

Chapter 90

Optical, photographic, cinematographic, measuring, checking, precision, medical or surgical instruments and apparatus; parts and accessories thereof

Notes.

1.- This Chapter does not cover :

- (a) Articles of a kind used in machines, appliances or for other technical uses, of vulcanised rubber other than hard rubber (heading 40.16), of leather or of composition leather (heading 42.04) or of textile material (heading 59.11);
- (b) Supporting belts or other support articles of textile material, whose intended effect on the organ to be supported or held derives solely from their elasticity (for example, maternity belts, thoracic support bandages, abdominal support bandages, supports for joints or muscles) (Section XI);
- (c) Refractory goods of heading 69.03; ceramic wares for laboratory, chemical or other technical uses, of heading 69.09;
- (d) Glass mirrors, not optically worked, of heading 70.09, or mirrors of base metal or of precious metal, not being optical elements (heading 83.06 or Chapter 71);
- (e) Goods of heading 70.07, 70.08, 70.11, 70.14, 70.15 or 70.17;
- (f) Parts of general use, as defined in Note 2 to Section XV, of base metal (Section XV) or similar goods of plastics (Chapter 39);
- (g) Pumps incorporating measuring devices, of heading 84.13; weight-operated counting or checking machinery, or separately presented weights for balances (heading 84.23); lifting or handling machinery (headings 84.25 to 84.28); paper or paperboard cutting machines of all kinds (heading 84.41); fittings for adjusting work or tools on machine-tools, of heading 84.66, including fittings with optical devices for reading the scale (for example, "optical" dividing heads) but not those which are in themselves essentially optical instruments (for example, alignment telescopes); calculating machines (heading 84.70); valves or other appliances of heading 84.81;
- (h) Searchlights or spotlights of a kind used for cycles or motor vehicles (heading 85.12); portable electric lamps of heading 85.13; cinematographic sound recording, reproducing or re-recording apparatus (heading 85.19 or 85.20); sound-heads (heading 85.22); still image video cameras, other video camera recorders and digital cameras (heading 85.25); radar apparatus, radio navigational aid apparatus or radio remote control apparatus (heading 85.26); numerical control apparatus of heading 85.37; sealed beam lamp units of heading 85.39; optical fibre cables of heading 85.44;
- (ij) Searchlights or spotlights of heading 94.05;
- (k) Articles of Chapter 95;
- (l) Capacity measures, which are to be classified according to their constituent material; or
- (m) Spools, reels or similar supports (which are to be classified according to their constituent material, for example, in heading 39.23 or Section XV).

2.- Subject to Note 1 above, parts and accessories for machines, apparatus, instruments or articles of this Chapter are to be classified according to the following rules :

- (a) Parts and accessories which are goods included in any of the headings of this Chapter or of Chapter 84, 85 or 91 (other than heading 84.85, 85.48 or 90.33) are in all cases to be classified in their respective headings;
- (b) Other parts and accessories, if suitable for use solely or principally with a particular kind of machine, instrument or apparatus, or with a number of machines, instruments or apparatus of the same heading (including a machine, instrument or apparatus of heading 90.10, 90.13 or 90.31) are to be classified with the machines, instruments or apparatus of that kind;
- (c) All other parts and accessories are to be classified in heading 90.33.

3.- The provisions of Note 4 to Section XVI apply also to this Chapter.

4.- Heading 90.05 does not apply to telescopic sights for fitting to arms, periscopic telescopes for fitting to submarines or tanks, or to telescopes for machines, appliances, instruments or apparatus of this Chapter or Section XVI; such telescopic sights and telescopes are to be classified in heading 90.13.

5.- Measuring or checking optical instruments, appliances or machines which, but for this Note, could be classified both in heading 90.13 and in heading 90.31 are to be classified in heading 90.31.

6.- For the purposes of heading 90.21, the expression “orthopaedic appliances” means appliances for :

- Preventing or correcting bodily deformities; or
- Supporting or holding parts of the body following an illness, operation or injury.

Orthopaedic appliances include footwear and special insoles designed to correct orthopaedic conditions, provided that they are either (1) made to measure or (2) mass-produced, presented singly and not in pairs and designed to fit either foot equally.

7.- Heading 90.32 applies only to :

- (a) Instruments and apparatus for automatically controlling the flow, level, pressure or other variables of liquids or gases, or for automatically controlling temperature, whether or not their operation depends on an electrical phenomenon which varies according to the factor to be automatically controlled, which are designed to bring this factor to, and maintain it at, a desired value, stabilised against disturbances, by constantly or periodically measuring its actual value; and
- (b) Automatic regulators of electrical quantities, and instruments or apparatus for automatically controlling non-electrical quantities the operation of which depends on an electrical phenomenon varying according to the factor to be controlled, which are designed to bring this factor to, and maintain it at, a desired value, stabilised against disturbances, by constantly or periodically measuring its actual value.

Heading	H.S. Code	
90.01		Optical fibres and optical fibre bundles; optical fibre cables other than those of heading 85.44; sheets and plates of polarising material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked.
	9001.10	- Optical fibres, optical fibre bundles and cables
	9001.20	- Sheets and plates of polarising material
	9001.30	- Contact lenses
	9001.40	- Spectacle lenses of glass
	9001.50	- Spectacle lenses of other materials
	9001.90	- Other
90.02		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked.
		- Objective lenses :
	9002.11	-- For cameras, projectors or photographic enlargers or reducers
	9002.19	-- Other
	9002.20	- Filters
	9002.90	- Other
90.03		Frames and mountings for spectacles, goggles or the like, and parts thereof.
		- Frames and mountings :
	9003.11	-- Of plastics
	9003.19	-- Of other materials
	9003.90	- Parts

90.04	9004.10 9004.90	Spectacles, goggles and the like, corrective, protective or other. - Sunglasses - Other
90.05	9005.10 9005.80 9005.90	Binoculars, monoculars, other optical telescopes, and mountings therefor; other astronomical instruments and mountings therefor, but not including instruments for radio-astronomy. - Binoculars - Other instruments - Parts and accessories (including mountings)
90.06	9006.10 9006.20 9006.30 9006.40 9006.51 9006.52 9006.53 9006.59 9006.61 9006.62 9006.69 9006.91 9006.99	Photographic (other than cinematographic) cameras; photographic flashlight apparatus and flashbulbs other than discharge lamps of heading 85.39. - Cameras of a kind used for preparing printing plates or cylinders - Cameras of a kind used for recording documents on microfilm, microfiche or other microforms - Cameras specially designed for underwater use, for aerial survey or for medical or surgical examination of internal organs; comparison cameras for forensic or criminological purposes - Instant print cameras - Other cameras : -- With a through-the-lens viewfinder (single lens reflex (SLR)), for roll film of a width not exceeding 35 mm -- Other, for roll film of a width less than 35 mm -- Other, for roll film of a width of 35 mm -- Other - Photographic flashlight apparatus and flashbulbs : -- Discharge lamp ("electronic") flashlight apparatus -- Flashbulbs, flashcubes and the like -- Other - Parts and accessories : -- For cameras -- Other
90.07	9007.11 9007.19 9007.20 9007.91 9007.92	Cinematographic cameras and projectors, whether or not incorporating sound recording or reproducing apparatus. - Cameras : -- For film of less than 16 mm width or for double-8 mm film -- Other - Projectors - Parts and accessories : -- For cameras -- For projectors
90.08	9008.10 9008.20 9008.30	Image projectors, other than cinematographic; photographic (other than cinematographic) enlargers and reducers. - Slide projectors - Microfilm, microfiche or other microform readers, whether or not capable of producing copies - Other image projectors

	9008.40	- Photographic (other than cinematographic) enlargers and reducers
	9008.90	- Parts and accessories
90.09		Photocopying apparatus incorporating an optical system or of the contact type and thermo-copying apparatus.
		- Electrostatic photocopying apparatus :
	9009.11	-- Operating by reproducing the original image directly onto the copy (direct process)
	9009.12	-- Operating by reproducing the original image via an intermediate onto the copy (indirect process)
		- Other photocopying apparatus :
	9009.21	-- Incorporating an optical system
	9009.22	-- Of the contact type
	9009.30	- Thermo-copying apparatus
		- Parts and accessories :
	9009.91	-- Automatic document feeders
	9009.92	-- Paper feeders
	9009.93	-- Sorters
	9009.99	-- Other
90.10		Apparatus and equipment for photographic (including cinematographic) laboratories (including apparatus for the projection or drawing of circuit patterns on sensitised semiconductor materials), not specified or included elsewhere in this Chapter; negatoscopes; projection screens.
	9010.10	- Apparatus and equipment for automatically developing photographic (including cinematographic) film or paper in rolls or for automatically exposing developed film to rolls of photographic paper
		- Apparatus for the projection or drawing of circuit patterns on sensitised semiconductor materials :
	9010.41	-- Direct write-on-wafer apparatus
	9010.42	-- Step and repeat aligners
	9010.49	-- Other
	9010.50	- Other apparatus and equipment for photographic (including cinematographic) laboratories; negatoscopes
	9010.60	- Projection screens
	9010.90	- Parts and accessories
90.11		Compound optical microscopes, including those for photomicrography, cinephotomicrography or microprojection.
	9011.10	- Stereoscopic microscopes
	9011.20	- Other microscopes, for photomicrography, cinephotomicrography or microprojection
	9011.80	- Other microscopes
	9011.90	- Parts and accessories
90.12		Microscopes other than optical microscopes; diffraction apparatus.
	9012.10	- Microscopes other than optical microscopes; diffraction apparatus
	9012.90	- Parts and accessories
90.13		Liquid crystal devices not constituting articles provided for more specifically in other headings; lasers, other than laser

		diodes; other optical appliances and instruments, not specified or included elsewhere in this Chapter.
	9013.10	- Telescopic sights for fitting to arms; periscopes; telescopes designed to form parts of machines, appliances, instruments or apparatus of this Chapter or Section XVI
	9013.20	- Lasers, other than laser diodes
	9013.80	- Other devices, appliances and instruments
	9013.90	- Parts and accessories
90.14		Direction finding compasses; other navigational instruments and appliances.
	9014.10	- Direction finding compasses
	9014.20	- Instruments and appliances for aeronautical or space navigation (other than compasses)
	9014.80	- Other instruments and appliances
	9014.90	- Parts and accessories
90.15		Surveying (including photogrammetrical surveying), hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances, excluding compasses; rangefinders.
	9015.10	- Rangefinders
	9015.20	- Theodolites and tachymeters (tacheometers)
	9015.30	- Levels
	9015.40	- Photogrammetrical surveying instruments and appliances
	9015.80	- Other instruments and appliances
	9015.90	- Parts and accessories
90.16	9016.00	Balances of a sensitivity of 5 cg or better, with or without weights.
90.17		Drawing, marking-out or mathematical calculating instruments (for example, drafting machines, pantographs, protractors, drawing sets, slide rules, disc calculators); instruments for measuring length, for use in the hand (for example, measuring rods and tapes, micrometers, callipers), not specified or included elsewhere in this Chapter.
	9017.10	- Drafting tables and machines, whether or not automatic
	9017.20	- Other drawing, marking-out or mathematical calculating instruments
	9017.30	- Micrometers, callipers and gauges
	9017.80	- Other instruments
	9017.90	- Parts and accessories
90.18		Instruments and appliances used in medical, surgical, dental or veterinary sciences, including scintigraphic apparatus, other electro-medical apparatus and sight-testing instruments.
		- Electro-diagnostic apparatus (including apparatus for functional exploratory examination or for checking physiological parameters) :
	9018.11	-- Electro-cardiographs
	9018.12	-- Ultrasonic scanning apparatus
	9018.13	-- Magnetic resonance imaging apparatus
	9018.14	-- Scintigraphic apparatus
	9018.19	-- Other
	9018.20	- Ultra-violet or infra-red ray apparatus

		- Syringes, needles, catheters, cannulae and the like :
	9018.31	-- Syringes, with or without needles
	9018.32	-- Tubular metal needles and needles for sutures
	9018.39	-- Other
		- Other instruments and appliances, used in dental sciences :
	9018.41	-- Dental drill engines, whether or not combined on a single base with other dental equipment
	9018.49	-- Other
	9018.50	- Other ophthalmic instruments and appliances
	9018.90	- Other instruments and appliances
90.19		Mechano-therapy appliances; massage apparatus; psychological aptitude-testing apparatus; ozone therapy, oxygen therapy, aerosol therapy, artificial respiration or other therapeutic respiration apparatus.
	9019.10	- Mechano-therapy appliances; massage apparatus; psychological aptitude-testing apparatus
	9019.20	- Ozone therapy, oxygen therapy, aerosol therapy, artificial respiration or other therapeutic respiration apparatus
90.20	9020.00	Other breathing appliances and gas masks, excluding protective masks having neither mechanical parts nor replaceable filters.
90.21		Orthopaedic appliances, including crutches, surgical belts and trusses; splints and other fracture appliances; artificial parts of the body; hearing aids and other appliances which are worn or carried, or implanted in the body, to compensate for a defect or disability.
	9021.10	- Orthopaedic or fracture appliances
		- Artificial teeth and dental fittings :
	9021.21	-- Artificial teeth
	9021.29	-- Other
		- Other artificial parts of the body :
	9021.31	-- Artificial joints
	9021.39	-- Other
	9021.40	- Hearing aids, excluding parts and accessories
	9021.50	- Pacemakers for stimulating heart muscles, excluding parts and accessories
	9021.90	- Other
90.22		Apparatus based on the use of X-rays or of alpha, beta or gamma radiations, whether or not for medical, surgical, dental or veterinary uses, including radiography or radiotherapy apparatus, X-ray tubes and other X-ray generators, high tension generators, control panels and desks, screens, examination or treatment tables, chairs and the like.
		- Apparatus based on the use of X-rays, whether or not for medical, surgical, dental or veterinary uses, including radiography or radiotherapy apparatus :
	9022.12	-- Computed tomography apparatus
	9022.13	-- Other, for dental uses
	9022.14	-- Other, for medical, surgical or veterinary uses
	9022.19	-- For other uses
		- Apparatus based on the use of alpha, beta or gamma radiations, whether or not for medical, surgical, dental or veterinary uses, including radiography or radiotherapy apparatus :

	9022.21	-- For medical, surgical, dental or veterinary uses
	9022.29	-- For other uses
	9022.30	- X-ray tubes
	9022.90	- Other, including parts and accessories
90.23	9023.00	Instruments, apparatus and models, designed for demonstrational purposes (for example, in education or exhibitions), unsuitable for other uses.
90.24		Machines and appliances for testing the hardness, strength, compressibility, elasticity or other mechanical properties of materials (for example, metals, wood, textiles, paper, plastics).
	9024.10	- Machines and appliances for testing metals
	9024.80	- Other machines and appliances
	9024.90	- Parts and accessories
90.25		Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, recording or not, and any combination of these instruments.
		- Thermometers and pyrometers, not combined with other instruments :
	9025.11	-- Liquid-filled, for direct reading
	9025.19	-- Other
	9025.80	- Other instruments
	9025.90	- Parts and accessories
90.26		Instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases (for example, flow meters, level gauges, manometers, heat meters), excluding instruments and apparatus of heading 90.14, 90.15, 90.28 or 90.32.
	9026.10	- For measuring or checking the flow or level of liquids
	9026.20	- For measuring or checking pressure
	9026.80	- Other instruments or apparatus
	9026.90	- Parts and accessories
90.27		Instruments and apparatus for physical or chemical analysis (for example, polarimeters, refractometers, spectrometers, gas or smoke analysis apparatus); instruments and apparatus for measuring or checking viscosity, porosity, expansion, surface tension or the like; instruments and apparatus for measuring or checking quantities of heat, sound or light (including exposure meters); microtomes.
	9027.10	- Gas or smoke analysis apparatus
	9027.20	- Chromatographs and electrophoresis instruments
	9027.30	- Spectrometers, spectrophotometers and spectrographs using optical radiations (UV, visible, IR)
	9027.40	- Exposure meters
	9027.50	- Other instruments and apparatus using optical radiations (UV, visible, IR)
	9027.80	- Other instruments and apparatus
	9027.90	- Microtomes; parts and accessories
90.28		Gas, liquid or electricity supply or production meters, including calibrating meters therefor.
	9028.10	- Gas meters
	9028.20	- Liquid meters
	9028.30	- Electricity meters

	9028.90	- Parts and accessories
90.29		Revolution counters, production counters, taximeters, mileometers, pedometers and the like; speed indicators and tachometers, other than those of heading 90.14 or 90.15; stroboscopes.
	9029.10	- Revolution counters, production counters, taximeters, mileometers, pedometers and the like
	9029.20	- Speed indicators and tachometers; stroboscopes
	9029.90	- Parts and accessories
90.30		Oscilloscopes, spectrum analysers and other instruments and apparatus for measuring or checking electrical quantities, excluding meters of heading 90.28; instruments and apparatus for measuring or detecting alpha, beta, gamma, X-ray, cosmic or other ionising radiations.
	9030.10	- Instruments and apparatus for measuring or detecting ionising radiations
	9030.20	- Cathode-ray oscilloscopes and cathode-ray oscillographs - Other instruments and apparatus, for measuring or checking voltage, current, resistance or power, without a recording device :
	9030.31	-- Multimeters
	9030.39	-- Other
	9030.40	- Other instruments and apparatus, specially designed for telecommunications (for example, cross-talk meters, gain measuring instruments, distortion factor meters, psophometers) - Other instruments and apparatus :
	9030.82	-- For measuring or checking semiconductor wafers or devices
	9030.83	-- Other, with a recording device
	9030.89	-- Other
	9030.90	- Parts and accessories
90.31		Measuring or checking instruments, appliances and machines, not specified or included elsewhere in this Chapter; profile projectors.
	9031.10	- Machines for balancing mechanical parts
	9031.20	- Test benches
	9031.30	- Profile projectors - Other optical instruments and appliances :
	9031.41	-- For inspecting semiconductor wafers or devices or for inspecting photomasks or reticles used in manufacturing semiconductor devices
	9031.49	-- Other
	9031.80	- Other instruments, appliances and machines
	9031.90	- Parts and accessories
90.32		Automatic regulating or controlling instruments and apparatus.
	9032.10	- Thermostats
	9032.20	- Manostats - Other instruments and apparatus :
	9032.81	-- Hydraulic or pneumatic
	9032.89	-- Other
	9032.90	- Parts and accessories

90.33

9033.00

Parts and accessories (not specified or included elsewhere in this Chapter) for machines, appliances, instruments or apparatus of Chapter 90.
