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**MAC Protocol  
Study Group  
4<sup>th</sup> meeting  
Rome, 7-9 March 2016**

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**Spreadsheet of HS Codes considered by the Study Group for inclusion in the Annexes to the MAC Protocol**

(Prepared by the Secretariat)

<i>Summary</i>	<i>Excel spreadsheet of HS codes proposed by the private sector Working Group and considered by the Study Group</i>
<i>Action to be taken</i>	<i>Discussion</i>
<i>Related documents</i>	<i>UNIDROIT 2016 – Study 72K – SG3 – Doc. 4 UNIDROIT 2016 – Study 72K – SG4 – Doc. 4</i>

**Introduction**

1. The MAC Protocol uses the Harmonized Commodity Description and Coding System (HS System) to identify the types of agricultural, construction and mining equipment to be covered by the Protocol. The HS System is a global nomenclature system developed by the World Customs Organisation (WCO) to achieve uniform classification of commodities or merchandise in international trade. Countries also use it to monitor controlled goods and quota controls, calculate and collect internal excise and sales taxes, compile transport statistics, etc. The HS System is utilised by more than 200 countries and covers 98% of all international trade. The WCO was consulted in determining how the HS System could be utilised for determining the scope of the Protocol, and a senior technical officer from the organisation attended the third Study Group meeting to provide their expertise.

2. 113 codes were proposed by the private sector Working Group for consideration by the Study Group. The Study Group categorised the 113 HS codes into three tiers of suitable (Tier 1), possible (Tier 2) and unsuitable (Tier 3) lists of HS codes. Tier 1 codes have been included in the annexes to the preliminary draft Protocol on the basis that they are suitable for inclusion under the scope of the Protocol. Tier 2 codes were considered to have some merit, however failed to satisfy one or two of the key criteria and required further evidence from the Working Group to demonstrate they did meet all relevant criteria for inclusion. Tier 3 codes failed to meet several key criteria and were excluded from consideration. The Tier 1 codes note whether they cover agricultural, construction and mining equipment, as provided by the Working Group. The Working Group continues to provide input for inclusion in the preliminary list to ensure that the information it contains is as accurate and detailed as possible.

3. This list reflects the categorisation decisions made by the Study Group at its fourth session (Rome, 7-9 March 2016) and contains additional input provided by the Working Group in April 2016.

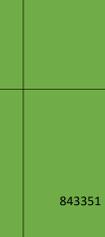
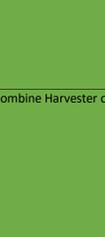
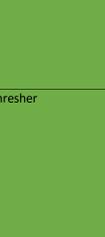
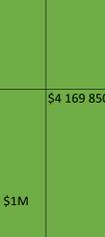
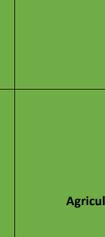
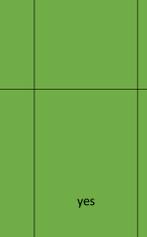
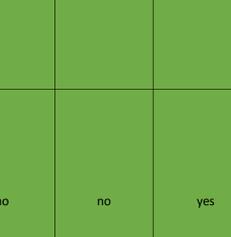
Merged List of HS codes for inclusion in Annexes to the MAC Protocol - As of May 2016												
No.	4 Digit HS Code and Name	Additional sub-grouping	6 Digit HS Code and Name	Examples and uses	Images	Approximate Range of List Prices for New Equipment	Comtrade Statistics	Category	Is Equipment Separately Financed or Leased (Y/N)?	Is Equipment Required to be Affixed to Immovable Property to Function (Y/N)?	Does Equipment Require Installation on other Equipment to Function (Y/N)?	Does Equipment have single manufacturer's Serial Number (Y/N)? If not, are components individually serialized?
<b>CHAPTER 82 - tools, implements, cutlery, spoons and forks, of base metal; parts thereof of base metal</b>												
1	8207 - Interchangeable tools for hand tools, whether or not power-operated, or for machine tools (for example, for pressing, stamping, punching, tapping, threading, drilling, boring, broaching, milling, turning or screw driving), including dies for drawing or extruding metal, and rock drilling or earth boring tools.	Rock drilling or earth boring tools, and parts thereof:	820713 - With working part of cermet	Machines used for tunnel boring (i.e. build tunnels) and parts utilized both in the construction and mining industries.		\$912 843 407		Construction and Mining	yes	no	depends	yes
2				Top Hammer Drill: Normally used in medium to hard rocks and for hole diameters up to 230 mm.				Construction and Mining	yes	no	yes	yes
3				Down-The-Hole Drill - The down-the-hole drill is basically a mini jack hammer that screws on the bottom of a drill string. The fast hammer action breaks hard rock into small flakes and dust and is blown clear by the air exhaust from the DTH hammer. The DTH hammer is one of the fastest ways to drill hard rock.				Construction and Mining	yes	no	yes	yes
4				Mining Drill Jumbo - Drilling jumbos are usually used in underground mining, if mining is done by drilling and blasting. They are also used in tunneling, if rock hardness prevents use of tunneling machines.				Mining	yes	no	yes	yes
5				Furnace Drill - This machinery drills tap holes and cinder notches in slag in blast furnaces and gasification melting furnaces of iron manufacturing companies.				Mining				
6				Mine Crawler Breaker				Mining	yes	no	yes	yes
<b>CHAPTER 84 - Nuclear reactors, boilers, machinery and mechanical appliances; parts thereof</b>												
7	8424 - Mechanical appliances (whether or not hand-operated) for projecting, dispersing, or spraying liquids or powders; fire extinguishers, whether or not charged; spray guns and similar appliances; steam or sand blasting machines and similar jet projecting machines	Other appliances	842481 - Agricultural or Horticultural	Generally, mechanical appliances, including machines that are used for different purposes that can be connected and disconnected from tractors.	Agricultural or horticultural appliance (sprayer): 	\$200,00 - \$450,000	\$3 463 983 906	Agriculture				
8	8426 - Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane	Other machinery, self-propelled	842641 - On tires	Includes a self-propelled crane used to load, unload, and stack cargo containers in shipping ports and terminals.	Crawler crane: 		\$2 718 615 616	Construction	yes	no	no	yes
9				Deck Crane: Located on the ships and boats, these are used for cargo operations or boat unloading and retrieval where no shore unloading facilities are available.				Construction	yes	no	yes	yes
10				Loader Crane: A loader crane (also called a knuckle-boom crane or articulating crane) is a hydraulically-powered articulated arm fitted to a truck or trailer, and is used for loading/unloading the vehicle.				Construction	yes	no	yes	yes
11				Staker Crane: A crane with a forklift type mechanism used in automated (computer controlled) warehouses (known as an automated storage and retrieval system (AS/RS)). The crane moves on a track in an aisle of the warehouse.				Construction				
12				Telescopic Crane: A telescopic crane has a boom that consists of a number of tubes fitted one inside the other. A hydraulic or other powered mechanism extends or retracts the tubes to increase or decrease the total length of the boom.				Construction	yes	no	no	yes
13	8426 - Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane	Other machinery, self-propelled:	842649 - Other	Includes i) derricks which are a kind of crane with a movable pivoted arm for moving or lifting heavy weights, especially onto a ship and ii) the mobile pneumatic conveyor that may be used to transfer grain out of a ship's storage hold and into a hopper located on the dock.	Derrick crane: 		\$2 795 713 121	Construction	yes	yes/no	no	yes
14	8429 - Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers	Bulldozers and angledozers	842911 - Track laying	Crawler, caterpillar, or track-laying tractors run on two continuous tracks consisting of a number of plates or pads pivoted together and joined to form a pair of endless chains, each encircling two wheels on either side of the vehicle.	Track-laying bulldozer: 		\$3 762 704 899	Agriculture, Construction and Mining	yes	no	no	yes
15	8429 - Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers	Bulldozers and angledozers	842919 - Other	Includes graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers.	Bulldozer: 	\$100,000-\$2M	\$328 245 094	Agriculture, Construction and Mining	yes	no	no	yes

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No.	4 Digit HS Code and Name	Additional sub-grouping	6 Digit HS Code and Name	Examples and uses	Images	Approximate Range of List Prices for New Equipment	Comtrade Statistics	Category	Is Equipment Separately Financed or Leased (Y/N)?	Is Equipment Required to be Affixed to Immovable Property to Function (Y/N)?	Does Equipment Require Installation on other Equipment to Function (Y/N)?	Does Equipment have single manufacturer's Serial Number (Y/N)? If not, are components individually serialized?
				Angledozer: Angledozers work best handling broken and granular materials, soils and gravel. The moldboard pivots about it's center point to cast materials left or right.		\$100,000-\$2M		Agriculture, Construction and Mining	yes	no	no	yes
				Straight Dozer: Straight Blades can be made very strong, abrasion resistant and puncture resistant for moving large, sharp and abrasive objects.		\$10,000-\$60,000		Agriculture, Construction and Mining	no	yes	yes	Some
				Semi-U Blade: Built much like a Straight Blade but with a deeper profile and closed ends to help keep granular materials in front for long pushes. Semi-U Blades can be built with good abrasion resistance for materials like gravel, and with puncture resistance for handling large angular pieces of rock.		\$10,000-\$60,000		Agriculture, Construction and Mining	no	yes	yes	some
				U-Blade: These blades are designed to push large quantities of granular materials over long distances.		\$10,000-\$60,000		Agriculture, Construction and Mining	no	yes	yes	some
7	8429 - Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers		842920- Graders and levelers	Typical models have three axles, with the engine and cab situated above the rear axles at one end of the vehicle and a third axle at the front end of the vehicle, with the blade in between. Graders are commonly used in the construction and maintenance of dirt roads and gravel roads. In the construction of paved roads they are used to prepare the base course to create a wide flat surface for the asphalt to be placed on.	Grader: 	\$300,000-\$1.2M	\$2 135 492 649	Agriculture and Construction	yes	no	no	yes
8	8429 - Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers		842930- Scrapers	The scraper is a large piece of equipment used in mining, construction, agriculture for earthmoving.	Elevated scrapper: 	\$100,000 (scraper)-\$1.2M (scraper tractor)	\$122 500 113	Agriculture and Construction	yes	no	no	yes
9	8429 - Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers	Mechanical shovels, excavators and shovel loaders	842951- Front-end shovel loaders:	A loader (bucket loader, front loader, front-end loader, payloader, scoop, shovel, skip loader, or wheel loader) is a heavy equipment machine used in construction to move aside or load materials such as asphalt, demolition debris, dirt, snow, feed, gravel, logs, raw minerals, recycled material, rock, sand, woodchips, etc. into or onto another type of machinery. They are also used the mining and agriculture industries.	Front-end shovel loader: 	\$150,000-\$2.3M	\$9 991 183 976	Agriculture, Construction and Mining	yes	no	no	yes
				Back hoe: Is a type of excavator which consists of a tractor, front shovel bucket and small backhoe in the rear. Is the most common excavator used today.		\$100,000-\$200,000		Agriculture and Construction	yes	no	no	yes
				Dragline: These excavators are much bigger in size and slightly different. They are used in large-scale applications such as on-surface mining and expansive civil engineering.				Construction and Mining	yes	no	no	yes
				Suction excavators: Also known as vacuum excavators. They use a suction pipe that carries away loose soil and debris, cut using the sharp teeth at the edge of the pipe.				Construction and Mining	yes	no	no	yes
				Long reach/long arm: Excavators with long arm and boom sections. They are mostly used for destruction/demolition tasks like breaking down walls and procedural structural crumbling.				Agriculture and Construction	yes	no	no	yes
				Crawlers and compact excavators: Crawlers are high horsepower excavators used in mining and other heavy tasks. Compact excavators are generic machines used to lift of soil and debris using hydraulic power mechanisms.		\$100,000-\$1.1M		Agriculture and Construction	yes	no	no	yes
				Power shovels: They are also known as stripping shovels or front shovels. These are high-end machines used in sectional excavation such as mining and digging. They consist of a revolving device, crane with lifting arm and bucket, counter weight and maneuvering controls.				Construction and Mining	yes	no	no	yes
				Wheel loader: Wheel Loader is a front end loading machine. Wheel loaders dig and do secondary loading as well. Wheel loaders which do only secondary loading are called Pay Loaders.		\$125,000-\$2.3M		Agriculture, Construction and Mining	yes	no	no	yes
10	8429 - Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers	Mechanical shovels, excavators and shovel loaders	842952- Machinery with a 360° degrees revolving superstructure	Includes an excavator that is a power-operated shovel with a 360 degree revolving superstructure.	Excavator with a 360 degrees revolving superstructure: 	\$130,000-\$1.1M	\$20 347 600 913	Agriculture, Construction and Mining	yes	no	no	yes
11	8429 - Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers	Mechanical shovels, excavators and shovel loaders	842959- Other	Excavators primarily designed for excavation and loading of excavated materials.	Mechanical shovel: 	\$20,000-\$6M	\$3 668 687 643	Agriculture, Construction and Mining	yes	no	no	yes



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18	8430 - Other moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or ores; pile-drivers and pile-excavators; snow ploughs and snow-blowers	Other machinery, not self-propelled	843061-- Tamping or compacting machinery	Includes various soil compactors.	Soil compactor: 		\$421 649 976	Construction and Mining	yes	no	no	yes
51				Light Soil Compacting Equipment: Rammers are used for compacting small areas by providing impact load to the soil. This equipment is light and can be hand or machine operated.				Construction				
52				Light Soil Compacting Equipment: Vibrating Plate Compactors: Vibrating plate compactors are used for compaction of coarse soils with 4 to 8% fines. These equipment's are used for small areas. Vibratory plates produce low-amplitude, high-frequency vibrations best suited for compacting granular soils.				Construction				
53				Light Soil Compacting Equipment: Vibro Tampers: Vibro tampers is used for compaction of small areas in confined space. This machine is suitable for compaction of all types of soil by vibrations set up in a base plate through a spring activated by an engine driven reciprocating mechanism.				Construction				
54				Heavy Soil Compaction equipment: Smooth Wheeled Rollers: Static Smooth Wheeled Rollers: The most suitable soils for these roller type are well graded sand, gravel, crushed rock, asphalt etc. where crushing is required. These are used on soils which does not require great pressure for compaction. These rollers are generally used for finishing the upper surface of the soil. These roller are not used for compaction of uniform sands.		\$100,000-\$300,000		Construction	yes	no	no	yes
55				Heavy Soil Compaction equipment: Smooth Wheeled Rollers: Vibrating Smooth Wheeled Rollers: In case of vibrating smooth wheeled rollers, the drums are made to vibrate by employing rotating or reciprocating mass. These rollers are expensive but in the long term the cost becomes economical due to their higher outputs and improved performance.		\$100,000-\$300,000		Construction	yes	no	no	yes
56				Heavy Soil Compaction equipment: Sheep Foot Roller: Sheep foot rollers are used for compacting fine grained soils such as heavy clays and silty clays. Sheep foot rollers are used for compaction of soils in dams, embankments, subgrade layers in pavements and rail road construction projects. Sheep foot rollers are of static and vibratory types.		\$100,000-\$300,000		Construction	yes	no	no	yes
57				Heavy Soil Compaction equipment: Pneumatic Tyred Rollers: Pneumatic tyred rollers are also called as rubber tyred rollers. These rollers are used for compaction of coarse grained soils with some fines. These rollers are least suitable for uniform coarse soils and rocks. Generally pneumatic tyred rollers are used in pavement subgrade works both earthwork and bituminous works.		\$100,000-\$300,000		Construction	yes	no	no	yes
58				Heavy Soil Compaction Equipment: Grid Rollers: Grid rollers are used for compaction of weathered rocks, well graded coarse soils. These rollers are not suitable for clayey soils, silty clays and uniform soils. The main use of these rollers are in subgrade and sub-base in road constructions.		\$100,000-\$300,000		Construction	yes	no	no	yes
59				Heavy Soil Compaction Equipment: Pad Foot/Tamping Rollers: These rollers are similar to sheep foot rollers with lugs of larger area than sheep foot rollers. Are designed for compacting cohesive soils and are often used in the confined space of utility trenches. These machines feature large eccentric weights to produce the high impact force and relatively high amplitude needed to compact cohesive clay and mixed soils.		\$100,000-\$300,000		Construction	yes	no	no	yes
60	8430 - Other moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or ores; pile-drivers and pile-excavators; snow ploughs and snow-blowers	Other machinery, not self-propelled	843069-- Other		Concrete level truss screed machine: 		\$1 396 478 725	Construction				
61												
62	8432 - Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers		843210-- Plows	It includes plows that are large farming implements with one or more blades affixed to a frame, drawn by a tractor and used for cutting furrows in the soil and turning it over, especially to prepare for the planting of seeds.	Plow: 	\$15,000-\$125,000	\$522 589 288	Agriculture				
63				Moldboard plow: The MouldBoard version cut the furrow slices into pulverized form. The main use of this tool is to cover vegetables and green manure crops. It is also used for inverting grass into the soil after rainfall. There are three different types of mouldboard plough: trailed, mounted and semi mounted.		\$15,000 - \$80,000		Agriculture				
64				Chisel plow: This type of plow is for breaking up the soil. Typically, we use chisel plows for deep tillage. Chisel plows disturb the soil below the surface, and try to reduce the amount of top layers disturbed.		\$10,000 - \$100,000		Agriculture				
65				Ridge plow: We use these types of plows to create ridges for particular crops.				Agriculture				

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66				Disc plow: Disc plows cut in terms soil by using discs instead of a wedge-shaped blade. The idea behind using a disk instead of something like a mold board plow is to help reduce friction. The Disc Plows can generally divided into 2 categories. They are: Bullock Based and Tractor Based.		\$100,000 (disc chisel)		Agriculture				
67				Subsoiler: The subsoiler, sometimes called a mole plow, attaches rake blades (also named rippers) to a plow frame to dig deep below the surface of the field.		\$60,000 - \$125,000 (disc ripper)		Agriculture				
68				Rotary hoe or rotary plow: This type of plough is very popular nowadays due to their specific use in seed bed preparation. The cutting of soil is done by steel tines or blades.				Agriculture				
69				Reversible plow: This type of plough is very popular nowadays due to their specific use in seed bed preparation. The cutting of soil is done by steel tines or blades.				Agriculture				
70	8432 - Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers	Harrows, scarifiers, cultivators, weeders and hoes	843221-- Disc harrows	Includes a disc harrow that is a farm implement that is used to cultivate the soil where crops are to be planted. It is also used to chop up unwanted weeds or crop remainders. It consists of many iron or steel discs which have slight concavity and are arranged into two or four sections.	Disc harrow: 	\$60,000 - \$140,000	\$396 570 075	Agriculture				
71				Spring Harrows: This type of harrow is an older style. It isn't used very often. It uses flexible iron teeth that mounted in rows to loosen up the soil to prepare it for planting.				Agriculture				
72				Roller Harrow: We use roller harrows to prepare soil for seed planting. They are supposed to crush the soil and break up any lumps of dirt. Usually this type of harrows follows a spring harrow.				Agriculture				
73				Chain Harrow: We use chain harrows to aerate the soil, lift matter off the ground, and to help spread out matter in the field. Sometimes they to cover seed, and loosen packed soil.				Agriculture				
74	8432 - Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers		843230- Seeders, planters and transplanters	It includes i) seeder which is a machine for sowing seed mechanically; ii) planters which is an implement or machine for planting seeds in the ground; and iii) a seed drill that may be used for pasture overseeding or for use over plowed ground.	Seeder: 	\$20,000 - \$200,000 (Drills) \$300,000 (seeding equipment) \$500,000 (planters)	\$1 639 281 482	Agriculture				
75				Broadcast Seeder: Also called a rotary spreader. Quick, efficient way to spread seed, fertilizer, weed and pest control or ice melt. Has a hopper on a metal cart. The broadcast platform turns as the wheels move across the yard. Feathers the spread of seed, eliminating sharply defined edges of spread.				Agriculture				
76				Air Seeder: Air seeders tend work best with smaller seeds because the way they operate. Aren't as multi-purpose as others seeders can be. Need to be used with round and small seeds.		\$60,000 - \$200,000 (Air Drills)		Agriculture				
77				Box Drill Seeder: They are the ones that you use for most seeds. Many small farms use box drills because they are multi-purpose.				Agriculture				
78				Planters: Planters are the most accurate type of seeder available, and they are the most expensive ones.		\$30,000 - \$500,000		Agriculture				
79				Drop Seeder: Spreads precise seed and fertilizer spreading over smaller areas. Dispenses material with the pull of a lever.				Agriculture				
80				Handheld Spreader: Used to spread small amounts of fertilizer, grass seed or ice melt. Since it does not have wheels, the spreader uses a hand-turned lever to spin the broadcast platform.				Agriculture				
81	8432 - Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers		843240 - Manure Spreaders and fertilizer distributors	It includes i) a manure spreaders, muck spreaders or honey wagons which are agricultural machines used to distribute manure over a field as a fertilizer and ii) a fertilizer distributor which is a machine used to distribute fertilizer evenly into crops.	Manure spreader (attached to tractor): 	\$10,000 - \$60,000	\$486 560 702	Agriculture				
82				Box spreaders with spinner beaters: This spinner discharge can handle many dry, flowable, high-value materials such as compost, poultry litter, and industrial materials. A heavy-duty metering endgate, effectively controls the movement of materials to the spinners.		\$250,000 - \$350,000 (Dry Spinner Spreader)		Agriculture				
83				Box spreaders with horizontal beaters: A box spreader with horizontal beaters is a great choice for a basic manure spreader. It has a relatively low power requirement and is simple to operate. In addition, the spread pattern of this type of machine is relatively narrow and covers just the width of the spreader to the outside of the tire tracks.				Agriculture				

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84				Box spreaders with vertical beaters: These spreaders provide an excellent spread pattern and exceptional breakup of materials. These characteristics, combined with a fast unloading time, make this type of spreader an ideal choice for producers seeking to take maximum advantage of the nutrient value of their manure, from pen pack to dry yard manure.				Agriculture				
85				Side discharge spreader: Side discharge spreaders provide excellent material breakup and have the widest spread pattern of the four spreader types. In addition, this type of spreader provides the finest and thinnest application of wet manure, due to our undershot hammer design, making these machines ideal for top dressing on tender forage crops and spreading manure at low tons-per-acre application rates.		\$35,000 - \$60,000		Agriculture				
86				Rotary fertilizer spreader: The rotary spreader is used for spreading dry, evenly-sized fertilizers such as granular fertilizer. Rotary spreaders provide even coverage for soil and can also be used to reseed lawns and spread salt on winter ice. The rotary fertilizer spreader releases fertilizer onto a disk that throws in a semi-circle ahead of the machine.				Agriculture				
87				Liquid fertilizer spreader: Liquid fertilizer spreaders work by attaching a garden hose to a canister with an adapter nozzle. The canister contains dry fertilizer that is designed to dissolve quickly. The fertilizer is then sprayed out the end of the adapter nozzle. Liquid spreaders are good for quick, light fertilizing jobs, but lack the accuracy and even application provided by rotary or drop spreaders.				Agriculture				
88				Drop fertilizer spreader: The drop spreader can be used for granular fertilizer or uneven materials like mulch or compost. It requires open space for best results, as it must be worked in straight, overlapping lines. On each pass of a drop fertilizer spreader, you cover half of the previous pass. This is usually accomplished by matching up a marker with the wheel track of the previous pass				Agriculture				
24	8433 - Harvesting or Threshing Machinery, including Straw or Fodder Balers; Grass or Hay Mowers; Machines for Cleaning, Sorting or Grading Eggs, Fruit or other Agricultural Produce; Other than Machinery of Heading 8437		843340	Straw or Fodder Balers		\$150,000 - \$800,000	\$1 201 955 594	Agriculture	yes	no	yes	yes
25	8433 - Harvesting or Threshing Machinery, including Straw or Fodder Balers; Grass or Hay Mowers; Machines for Cleaning, Sorting or Grading Eggs, Fruit or other Agricultural Produce; Other than Machinery of Heading 8437		843351	Combine Harvester or Thresher		\$300,000 - \$1M	\$4 169 850 047	Agriculture	yes	no	no	yes
26	8436 - Other agricultural, horticultural, forestry, poultry-keeping or bee-keeping machinery, including germination plant fitted with mechanical or thermal equipment, poultry incubators and brooders		843680 - Other machinery	It includes i) an agricultural tractor with a readily-removable wood harvester unit; ii) a tree harvesting machine is a tracked excavator-like propelling base which is specifically designed to be used with a variety of harvesting heads for the first thinning of trees; and iii) a wood chipper designed to chip branches and cuttings from trees and shrubs.			\$2 461 901 653	Agriculture	yes	maybe	maybe	
27	8474 - Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including powder or paste) form; machinery for agglomerating, shaping or moulding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry molds of sand.	Mixing or kneading machines	847431 - Concrete or mortar mixers	Machinery of this type is used, mainly in the extractive industries, for the treatment (mixing) of solid mineral products.			\$1 335 590 858	Construction and Mining				
28	8474 - Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including powder or paste) form; machinery for agglomerating, shaping or moulding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry molds of sand.	Mixing or kneading machines	847432 - Machines for mixing mineral substances with bitumen	Machinery of this type is used, mainly in the extractive industries, for the treatment (mixing) of solid mineral products.			\$654 705 889	Construction				
29	8479 - Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter.	Other machines and mechanical appliances:	847982 - Mixing, kneading, crushing, grinding, screening, sifting, homogenizing, emulsifying or stirring machines.	Machinery of this type has individual function it has been designed for, which can only be performed distinctly from and independently of any other machine or appliance.		\$50,000-\$5M	\$4 365 852 347	Construction				
30	8479 - Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter.		847910 - Machinery for public works, building or the like	It includes i) a power trowel to float and finish concrete; ii) a worm gear used in concrete finishing machines; and iii) an ice breaker which is a machine designed to remove dangerous ice sheets which can form on road surfaces.			\$2 707 854 095	Construction				

Merged List of HS codes for inclusion in Annexes to the MAC Protocol - As of May 2016												
No.	4 Digit HS Code and Name	Additional sub-grouping	6 Digit HS Code and Name	Examples and uses	Images	Approximate Range of List Prices for New Equipment	Comtrade Statistics	Category	Is Equipment Separately Financed or Leased (Y/N)?	Is Equipment Required to be Affixed to Immovable Property to Function (Y/N)?	Does Equipment Require Installation on other Equipment to Function (Y/N)?	Does Equipment have single manufacturer's Serial Number (Y/N)? If not, are components individually serialized?
CHAPTER 87 - Vehicles other than railway or tramway rolling stock, and parts and accessories thereof												
31	8701 - Tractors (other than tractors of heading 8709)		870130- Track-laying tractors	It includes tractors propelled using a track-laying mechanism (i.e. continuous band of treads driven by two or more wheels).	Track-laying tractor: 	\$125,000-\$1.7M	\$1 387 998 730	Agriculture, Construction and Mining	yes	no	no	yes
				Half Track Type Tractors: In these types of Tractors, a small track chain is fitted at the rear end only while tires are fitted at the front axle. Track Type Tractors are generally used for reclaiming barren lands and are not much used for Agricultural tasks.				Agriculture and Construction	yes	no	no	yes
32	8701 - Tractors (other than tractors of heading 8709)		870190-Other	It includes i) agricultural tractors, ii) a log skidder which is a wheeled tractor with front-mounted dozer and either a rear-mounted grapple or a cable winch; and iii) forestry machinery such as feller bunchers, material handlers, skidders, a delimer, harvesters, a log forwarder, felling heads, a mulcher and a street trencher.	Log skidder:  	\$300,000 - \$600,000 (Harvesters)	\$20 916 821 413	Agriculture and Construction	yes	no	no	yes
				Wheel Type Tractor: Two Wheeled: Their primary usage is in Agricultural tasks. They have fast running speed and the fitted tires are able to absorb certain amount of field shock too.				Agriculture	yes	no	no	
				Wheel Type Tractor: Three Wheel or Tricycle Type: Three Wheeled Tractors were very popular 20 years back but now they have been replaced by Four Wheelers. They had single or dual wheel fitted at front end and were considered apt for moving around shorter turns.				Agriculture and Construction	yes	no	no	
				Wheel Type Tractor: Four Wheeler Type		\$20,00 - \$900,000 (Tractors)		Agriculture and Construction	yes	no	no	
33	8704 - Motor vehicles for the transport of goods		870410- Dumpers designed for off-highway use	It includes off-highway dump trucks that are used strictly off-road for mining and heavy dirt hauling jobs.	Off-highway dumpers: 	\$700,000-\$7M	\$5 856 336 815	Construction and Mining	yes	no	no	yes
34	8705 - Special purpose motor vehicles, other than those principally designed for the transport of persons or goods (for example, breakdown lorries, crane lorries, fire fighting vehicles, concrete-mixer lorries, road sweeper lorries, spraying lorries, mobile workshops, mobile radiological units).		870510- Crane Lorries	It includes i) a mobile crane that is a cable-controlled crane mounted on crawlers or rubber-tired carriers or ii) a hydraulic-powered crane with a telescoping boom mounted on truck-type carriers or as self-propelled models.	Mobile crane: 		\$4 345 227 874	Construction	yes	no	no	yes
35	8705 - Special purpose motor vehicles, other than those principally designed for the transport of persons or goods (for example, breakdown lorries, crane lorries, fire fighting vehicles, concrete-mixer lorries, road sweeper lorries, spraying lorries, mobi		870540 - Concrete-mixer lorries	Includes Motor breakdown lorries, Motor pump vehicles, Lorries fitted with ladders or elevator platform, Lorries used for cleansing streetset, etc..			\$1 077 781 189	Construction	yes	no	no	yes
36	8716 - Trailers and semi-trailers; other vehicles, not mechanically propelled; parts thereof.		871620 - Self-loading or self-unloading trailers and semi-trailers for agricultural purposes	Includes Self-loading agricultural trailers fitted with automatic loading devices.			\$760 282 145	Agriculture, Construction and Mining				



	A	B	C	D	E	F	G	H	I	V	W	X	Y	Z	AA
1	Merged List of HS codes for inclusion under the MAC Protocol - As of March 2016														
2	No.	4 Digit HS Code and Name	Additional sub-grouping	6 Digit HS Code and Name	Examples and uses	Images	Approximate Range of List Prices for New Equipment	Comtrade Statistics	Category	Is Equipment Separately Financed or Leased (Y/N)?	Is Equipment Required to be Affixed to Immovable Property to Function (Y/N)?	Does Equipment Require Installation on other Equipment to Function (Y/N)?	Does Equipment have single manufacturer's Serial Number (Y/N)? If not, are components individually serialized?	Comments	Private sector consultation
6		8431 - Parts suitable for use solely or principally with the machinery of headings 84.25 to 84.30	Of machinery of heading 8426 [e.g. Ship's derricks, cranes, etc.], 8429 [e.g. Self-propelled bulldozers, graders, etc.] or 8430 [e.g. Other moving, grading, leveling, etc.].	843143-- Parts for boring or sinking machinery of subheading 8430.41 or 8430.49	Includes i) drill collar bars that may be used principally on offshore drilling platforms and ii) non-magnetic drill collars that are solely or principally used on oil and gas well drilling machinery.	Drill collar bars: 		\$20 902 527 143	M/A/C					<ul style="list-style-type: none"> <li>This HS code covers parts and is likely to cover a wide variety of low value objects</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> <li>The code appears to specifically cover MAC industry accessories, however private industry will have to demonstrate high value and unique identifiability</li> </ul>
7		8431 - Parts suitable for use solely or principally with the machinery of headings 84.25 to 84.30	Of machinery of heading 8426 [e.g. Ship's derricks, cranes, etc.], 8429 [e.g. Self-propelled bulldozers, graders, etc.] or 8430 [e.g. Other moving, grading, leveling, etc.].	843149-- Other	Includes i) straddle carriers that are self-propelled machines used in container terminals to load, unload, stack, and transport containers over short distances and ii) jarret shock absorbers that absorb energy in order to reduce shock forces, thus protecting equipment against excessive impact loads.	Straddle carrier: 		\$24 697 891 394	C/A					<ul style="list-style-type: none"> <li>This HS code covers parts to objects commonly used outside the MAC industries</li> <li>This HS code covers parts and is likely to cover a wide variety of low value objects</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> <li>Requested by Japanese manufacturers for inclusion in Tier 1 in March 2016</li> </ul>
8		8432 - Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers	Harrows, scarifiers, cultivators, weeders and hoes	843229-- Other	It includes a cultivator that may be used for breaking sod, preparing seed beds and for cultivating gardens and flower beds.	Weeder: 	\$30,000 - \$100,000 (cultivators)	\$1 300 834 313	A	yes	no	yes	<ul style="list-style-type: none"> <li>This HS is likely to cover low value objects</li> <li>This code does not cover parts (parts for 8432 is covered by 843290)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> <li>Need evidence of high-value MAC equipment being produced under this code</li> </ul>	
9		8432 - Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports-ground rollers		843280- Other machinery	It includes tow behind spreaders, aerators, and de-thatchers used in agriculture.	De-thatcher: 		\$1 064 251 801	A	yes	no	yes	<ul style="list-style-type: none"> <li>This HS code is likely to cover a wide variety of low value objects, particularly as this code covers 'other'</li> <li>This code does not cover parts (parts for 8432 is covered by 843290)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> <li>Need evidence of high-value MAC equipment being produced under this code</li> </ul>	
10		8433 - Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading 84.37		843320-- Other mowers, including cutter bars for tractor mounting	It includes i) cutter bars for tractor mounting and ii) heavy duty mowers principally designed to cut grass, stubble and other growth.	Cutting bar for tractor mounting: 	\$15,000 - \$35,000 (Cutter) \$9,000 - \$75,000 (Mowers/Mower-Conditioner)	\$1 334 494 359	A	yes	no	yes	<ul style="list-style-type: none"> <li>This code does not cover parts (parts for 8433 is covered by 843390)</li> <li>This HS is likely to cover low value objects</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Included as an HS code produced by Working Group members (October 2015), however not as a priority code</li> </ul>	
11		8433 - Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading 84.37	Other harvesting machinery; threshing machinery	843359-- Other	It includes i) a seed drill that may be used for pasture overseeding or for use over plowed ground and ii) tree shaking harvester that applies force to dislodge the tree's produce.	Tree shaking harvester: 		\$1 483 220 272	A	yes	no	yes	<ul style="list-style-type: none"> <li>This code does not cover parts (parts for 8433 is covered by 843390)</li> <li>This HS code is likely to cover a wide variety of low value objects, especially as it covers 'other'</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	
12		8467 - Tools for working in the hand, pneumatic, hydraulic or with self-contained electric or non-electric motors	Pneumatic	846711-- Rotary type (including combined rotary-percussion):	It includes a i) sanding system; ii) pneumatic die grinder kit; and iii) grinders, polishers and sanders suitable for metal working.	Pneumatic vane gearmotor: 		\$1 101 696 190	C/M/A				<ul style="list-style-type: none"> <li>This code does not cover parts (parts for 8467 is covered by 846792)</li> <li>The scope of this HS code is not clear - it may cover goods for use outside the MAC industries (due partially to the vague description of tools under heading 8467).</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	
13		8467 - Tools for working in the hand, pneumatic, hydraulic or with self-contained electric or non-electric motors	Pneumatic	846719-- Other	It includes i) an air nibbler which is a sheet metal cutting tool; ii) a spring blade that is used to affix drywall to light gauge steel; and iii) pruning tying machine used to tie the bundled nursery stock such as fruit trees and grape vines.	Pruning machine: 		\$901 139 872	A	maybe	no	maybe	<ul style="list-style-type: none"> <li>This code does not cover parts (parts for 8467 is covered by 846792)</li> <li>The scope of this HS code is not clear - it may cover goods for use outside the MAC industries (due partially to the vague description of tools under heading 8467).</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	
13					Topper/Hedgers: Designed to meet the growing demand for extra reach and a wider cutting pass in the topping position. The center boom provides the ability to operate efficiently in tight planted orchards of all varieties and provides the ability to gable top a tree in one pass.				A		no	yes		<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	

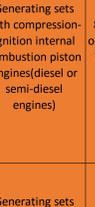
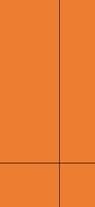
Merged List of HS codes for inclusion under the MAC Protocol - As of March 2016														
No.	4 Digit HS Code and Name	Additional sub-grouping	6 Digit HS Code and Name	Examples and uses	Images	Approximate Range of List Prices for New Equipment	Comtrade Statistics	Category	Is Equipment Separately Financed or Leased (Y/N)?	Is Equipment Required to be Affixed to Immovable Property to Function (Y/N)?	Does Equipment Require Installation on other Equipment to Function (Y/N)?	Does Equipment have single manufacturer's Serial Number (Y/N)? If not, are components individually serialized?	Comments	Private sector consultation
25				Dual Boom Hedgers: Designed to hedge both sides of a row in a single pass. The unique design of the machine ensures that the width and angle of the cutting arms are equal with respect to the center of the machine regardless of their adjusted position.				A	no	yes			<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	
26				Skirters: Have branches which stretch clear to the ground. These branches must be pruned in order to allow efficient and clean harvesting. Furthermore, in order to get maximum yield from a given area, rows are planted relatively close together. Once bushes are mature hedging is required for access and sunlight penetration.				A	no	yes			<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	
14	8474 - Machinery for sortings, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including power or paste) for+B159-N166m; machinery for agglomerating, shaping or molding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry molds of sand.		847420-- Crushing or grinding machines	It includes i) a crushing machine designed to reduce large rocks into smaller rocks, gravel, or rock dust and ii) a grinding machine that is a power tool used for grinding, which is a type of machining using an abrasive wheel as the cutting tool.	Stone crushing machine: 		\$3 824 830 389	C/M	yes	no	maybe		<ul style="list-style-type: none"> <li>This code does not cover parts (parts for 8474 is covered by 847490)</li> <li>The scope of this HS code is not clear - it may cover goods for use outside the MAC industries and low value goods</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
27				Hydraulic Crusher: Jaw Crusher: Ideal for mining, surface or underground application. Created crush hardest materials: rock (hard & soft) gravel; recycling; industrial material, slag foundry waste."				C/M					<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	
28				Hydraulic Crusher: Gyratory Crusher: Both Stationary and semi-mobile, this machine crushes the hardest rock and ores. 600 rpm, it can function with a 1600 hp motor.				C/M					<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	
29				Hydraulic Crusher: Cone Crusher: A cone crusher breaks rock by squeezing the rock between an eccentrically gyrating spindle, which is covered by a wear resistant mantle, and the enclosing concave hopper, covered by a manganese concave or a bowl liner.				C/M					<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	
30				Hydraulic Crusher: Compound Crusher: Are vertical fine crushers. Used for raw materials, especially highway stone and artificial stone (limestone).				C/M					<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	
31				Hydraulic Crusher: Horizontal Shaft Impactor: The HSI crushers break rock by impacting the rock with hammers that are fixed upon the outer edge of a spinning rotor. HSI machines are sold in Stationary, trailer mounted and crawler mounted configurations. HSI's are used in recycling, hard rock and soft materials.				C/M					<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	
32				Hydraulic Crusher: Vertical Shaft Impactor: VSI crushers use a different approach involving a high speed rotor with wear resistant tips and a crushing chamber designed to 'throw' the rock against. The VSI crushers utilize velocity rather than surface force as the predominant force to break rock.				C/M					<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	
33				Hydraulic Crusher: Mineral Sizer: The basic concept of the mineral sizer is the use of two rotors with large teeth, on small diameter shafts, driven at a low speed by a direct high torque drive system.				C/M					<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>	
CHAPTER 87 - Vehicles other than railway or tramway rolling stock, and parts and accessories thereof														
15	8704 - Motor vehicles for the transport of goods	Other, with compression-ignition internal combustion piston engine (diesel or semi-diesel)	870423-- G.V.V. exceeding 20 metric tons	It includes i) a cargo vehicle equipped with a hydraulically-operated lifting and lowering platform designed for the transport of heavy loads and ii) timberjack forestry forwarders are solely used for loading logs and hauling logs for short distances.	Timberjack forwarded: 		\$16 877 563 267	A	yes	no	no		<ul style="list-style-type: none"> <li>This code does not cover parts (parts for 8701-8705 are covered by 8708)</li> <li>Due to the possibility of low value motor vehicles used for transport of goods being covered under this 'other' category, manufacturers will have to provide examples of high value tractors covered by this HS code</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>

Merged List of HS codes for inclusion under the MAC Protocol - As of March 2016														
No.	4 Digit HS Code and Name	Additional sub-grouping	6 Digit HS Code and Name	Examples and uses	Images	Approximate Range of List Prices for New Equipment	Comtrade Statistics	Category	Is Equipment Separately Financed or Leased (Y/N)?	Is Equipment Required to be Affixed to Immovable Property to Function (Y/N)?	Does Equipment Require Installation on other Equipment to Function (Y/N)?	Does Equipment have a single identifiable model designation (Y/N)? If multiple designations, what informs which is used (e.g. country of manufacture, etc.)?	Comments	Private sector consultation
<b>CHAPTER 82 - tools, implements, cutlery, spoons and forks, of base metal; parts thereof of base metal</b>														
1	8207 - Interchangeable tools for hand tools, whether or not power-operated, or for machine tools (for example, for pressing, stamping, punching, tapping, threading, drilling, boring, broaching, milling, turning or screw driving), including dies for drawing or extruding metal, and rock drilling or earth boring tools.	Rock drilling or earth boring tools, and parts thereof.	820719--Other, including parts:	Parts of rock drills and earth boring tools.	Part of earth boring machine: 	\$3 030 359 676		C/M	no				<ul style="list-style-type: none"> <li>This HS code covers other and parts (especially in relation to 820713), which deems it likely to cover a wide variety of low value accessories.</li> <li>The Explanatory Notes to Chapter 82.07 (covering this type of equipment) notes that 'this heading covers an important group of tools which are unsuitable for use independently, but are designed to be fitted [into other types of equipment].'</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
<b>CHAPTER 84 - Nuclear reactors, boilers, machinery and mechanical appliances; parts thereof</b>														
2	8407 - Spark-ignition reciprocating or rotary internal combustion piston engines	Reciprocating piston engines of a kind used for the propulsion of vehicles of chapter 87	840731-- Of a cylinder capacity not exceeding 50 cc	Includes engines that may be used in the manufacture of other machines (e.g. motorized scooters)	Piston engine: 	\$46 170 489		?	no				<ul style="list-style-type: none"> <li>This HS code covers engines to Chapter 87 (vehicles other than railway or tramway rolling-stock and parts and accessories thereof), and will thus be commonly used outside the MAC Industries</li> <li>This HS code covers engines (an accessory)</li> <li>This HS code covers low value goods (low power engines will be of low value)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
3	8407 - Spark-ignition reciprocating or rotary internal combustion piston engines	Reciprocating piston engines of a kind used for the propulsion of vehicles of chapter 87	840732-- Of a cylinder capacity exceeding 50cc but not exceeding 250 cc	Same as above but higher capacity.	ATV engine: 	\$695 289 685		?	no				<ul style="list-style-type: none"> <li>This HS code covers engines to Chapter 87 (vehicles other than railway or tramway rolling-stock and parts and accessories thereof), and will thus be commonly used outside the MAC Industries</li> <li>This HS code covers engines (an accessory)</li> <li>This HS code covers low value goods (low power engines will be of low value)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
4	8407 - Spark-ignition reciprocating or rotary internal combustion piston engines	Reciprocating piston engines of a kind used for the propulsion of vehicles of chapter 87	840733-- Of a cylinder capacity exceeding 250cc but not exceeding 1,000 cc	Same as above but higher capacity.	Arctic cat engine: 	\$1 573 063 215		?	no				<ul style="list-style-type: none"> <li>This HS code covers engines to Chapter 87 (vehicles other than railway or tramway rolling-stock and parts and accessories thereof), and will thus be commonly used outside the MAC Industries</li> <li>This HS code covers engines (an accessory)</li> <li>This HS code covers low value goods (low power engines will be of low value)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
5	8407 - Spark-ignition reciprocating or rotary internal combustion piston engines	Reciprocating piston engines of a kind used for the propulsion of vehicles of chapter 87	840734 - of a cylinder capacity exceeding 1,000cc	Same as above but higher capacity.		\$33 627 440 000		?	no				<ul style="list-style-type: none"> <li>This HS code covers engines to Chapter 87 (vehicles other than railway or tramway rolling-stock and parts and accessories thereof), and will thus be commonly used outside the MAC Industries</li> <li>This HS code covers engines (an accessory)</li> </ul>	<ul style="list-style-type: none"> <li>Included as equipment produced by members of the MAC Protocol Working Group during consultations in October 2015.</li> </ul>
6	8407 - Spark-ignition reciprocating or rotary internal combustion piston engines		840790-- Other engines	Other engines that may be installed in agricultural and horticultural machinery.	Horticultural machine engine: 	\$3 449 970 308		?					<ul style="list-style-type: none"> <li>This HS code covers other engines, not only limited to the propulsion of Chapter 87 vehicles.</li> <li>It will be commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
7	8408 - Compression-ignition internal combustion piston engines (diesel or semi-diesel engines)		840810-- Marine propulsion engines	Marine propulsion engines that power vessels.	CAT marine propulsion engine: 	\$4 305 072 586		?	yes	no	yes		<ul style="list-style-type: none"> <li>This HS code covers engines which are commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Included as an HS code produced by Working Group members (October 2015), but not identified as a priority code</li> </ul>
8	8408 - Compression-ignition internal combustion piston engines (diesel or semi-diesel engines)		840820-- Engines of a kind used for the propulsion of vehicles of chapter 87 (Tractors and other vehicles):	Includes engines that may power tractors suitable for agricultural use.	Tractor engine: 	\$35 404 810 042		?	yes	no	yes		<ul style="list-style-type: none"> <li>This HS code covers engines to Chapter 87 (vehicles other than railway or tramway rolling-stock and parts and accessories thereof), and will thus be commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Included as an HS code produced by Working Group members (October 2015), but not identified as a priority code</li> </ul>
9	8408 - Compression-ignition internal combustion piston engines (diesel or semi-diesel engines)		840890-- Other engines:	Includes engines other than those utilized to power vessels and agricultural/horticultural machinery under the preceding two codes.	Mining equipment engine: 	\$14 751 315 148		?	yes	no	yes		<ul style="list-style-type: none"> <li>This HS code covers other engines, not only limited to the propulsion of Chapter 87 vehicles.</li> <li>It will be commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
10	8409 - Parts suitable for use solely or principally with the engines of heading 84.07 or 84.08	Other	Other: 840991-- Suitable for use solely or principally with spark-ignition internal combustion piston engines	Includes spark ignition engines that may be used to power vessels, vehicles and machinery.	Rotary engine parts: 	\$32 227 204 501		?					<ul style="list-style-type: none"> <li>This HS code covers parts to spark-ignition internal combustion piston engines covered, other than aircraft engines</li> <li>This HS code covers parts to engines commonly used outside the MAC industries</li> <li>This HS code covers parts and is likely to cover a wide variety of low value objects</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
11	8409 - Parts suitable for use solely or principally with the engines of heading 84.07 or 84.08	Other	840999--Other:	Includes engines that may be used to power construction machinery.	Construction machinery engine: 	\$36 328 672 521		?	yes	no	yes		<ul style="list-style-type: none"> <li>This HS code covers parts to engines covered under headings 8407 and 8408, other than aircraft engines</li> <li>This HS code covers parts to engines commonly used outside the MAC Industries</li> <li>This HS code covers parts and is likely to cover a wide variety of low value objects</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
12	8411 - Turbo-jets, turbo propellers and other gas turbines	Other gas turbines	841181 - Other gas turbines - Of a power not exceeding 5000kW			\$2 141 352 311							<ul style="list-style-type: none"> <li>This HS code covers engines for objects commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included as equipment produced by members of the MAC Protocol Working Group during consultations in October 2015.</li> </ul>
13	8411 - Turbo-jets, turbo propellers and other gas turbines	Other gas turbines	841182 - Other gas turbines - Of a power exceeding 5000kW			\$7 961 500 039							<ul style="list-style-type: none"> <li>This HS code covers engines for objects commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included as equipment produced by members of the MAC Protocol Working Group during consultations in October 2015.</li> </ul>
14	8412 - Other engines and motors	Hydraulic power engines and motors -	841221-- Linear acting (cylinders)	Includes engines that may be used to provide the force to operate the control valves of a steam turbine.	Steam turbine engine: 	\$4 939 531 204		?					<ul style="list-style-type: none"> <li>This HS code covers engines which are commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>

Merged List of HS codes for inclusion under the MAC Protocol - As of March 2016														
No.	4 Digit HS Code and Name	Additional sub-grouping	6 Digit HS Code and Name	Examples and uses	Images	Approximate Range of List Prices for New Equipment	Comtrade Statistics	Category	Is Equipment Separately Financed or Leased (Y/N)?	Is Equipment Required to be Affixed to Immovable Property to Function (Y/N)?	Does Equipment Require Installation on other Equipment to Function (Y/N)?	Does Equipment have a single identifiable model designation (Y/N)? If multiple designations, what informs which is used (e.g. country of manufacture, etc.)?	Comments	Private sector consultation
15	8412 - Other engines and motors	Hydraulic power engines and motors -	841229-- Other	Includes hydrojets (thrusters) that are basically high capacity pumps which draw water into through a special intake, and discharge it at enhanced pressure through a steerable nozzle. They are fast becoming an alternative means of vessel propulsion.	Industrial high capacity pump: 	\$3 867 468 302		?					• This HS code covers engines which are commonly used outside the MAC industries	• Included in initial list from 2014 industry consultations • Not included in any priority lists (as at October 2015)
16	8412 - Other engines and motors	Pneumatic power engines and motors:	841231-- Linear acting (cylinders)	Engines that may be used for a wide range of mechanical applications, including machine tools, hoists and davits, farm machinery, construction equipment, robotics, and other industrial machines.	Air car engine: 	\$1 747 444 348		?	yes	no	yes		• This HS code covers engines which are commonly used outside the MAC industries	• Included in initial list from 2014 industry consultations • Not included in any priority lists (as at October 2015)
17	8412 - Other engines and motors	Pneumatic power engines and motors:	841239-- Other	Engines that include air driven motors used to start an engine on a dump truck.	Air-powered motor: 	\$756 180 847		?	yes	no	yes		• This HS code covers engines which are commonly used outside the MAC industries	• Included in initial list from 2014 industry consultations • Not included in any priority lists (as at October 2015)
18	8412 - Other engines and motors		841280-- Other	Engines, including a spring-operated mechanism, which is part of an operating mechanism incorporating several components for use with a high voltage circuit breaker (the spring-operated mechanism is the only part of the operating mechanism at issue herein).	Spring-operated brake: 	\$862 251 143		?	no				• This HS code covers engines which are commonly used outside the MAC industries	• Included in initial list from 2014 industry consultations • Not included in any priority lists (as at October 2015)
19	8412 - Other engines and motors		841290-- Parts	Parts of engines, including stainless steel distance sleeves that are used in marine propulsion systems.	Distance sleeves: 	6996144163		?	no				• This HS code covers parts to engines which are commonly used outside the MAC industries	• Included in initial list from 2014 industry consultations • Not included in any priority lists (as at October 2015)
20	8413 - Pumps for liquids, whether or not fitted with a measuring device; liquid elevators		841330-- Fuel, lubricating or cooling medium pumps for internal combustion engines	Pumps, including i) components of the fuel delivery system for a fuel-injected diesel internal combustion engine, and ii) a high pressure fuel pump for use with fuel injected engines of the type used in small unmanned aircraft and are designed to be fitted to small internal combustion engines.	High pressure fuel pump: 	\$13 355 833 381		?	no				• This HS code covers accessions which are commonly used outside the MAC industries	• Included in initial list from 2014 industry consultations • Not included in any priority lists (as at October 2015)
21	8413 - Pumps for liquids, whether or not fitted with a measuring device; liquid elevators		841350 - Other reciprocating positive displacement pumps	Includes a sucker pump used for pumping the stratum liquid out of an oil well.	Reciprocating positive displacement pump: 	\$7 398 707 630		C/M/A					• This HS code covers accessions which are commonly used outside the MAC industries	• Included in initial list from 2014 industry consultations • Not included in any priority lists (as at October 2015)
22	8413 - Pumps for liquids, whether or not fitted with a measuring device; liquid elevators		841360-- Other rotary positive displacement pumps	Includes water pumps that are used to provide cooling circulation for the hydraulic pumps. Electric motors are used to provide power to the pumps.	Positive displacement rotary pump: 	\$6 362 930 227		C/M/A	no				• This HS code covers accessions which are commonly used outside the MAC industries	• Included in initial list from 2014 industry consultations • Not included in any priority lists (as at October 2015)
23	8413 - Pumps for liquids, whether or not fitted with a measuring device; liquid elevators		841370 - Other centrifugal pumps	Any pump, machinery or appliance utilized for raising or otherwise continuously displacing and transferring volumes of liquids. They can either be operated manually or via any kind of power unit, integral or otherwise.		\$14 871 955 315		M	no				• This HS code covers accessories commonly used outside the MAC industries	• Included in on request by German industry in August 2015
24	8413 - Pumps for liquids, whether or not fitted with a measuring device; liquid elevators	Parts	841391-- Of pumps	Parts of Pumps, including those that primary function is to provide reinforcement in the master cylinder of an automobile's brake booster.	Pump part: 	\$16 295 309 667		C/M/A	no				• This HS code covers parts which are of low value and commonly used outside the MAC industries	• Included in initial list from 2014 industry consultations • Not included in any priority lists (as at October 2015)
25	8414 - Air or vacuum pumps or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters	Fans	841459-- Other	Fans, including heater blowers and heater cores that may be used to distribute heat throughout the vehicle's passenger compartment in the form of heated air.	Tractor fan: 	\$9 512 447 025		C/M/A	no				• This HS code covers accessions which are commonly used outside the MAC industries • This HS code covers fans that do not fall within HS code 841451 (Table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output not exceeding 125 W).	• Included in initial list from 2014 industry consultations • Not included in any priority lists (as at October 2015)
26	8427 - Fork-lift trucks; other works trucks fitted with lifting or handling equipment		842710 - Self-propelled trucks powered by an electric motor	It includes i) forklift trucks that consist of a four-wheeled chassis with a front mounted mast assembly to which the forks are attached and ii) automated guided vehicles (AGVs) capable of holding articles weighing up to 3 tons and incorporate lift tables.	Forklift truck: 	\$6 587 108 594		C/M/A	yes	no	no		• Equipment under this HS code is commonly used outside MAC industries. • This code does not cover parts (parts for 8425-8430 are covered by 8431)	• Included in list by request of General Electric Mining on 31 March 2015.
27	8427 - Fork-lift trucks; other works trucks fitted with lifting or handling equipment		842720 - Other self-propelled trucks	It includes i) a wheeled, self-propelled lifting platform generally used to raise and lower produce in a harvesting operation and ii) hydraulic power unit designed to lift the tongue of a trailer from a towing vehicle, usually a heavy-duty pick-up truck, and move the trailer as a portable unit to a parking location.	Hydraulic power unit: 	\$8 716 572 722		C/A					• Equipment under this HS code is commonly used outside MAC industries. • This code does not cover parts (parts for 8425-8430 are covered by 8431)	• Included in list by request of General Electric Mining on 31 March 2015.
28	8427 - Fork-lift trucks; other works trucks fitted with lifting or handling equipment		842790 - Other trucks	It includes i) pallet trucks that are used to lift and transport palletized loads weighing up to 5000 pounds and ii) mini lifter/skip hoist that can be used in a variety of general purpose lifting and short distance transport activities.	Pallet truck: 	\$995 701 803		C/A	yes	no	no		• Equipment under this HS code is commonly used outside MAC industries. • This code does not cover parts (parts for 8425-8430 are covered by 8431)	• Included in list by request of General Electric Mining on 31 March 2015.

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No.	4 Digit HS Code and Name	Additional sub-grouping	6 Digit HS Code and Name	Examples and uses	Images	Approximate Range of List Prices for New Equipment	Comtrade Statistics	Category	Is Equipment Separately Financed or Leased (Y/N)?	Is Equipment Required to be Affixed to Immovable Property to Function (Y/N)?	Does Equipment Require Installation on other Equipment to Function (Y/N)?	Does Equipment have a single identifiable model designation (Y/N)? If multiple designations, what informs which is used (e.g. country of manufacture, etc.)?	Comments	Private sector consultation
29	8428 - Other lifting, handling, loading or unloading machinery (for example, lifts, escalators, conveyors, teleferics)		842890— Other Machinery	Includes i) woodland log handling equipment and ii) a pallet lift which handles the vertical transportation of pallets into and out of the warehouse; and retrieving pallets from the various levels as required.	Conveyor system: 	\$9 969 446 182		C/M/A					<ul style="list-style-type: none"> <li>This HS code covers accessions which are commonly used outside the MAC industries</li> <li>This HS code does not cover parts (parts for machinery 8425-8430 are covered by 8431)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Included as an HS code produced by Working Group members (October 2015), but not identified as a priority code</li> </ul>
30	8430 - Other moving, grading, levelling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or ores; pile-drivers and pile-excavators; snow ploughs and snow-blowers		843020-- Snowplows and snowblowers	Includes snowblowers mounted on tractors.	Snowblower: 	\$665 455 092		A/C		no	maybe		<ul style="list-style-type: none"> <li>Snowplows and snowblowers are commonly used outside the MAC industries</li> <li>The Explanatory notes state that Chapter 84.30 covers not only fixed machinery, but also mobile machines, whether or not self-propelled.</li> <li>Certain types of equipment under this HS code may have additional uses outside MAC industries.</li> <li>This HS code does not cover parts (parts for machinery 8425-8430 are covered by 8431)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
31	8431 - Parts suitable for use solely or principally with the machinery of headings 84.25 to 84.30		843110—of machinery of heading 8425	Includes a trailer landing gear designed to be assembled onto trailers. They are composed of hot-rolled, cold-finished non-alloy steel.	Trailer landing gear: 	\$1 851 641 015		C/A					<ul style="list-style-type: none"> <li>This HS code covers parts to objects commonly used outside the MAC industries</li> <li>This HS code covers parts and is likely to cover a wide variety of low value objects</li> <li>Covers parts for pulley tackle and hoists other than skip hoists; winches and capstans; jacks</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
32	8431 - Parts suitable for use solely or principally with the machinery of headings 84.25 to 84.30		843120 - Of machinery of heading 8427	It includes i) a forklift set intended for use on or in conjunction with an all-terrain vehicle and ii) a pallet saver that is made of carbon steel in the shape of an inverted T, and is used to prevent damage to wood pallets.	Forklift set: 	\$4 842 099 586		C		no	yes		<ul style="list-style-type: none"> <li>This HS code is likely to cover a wide variety of low value parts for objects commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in list by request of General Electric Mining on 31 March 2015.</li> </ul>
33	8431 - Parts suitable for use solely or principally with the machinery of headings 84.25 to 84.30	Of machinery of heading 8428	843139— Other	Includes i) flight bars and E-bolts are components of armored face chain conveyors used in underground longwall mining applications and ii) items for use with roller conveyors.	Roller conveyor parts: 	\$8 039 237 615		M/A/C					<ul style="list-style-type: none"> <li>This HS code covers parts to objects commonly used outside the MAC industries</li> <li>This HS code covers parts and is likely to cover a wide variety of low value objects</li> <li>Covers parts for other lifting, handling, loading or unloading machinery (for example, elevators, escalators, conveyors, teleferics</li> <li>Other covers parts other than those for lifts, skips, hoists or escalators (which are covered by 843131)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
34	8432 - Agricultural, horticultural or forestry machinery for soil preparation or cultivation, lawn or sports-ground rollers		843290—Parts	It includes a i) hub that is specifically designed and marketed for installation on disc harrows, cultivators, rippers and moldboard ploughs, all of which are used in farming and agriculture and ii) two wheel and tire assemblies designed and imported in order to be installed and used on agricultural spreaders.	Agricultural spreader: 	\$2 898 015 550		A	no	no	yes		<ul style="list-style-type: none"> <li>This HS code covers parts and is likely to cover a wide variety of low value objects</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
35	8433 - Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading 84.37	Mowers for lawns, parks or sports grounds	843311 -- Powered, with the cutting device rotating in a horizontal plane	They are always motorized in some way, powered either by gas, petrol or electrically. The rotary mowers are powerful and well adapted to lawns with weeds and dandelions. They are quite heavy to push, but usually come with motorized wheels (self-propelled) have one very high speed rotating blade underneath. The blade 'chops' the grass on impact due to its very high speed. Most rotary mowers have the grass box behind with a few having an integral grass box. These mowers work best on a medium to high cut.		\$2,000 - \$9,000		A	no	no	no		<ul style="list-style-type: none"> <li>This HS code is likely to cover a wide variety of low value objects,</li> <li>This code does not cover parts (parts for 8433 is covered by 843390)</li> <li>This HS code covers objects for use outside the MAC industry (lawns, parks, sports grounds)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
35(a)				Riding mower (ride-on mower): Instead of walking with the machine, these mowers have a seat and the operator controls and steers the machine while riding it. Suitable for larger lawns with not too many trees or other obstacles on the lawn.				A		no	no			<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
35(b)				Zero-turn mower: These machines are constructed for easy maneuverability around obstacles and confined spaces, having a zero turning radius.				A		no	no			<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
35(c)				Tractor Lawn Mower: This machine is built as a small tractor with a mower mounted between the front and rear wheel axes. A lawn tractor can easily be equipped with e.g. carts or aerators, some even with snow plow blades, so they are more versatile than the riding mower. And usually more expensive.				A		no	no			<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
35(d)				Push Reel Mowers (cylinder): A cylinder lawn mower or reel mower has anywhere between five to twelve exposed blades at the front of the mower that rotate trapping and slicing the grass blades against a fixed bottom plate like a pair of scissors. The more blades there are the better the cut. The grass box is at the front.				A	no	no	no			<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
35(e)				Electric land mower: An electric mower are inexpensive to operate and relatively easy to maintain. Most of the machines described above today come in electric models, either corded or cordless. They are well worth considering as a quiet and eco-friendly choice.				A	no	no	no			<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
35(f)				Hover mower: These mowers are motorized with a rotary blade, but they have no wheels. Instead, they are 'floating' above the ground on a cushion of air - hovering. They are especially useful for steep hills or slopes, where regular mowers would slip or even be dangerous to use.				A		no	no			<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>

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35(g)				Robotic land mower: Robotic mowers are small robots that mow the lawn on their own. It automatically visits its loading station when the battery is going low, there are also solar hybrid models. The robot covers an area within electric perimeter wires buried in the ground. Robotic mowers are quiet, safe, non-polluting, and give an even and good trim to your lawn. Due to its innovative technology the price is high from a consumer's perspective.				A	no	no				<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
36	8433 - Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading 84.37	Mowers for lawns, parks or sports grounds	843319-- Other	It includes a push reel lawn mower that is constructed of steel and has two plastic wheels and two foam handle grips.	Push reel lawn mower: 	\$10,000 - \$75,000	\$566 440 643	A	no	no			<ul style="list-style-type: none"> <li>This HS code is likely to cover a wide variety of low value objects, especially as it covers 'other'</li> <li>This code does not cover parts (parts for 8433 is covered by 843390)</li> <li>This HS code covers objects for use outside the MAC industry (lawns, parks, sports grounds)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
37	8433 - Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading 84.37		843390-- Parts	Parts for the mowers described above under heading 8433	Grooming mower: 	\$0.00 - \$5,000	\$5 385 227 013	A	no	no	yes		<ul style="list-style-type: none"> <li>This HS code is likely to cover a wide variety of low value parts</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
38	8436 - Other agricultural, horticultural, forestry, poultry-keeping or bee-keeping machinery, including germination plant fitted with mechanical or thermal equipment, poultry incubators and brooders	Parts	843699-- Other	It includes i) bee-keeping machinery; ii) machinery for preparing animal feeds; iii) and forestry machinery (query whether this is correct - as it covers parts)	Food processing machinery: 		\$1 372 295 075	A					<ul style="list-style-type: none"> <li>This HS code is likely to cover a wide variety of low value parts</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
39	8474 - Machinery for sortings, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including power or paste) form; machinery for agglomerating, shaping or molding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry molds of sand.		847490-- Parts	It includes parts for i) a machine that is used in gold plant slurry screening operations to help remove wood fibers and other foreign objects from the slurry before it goes into the leaching tanks and other refining processes and ii) a glass washing machine and a glass tempering oven of a kind mainly used in the extractive industries.	Glass washing machine: 		\$7 755 179 711	C/M					<ul style="list-style-type: none"> <li>This HS code is likely to cover a wide variety of low value parts</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
40	8479 - Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter.	Other machines and mechanical appliances:	847989-- Other	It includes i) dehumidifiers used in applications such as water damage restoration and humidity control and are said to be ideal for industrial drying applications; ii) floor polishers designed for commercial use in locations such as hospitals/healthcare facilities; iii) trash compactors for industrial use that compact trash; and iv) floor sweepers for industrial use.	Trash compactor: 		\$38 019 250 166	C/M					<ul style="list-style-type: none"> <li>This code does not cover parts (parts for 8479 is covered by 847990)</li> <li>The scope of this HS code is not clear - it is likely to cover low value objects and objects commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
40(a)		Industrial Dehumidifiers												<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
40(b)		Floor Polishers												<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
40(c)		Trash Compactor												<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
41	8479 - Machines and mechanical appliances having individual functions, not specified or included elsewhere in this Chapter.		847990-- Parts	It includes parts related to i) submersible remote operated vehicle (ROV) used in the oil and gas industry to facilitate deepwater repairs on their facilities and ii) fan guards generally attached to the exterior of electromechanical machines with a self-contained motor and fan and are designed to match the sizes of the standard fans used in various appliances/machines and ii) aluminum sunshade blades that may be mounted or welded to the building.	ROV: 		\$19 668 477 794	C/M					<ul style="list-style-type: none"> <li>This HS code is likely to cover a wide variety of low value parts</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
42	8483 - Transmission shafts (including cam shafts and crank shafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints)		848310-- Transmission shafts (including camshafts and crankshafts) and cranks:	Includes a i) transmission shaft which is a rotating shaft that transmits rotary motion from the engine to the differential; ii) spark plugs and crankshafts for internal combustion engines for motorcycles; and iii) crankshafts used to power chainsaws.	Transmission shaft: 		\$10 081 944 600	A	no	no	yes		<ul style="list-style-type: none"> <li>This code does not cover parts (parts for 8483 is covered by 848390)</li> <li>The scope of this HS code is not clear - it is likely to cover low value objects and objects commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
CHAPTER 85 - Electrical Machinery and equipment and parts thereof; sounds recorders and reproducers, television image and sound recorders and reproducers, and parts and accessories of such articles														
43	8501 - Electric motors and generators (excluding generating sets)	AC generators (alternators)	850161-- Of an output not exceeding 75 kVA	It includes i) generators and motors for AC units; ii) alternators used in motor vehicles; iii) fuel cell generators which are inverters used to produce AC power.	AC single phase alternator: 		\$965 797 220	C/M/A					<ul style="list-style-type: none"> <li>This HS code covers accessions which are commonly used outside the MAC industries</li> <li>This code does not cover parts (parts for 8501 is covered by 8503)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>

Merged List of HS codes for inclusion under the MAC Protocol - As of March 2016														
No.	4 Digit HS Code and Name	Additional sub-grouping	6 Digit HS Code and Name	Examples and uses	Images	Approximate Range of List Prices for New Equipment	Comtrade Statistics	Category	Is Equipment Separately Financed or Leased (Y/N)?	Is Equipment Required to be Affixed to Immovable Property to Function (Y/N)?	Does Equipment Require Installation on other Equipment to Function (Y/N)?	Does Equipment have a single identifiable model designation (Y/N)? If multiple designations, what informs which is used (e.g. country of manufacture, etc.)?	Comments	Private sector consultation
44	8501 - Electric motors and generators (excluding generating sets)	AC generators (alternators)	850162-- Of an output exceeding 75 kVA but not exceeding 375 kVA	It includes i) electric generators that include a rotor which is turned by a mechanical device like an internal combustion engine, or steam or water turbines and ii) a cell power plant makes use of a fuel processor to extract hydrogen from natural gas.			\$675 619 523	C/M/A					<ul style="list-style-type: none"> <li>This HS code covers accessions which are commonly used outside the MAC industries</li> <li>This code does not cover parts (parts for 8501 is covered by 8503)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
45	8501 - Electric motors and generators (excluding generating sets)	AC generators (alternators)	850163-- Of an output exceeding 375 kVA but not exceeding 750 kVA	Same as above but higher capacity.			\$322 381 054	C/M/A					<ul style="list-style-type: none"> <li>This HS code covers accessions which are commonly used outside the MAC industries</li> <li>This code does not cover parts (parts for 8501 is covered by 8503)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
46	8501 - Electric motors and generators (excluding generating sets)	AC generators (alternators)	850164-- Of an output exceeding 750kVA	Same as above but higher capacity.			\$3 779 898 805	C/M/A					<ul style="list-style-type: none"> <li>This HS code covers accessions which are commonly used outside the MAC industries</li> <li>This code does not cover parts (parts for 8501 is covered by 8503)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
47	8502 - Electric generating sets and rotary converters	Generating sets with compression-ignition internal combustion piston engines(diesel or semi-diesel engines)	850211-- Of an output not exceeding 75 kVA	It includes power generating sets that may be installed underneath a truck frame between the truck cab and trailer and is fueled by the truck's fuel tank.			\$2 216 068 325	C/M/A					<ul style="list-style-type: none"> <li>This HS code covers accessions which are commonly used outside the MAC industries</li> <li>This code does not cover parts (parts for 8502 is covered by 8503)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
48	8502 - Electric generating sets and rotary converters	Generating sets with compression-ignition internal combustion piston engines(diesel or semi-diesel engines)	850212-- Of an output exceeding 75 kVA but not exceeding 375 kVA	Same as above but higher capacity.			\$1 792 201 111	C/M/A					<ul style="list-style-type: none"> <li>This HS code covers accessions which are commonly used outside the MAC industries</li> <li>This code does not cover parts (parts for 8502 is covered by 8503)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
49	8502 - Electric generating sets and rotary converters	Generating sets with compression-ignition internal combustion piston engines(diesel or semi-diesel engines)	850213-- Of an output exceeding 375kVA	Same as above but higher capacity.			\$6 039 781 626	C/M/A					<ul style="list-style-type: none"> <li>This HS code covers accessions which are commonly used outside the MAC industries</li> <li>This code does not cover parts (parts for 8502 is covered by 8503)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
50	8502 - Electric generating sets and rotary converters	Generating sets with spark-ignition internal combustion piston engines	850220-- Generating sets with spark-ignition internal combustion piston engines	It includes i) a portable generator for consumer use to supply electrical power and ii) a heat recovery system to the generator set that may be attached to a heat recovery system to produce heat that is captured and used to heat water.			\$4 306 066 129	C/M/A					<ul style="list-style-type: none"> <li>This HS code covers accessions which are commonly used outside the MAC industries</li> <li>This code does not cover parts (parts for 8502 is covered by 8503)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
51	8503 - Parts suitable for use solely or principally with the machines of heading 85.01 or 85.02		850300-- Parts suitable for use solely or principally with the machines of heading 8501 [i.e. Electric motors and generators (excluding generating sets)] or 8502 [i.e. Electric generating sets and rotary converters]				19079306988	C/M/A					<ul style="list-style-type: none"> <li>This HS code is likely to cover a wide variety of low value parts for objects commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
52	8526 - Radar apparatus, radio navigational aid apparatus and radio remote control appliances	Other	8526691 - Radio navigational aid apparatus					C/M/A	no	no	yes		<ul style="list-style-type: none"> <li>This HS code is likely to cover a wide variety of objects commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in list by request of General Electric Mining on 31 March 2015.</li> </ul>
53	8544 - Insulated (including enameled or anodized) wire, cable, (including co-axial cable) and other insulated electric conductors, whether or not fitted with connectors; optical fiber cables, made up of individually sheathed fibers, whether or not assembled with electric conductors or fitted with connectors.	Other Electrical Conductors for a voltage not exceeding 1000V	854449-- Other	It includes i) telecommunications cables used with computers and computer equipment to allow for the transfer/communication of information/data and ii) insulated electric cable, used in fire or security alarm applications.			\$28 221 366 064	C/M/A					<ul style="list-style-type: none"> <li>This HS code covers objects commonly used outside the MAC industries</li> <li>It appears unlikely that certain types of equipment on this list would be uniquely identifiable.</li> </ul>	<ul style="list-style-type: none"> <li>Included in list by request of General Electric Mining on 31 March 2015.</li> </ul>
<b>CHAPTER 87 - Vehicles other than railway or tramway rolling stock, and parts and accessories thereof</b>														
54	8706 - Chassis fitted with engines, for the motor vehicles of headings 8701 to 8705		870600-- Chassis fitted with engines, for the motor vehicles of headings 8701 [i.e. Tractors (other than tractors of heading 8709)] to 8705 [i.e. Special purpose motor vehicles, other than those principally designed for the transport of persons or	It includes dump carriers that can be used to haul materials such as earth, gravel, concrete, etc.			\$3 383 698 113	A/C					<ul style="list-style-type: none"> <li>This HS code appears to cover parts.</li> <li>This HS code will cover chassis for a wide variety of vehicles commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
55	8707 - Bodies (including cabs), for the motor vehicles of headings 87.01 to 87.05		870790--Other	It includes i) a sleeper cab shell that is essentially the sleeper cab structure with cutouts made for the windows, door, speakers, etc. and ii) mobile horseboxes built to house persons and horses when attached to an automotive cab and chassis.			\$4 727 041 008	A/C			yes		<ul style="list-style-type: none"> <li>This HS code appears to cover parts.</li> <li>This HS code will cover bodies for a wide variety of vehicles commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>

Merged List of HS codes for inclusion under the MAC Protocol - As of March 2016														
No.	4 Digit HS Code and Name	Additional sub-grouping	6 Digit HS Code and Name	Examples and uses	Images	Approximate Range of List Prices for New Equipment	Comtrade Statistics	Category	Is Equipment Separately Financed or Leased (Y/N)?	Is Equipment Required to be Affixed to Immovable Property to Function (Y/N)?	Does Equipment Require Installation on other Equipment to Function (Y/N)?	Does Equipment have a single identifiable model designation (Y/N)? If multiple designations, what informs which is used (e.g. country of manufacture, etc.)?	Comments	Private sector consultation
56	8708 - Parts and accessories of the motor vehicles of headings 87.01 to 87.05		870850-- Drive-axles with differential, whether or not provided with other transmission components, and non-driving axles; parts thereof	It includes i) steel carrier assemblies used in the geared, electric drive system of off-highway dump trucks; ii) a differential that is used with four wheel drive (4 x 4) All Terrain Vehicles (ATV) (Outlander and Renegade) and Side by Side Vehicles (Commander) to constantly monitor wheel speed; and iii) a lift axle assembly used on a heavy duty truck as a steerable, air lift, non-driving axle.	Drive axle with differential: 	\$22 328 807 506		C/M/A	no		no		<ul style="list-style-type: none"> <li>This HS code is likely to cover a wide variety of low value parts for objects commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
57	8708 - Parts and accessories of the motor vehicles of headings 87.01 to 87.05		870870-- Road wheels and parts and accessories thereof	It includes i) wheels for undercarriages of tractors that acting as contact points and guides, help to distribute the machine weight evenly across the ground through the tracks; ii) wheel rims used on a railcar mover not designed for public road use but will be used to move the rail car off road while at the job site; and iii) wheel hub and spoke wheel assemblies used on road tractors for semi-trailers.	Road wheels: 	\$18 590 067 120		C/M/A	no		no		<ul style="list-style-type: none"> <li>This HS code is likely to cover a wide variety of low value parts for objects commonly used outside the MAC industries</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> </ul>
58	8426 - Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane		842620--Tower Cranes	The tower crane is a fixed crane that is mounted on-site. It is a vertical metallic structure having a horizontal boom that can turn over an angle up to 360°	Tower crane: 	\$1 596 286 425		C (?)	yes	no	no	no	<ul style="list-style-type: none"> <li>Certain types of equipment under this HS code may require affixation to immovable property in order to operate.</li> <li>Cranes may have additional uses outside MAC industries (such as lifting/loading cargo).</li> <li>This HS code does not cover parts (parts for machinery 8425-8430 are covered by 8431)</li> </ul>	<ul style="list-style-type: none"> <li>Included in initial list from 2014 industry consultations</li> <li>Not included in any priority lists (as at October 2015)</li> <li>Downgraded from Tier 1 to Tier 3 during 4th Study Group meeting in March 2016</li> </ul>
				Bulk Handling Crane: Bulk-handling cranes are designed from the outset to carry a shell grab or bucket, rather than using a hook and a sling.				C (?)						<ul style="list-style-type: none"> <li>Need to confirm with private industry that this example is traded under this HS code</li> </ul>
				Jib Crane: A jib crane is a type of crane where a horizontal member (jib or boom), supporting a movable hoist, is fixed to a wall or to a floor-mounted pillar.				C (?)						<ul style="list-style-type: none"> <li>Need to confirm with private industry that this example is traded under this HS code</li> </ul>
				Self-erecting Crane: Generally a type of tower crane, these cranes, also called self-assembling or "Kangaroo" cranes, lift themselves off the ground using jacks, allowing the next section of the tower to be inserted at ground level or lifted into place by the partially erected crane itself.				C (?)						<ul style="list-style-type: none"> <li>Need to confirm with private industry that this example is traded under this HS code</li> </ul>
				Hammerhead Crane: The "hammerhead", or giant cantilever, crane is a fixed-jib crane consisting of a steel-braced tower on which revolves a large, horizontal, double cantilever; the forward part of this cantilever or jib carries the lifting trolley, the jib is extended backwards in order to form a support for the machinery and counter-balancing weight.				C (?)						<ul style="list-style-type: none"> <li>Need to confirm with private industry that this example is traded under this HS code</li> </ul>
				Gantry Crane: A gantry crane has a hoist in a fixed machinery house or on a trolley that runs horizontally along rails, usually fitted on a single beam (mono-girder) or two beams (twin-girder).				C (?)						<ul style="list-style-type: none"> <li>Need to confirm with private industry that this example is traded under this HS code</li> </ul>