

DWPI Manual Code Revision 2022 - GMPI and EPI Codes					
New / Changed / Retired	Code	Date Range	Title	Scope Notes	Keyword/Search Terms
SECTION P					
Change Scope Note/Search Terms	P25-A01X	(2015-)	Other specific type of tables	Includes sewing tables, tea trolleys and game tables. Also includes operating tables.	Card table, ironing table, billiard table, table tennis table
Change Search Terms	P26-A01A	(2015-)	Home or office chairs	Includes armchairs and garden chairs. Armchairs are also coded under P26-B01.	Workshop, high chair, gaming chair
Change Search Terms	P33-A99	(2015-)	Other types of medical aids and oral administration methods	Includes walking aids and crutches.	Wrist band
Change Search Terms	P36-A08A	(2015-)	Sports equipment and clothing	Includes items used by a player of a sport, e.g. horse racing, or a participant in leisure activities such as horse riding. See also P21-D for sportswear. Electrical details of sports equipment are coded under W04-X01E, and electrical details of clothing are coded under X27-A02B1.	Ball, bat, boots, bow, bowls, crampons, crossbow, cue, fishing rod, goggles, golf clubs, harness, kit, racquet, riding boots, running shoes, saddle, skateboard, skates, ski binding,
Change Scope Note/Search Terms	P36-A08E	(2015-)	Sports training and fitness training	This code is assigned with other P36-A codes as necessary i.e. training for specific sports is covered by P36-A08E together with the code for the particular sport. Inventions involving teaching of sports are covered by P85-A01N which is assigned with this code when both aspects are involved. Electrical aspects of sports training are covered by W04-X01A codes. Table tennis tables are also coded under P25-A01X.	Exercise bike, treadmill, table tennis
SECTION Q					
New	Q12-B16	(2022-)	Covers and protection for springs, dampers and suspension parts	Includes spring or shock covers for dust or weather protection.	
Change Scope Note	Q13-A24	(2007-)	Gearing	Includes mechanical aspects of transmission gearing and gearboxes. Also covers gear locking or disabling mechanisms, e.g. for parking (also see Q18-A01P for parking brakes). See Q64-C for details of gearing in general.	
Change Scope Note	Q18-A01P	(2007-)	Parking brakes	Includes mechanical details of hand brakes or foot actuated parking brakes. See also Q18-A07 codes for novel details of the parking brake actuating arrangement per se. Also includes parking brakes acting by locking vehicle transmission/drive (see also Q13-A24).	
Change Search Terms	Q34-J02	(2012-)	Medical	Includes packaging of medical instruments such as needles, dressings etc. Special carriers for e.g. human organs with integrated cooling systems are also coded under Q32-D01. Packaging of tablets and medicines are coded under Q34-J01 only.	LifePort®, sterile bandages, blood, medical packs/kits
Change Scope Note/Search Terms	Q44-A01G	(2015-)	Reinforcement components	Includes details of grouting sleeves.	Connector, joint
Change Scope Note	Q61-X	(2022-)	Other fastening elements	Includes hooks and eyes, suction cups etc. Also includes tenons and male/female groove connections.	
Change Search Terms	Q71-U45C	(2015-)	Indoors	General indoor use.	Furniture, mirror
SECTION S					
Change Title/Scope Note	S01-H01	(1983-)	Testing, calibrating, monitoring and compensation	Also includes arrangements to prevent and/or indicate fraudulent use, and for signalling faults.	Reference, standard, setting-up, compare, monitor, self-check
Change Search Terms	S01-H03	(1983-)	Probes, contacts		PCB, electronic circuits
Change Search Terms	S02-B01A	(2005-)	Large scale position and location measurement	Includes mining and pipeline machinery position location. Does not include RADAR, GPS systems (see W06).	Co-ordinate measurement, displacement
New	S03-C02M	(2022-)	Geophysical muon imaging	Includes use of cosmic ray muon radiography to investigate density distribution inside geological structures for mapping/imaging.	Muography, muon mapping, attenuation, flux, trajectory
Change Scope Note	S03-E09F	(2005-)	Immunoassay techniques and biological indicators	Includes all novel reagents and techniques. See also S03-E04D and S03-E04E for fluorescence detection and observation techniques. For radiopharmaceutical immunoassay indicators, see also S03-G02B9. For microarray and biochip techniques, see also S03-H01 codes. Prior to 2005 coded in S03-E14H4. From 2022, see also B11-C08N codes to highlight different biological testing methodologies. See also B11-C08E3, B11-C08N, C11-C08E3, C11-C08N and D05-H18B codes.	Antibody, assay, antigen, binding, ligand, fluorophore, monoclonal, conjugate, PCR testing, polymerase chain reaction testing

Change Title/Scope Note	S03-F01A	(1980-)	Investigation of density by immersion in fluid; from transmission of radiation; pressure difference	Includes measurement of density by cosmic ray muon tomography / radiography. From 2022, see S03-C02M for geophysical muon imaging.	Displacement, ultrasonic
Change Scope Note	S05-C	(1980-)	Medical analysis of biological materials	S05-C codes cover electrical aspects only. See S03-E13 codes for sampling, S03-E14H codes for specific sample types and other relevant S03 codes for specific testing techniques. Includes polymerase chain reaction (PCR) testing for medical applications. See also B11-C08E3, B11-C08N, C11-C08E3, C11-C08N and D05-H18B codes.	Sample, cell, liquid, microscope, measure
Change Title/Scope Note	S05-E01	(1992-)	Dental surgery and treatment apparatus	Includes apparatus for dental surgery and general dental treatment.	
Change Scope Note	S05-G02B2A	(1997-)	Monitoring patients from remote location	Includes equipment for monitoring patients who are at home or other location remote from the hospital.	
Change Scope Note/Search Terms	S05-G02X	(2012-)	Other hospital equipment	Includes special equipment used in hospital bathrooms, such as baths for patients with lower body bone fractures or whole body bone fractures. Includes equipment used outside hospitals e.g. at doctor surgeries etc. (equipment used in dental surgeries is coded under S05-E02 only) and electrical aspects of wearable devices, hospital clothing and household medical equipment.	Gynaecological lamp, RFID belts
Change Scope Note	S05-W	(2015-)	Medical waste management	Sterilization of medical waste before disposal. For sterilising or disinfecting medical equipment only see S05-G01. Includes Recycling aspects. See also X25-W01 and X27-D.	
Change Title	S06-K02	(2010-)	Media feeding e.g. sheet feeding	Previously coded as S06-A12, T04-G06A, W02-J05A. Includes all mechanisms for transporting sheet through copier, collators and sorters. For feeding of an original document through a scanner, see S06-D04B only. Constructional details of sheet feeding mechanisms are coded under S06-K03 codes.	Paper roll, paper tray, document holder
SECTION T					
New	T01-J40D	(2022-)	Mixed reality systems	This code covers details of devices or systems which are used for merging of real world and virtual world environments.	
Change Scope Note/Search Terms	T01-N01A3	(2005-)	E-government	For network-based electronic public administration and management tools used by governmental bodies or agencies to implement government-to-citizen (G2C), government-to-business (G2B) and/or government-to-government (G2G) service(s). Includes commerce, e-voting, immigration, law enforcement, licensing, taxation, records management, environmental, social and governance (ESG); sustainable development goals (SDG) etc. See T01-J05A3 for off-line systems and T05-F for voting.	E-Gov, G2C, G2B, G2G, ESG, SDG, E-voting
Change Title/Scope Note	T04-F02	(1983-)	Analogue-based positional input devices	This code includes computer input-type devices which operate on absolute or relative positional movement-based inputs.	Control, video game, indicate, matrix
Change Scope Note/Search Terms	T04-F02A	(1992-)	Based on absolute position	Devices which provide input based on the particular position pressed or touched by the device user.	X-Y, coordinate
Change Search Terms	T04-F02A1	(1992-)	Light pen		Optical, light pointer, laser pointer
Change Scope Note	T04-F02B	(1992-)	Based on relative position	Devices which provide input based on the relative position of the device with respect to a cursor or pointer on the display.	
Change Title/Scope Note/Search Terms	T04-F02B1	(1992-)	Mouse and other mouse-type input device	Mouse-type input devices including wired and wireless mice, click-and-point devices used in conjunction with presentation software, and combinations of the various device types. Details of laser pointers are also coded under T04-F02A1.	Wireless presenter, clicker, laser pointer
Change Title/Scope Note	T04-F02B1A	(2005-)	Optical mouse or mouse-type input device	Mouse-type devices which use optical sensors instead of roller balls or wheels.	
Change Title/Scope Note	T04-F02B3	(1992-)	Joysticks, gamepads	Includes input devices used for gaming machines, e.g. joypad, driving wheel, etc. that are used in place of joystick. Three-dimensional input devices, such as virtual reality gloves, are coded under T04-F02B7.	
Change Scope Note/Search Terms	T04-F02B7	(2002-)	Three-dimensional input	Includes power gloves, virtual reality gloves, 3-D input with strain gauges, virtual reality and acceleration measurements used as input e.g. tilt sensor used to scroll display on a PDA.	Glove, Wiimote®, Wii remote®, VR glove
Change Title	T04-F02C	(2005-)	Construction, manufacturing and testing details of analogue-based positional input devices	Includes mechanical details, manufacture and manufacturing apparatus. See also codes for type (e.g. T04-F02B1 for mouse etc.). See T04-L01 / T01-L05 prior to 2005.	

Change Title/Scope Note/Search Terms	T04-L08	(2012-)	Cleaning of computer and peripheral devices; Computer room air cleaning	Includes cleaning details of internal and external components of computer and peripheral equipment. Use in conjunction with other T04 codes to highlight the type of computer equipment. Also includes devices used for removing dust in a computer rooms or laboratories. Electric details of clean rooms are also covered by X25-S01, and electric details of air cleaners are also covered by X27-E01B2. Measurements of air quality in clean rooms are coded by S03-E14N3.	Dust proof, HEPA filter
SECTION T (continued)					
New	T06-D17	(2022-)	3D / 4D / 5D printing; Additive manufacturing	See also X25-A08 codes.	
New	T06-D18	(2022-)	Spraying; Coating	See also X25-K for spraying and coating equipment.	Paint spraying
SECTION U					
Change Scope Note/Search Terms	U11-F01D3	(1987-)	Separate electronic testing apparatus for testing semiconductor devices, ICs, etc	Includes all apparatus for testing of semiconductor devices, separate or at substrate level, includes apparatus for testing of e.g. LED/OLED displays, solar panels etc.	
SECTION V					
Change Scope Note/Search Terms	V03-C09	(1980-)	Other switches	Includes liquid contact switches, explosion switches, piezoelectric switches, mercury switches, etc.	Liquid, wet
Change Search Terms	V06-V01M	(2007-)	Wireless transducers		Bluetooth transducer
SECTION W					
Change Scope Note	W01-C01Q5X	(2022-)	Other sensing systems for telephone sets	Includes fingerprint sensors.	
New	W02-C03C1M	(2022-)	Radio system or apparatus details of sixth-generation (6G) or analogous mobile phone system	This code is assigned as a tag with other codes as appropriate for inventions relating to sixth-generation (6G) communications technology.	6G
New	W02-D09	(2022-)	Other sound broadcast systems	Includes FM radio transmitters and repeaters (i.e. radio equipment) for which W02-G01 codes and W02-G05C are respectively assigned also. Also includes mounting aspects of FM radio transmitting devices.	
Change Scope Note	W02-F09	(1992-)	Other television systems	Includes TV transmitters and repeaters (i.e. radio equipment) for which W02-G01 codes and W02-G05C are respectively assigned also. Also includes mounting aspects of television transmitting devices.	
Change Scope Note	W04-X01E	(1992-)	Sports equipment per se	Covers equipment used by players. Includes electrical aspects of fishing rods, bats, skis, trampolines, hunting rifles and paintball guns. For electrical aspects of firearms, see also W07. Includes walking sticks for hiking (see also X27-A02E). General details of sport equipment are coded under P36-A08A.	
New	W05-D07P	(2022-)	Scientific analysis systems	Includes control or measurement signalling, for application systems such as weather measuring equipment, pollution level measurement, chemical reaction or hazardous substance measurement, radiation measurement etc.	Pollution, weather, chemical reactions
Change Scope Note	W06-B02C	(1992-)	Passenger information equipment	Includes displays (see W05-E codes also), public address (see W04-S05 codes), passenger guidance robot etc.	
Change Scope Note	W06-B02T	(2011-)	Airport terminal equipment	Includes airport specific equipment such as environmental controls including heating, air-conditioning and internal terminal lighting. Includes transportation of passengers and baggage within terminal, such as travelators and bridges/gangways, baggage conveying/sorting. For baggage conveyors used to load aircraft see W06-B02D instead. Also includes general Wi-Fi and internet access terminals provided within airport (also see T01 codes and W06-B02R for terminals used for check-in/reservation).	Lift, escalator, travelator, baggage conveyor, lighting, heating, air conditioning, transportation, wi-fi
Change Scope Note	W06-B02X	(1992-)	Other airport systems	Only coded here if specific to airports. Includes electrical airport terminal equipment not covered elsewhere. For mechanical details of airport terminals see Q25-R instead. Includes airport taxi service priority scheduling arrangement.	
Change Title/Scope Note	W06-B03C	(1992-)	Space vehicle communications and connectivity	Includes antennae, antennae mountings, transceivers etc. - but not internal circuitry or general systems aspects of satellite repeaters which are covered by W02-G05 codes. Includes all space vehicle/space station and control center communications and data bus and network arrangements.	
New	W06-B03M	(2022-)	Space vehicle docking and coupling arrangements		
SECTION X					

New	X12-G01A7E	(2022-)	Installing cables on vehicles	Includes laying of cables on land/air/water vehicles.	
Change Search Terms	X16-C15A2	(2005-)	Flow plates		Bipolar plates
Change Search Terms	X16-F02	(1980-)	Separators, membranes, spacers	Steam separators are not coded here but under X16-K01 only, and fuel cell separators are coded under X16-C16 only.	Cotton, nylon, polypropylene, cellulose-rayon, cellulose-nylon paper, polyethylene, cellophane, polytetrafluoroethylene, woven,
Change Search Terms	X16-F06A	(2005-)	Battery packs	Also covers individual batteries or cells grouped together by external connectors such as groups of batteries for electric vehicles, power station batteries, etc. Battery packs using a specific type of cell such as alkaline are also covered by X16-B01 codes.	Battery module
Change Scope Note	X16-F09	(1980-)	Other cell constructional details	Includes getter, packaging carton, theft prevention, nameplate labels, waterproof and dust proof protections, vibration damping arrangements, etc.	
Change Scope Note	X21-A01M	(2002-)	Other electric vehicles	Includes riding or ride-on type electrically propelled mowers (see also X27-A01A) as well as personal electric transportation devices such as self-balancing vehicle or electric skateboard. See W04-X03E2 for outdoor toys such as skateboards.	Segway®, hoverboard
Change Title/Scope Note	X21-A01R	(2021-)	Recreational electric vehicles	Includes electric recreational vehicles such as camper, go-kart, RV, ATV, electric snowmobile or electric ski cycle.	
Change Scope Note	X21-A04A	(1997-)	Rectifier control	See also U24-D, X12-J and X13-H03B codes.	
Change Scope Note	X21-A04C	(1997-)	Inverter control	See also U24-D, X12-J and X13-H03A codes.	
New	X21-A05A1	(2022-)	Passenger and pedestrian protection	Includes airbags to protect vehicle occupants or pedestrians, seat belts, active head restraints etc.	
New	X21-A05A2	(2022-)	External view and internal-view cameras	Includes rear-view reversing cameras and 'enhanced' or 'assisted' vision cameras/displays.	
New	X21-A05A3	(2022-)	Horns, noise generators	Includes noise generators to make vehicle more noticeable to pedestrians etc.	Pedestrian awareness
New	X21-A05A5	(2022-)	Anti-collision and parking systems		
Change Scope Note/Search Terms	X21-F	(1997-)	Lights	Includes internal and external vehicle lighting. See also X26 codes or more details.	Headlamp, taillamp, ambience lamps
Change Scope Note/Search Terms	X22-W	(2006-)	Non-engine related by-wire control systems	Includes general by-wire control systems, including 'total' vehicle by-wire control and specific controllers not covered elsewhere such as by-wire headlamp beam aiming controller (see also X22-B01E and X26-L). By-wire brake (X22-C02C7), shift (X22-G03G) and steer (X22-C05A1) controllers are coded in their relevant sections ONLY. See X22-A03W only for general engine based by-wire controllers. Also see X22-K codes for novel vehicle networking/communications systems that enable the by-wire control. Also includes overall systems for determining whether it is safe to operate in autonomous driving mode and for switching between manual and (semi)autonomous driving modes. See also X22-P15 for autonomous vehicles per se and other codes as appropriate. Includes vehicle intelligent adaptive control systems.	Driver-profile auto adaptation
Change Scope Note	X22-X06E	(1997-)	Rain or moisture sensor	See S03-F09 and S03-E codes. Includes humidity sensor.	
Change Scope Note/Search Terms	X22-X06J	(1997-)	Yaw sensor	Measuring angular rotation or movement around yaw axis/direction of heading.	Centre of gravity, vertical axis accelerometer, gyroscope
Change Scope Note/Search Terms	X22-X06X	(2005-)	Other non-engine related measurement and sensors	Includes other specific measurements and sensors such as suspension height sensor (see also X22-M), gear shift and gear position sensors (see also X22-G). Includes coupling sensor.	Ground clearance measurement
Change Scope Note	X24-A02X	(2007-)	Other soldering equipment	Includes spray soldering systems using solder droplets in stream of hot gas to build up solder deposit, e.g. for fixing conductor wires to semiconductor circuit (see also U11 codes). Also includes ultrasonic and laser soldering equipment.	
Change Scope Note	X24-A09	(1980-)	Other electrical soldering aspects	Includes brazing; control and measurements. Also includes cooling details of soldering, soldering simulators and recycling of solder. From 2006, solder feeding devices have been transferred to X24-A04.	

Change Title	X25-A08	(2006-)	3D / 4D / 5D printing; Additive manufacturing	Details of 3D scanners are coded under T04-M05. See also X25-A06 for electrical aspects of working plastics.	3D replicator, rapid prototyping, solid freeform fabrication, SFF,
Change Title	X25-A08A	(2016-)	Method for 3D / 4D / 5D printing and additive manufacturing		
Change Title/Scope Note	X25-A08B	(2016-)	Apparatus for 3D / 4D / 5D printing and additive manufacturing	Computer control details of 3D printing / additive manufacturing machines are coded under T01-J07B3 and T06-D17. For details of 3D scanners see T04-M05. For ink-jet printhead details see S06-G03.	Extruder
Change Title	X25-A08C	(2016-)	Types of 3D / 4D / 5D printing and additive manufacturing		
Change Title	X25-A08C2	(2016-)	Fused deposition modelling / 3D / 4D / 5D printing using inkjet technology	Inkjet technology is also coded under S06-G10.	FDM®, extruders, extrusion tips, fused filament fabrication,
Change Title	X25-A08C9	(2016-)	Other types of 3D / 4D / 5D printing and additive manufacturing		
Change Title	X25-A08M	(2016-)	3D / 4D / 5D printing and additive manufacturing materials	Codes in X25-A08M section indicate the type of material used to produce the printed object. For novel material compositions, see the relevant codes in classes A-M.	
Change Title	X25-A08M9	(2016-)	Other 3D / 4D / 5D printing and additive manufacturing materials	Includes specific materials not covered by other X25-A08M codes, e.g. concrete, silica sand, magnesium sand, chromite sand, etc.	
Change Title/Scope Note	X25-A08U	(2016-)	3D / 4D / 5D printing and additive manufacturing applications	Codes in X25-A08U section are used in conjunction with other X25-A08 codes to highlight what is manufactured using the 3D / 4D / 5D printing and additive manufacturing systems.	
Change Title	X25-A08U9	(2016-)	Other specific 3D / 4D / 5D printing and additive manufacturing applications		
Change Title	X25-A08X	(2016-)	Other details of 3D / 4D / 5D printing and additive manufacturing		
Change Search Terms	X25-A09	(1980-)	Other material working aspects	Includes metallic coating, e.g. plasma deposition, plasma spray coating or plasma transferred arc hardfacing, e.g. for applying wear-resistant metallic material such as Stellite (RTM) to steel. For other coating, such as painting, see X25-K05.	Cement, ceramic, concrete
Change Scope Note/Search Terms	X25-C	(1980-)	Industrial furnaces	Elements for the various heater types are in X25-B. Other details are coded in relevant places in X25-C. Incinerators for industrial waste disposal are also coded under X25-W01A. Mechanical details of general solid waste disposal are coded by P43-E codes.	Cremation
Change Scope Note/Search Terms	X25-P01B	(2006-)	Industrial beer brewing / alcoholic beverage production equipment	Includes electrical aspects of large scale beer or wine making equipment, and - since 2006 - this code also covers electrical details of equipment for producing all type of alcoholic beverages, including spirits, etc. See X27-X02 only for small scale domestic brewing/wine making. Also includes packaging/bottling of beverages. See also X25-F03A1 for bottling.	Distillery, winery
Change Scope Note	X25-S01	(1992-)	Clean room; Computer installation	See also T04-L08 when used with computer installations e.g. data centers, and U11-C15 when the clean room is used during semiconductor manufacturing.	
Change Scope Note	X25-W01A	(2002-)	Incinerators	Electrical details of furnaces are coded under X25-C.	
Change Scope Note	X25-X05	(2002-)	Fire fighting equipment	Includes details of early fire warning systems e.g. in buildings. W05-B02 codes are also assigned for fire alarms. Mechanical details of fire fighting equipment are coded by P35-C codes.	Sprinklers, fire extinguisher
Change Scope Note	X27-B03	(1987-)	Food processors/mixers	Includes juice extractor, food processor tools, ice-cream manufacture, blenders, fruits and vegetables peeling machines. See X27-C08 instead for bread makers. Small handheld fruit and vegetable peelers are coded under X27-B04.	Motor, beater, grinder, chopper, blade, churner
Change Scope Note	X27-B09	(2007-)	Other kitchen appliances	Includes electrical details of food warmer for serving trolley, soda mixer, beverage dispenser for e.g. carbonated drinks, kitchen tap, milk frother (see X27-B01 instead if part of cappuccino machine), buffet food container with automatic lid etc. Also includes cutlery or drinking vessels (cups, glasses, etc.) with electrical content, such as integrated lights, temperature displays, etc. Also includes baby bottle sterilisers and baby food warmers. Food warmers, bottle sterilisers, and cutlery specially made for children/babies are also coded under X27-X01.	
Change Scope Note	X27-E01B2	(1987-)	Ozoniser, air cleaner and freshener, (de)humidifier	Details of air cleaning for computer rooms or laboratories are also coded in T04-L08, and clean rooms are also coded in X25-S01.	Electrostatic, filter, purification, atomiser, ion generation