

**List of HS Codes for Controlled Irradiating Apparatus and Radioactive Materials**  
(last updated 19 Jun 2022)

HS Codes	HS Code Description	Types	Import Control	Export Control	Remarks
<b>Items that may be considered as radioactive materials or contain radioactive materials</b>					
26121000	URANIUM ORES & CONCENTRATES (TNE)	<ul style="list-style-type: none"> <li>Ores or concentrates containing radioactive source</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>If the item is Naturally Occurring Radioactive Materials (NORMs), please provide the Certificate of Analysis on the content of Uranium &amp; Thorium from a competent laboratory.</p> <p>If not, please refer to footnote (vi) for non-controlled items.</p>
26122000	THORIUM ORES & CONCENTRATES (TNE)		✓	✓	
26131000	MOLYBDENUM ORES & CONCENTRATES ROASTED (TNE)		✓	✓	
26139000	OTHER MOLYBDENUM ORES & CONCENTRATES NOT ROASTED (TNE)		✓	✓	
26140010	ILMENITE ORE & CONCENTRATES (TNE)		✓	✓	
26140090	OTHER TITANIUM ORES & CONCENTRATES EXCL ILMENITE ORES & CONCENTRATES (TNE)		✓	✓	
26151000	ZIRCONIUM ORES & CONCENTRATES (TNE)		✓	✓	
26159000	NIOBIUM TANTALUM VANADIUM ORES & CONCENTRATES (TNE)		✓	✓	
26161000	SILVER ORES & CONCENTRATES (TNE)		✓	✓	
26169000	OTHER PRECIOUS METAL ORES & CONCENTRATES EXCL SILVER ORES & CONCENTRATES (TNE)		✓	✓	
26171000	ANTIMONY ORES & CONCENTRATES (TNE)		✓	✓	
26179000	OTHER ORES & CONCENTRATES (TNE)		✓	✓	
26180000	GRANULATED SLAG FROM MANUFACTURE OF IRON OR STEEL (TNE)		✓	✓	
26190000	SLAG DROSS (EXCL GRANULATED SLAG) SCALINGS & OTHER WASTE FROM THE MANUFACTURE OF IRON OR STEEL (TNE)		✓	✓	

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28441010	NATURAL URANIUM & ITS COMPOUNDS (KGM)	<ul style="list-style-type: none"> <li>Radioactive sources containing uranium</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p>
28441090	ALLOYS DISPERSIONS CERAMIC PRODUCTS & MIXTURES CONTAINING NATURAL URANIUM OR NATURAL URANIUM COMPOUNDS (KGM)	<ul style="list-style-type: none"> <li>As described in description</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p>
28442010	URANIUM U235 ENRICHED & ITS COMPOUNDS & PLUTONIUM & ITS COMPOUNDS (KGM)	<ul style="list-style-type: none"> <li>Radioactive sources containing enriched uranium-235, plutonium or its compounds</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p>
28442090	ALLOYS DISPERSIONS CERAMIC PRODUCTS & MIXTURES CONTAINING URANIUM ENRICHED IN U235 PLUTONIUM OR COMPOUNDS OF THESE PRODUCTS (KGM)	<ul style="list-style-type: none"> <li>As described in description</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p>
28443010	URANIUM U235 DEPLETED & ITS COMPOUNDS THORIUM & ITS COMPOUNDS (KGM)	<ul style="list-style-type: none"> <li>Radioactive sources containing depleted uranium-235 or its compounds</li> <li>Radioactive sources containing thorium or its compounds</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p>
28443090	ALLOYS DISPERSIONS CERAMIC PRODUCTS & MIXTURES CONTAINING URANIUM DEPLETED IN U235 THORIUM OR COMPOUNDS OF THESE PRODUCTS (KGM)	<ul style="list-style-type: none"> <li>As described in description</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p>
28444100	TRITIUM AND ITS COMPOUNDS OR ALLOYS DISPERSIONS (INCLUDING CERMETS) CERAMIC PRODUCT	<ul style="list-style-type: none"> <li>Radioactive sources containing tritium or its compounds</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p>

HS Codes	HS Code Description	Types	Import Control	Export Control	Remarks
	AND MIXTURES CONTAINING TRITIUM OR ITS COMPOUNDS (KGM)				For controlled items please also refer to footnote (i)
28444200	ACTINIUM-225/227, CALIFORNIUM-253, CURIUM-240/241/243/244, EINSTEINIUM-253/254, GADOLINIUM-148, POLONIUM-208/209/210, RADIUM-223, URANIUM-230/232 & THEIR COMPOUNDS OR ALLOYS DISPERSIONS CERAMIC PRODUCTS & MIXTURES CONTAINING THESE ELEMENTS OR COMPOUNDS (KGM)	<ul style="list-style-type: none"> <li>Radioactive sources containing any of the radionuclide mentioned in the description for medical and veterinary use</li> <li>Radioactive sources containing any of the radionuclide mentioned in the description and not covered under remaining HS Codes</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p>
28444300	OTHER RADIOACTIVE ELEMENTS AND ISOTOPES AND COMPOUNDS OR OTHER ALLOYS DISPERSIONS (INCL CERMETS) CERAMIC PRODUCTS AND MIXTURES CONTAINING THESE ELEMENTS ISOTOPES OR COMPOUNDS (KGM)	<ul style="list-style-type: none"> <li>Radioactive sources containing any of the radionuclide not mentioned in 28444200 for medical and veterinary use</li> <li>Radioactive sources containing any of the radionuclide not mentioned in 28444200 and not covered under remaining HS Codes</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p>
28444400	RADIOACTIVE RESIDUES (KGM)	<ul style="list-style-type: none"> <li>Radioactive waste</li> <li>Activated materials</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p>
28445000	SPENT (IRRADIATED) FUEL ELEMENTS (CARTRIDGES) OF NUCLEAR REACTORS (KGM)	<ul style="list-style-type: none"> <li>Nuclear fuel rods</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p>

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85118010	OTHER ELECTRICAL IGNITION & STARTING EQUIPMENT FOR AIRCRAFT ENGINES (NMB)	<ul style="list-style-type: none"> <li>Ignition exciters containing radioactive source</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p> <p>For non-controlled items and spare parts please refer to footnote (vi) and (vii)</p>
90222100	APPARATUS BASED ON THE USE OF ALPHA, BETA, GAMMA OR OTHER IONISING RADIATIONS FOR MEDICAL SURGICAL DENTAL OR VETERINARY USES (NMB)	<ul style="list-style-type: none"> <li>Apparatus containing radioactive source for medical, dental or veterinary use</li> <li>Gamma knife</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p>
90222900	APPARATUS BASED ON THE USE OF ALPHA, BETA, GAMMA OR OTHER IONISING RADIATIONS FOR OTHER USES (NMB)	<ul style="list-style-type: none"> <li>Apparatus containing radioactive source</li> <li>Smoke detectors (ionisation type)</li> <li>Nuclear/Moisture gauge</li> <li>Level/Density gauge</li> <li>Vapour detector</li> <li>XRF systems containing radioactive source</li> <li>Explosive Trace Detector</li> <li>Static eliminators containing Po-210</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to (i)</p>
90272000	CHROMATOGRAPHS AND ELECTROPHORESIS INSTRUMENTS (NMB)	<ul style="list-style-type: none"> <li>Gas chromatography systems containing radioactive source (e.g. Gas Chromatography - Electron Capture Device (GC-ECD))</li> </ul>	✓	✓	<p>Please refer to footnote (ix) for additional declaration procedure</p> <p>For controlled items please also refer to footnote (i)</p> <p>For non-controlled items and spare parts please refer to footnote (vi) and (vii)</p>

HS Codes	HS Code Description	Types	Import Control	Export Control	Remarks
<b>Items that do not contain radioactive materials</b>					
84561110	MACHINE TOOLS OPERATED BY LASER FOR MANUFACTURE OF PRINTED CIRCUITS PRINTED CIRCUIT ASSEMBLIES PARTS OF HEADING 8517 OR PARTS OF AUTOMATIC DATA PROCESSING MACHINES (NMB)	<ul style="list-style-type: none"> <li>Laser grooving tools used on silicon wafers</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p>
84561190	OTHER MACHINE TOOLS OPERATED BY LASER FOR WORKING ANY MATERIAL BY REMOVAL OF MATERIAL (NMB)	<ul style="list-style-type: none"> <li>Marking machine incorporated with Class 3b or Class 4 laser</li> <li>Equipment for drilling, cutting, sintering, engraving, marking, welding incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p>
84561210	MACHINE TOOLS OPERATED BY OTHER LIGHT OR PHOTON BEAM PROCESSES FOR MANUFACTURE OF PRINTED CIRCUITS PRINTED CIRCUIT ASSEMBLIES PARTS OF HEADING 8517 OR PARTS OF AUTOMATIC DATA PROCESSING MACHINES (NMB)	<ul style="list-style-type: none"> <li>Photolithography machine not containing lasers</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For non-controlled items, please use 'MISC' in CA/SC product code field</p>
84561290	OTHER MACHINE TOOLS OPERATED BY OTHER LIGHT OR PHOTON BEAM PROCESSES FOR WORKING ANY MATERIAL BY REMOVAL OF MATERIAL (NMB)	<ul style="list-style-type: none"> <li>Machine tools operated by other light or photon beam process, not containing lasers, for working on any material by removal of material</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For non-controlled items, please use 'MISC' in CA/SC product code field</p>
84562000	MACHINE TOOLS OPERATED BY ULTRASONIC PROCESSES FOR WORKING ANY MATERIAL BY	<ul style="list-style-type: none"> <li>Industrial ultrasound for polishing, engraving, cutting, milling and drilling</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with ultrasound, please refer</p>

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	REMOVAL OF MATERIAL (NMB)				to the footnote (iv) and (v)
84569090	OTHER MACHINE TOOLS FOR WORKING ANY MATERIAL BY REMOVING IT BY ELECTROCHEMICAL ELECTRON BEAM IONIC BEAM (NMB)	<ul style="list-style-type: none"> <li>Electron beam devices</li> </ul>	✓	✓	<p>For controlled items please also refer to (i)</p> <p>For non-controlled items and spare parts please refer to footnote (vi) and (vii)</p>
84798969	OTHER MACHINES & MECHANICAL APPLIANCES HAVING INDIVIDUAL FUNCTIONS NOT ELSEWHERE SPECIFIED ELECTRICALLY OPERATED (NMB)* * 'MASTER' and 'REPLICATOR' should also not be used in the Product code field if it is a RPNSG controlled item.	<ul style="list-style-type: none"> <li>Industrial ultrasonic cleaning equipment</li> <li>Ultrasonic cleaning bath</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv) and (v)</p> <p>For non-controlled items and spare parts please refer to footnote (vi) and (vii)</p>
84861030	MACHINES FOR WORKING ANY MATERIAL BY REMOVING MATERIAL OPERATED BY LASER OTHER LIGHT OR PHOTON BEAM PROCESSES IN PRODUCTION OF SEMICONDUCTOR WAFERS (NMB)	<ul style="list-style-type: none"> <li>Equipment for the production of semiconductor wafers using methods such as drilling, cutting, sintering, engraving, marking, welding incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
84862021	ION IMPLANTERS FOR DOPING SEMICONDUCTOR MATERIALS (NMB)	<ul style="list-style-type: none"> <li>Ion implanter</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)
84862039	OTHER ETCHING & STRIPPING EQUIPMENT FOR THE MANUFACTURE OF SEMICONDUCTOR DEVICES OR OF ELECTRONIC INTEGRATED CIRCUIT (NMB)	<ul style="list-style-type: none"> <li>Industrial ultrasound equipment</li> <li>Industrial equipment incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv) and</p>

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					(v)  For non-controlled items and spare parts, please refer to footnote (vi) and (vii)
84862049	OTHER LITHOGRAPHY EQUIPMENT FOR THE MANUFACTURE OF SEMICONDUCTOR DEVICES OR OF ELECTRONIC INTEGRATED CIRCUIT (NMB)	<ul style="list-style-type: none"> <li>• Lithotripter</li> <li>• Industrial ultrasound equipment</li> <li>• Industrial equipment incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv) and (v)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
84862059	OTHER EQUIPMENT FOR DEVELOPING EXPOSED WAFERS FOR THE MANUFACTURE OF SEMICONDUCTOR DEVICES OR OF ELECTRONIC INTEGRATED CIRCUIT (NMB)	<ul style="list-style-type: none"> <li>• Industrial ultrasound equipment</li> <li>• Industrial equipment incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv) and (v)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
84862091	LASER CUTTERS FOR CUTTING CONTACTING TRACKS IN SEMICONDUCTOR PRODUCTION BY LASER BEAM (NMB)	<ul style="list-style-type: none"> <li>• Equipment for drilling, cutting, sintering, engraving, marking, welding incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For non-controlled items and spare parts,</p>

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					please refer to footnote (vi) and (vii)
84862099	OTHER MACHINES & APPARATUS FOR THE MANUFACTURE OF SEMICONDUCTOR DEVICES OR OF ELECTRONIC INTEGRATED CIRCUIT (NMB)	<ul style="list-style-type: none"> <li>Industrial ultrasonic cutter</li> <li>Industrial ultrasonic driller</li> <li>Other industrial ultrasound equipment</li> <li>Other industrial equipment incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv) and (v)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
84864020	DIE ATTACH APPARATUS TAPE AUTOMATED & WIRE BONDER & ENCAPSULATION EQUIPMENT FOR ASSEMBLY OF SEMICONDUCTORS/AUTOMATED MACHINES FOR TRANSPORT HANDLING & STORAGE OF SEMICONDUCTOR WAFERS WAFER CASSETTES/BOXES & OTHER MATERIALS FOR SEMICONDUCTOR DEVICES (NMB)	<ul style="list-style-type: none"> <li>Ultrasonic bonder</li> <li>Other industrial equipment incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
84864090	OTHER MACHINES & APPARATUS SPECIFIED IN NOTE 9(C) TO CHAP 84 (NMB)* *Please refer to footnote (viii)	<ul style="list-style-type: none"> <li>Industrial ultrasonic welder</li> <li>Other welding machine incorporated with Class 3b or 4 laser</li> <li>Equipment for drilling, cutting, sintering, engraving, marking, welding incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv) and (v)</p>



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					For non-controlled items and spare parts, please refer to footnote (vi) and (vii)
85143990	OTHER FURNACES & OVENS (EXCL THOSE FOR PRINTED CIRCUIT BOARDS/PRINTED WIRING BOARDS OR PRINTED CIRCUIT ASSEMBLIES) (NMB)	<ul style="list-style-type: none"> <li>Industrial microwave oven</li> </ul>	✓	X	<p>For controlled items please also refer to footnote (i)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
85151100	ELECTRIC SOLDERING IRONS & GUNS (NMB)	<ul style="list-style-type: none"> <li>Industrial ultrasonic soldering iron</li> <li>Industrial ultrasonic soldering gun</li> <li>Other industrial ultrasound equipment</li> <li>Industrial soldering iron incorporated with Class 3b or Class 4 laser</li> <li>Industrial soldering gun incorporated with Class 3b or Class 4 laser</li> <li>Other industrial equipment incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv) and (v)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
85151990	OTHER ELECTRIC BRAZING OR SOLDERING MACHINES & APPARATUS (NMB)	<ul style="list-style-type: none"> <li>Industrial ultrasonic soldering machine</li> <li>Industrial ultrasonic brazing machine</li> <li>Other industrial ultrasound equipment</li> <li>Industrial soldering machine incorporated with Class 3b or Class 4 laser</li> <li>Industrial brazing machine incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv) and (v)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>

HS Codes	HS Code Description	Types	Import Control	Export Control	Remarks
		<ul style="list-style-type: none"> <li>Other industrial equipment incorporated with Class 3b or Class 4 laser</li> </ul>			
85158090	OTHER ELECTRIC WELDING OR HOT SPRAYING OF METALS OR CERMETS MACHINES & APPARATUS (NMB)	<ul style="list-style-type: none"> <li>Industrial ultrasonic welder</li> <li>Equipment for drilling, cutting, sintering, engraving, marking, welding incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv) and (v)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
85165000	MICROWAVE OVENS (NMB)	<ul style="list-style-type: none"> <li>Household microwave ovens</li> <li>Commercial microwave ovens</li> </ul>	✓	X	For controlled items please also refer to footnote (i)
85431000	PARTICLE ACCELERATORS (NMB)	<ul style="list-style-type: none"> <li>Charged particle accelerators</li> <li>Linear accelerators</li> <li>Cyclotrons</li> <li>Synchrotrons</li> <li>Synchrocyclotrons</li> <li>Proton beam therapy system</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90072010	CINEMATOGRAPHIC PROJECTORS FOR FILM BELOW 16 MM IN WIDTH (NMB)	<ul style="list-style-type: none"> <li>Cinema projector incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90072090	CINEMATOGRAPHIC PROJECTORS FOR FILM	<ul style="list-style-type: none"> <li>Cinema projector incorporated with</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)

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	16 MM OR MORE WIDTH (NMB)	Class 3b or Class 4 laser			For apparatus with laser, please refer to the footnote (ii)  For non-controlled items and spare parts, please refer to footnote (vi) and (vii)
90118000	OTHER MICROSCOPES (NMB)	<ul style="list-style-type: none"> <li>Scanning microscope incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)  For apparatus with laser, please refer to the footnote (ii)  For non-controlled items and spare parts, please refer to footnote (vi) and (vii)
90121000	MICROSCOPES & DIFFRACTION APPARATUS EXCL OPTICAL MICROSCOPES (NMB)	<ul style="list-style-type: none"> <li>Electron microscope</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)  For non-controlled items and spare parts, please refer to footnote (vi) and (vii)
90132000	LASERS EXCL LASER DIODES (NMB)	<ul style="list-style-type: none"> <li>Class 3b or Class 4 laser pointers</li> <li>Class 3b or Class 4 entertainment laser apparatus</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)  For apparatus with laser, please refer to the footnote (ii)  For laser pointers, please refer to footnote (iii)  For non-controlled items and spare parts, please refer to footnote (vi) and (vii)
90151010	RANGEFINDERS USED IN PHOTOGRAPHY & CINEMATOGRAPHY (NMB)	<ul style="list-style-type: none"> <li>Ultrasonic rangefinders for photography &amp; cinematography</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)  For apparatus with

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		<ul style="list-style-type: none"> <li>Rangefinders for photography &amp; cinematography incorporated with Class 3b or Class 4 laser</li> </ul>			<p>laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90151090	OTHER RANGEFINDERS NOT USED IN PHOTOGRAPHY & CINEMATOGRAPHY (NMB)* * 'IDAMISC' should also not be used in the Product code field if it is a RPNSG controlled item. Should be used only for rangefinders with radio-frequency.	<ul style="list-style-type: none"> <li>Ultrasonic rangefinders for other uses apart from photography &amp; cinematography</li> <li>Rangefinders for other uses apart from photography &amp; cinematography incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90153000	LEVELS (NMB)	<ul style="list-style-type: none"> <li>Ultrasonic level equipment</li> <li>Level equipment incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90181200	ULTRASONIC SCANNING APPARATUS (NMB)	<ul style="list-style-type: none"> <li>Medical diagnostic imaging ultrasound apparatus</li> <li>Industrial ultrasound for scanning</li> <li>Industrial ultrasound equipment</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with ultrasound, please refer</p>

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		<ul style="list-style-type: none"> <li>Aesthetic ultrasound equipment</li> </ul>			to the footnote (iv) and (v)
90181300	MAGNETIC RESONANCE IMAGING APPARATUS (NMB)	<ul style="list-style-type: none"> <li>Magnetic Resonance Imaging (MRI) equipment</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)
90181400	SCINTIGRAPHIC APPARATUS (NMB)	<ul style="list-style-type: none"> <li>As described in description</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90181900	OTHER ELECTRO-DIAGNOSTIC APPARATUS (NMB)	<ul style="list-style-type: none"> <li>Medical laser equipment incorporated with Class 3b or Class 4 laser</li> <li>Cosmetic laser equipment incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90182000	ULTRAVIOLET OR INFRARED RAY APPARATUS (KGM)	<ul style="list-style-type: none"> <li>Ultraviolet sunlamps (used on human body)</li> <li>Sun tanning apparatus</li> <li>Ultraviolet laser apparatus</li> </ul>	✓	X	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90184900	OTHER DENTAL INSTRUMENTS & APPLIANCES (NMB)	<ul style="list-style-type: none"> <li>Ultrasonic dental instruments and apparatus</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv)</p> <p>For non-controlled</p>

HS Codes	HS Code Description	Types	Import Control	Export Control	Remarks
					items and spare parts, please refer to footnote (vi) and (vii)
90185000	OTHER OPHTHALMIC INSTRUMENTS & APPLIANCES (KGM) *  *‘HSAHP’, ‘HSAIFRSA’, and ‘HSAIPU’ should also not be used in the Product code field if it is a RPNSG controlled item.	<ul style="list-style-type: none"> <li>Ophthalmic laser equipment incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90189031	ELECTRO-SURGICAL OR ELECTRO-MEDICAL INSTRUMENTS & APPLIANCES (NMB)	<ul style="list-style-type: none"> <li>Fetal heart monitoring doppler ultrasound apparatus</li> <li>Medical Therapeutic ultrasound apparatus</li> <li>High Intensity focused ultrasound (HIFU) apparatus</li> <li>Ophthalmic laser equipment incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90189039	OTHER ELECTRONIC INSTRUMENTS & APPLIANCES USED IN MEDICAL SURGICAL OR VETERINARY SCIENCES (NMB)	<ul style="list-style-type: none"> <li>Other instruments containing ultrasound or class 3b or class 4 laser that are not covered under 90189031</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90221200	COMPUTED TOMOGRAPHY APPARATUS BASED ON	<ul style="list-style-type: none"> <li>CT scanners (including PET/CT and SPECT/CT)</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)

HS Codes	HS Code Description	Types	Import Control	Export Control	Remarks
	THE USE OF X-RAYS (NMB)				
90221300	OTHER APPARATUS BASED ON THE USE OF X-RAYS FOR DENTAL USES (NMB)	<ul style="list-style-type: none"> <li>Dental X-ray equipment</li> <li>Orthopantomography (OPG) equipment</li> <li>Periapical (PA) X-ray equipment</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)
90221400	OTHER APPARATUS BASED ON THE USE OF X-RAYS FOR MEDICAL SURGICAL OR VETERINARY USES (NMB)	<ul style="list-style-type: none"> <li>Medical X-ray equipment</li> <li>Veterinary X-ray equipment</li> <li>C-arm systems</li> <li>Fluoroscopy machines</li> <li>Mammography machines</li> <li>Angiography machines</li> <li>Bone densitometer</li> <li>Medical linear accelerator</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)
90221910	X-RAY APPARATUS FOR THE PHYSICAL INSPECTION OF SOLDER JOINTS ON PRINTED CIRCUIT BOARD (PCB) OR PRINTED WIRING BOARD ASSEMBLIES (NMB)	<ul style="list-style-type: none"> <li>Industrial X-ray inspection systems for physical inspection of solder joints on PCB or printed wiring board assemblies</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)
90221990	X-RAY APPARATUS FOR OTHER USES (NMB)	<ul style="list-style-type: none"> <li>Non-medical X-ray equipment</li> <li>XRF systems (not containing radioactive source)</li> <li>XRD systems</li> <li>Security screening machines using X-ray source</li> <li>X-ray irradiators</li> <li>Other industrial X-ray systems not under 90221910</li> <li>Static eliminators using X-ray source</li> <li>X-ray tubes (with generator)</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)

HS Codes	HS Code Description	Types	Import Control	Export Control	Remarks
90223000	X-RAY TUBES (NMB)	<ul style="list-style-type: none"> <li>X-ray tubes (without generator)</li> </ul>	✓	✓	For X-ray tubes without generator, please refer to footnote (vii)
90229010	PARTS & ACCESSORIES OF X-RAY APPARATUS FOR THE PHYSICAL INSPECTION OF SOLDER JOINTS ON PRINTED CIRCUIT ASSEMBLIES (PCA) (KGM)	<ul style="list-style-type: none"> <li>Parts and accessories of X-ray equipment used for physical inspection of solder joints on PCA, including X-ray generator with tube</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)
90261090	OTHER INSTRUMENTS AND APPARATUS FOR MEASURING OR CHECKING THE FLOW OF LEVEL OF LIQUIDS (NMB)	<ul style="list-style-type: none"> <li>Ultrasonic instrument and apparatus for measuring or checking flow or level</li> </ul>	✓	X	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with ultrasound, please refer to the footnote (iv)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90273000	SPECTROMETERS OR SPECTROPHOTOMETERS OR SPECTROGRAPHS USING OPTICAL RADIATIONS (UV VISIBLE IR) (NMB)	<ul style="list-style-type: none"> <li>Spectrometers, spectrophotometers or spectrographs incorporated with Class 3b or Class 4 laser</li> <li>Spectrometers not containing radioactive source</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90275000	OTHER INSTRUMENTS AND APPARATUS USING OPTICAL RADIATIONS (UV VISIBLE IR) (NMB)	<ul style="list-style-type: none"> <li>Other industrial laser equipment incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	<p>For controlled items please also refer to footnote (i)</p> <p>For apparatus with laser, please refer to the footnote (ii)</p> <p>For non-controlled items and spare parts, please refer to footnote (vi) and (vii)</p>
90278100	MASS SPECTROMETERS (NMB)	<ul style="list-style-type: none"> <li>Mass spectrometers containing lasers but not containing radioactive sources</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)



HS Codes	HS Code Description	Types	Import Control	Export Control	Remarks
					For apparatus with laser, please refer to the footnote (ii)  For non-controlled items and spare parts, please refer to footnote (vi) and (vii)
90278990	OTHER INSTRUMENTS AND APPARATUS USING OPTICAL RADIATIONS (UV VISIBLE IR) (EXCL EXPOSURE METERS & MASS SPECTROMETERS) (NMB)	<ul style="list-style-type: none"> <li>Instruments and apparatus using UV, visible or infrared laser radiation incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)  For apparatus with laser, please refer to the footnote (ii)  For non-controlled items and spare parts, please refer to footnote (vi) and (vii)
90314990	OTHER OPTICAL INSTRUMENTS & APPLIANCES FOR MEASURING OR CHECKING NOT ELSEWHERE SPECIFIED (NMB)	<ul style="list-style-type: none"> <li>Class 3b or Class 4 laser interferometer</li> <li>Other optical instruments &amp; appliances for measuring or checking incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)  For apparatus with laser, please refer to the footnote (ii)  For non-controlled items and spare parts, please refer to footnote (vi) and (vii)
90318090	OTHER INSTRUMENTS APPLIANCES & MACHINES FOR MEASURING OR CHECKING NOT ELSEWHERE SPECIFIED IN CHAPTER 90 (NMB)*  <i>*(incorporated with ultrasound)</i>	<ul style="list-style-type: none"> <li>Ultrasonic instrument and apparatus for measuring or checking</li> <li>Industrial ultrasound for measuring, checking</li> </ul>	✓	X	For controlled items please also refer to footnote (i)  For apparatus with ultrasound, please refer to the footnote (iv) and (v)  For non-controlled items and spare parts, please refer to footnote (vi) and (vii)
95045090	OTHER VIDEO GAME CONSOLES & MACHINES NOT USED WITH TELEVISION RECEIVER EXCL	<ul style="list-style-type: none"> <li>Video game console incorporated with Class 3b or Class 4 laser</li> </ul>	✓	✓	For controlled items please also refer to footnote (i)  For apparatus with

HS Codes	HS Code Description	Types	Import Control	Export Control	Remarks
	SUBHEADING 950430 (NMB)				laser, please refer to the footnote (ii)  For non-controlled items and spare parts, please refer to footnote (vi) and (vii)

If the import/export is for radioactive materials or if the irradiating apparatus or radioactive material is not included in the HS code list, please email NEA ([NEA\\_RPNDS\\_Tradenet@nea.gov.sg](mailto:NEA_RPNDS_Tradenet@nea.gov.sg))

Footnotes:

- (i) For all TradeNet permit applications, please include the details of the controlled item, such as the manufacturer, model, serial number, and, where applicable, the radionuclide(s) present, along with its respective radioactivity.
- (ii) For all apparatus with laser, please provide the class, power output and wavelength of the laser as well as the information in *footnote (i)*
- (iii) NEA generally will not approve any import permit applications for high power laser pointers that are consigned to members of the public. For more information, please visit the NEA website at <https://www.nea.gov.sg/our-services/radiation-safety/lasers/information-on-laser-pointers>
- (iv) For ultrasonic equipment, please provide ultrasound intensity, frequency, and maximum ultrasonic output power as well as the information in *footnote (i)*
- (v) Export licence will be required for industrial ultrasound apparatus with maximum ultrasonic output power  $\geq$  1200 Watts. For export of industrial ultrasound apparatus with maximum ultrasonic output power  $<$ 1200 Watts, please declare 'MISC' at the CA/SC Product Code field.
- (vi) For non-controlled items, please declare 'MISC' at the CA/SC Product Code field.
- (vii) For spare parts of controlled items that has already been licensed, please declare 'RADSPARE' at the licence number and CA/SC Product Code fields.
- (viii) Chapter 84 Note 9(C) Heading 84.86 also includes machines and apparatus solely or principally of a kind used for: the manufacture or repair of masks and reticles; assembling semiconductor devices or electronic integrated circuits; lifting, handling, loading or unloading of boules, wafers, semiconductor devices, electronic integrated circuits and flat panel displays.
- (ix) DAs will be required to declare the International Atomic Energy Agency (IAEA) categorisation of the radioactive source in the permit using the CA/SC Code 1 field. Depending on the categorisation of the radioactive source, DAs will be required to declare "1", "2" or "OTHERS" in the CA/SC Code 1 field for sources that are categorised as Category 1, Category 2, and all other sources not falling under Category 1 or 2 respectively. The declaration must be done for every radioactive source declared in the permit. Permit applications with invalid inputs to the CA/SC Code 1 field will be rejected.