. Machinery and mechanical appliances; electrical equipment

Electrical equipment for cycles, motor vehicles, aircraft, ships or other vehicles, n.e.s.:

Starters:

8513 11	For motor vehicles	kg.& number
8513 19	For other vehicles	kg.& number

Dynamos:

8513 21	For cycles	kg.& number
8513 22	For motor cycles and other motor vehicles	kg.& number
8513 29	For other vehicles	kg.& number

Headlights, side lights, tail lights and the like:

For cycles:

8513 33	Combined with dynamo as a set	kg.
8513 34	Other	kg.
8513 35	For motor cycles	kg.
8513 36	For other motor vehicles	kg.
8513 39	For other vehicles	kg.
8513 50	Signalling equipment	kg.

Other appliances (e.g. windscreen wipers, demisters and defrosters and the like):

8513 81	For motor vehicles	kg.
8513 89	For other vehicles	kg.
8513 90	Parts and spare parts for electrical equipment	kg.

Electro-thermic apparatus:

Electric welding machines and apparatus of all kinds:

8514 11	Arc welding apparatus, including converters	kg.& number
8514 13	Arc welding transformers and arc rectifiers	kg.& number

Resistance welding machines:

8514 15	Butt-welders	kg.
8514 16	Spot-welders	kg.
8514 17	Seam-welders	kg.

8514 19	Other electrical welding apparatus (e.g. small type welding apparatus, marking appliances)	kg.
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8514 21	Welding apparatus for plastic materials	kg.& number
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8514 25	Electric soldering apparatus and machines (e.g. soldering irons, band saw brazing devices)	kg.
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Electric furnaces and ovens for industrial purposes:

8514 32	Resistance heated furnaces used for industrial purposes, for annealing, drying, hardening or melting	kg.
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8514 33	Infra-red drying equipment	kg.
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8514 36	Electric arc and induction-type melting furnaces	kg.
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8514 37	Induction installations for treating materials in alternative fields (induction heating installations based on line-, medium- or high-frequency)	kg.
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8514 39	Laboratory and small-type furnaces (including dental furnaces) up to 50 kg. by weight	kg.
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8514 40	Electric furnaces for industrial purposes (e.g. bakers' ovens, industrial cooking appliances, frying pans, ranges), whether or not fitted with fire bricks	kg.
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Electric ovens, stoves and boiling plates of a kind used for domestic cooking:

8514 50	Kitchen ranges, including combined ranges	kg.& number
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8514 52	Small-type ranges with oven (suitable to be put on tables, stands and the like)	kg.& number
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8514 53	Hot-plates, two burner type, and table-styled stoves (without oven)	kg.& number
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XVI. Machinery and mechanical appliances; electrical equipment

8514 55	Hot-plates, single burner type	kg.& number
8514 59	Other electric stoves (e.g. heaters, radiators)	kg.
	Electric irons:	
8514 62	With temperature regulator	kg.& number
8514 63	Other electric irons	kg.& number
8514 65	Electric heating appliances made of porcelain and with resistances inbedded in the ceramic material	kg.
	Other electric heating appliances, n.e.s.:	
8514 71	Water boiling saucepans, urns etc.	kg.& number
8514 72	Electric frying and baking appliances (e.g. baking hoods, frying ovens)	kg.& number
8514 73	Heating pads and heating mats	kg.& number
8514 75	Hot-air douches and hand dryers	kg.& number
8514 76	Domestic coffee and tea makers	kg.& number
8514 78	Toasters, waffle irons and similar thermo-electric appliances	kg.
8514 81	Hot-water storage tanks and electric water heaters instantaneous type	kg.& number
8514 82	Immersion heaters up to 1000 watts	kg.& number
8514 83	Immersion heaters (over 1000 watts)	kg.& number
8514 84	Large-capacity coffee makers with an effective capacity of more than 2 litres	kg.& number
8514 85	Permanent waving apparatus	kg.& number
8514 86	Hairdressers drying hoods	kg.& number
8514 87	Ironing machines	kg.& number
8514 89	Other electric heating appliances (glue-cookers, incubators, sterilisators, fodder evaporizers)	kg.
	Parts and spare parts:	
8514 91	Electric heating elements	kg.
	Other parts and spare parts:	
8514 92	For welding appliances and welding machines	kg.
8514 93	For industrial electric furnaces	kg.
8514 99	For other electric heating appliances	kg.
8515 00	Electric arc lamps	kg.

Portable electric lamps with self-contained source of energy (with primary cells or batteries, with accumulators, magneto-lamps and the like) and cases for such lamps:

8516 10	Pocket lamps and cases thereto	kg.
8516 80	Other portable electric lamps	kg.

Radiological apparatus and accessories thereto:

8517 10	Radiological apparatus for medical and other purposes	kg.
8517 91	X-ray tubes and rectifier valves	kg.& number
8517 99	Screens and other radiological accessories and parts	kg.

Electrical apparatus for medical, surgical, dental or veterinary purposes, other than apparatus in which electricity merely provides the power for transmission or the motive force:

8518 10	Apparatus for thermal and light therapy (e.g. light-bath lamps, sunray lamps, quartz lamps and the like)	kg.
8518 51	Electro-cardiographs and electro-encephalographs	kg.

XVI. Machinery and mechanical appliances; electrical equipment

High-frequency apparatus for medical purposes:		
8518 52	For diathermy, shortwave and ultra-short wave therapeutic treatment	kg.
8518 53	Other high-frequency apparatus	kg.
8518 54	Ultrasonic apparatus for medical purposes	kg.
8518 59	Other electro-medical apparatus (e.g. for faradization, galvanization, cauterization, coagulation, endoscopy)	kg.
8518 70	Electro-dental apparatus, excluding dental furnaces (8514 39) and dental drilling instruments (Chapter 90)	kg.
8518 90	Parts and spare parts	kg.

Electrical line telephonic and telegraphic apparatus, n.e.s.:

Suitable only for use in telephony:		
8519 10	Apparatus and appliances for long distance communication (e.g. carrier-frequency installations, whether or not on high tension transmission lines, transmission line amplifiers, apparatus for high-frequency wire telecommunication)	kg.
8519 20	Other telephone appliances and installations (telephone apparatus and telephone exchange equipment for long- and short distance, including telephon installations for buildings, mines, ships etc.)	kg.
	For use in telegraphy or for other purposes (excluding wireless transmission):	
8519 50	Equipment for picture telegraphy	kg.
8519 60	Teletype and telegraph apparatus	kg.
8519 70	Switchboard and exchange apparatus and transmission equipment for teletype and telegraphy	kg.
8519 80	Other equipment for wire telecommunication (e.g. devices for remote control, remote operation and remote measuring with carrier-frequency currents, whether or not transmitted by high-tension lines), excluding regulating and controlling devices, automatically operated	kg.
	Parts and spare parts:	
8519 91	For telephone apparatus	kg.
8519 99	For telegraphy and other wire telecommunication apparatus	kg.

Microphones, electric amplifiers and loud-speakers for all purposes:

8520 10	Microphones (e.g. table-, stand-, piezo-electric-, ribbon-, condenser- and dynamic microphones)	kg.
8520 30	Audio-frequency amplifiers, (microphone amplifiers, power amplifiers, general-purpose amplifiers, speech amplifiers), whether or not with built-in loud-speaker	kg.
8520 50	Loud-speakers	kg. & number
8520 90	Parts and spare parts	kg.

8521 00	Electric hearing aid appliances designed for the use of the deaf	kg.
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XVI. Machinery and mechanical appliances; electrical equipment

High-frequency equipment for wireless transmitting and receiving, including parts and accessories thereof, n.e.s.:

8522 12	Complete stations for radio-transmitting and television	kg.
8522 14	Transmitters for radio or television, including relay stations	kg.
8522 22	Complete radio stations, excluding broadcasting or television stations	kg.
	Radio apparatus (transmitters, transmitter-receivers, receivers), excluding apparatus suitable for broadcasting or television:	
8522 23	Stationary	kg.
8522 25	Mobile	kg.
	Television and radio broadcasting receivers, whether or not combined with record players or other sound recorders or sound reproduction apparatus:	
	Radio receiving sets:	
8522 52	Portable receiving sets	kg.& number
8522 53	Automobile receiving sets	kg.& number
8522 54	Other radio receivers	kg.& number
8522 55	Television sets combined with radio receiving parts	kg.& number
8522 70	Other high-frequency apparatus (e.g. devices for remote control, radio-location, radio position and direction finding and the like; television cameras and relay apparatus for direct transmission and the like)	kg.
	Accessories, parts and spare parts:	
	Cabinets, cases and parts thereof:	
8522 81	Of wood	kg.
8522 89	Of other materials	kg.
8522 91	Aerials for radio and television reception	kg.
8522 94	Semi-conductors for high frequency (e.g. cristal diodes and triodes)	kg.
	Other parts and spare parts:	
8522 95	For radio and television receivers	kg.
8522 99	For other apparatus	kg.

Supersonic or electromagnetic echo sounding apparatus and detectors:

8523 10	Supersonic or electromagnetic echo sounding apparatus and detectors (e.g. geophysical measuring instruments, apparatus for material testing and supersonic instruments for echo sounding)	kg.
8523 90	Parts and spare parts	kg.

Electric signalling and safety apparatus, signalling and safety apparatus for traffic control, n.e.s.:

8524 10	For railways (e.g. safety devices for shunting, for signal boxes, railway stations and track control)	kg.
8524 30	Signalling equipment for road-, sea- and air traffic	kg.
8524 50	Bell- and signalling equipment and indicator boards of a type suitable for domestic, office or hotel use and the like	kg.
8524 81	Long-distance signalling equipment and signalling devices for mines.	kg.
8524 89	Other electrical signalling and safety instruments (e.g. burglar and fire alarms and the like)	kg.
8524 90	Parts and spare parts	kg.

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Electrical apparatus, n.e.s.:

8525 11	Apparatus and equipment for electro-deposition	kg.
8525 15	Apparatus and equipment used in electrolysis	kg.
8525 50	Electro-physical appliances (e.g. ultrasonic equipment and ultra-violet irradiation apparatus excepting such for medical purposes)	kg.
8525 60	Industrial high-frequency generators (e.g. thermionic generators for thermal therapy)	kg.
8525 80	Other electrical instruments	kg.
8525 90	Parts and spare parts	kg.

Electric condensers:

Heavy current condensers:

Fixed condensers:

8526 11	Phase-shifting condensers and power condensers for engines	kg.
8526 19	Other fixed condensers	kg.
8526 30	Regulating condensers	kg.
	Condensers for teletransmission and high-frequency engineering:	
8526 51	Electrolytic condensers	kg.
8526 59	Roll-type condensers and blocking condensers, whether or not with a dielectric of ceramic material	kg.
8526 70	Other (e.g. variable or regulating condensers)	kg.

Electric current or tension controlling, regulating or distributing apparatus, n.e.s.; fixed resistances, excluding heating resistors:

Complete switchboards and distribution boards, including units for control desks and the like:

For high tension:

8527 11	Of 30 kv. or less	kg.
8527 12	Exceeding 30 kv.	kg.
8527 15	For low tension	kg.

High-tension switch gears for working voltage of more than 750 volts:

Power switches:

8527 21	Of 30 kv. or less	kg.
8527 22	Exceeding 30 kv.	kg.

Disconnecting switches:

8527 23	Of 30 kv. or less	kg.
8527 24	Exceeding 30 kv.	kg.

8527 25	High-tension fuses and fuse wire inserts	kg.
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8527 27	Drive- and control-appliances for high-tension gear	kg.
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8527 29	Other high tension gear	kg.
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8527 30	Low-tension switch gear for working voltage up to 750 volts (e.g. knife switches, drum switches and press-button switches, current-limiters, overload releases, disconnecting-, charging- and accumulator-switches, enclosed plug-connectors, time-limit switches without clockwork)	kg.
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8527 50	Installation equipment for a tension up to 750 volts (e.g. switches, sockets, couplers, fittings, distribution boards, fuse elements, terminal blocks)	kg.
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8527 62	Hand operated starters and regulators (e.g. air-, oil-, liquid starters, controllers and traction switches)	kg.
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XVI. Machinery and mechanical appliances; electrical equipment

8527 63	Regulating resistances for tele-communication, high-frequency and audio-frequency engineering for means of measuring, checking, calibrating etc.	kg.
	Automatic regulators and controllers, including complete regulating and controlling devices:	
8527 66	For regulating electrical quantities (e.g. voltage regulators, frequency relays, amperage regulators)	kg.
8527 67	For the regulation of non-electrical quantities (e.g. thermostat regulators, pressure regulators)	kg.
8527 68	Other automatic regulators and controllers	kg.
8527 71	Over-voltage protectors, cathode drop arresters	kg.
8527 75	Safety-, auxiliary- and control-relays	kg.
	Fixed resistances excluding heating resistors and heating elements:	
8527 81	For heavy-current engineering (e.g. loading resistances for railway-working, crane and loading operations)	kg.
8527 85	For tele-communication, high- or audio-frequency engineering and for means of measuring, checking, calibrating etc. as well as for other purposes (e.g. wire resistances layer resistances, semi-conductor resistances depending on temperature and tension) excluding iron-hydrogen resistance tubes (8534 83)	kg.
	Parts and spare parts:	
8527 92	For high-tension switch gear	kg.
8527 93	For low-tension switch gear	kg.
8527 96	For starters and regulators	kg.
8527 97	For other current and tension protection appliances	kg.
8527 99	For other appliances	kg.
	Insulated wire, cabling and bars for electrical engineering purposes, including wires, insulated solely with varnish, lacquer, metallic salts or metallic oxides such as lacquered, enamelled or anodised wire:	
8528 10	Fitted with connectors	kg.
	Without connectors:	
	Cables:	
8528 31	Communication cables	kg.
	Power current cables:	
8528 36	Up to and including 1000 volts	kg.
8528 37	Exceeding 1000 volts	kg.
8528 39	High-frequency transmitting and receiving cables	kg.
	Wires, cords and lines:	
8528 61	Communication cables	kg.
	Power current lines, insulated by:	
8528 66	Rubber	kg.
8528 67	Artificial plastic material	kg.
8528 68	Other material	kg.
8528 71	Lacquered and enamelled wire	kg.
8528 75	Braided wire	kg.
8528 79	Other wire, cords and lines	kg.
	Parts and articles of agglomerated or annealed coal or graphite for electrical purposes, whether or not combined with metals:	
8529 10	Electrodes for electric arc lamps including graphite-electrodes (e.g. lighting carbons)	kg.
8529 20	Elemental carbons (e.g. battery carbons)	kg.

XVI. Machinery and mechanical appliances; electrical equipment

8529 30	Electrodes for electric furnaces for heating and welding and carbons of a kind used for electrolysis	kg.
8529 40	Blocks, plates or bars of carbon for the manufacture of carbon brushes	kg.
8529 50	Carbon brushes for electrical machinery and apparatus	kg.
8529 60	Microphone carbons	kg.
8529 80	Other parts and articles (e.g. carbon tubes, carbon rings, carbon filaments, lightning protection carbon)	kg.

Insulators with or without metal fittings:

8530 10	Of glass	kg.
	Of ceramic material, steatite, fused magnesia or similar materials:	
8530 31	Without metal fittings	kg.
	Combined with metal fittings:	
8530 35	High-tension overhead line insulators, excluding station and apparatus insulators	kg.
8530 37	Telephone-, telegraph- and lighting circuit insulators for low tension	kg.
8530 39	Other insulators	kg.
8530 50	Of artificial plastic material	kg.
8530 90	Of other material (e.g. asbestos, mica)	kg.

Insulating parts for electrical machinery, appliances or equipment, not combined with metal, excluding insulators:

8531 10	Of glass	kg.
8531 30	Of ceramic material, steatite, fused magnesia, or similar materials	kg.
8531 50	Of artificial plastic material	kg.
8531 90	Of other material (e.g. asbestos, mica)	kg.

Conduit tubing and joints, insulated or of insulating material, including such made of paper, bakelised paper or the like, excluding tubes and joints of rubber or artificial plastic material:

8532 10	Iron sheathed	kg.
8532 50	Steel sheathed	kg.
8532 90	Other insulating tubes and joints	kg.

Note.

Insulating tubes and joints made of rubber fall within Chapter 40, such of artificial plastic material - bakelised paper excepted - are classified in Chapter 39.

Electric lighting lamps bulbs and tubes:

	Incandescent lamps (with filament), evacuated or gas filled:	
8533 11	Of 20 volts or more	kg.& number
8533 15	Under 20 volts	kg.& number
8533 20	Luminescent lamps, luminescent tubes and fluorescent tubes (Neon tubes)	kg.& number

XVI. Machinery and mechanical appliances; electrical equipment

8533 30	Glow discharge lamps	kg.& number
8533 40	Mercury vapour lamps and sodium vapour lamps	kg.& number
8533 80	Magnesium lamps and other lamps (e.g. gas filled mixed lamps, ultra-flash light tubes, flashing discharge lamps used for photography)	kg.& number
8533 90	Parts of lamps and tubes, n.e.s. (e.g. caps, filament supports for electric light bulbs)	kg.
Electric tubes, not for lighting, n.e.s., (e.g. transmitting, receiving and amplifying tubes, rectifying tubes /vacuum or gas type/, photo-electric cells /vacuum or gas type/, television-, voltage regulating- and current regulating tubes):		
8534 11	Transmitting valves, air- or water-cooled Receiving and amplifying tubes, rectifying tubes (small type):	kg.& number
8534 13	For radio and television receivers	kg.& number
8534 17	For other apparatus	kg.& number
8534 81	Cathode ray tubes (including television tubes)	kg.& number
8534 83	High-tension rectifying tubes; tension and current regulating tubes (e.g. stabilizers, iron-hydrogen resistance tubes)	kg.& number
8534 89	Other tubes (e.g. magnetrons, klystrons, photo-electric cells, Geiger-Müller tubes, electrometer tubes, secondary electron multiplying tubes)	kg.& number
8534 90	Parts	kg.
8535 00	Electric parts of machinery and appliances, n.e.s.	kg.

Note.

This item covers only articles, which are demonstrably parts of electrical machinery or appliances, because they incorporate connectors, insulated parts, coils, electrical contacts or other electrical features.

Parts of electrical machinery or appliances, which are not elsewhere specified or included fall within Chapter 84.

Only for exports

Lamps without self-contained source of current:

Lamps for indoor lighting:

8536 11	Chandeliers of crystal glass or of ground glass	kg.
8536 19	Other indoor lighting fixtures	kg.
8536 50	Special purpose lighting fixtures for filament bulbs	kg.
8536 70	Special purpose lighting fixtures for discharge lamps	kg.

Cable and current line fittings and accessories:

8537 10	Cable fittings	kg.
8537 50	Conductor rail- and overhead line fittings and accessories	kg.
8538 00	Complete power stations	kg.