

Innovative answers to your questions

**“COMPETITIVE POSITION AND FUTURE OPPORTUNITIES
OF THE EUROPEAN MARINE SUPPLIES INDUSTRY”**

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**Final Report
Annex 1
Structure of the Marine Supplies Industry**

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Table of contents

0	Explanation	4
1	Propulsion, power generating system.....	5
2	Auxiliary power generation systems	8
3	Electrical systems, plants and cables	9
4	Instrumentation, control and navigation systems.....	10
5	Communication and entertainment systems	12
6	Lighting systems	14
7	Steering systems	15
8	Special ship operation systems	16
9	Mooring systems, deck machinery systems.....	17
10	Safety and life saving systems environmental protection systems	19
11	General outfitting components	21
12	Auxiliary (piping) systems	22
13	HVAC systems	27
14	Cargo systems	28
15	Accommodation systems	33
16	Others	36
17	Materials	37
18	Subcontracts (manufacturing and assembly).....	38
19	Subcontractors and services (engineering, design, consulting, testing, classification)	39

0 Explanation

Appearing as a very heterogeneous industry, it must be stated that there is no formal structure available which classifies marine supply into dedicated categories. All parties which try to find a suitable categorisation find different solutions which serve more or less their own interests. Therefore, all information about marine equipment and materials provided for example by national associations, classification societies trade fairs etc. is structured differently and therefore difficult to compare. Names of products and services are chosen differently, higher aggregated groupings are assembled differently and also the assignment of individual companies may be seen differently by the interested parties.

Therefore, this study proposes a harmonised structure which is basically following the functional or system oriented view of the customers (shipyards, owners). With some amendments and aggregations especially for materials and the different areas of subcontracting a total of 19 system groups including 69 subgroups for equipment, 10 subgroups for materials and 16 subgroups for subcontracting have been identified.

It has to be admitted that this already quite complex structure may not cover all possible aspects of maritime systems. Especially those for offshore operation (production, processing, drilling, exploration etc.) may not be sufficiently mapped. This structure shows on the one hand the complexity of maritime systems and components and on the other hand provides an access point to evaluate which industry sectors are involved in maritime supplies. It also means that this structure allows a mapping into the systematic statistical systems, which at least allows to identify those statistical industry categories containing maritime supplies. The statistical classification system in use in Europe is called the "General Industrial Classification of Economic Activities within the European Communities" (NACE). This system was in use as version NACE 1.1. until 2007/2008. From then on a revised NACE 2.0. is in use, which, unfortunately, applies a slightly different classification key. Following that, statistical data for the transition year 2008 show still some inconsistencies which are under discussion between the authors and Eurostat.

As a result from this study we provide in addition to the above described and identified system groups for shipbuilding and maritime industries an assignment to the classification system NACE 1.1. and NACE 2.0. It provides a logical link between the system groups and subgroups in the defined structure for the marine supplies industry and the NACE definition. This structure and NACE assignment of the industry makes it better possible to analyse the industrial sector and allows using statistical data of companies and industrial sectors available for these different NACE classes from national or European databases for analysis at least on higher aggregation levels.

1 Propulsion, power generating system

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"	Description "Component", "Service"	NACE Revision 1 4 digits	Description	NACE Revision 2 4 digits	Description				
1. Two Stroke Diesel Propulsion Systems 2. Four Stroke Diesel Propulsion Systems 3. Steam Turbine Propulsion Systems	11	Diesel engine	2911	Complete diesel engine	2811	Manufacture of engines and turbines, except aircraft, vehicle and cycle engines	Diesel engines	2811	Manufacture of engines and turbines, except aircraft, vehicle and cycle engines (excluding repair)	Manufacture of internal combustion piston engines for marine and railway
				Cylinder covers			Parts of diesel engines			
				Spare parts			Marine propulsion compression-ignition engines			Manufacture of parts of internal combustion piston engines for marine and railway
				Crank cases						
				Camshafts						
				Cylinder lubricating devices						
				Tachometers						
				Local instrument panels						
				Special tools						
				Turbochargers						
		Vibration dampers			3312	Repair of machinery				
4. Gas Turbine Propulsion Systems 5. Diesel-, Turbo Electric Propulsion Systems 6. POD Systems 7. CODAG Systems 8. COGES Systems	12	Steam turbine	2911	Complete steam turbine	2811	Manufacture of engines and turbines, except aircraft, vehicle and cycle engines	Steam and other vapour turbines	2811	Manufacture of engines and turbines, except aircraft, vehicle and cycle engines	Steam and other vapour turbines and parts of it
				Speed governors			Steam turbines for generation of electricity			Hydraulic turbines, waterwheels and regulators thereof and parts of it
				Main condensers			Parts of vapour turbines			wind turbines and parts of it
				Vacuum pumps						
				Vacuum ejectors						
			3312	Repair of machinery						
	13	Gas turbine	2911	Complete main gas turbine aggregates	2811	Manufacture of engines and turbines, except aircraft, vehicle and cycle engines	Gas turbines other than turbo-jets and turbo-propellers	2811	Manufacture of engines and turbines, except aircraft, vehicle and cycle engines	Gas turbines other than turbo-jets and turbo-propellers
				Power turbines			Parts of gas turbines (excl. turbo-jets and turbo-propellers)			Parts of gas turbines (excl. turbo-jets and turbo-propellers)
				Combustion chambers						
				Compressor machines						
				Starting machinery						

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits	Description	NACE Revision 2 4 digits	Description				
1. Two Stroke Diesel Propulsion Systems 2. Four Stroke Diesel Propulsion Systems 3. Steam Turbine Propulsion Systems 4. Gas Turbine Propulsion Systems 5. Diesel-, Turbo Electric Propulsion Systems 6. POD Systems 7. CODAG Systems 8. COGES Systems	14	Gears and couplings	Turning gear	2914	Manufacture of bearings, gears, gearing and driving elements	2815	Manufacture of bearings, gears, gearing and driving elements	Gears			
			Starting gear					Gear boxes and other speed chargers	Gears		
			Complete main reduction gears					Clutches and shaft couplings	Gear boxes and other speed chargers		
			Main reduction gear casings, foundations, bolts					3312	Repair of machinery		
			Central gear plants								Clutches and shaft couplings
			Central gears								
			Central gear couplings								
	15	Propeller	Propulsion propellers	2875	Manufacture of other fabricated metal products n.e.c.	2571	Manufacture of other fabricated metal products n.e.c.	Ships' or boats' propellers and blades therefore			
			Controllable pitch propellers					3311	Repair of fabricated metal products		
			Propeller nuts								
			Rope guards								
			Propeller blades								
	16	Shafts and bearings	Thrust shafts/bearings	2914	Manufacture of bearings, gears, gearing and driving elements	2815	Manufacture of bearings, gears, gearing and driving elements	Roller bearings and Roller bearings and parts of			
			Turbine shafts					Roller bearings	Cranks and crankshafts		
			Turbine main/trust bearings					Cranks and crankshafts	Bearing housings and parts of		
			Propeller shafts					Other transmission shafts	Other transmission shafts		
			Shaft bearings					Bearing housings	Other transmission elements		
			Shaft seals					3312	Repair of machinery	Other transmission elements	
			Gear wheels, shafts, bearings							Parts of ball or roller bearings	
										Parts of bearing housings	

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"	Description "Component", "Service"	NACE Revision 1 4 digits	Description	NACE Revision 2 4 digits	Description				
1. Two Stroke Diesel Propulsion Systems 2. Four Stroke Diesel Propulsion Systems 3. Steam Turbine Propulsion Systems 4. Gas Turbine Propulsion Systems	17	Electrical Engines	3110	Manufacture of electric motors, generators and transformers	2711	Manufacture of electric motors, generators and transformers	DC motors and generators	DC motors and generators		
							AC motors and generators	AC motors and generators		
							Propulsion el. motors	AC/DC		
							Gyropropeller el. Motors			
5. Diesel-, Turbo Electric Propulsion Systems 6. POD Systems 7. CODAG Systems 8. COGES Systems	18	Alternate Propulsors	2912	Manufacture of pumps and compressors	3314	Repair of electrical equipment	POD Sets	Repair and maintenance of electrical motors		
							Water Jets			
								2813	Manufacture of pumps and compressors	Non-hydraulic equipment; except repair
								3312		Repair of machinery

2 Auxiliary power generation systems

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 2 4 digits		Description
Auxiliary Power Generation Systems	21	Generator Sets	Main propulsion electrical generators	3110	Manufacture of electric motors, generators and transformers	DC motors and generators	2711	Manufacture of electric motors, generators and transformers	DC motors and generators
						AC motors and generators			AC motors and generators
						Generating-sets with compression- ignition engines			Generating-sets with compression-ignition engines
			Emergency generators			Generating-sets n.e.c.			Generating-sets n.e.c.
			Electrical generators			Generating-sets with spark-ignition internal combustion engines			Generating-sets with spark-ignition internal combustion engines
			Shaft generators						
	22	Auxiliary boilers etc.	Complete aux. boilers	2830	Manufacture of steam generators, except central heating hot water boilers	Watertube boilers	2530	Manufacture of steam generators, except central heating hot water boilers	Watertube boilers
			Reheaters			Other vapour generating boilers			Other vapour generating boilers
			Economisers			Condensers for steam or other vapour power units			Condensers for steam or other vapour power units
			Soot blowers			Parts of vapour generating boilers			Parts of vapour generating boilers
			Air preheaters						
			Exhaust gas boilers						
								3311	Repair of fabricated metal products

3 Electrical systems, plants and cables

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"		NACE Revision 1 4 digits	Description	NACE Revision 2 4 digits	Description	
Electrical Systems, Plants and Cables	31	Switchboards, control panels	Main switchboards	3120	Manufacture of electricity distribution and control apparatus	Automatic circuit breakers	2733	Manufacture of electricity distribution and control apparatus	Automatic circuit breakers
			DC switchboards			Relays and contacts			
			High voltage switchboards			Plugs and sockets			
			Distribution switchboards			Numerical control panels Boards, panels, consoles			
			Starter centrals			3314	Repair of electrical equipment	Plugs and sockets	Repair and maintenance of distribution and control apparatus for electricity
			Distribution panels					Numerical control panels	
			Clean power switchboards					Boards, panels, consoles	
	32	Cables	Cable trays and fittings	3130	Manufacture of insulated wire and cable	Coaxial cables for data & control purposes	2731	Manufacture of fibre optic cables	Optical fibre cable
			Special cables			Electric conductors			
						Optical fibre cable	2732	Manufacture of other electronic and electric wires and cables	manufacturing of insulated wire and cable made of steel, copper, aluminium
	33	Power supply, batteries	Batteries	3140	Manufacture of accumulators, primary cells and primary batteries	Primary cells and batteries	2720	Manufacture of batteries and accumulators	This class includes the manufacture of non-rechargeable and rechargeable batteries
			Battery boxes			Lead-acid accumulators			
			Battery chargers			Electric accumulators			
			Spare batteries						

4 Instrumentation, control and navigation systems

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 2 4 digits		Description
1 - Integrated Bridge Systems 2 - Ship-management & Automation Systems 3 - Cargo Control Systems	41	Control and alarm systems	Manoeuvre consoles, main consoles	3162	Manufacture of other electrical equipment n.e.c.	Electrical apparatus for sound or visual signalling	2630	Manufacture of communication equipment	Burglar and fire alarm systems, sending signals to a control station
			Common automation systems			Signal generators	3314	Repair of electrical equipment	
			Alarm/safety systems components			Indicator panels			
			Automation equipment for main and aux. Engines			Electrical machines and apparatus having individual functions			

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"	Description "Component", "Service"	NACE Revision 1 4 digits	Description	NACE Revision 2 4 digits	Description		
1 - Integrated Bridge Systems 2 - Ship-management & Automation Systems 3 - Cargo Control Systems	42	Navigation and measurement systems	3320	Navigation & searching equipment	2651	Manufacture of instruments and appliances for measuring, testing and navigation	Flight recorders, search, detection, navigation, aeronautical, and nautical equipment, including sonabouys; environmental controls and automatic controls for appliances, temperature, humidity and similar; fluid meters and counting devices; laboratory sc	
				Radar plants				Radar apparatus
				Decca, Loran, Omega etc.	2670	Manufacture of optical instruments and photographic equipment	- Optical measuring and checking devices and instruments, such as optical comparators, gun sighting and fire control equipment, optical alignment, test, and control equipment; photographic light meters, range finders, etc. - Optical instruments and lenses	
				Cargo Control				Other instruments, appliances and machines for measuring or checking
				Gyroplants, Autocompasses				Regulating ...instruments and apparatus, hydraulic or pneumatic
				Clinometers, Trim Indicators, Load Indicators	28,29	Manufacture of other general-purpose machinery n.e.c.	Levels, tape measures and similar hand tools, machinists' precision tools (except optical)	
				Hydraulic or pneumatic control and display systems				28,99
					32,5	Manufacture of medical and dental instruments and supplies	Medical thermometers	
								33,13
						Instruments and apparatus, regulating or controlling n.e.c.		

5 Communication and entertainment systems

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits	Description	NACE Revision 2 4 digits	Description	
Communication and Entertainment Systems	51	Communication systems	Radio plant GMDSS	3220	Manufacture of television and radio transmitters and apparatus for line telephony and telegraphy	2630	Manufacture of communication equipment	Radio transmission apparatus
			Lifeboat radio equipment					TV cameras
			Telex systems, telefax					Telephone stes
			VHF/UHF telephones					Teleprinters
			Calling/command/crew call telephone plants					Electrical telephonic and telegraphic apparatus n.e.c.
	52	Data processing	Hotel management	3002	Manufacture of computers and other information processing equipment	2620	Manufacture of computers and peripheral equipment	Computers
			Information management					Terminals
			Separate data processing					Printers, scanners
						9512	Repair of communication equipment	Repair of communications equipment (in combination with manufacturing)
					6209	Other information technology and computer service activities	Installation of personal computers and peripheral equipment	

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description			
Communication and Entertainment Systems	53	Entertainment systems, audio, video	Film projectors	3230	Manufacture of television and radio receivers, sound or video recording or reproducing apparatus and associated goods	Radio receivers	26.11	Manufacture of electronic components	Heads (pickup, recording, read/write, etc.), phonograph needles			
			Television sets			Television projection equipment, video projectors						
			Video players			Colour television receivers	26.2	Manufacture of computers and peripheral equipment	Video beamers			
			CD players			Sound reproducing apparatus						
			Sound amplifiers			record-players	26.3	Manufacture of communication equipment	Telephone answering machines; broadcast studio equipment such as reproduction equipment, transmitting and receiving antennas, paging equipment; radio and infrared remote control devices			
			Tape recorders									
								26.4	Manufacture of consumer electronics	Except: - heads (pickup, recording, read/write, etc.), phonograph needles - video beamers - telephone answering machines; broadcast studio equipment such as reproduction equipment, transmitting and receiving antennas, paging equipment; radio and infrared		
										26.7	Manufacture of optical instruments and photographic equipment	Digital cameras
												28.23
										33.13	Repair of electronic and optical equipment	

6 Lighting systems

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"	Description "Component", "Service"	NACE Revision 1 4 digits	Description	NACE Revision 2 4 digits	Description			
Lighting Systems	61	Fittings - lighting system	3120	Manufacture of electricity distribution and control apparatus	26.11	Manufacture of electronic components	Lamp holders		
							Plugs and sockets for cables		
							Electronic connectors such as cylindrical, rack and panel, printed circuit, etc.; electronic switches, such as snap, toggle, rocker, etc., for use in electronic apparatus		
							27.12	Manufacture of electricity distribution and control apparatus	Includes rewinding of armatures on a factory basis
							27.33	Manufacture of wiring devices	Plugs and sockets for a voltage <= 1.000 V (excl. lamp holders); electrical apparatus for switching electrical circuits, or for making connections to or in electrical circuits, for a voltage <= 1.000 V (excl. fuses, automatic circuit breakers and other ap
	33.14	Repair of electrical equipment	Repair and maintenance of distribution and control apparatus for electricity	27.9	Manufacture of other electrical equipment	Manufacture of surge suppressors			
				33.14	Repair of electrical equipment	Repair and maintenance of distribution and control apparatus for electricity			
				33.14	Repair of electrical equipment	Repair and maintenance of distribution and control apparatus for electricity			
				33.14	Repair of electrical equipment	Repair and maintenance of distribution and control apparatus for electricity			
	62	Lights, electrical heaters	3150	Manufacture of lighting equipment and electric lamps	27.4	Manufacture of electric lighting equipment	Sealed beam lamp units		
							Tungsten halogen lamps		
							Filament lamps		
							Ultra-violet or infra-red lamps		
							Portable electric lightening		
Non-electrical lamps and lighting fittings									
Electric table, desk, beside or floor-standing lamps									
Flashbulbs, flashcubes									
Other electric lighting fittings: searchlights, spotlights									
Electric lighting systems for engine and boiler room - lights	Sealed beam lamp units								
Electric lighting systems for accommodation - lights	Tungsten halogen lamps								
Electric lighting systems for decks and cargo holds - lights	Filament lamps								
Electrical heaters	Ultra-violet or infra-red lamps								
Signal lights	Portable electric lightening								
Radiators	Non-electrical lamps and lighting fittings								
	Electric table, desk, beside or floor-standing lamps								
	Flashbulbs, flashcubes								
	Other electric lighting fittings: searchlights, spotlights								

7 Steering systems

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"		NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description
Steering Systems	71	Steering gear	Steering gear complete	2912	Manufacture of pumps and compressors	Hydraulic power engines and motors, hydraulic system	2812	Manufacture of fluid power equipment	- Hydraulic equipment - Except repair	
			Hydraulic oil systems							
									3312	Repair of machinery
	72	Rudder	Rudder blades	2875	Manufacture of other fabricated metal products n.e.c.	Ship's or boat's propellers and blades therefore	2599	Manufacture of other fabricated metal products n.e.c.		
			Rudder carriers							
			Rudder stocks			Forged or stamped articles of iron or steel, n.e.c.	3311	Repair of fabricated metal products	Repair	
			Active Rudder propellers							
	73	Accessories	Rudder nuts	2914	Manufacture of bearings, gears, gearing and driving elements	Bearings	2815	Manufacture of bearings, gears, gearing and driving elements	Except repair	
			Rudder stock bearings			Crankshafts				
			Rudder stuffing boxes			Bearing housings				
			Rudder stock linings			Clutches and shaft couplings	3312	Repair of machinery	Repair	
						Other transmission elements				

8 Special ship operation systems

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description		
Special Ship Operation Systems	81	Thrusters, special rudders	Side thrusters	2875	Manufacture of other fabricated metal products n.e.c.	Ship's or boat's propellers and blades therefore	2599	Manufacture of other fabricated metal products n.e.c.	Except: - manufacture of cutlasses, swords, bayonets etc. - manufacture of hat-racks, hat-pegs, brackets and similar fixtures of base metal - metal safety headgear and other metal personal safety devices - repair of fabricated metal products		
			Transverse propellers								
	82	Roll-dumping, anti-heeling systems	Roll-Dumping, anti- heeling systems	2912	Manufacture of pumps and compressors	Hydraulic power engines and motors, hydraulic system	2812	Manufacture of fluid power equipment	- Hydraulic equipment - Except repair		
									3312	Repair of machinery	Repair
	83	Active stabilisers	Stabilizer fins	2912	Manufacture of pumps and compressors	Hydraulic power engines and motors, hydraulic system	2812	Manufacture of fluid power equipment	- Hydraulic equipment - Except repair		
			Stabiliser fin moving machinery								
			Active stabiliser tanks and pumps						2813	Manufacture of other pumps and compressors	Non-hydraulic equipment; except repair
									3312	Repair of machinery	Repair
	84	Others	Berthing aid Systems								

9 Mooring systems, deck machinery systems

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description			
Mooring Systems, Deck Machinery Systems	91	Anchor, chain	Div. Anchors with chain	2875	Manufacture of other fabricated metal products n.e.c.	Anchors, grapnels and parts thereof	2599	Manufacture of other fabricated metal products n.e.c.	Except: - manufacture of cutlasses, swords, bayonets etc. - manufacture of hat-racks, hat-pegs, brackets and similar fixtures of base metal - metal safety headgear and other metal personal safety devices - repair of fabricated metal products			
			Mechanical brakes, chain stoppers							3311	Repair of fabricated metal products	Repair
	92	Winches	Windlasses	2922	Manufacture of lifting and handling equipment	Manually operated chain hoists	2822	Manufacture of lifting and handling equipment	Except: - repair and maintenance of handling equipment - repair and maintenance of elevators and escalators - installation of materials handling equipment in buildings			
			Hydraulic brakes							Winches and capstans		
			Towing winches							Hydraulic jacks		
			Mooring winches			Pulley tackle and hoists				3312	Repair of machinery	Repair and maintenance of handling equipment
			Rollers									
			Capstans, warping winches									
	93	Ropes, fenders, towing systems	Towing Equipment	1752	Manufacture of cordage, rope, twine and netting	Cordage, rope, cables, of abaca or other hard leaf fibres, sisal, jute	1394	Manufacture of cordage, rope, twine and netting	Except repair of fishing nets (including mending)			
			Ropes									
			Fenders									
			Loose Mooring Equipment									
					Cordage, rope, cables, other than for agricultural use							

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 2 4 digits		Description
Mooring Systems, Deck Machinery Systems	94	Accessories	Bollards	2875	Manufacture of other fabricated metal products n.e.c.	Reels for cables	2599	Manufacture of other fabricated metal products n.e.c.	Except: - manufacture of cutlasses, swords, bayonets etc. - manufacture of hat-racks, hat-pegs, brackets and similar fixtures of base metal - metal safety headgear and other metal personal safety devices - repair of fabricated metal products
			Chocks			Clasps, frames with clasps			
			Hawse-pipes			Cast articles of iron or steel			
			Hawser drums						
						3311	Repair of fabricated metal products	Repair	
	95	Lubrication and cleaning systems	Lube oil systems	2924	Manufacture of other general purpose machinery n.e.c.	Spray guns and similar appliances	2829	Manufacture of other general-purpose machinery n.e.c.	Including spray guns Except: - laboratory type distilling apparatus, laboratory centrifuges, laboratory ultrasonic cleaning machinery - repair other than repair of laboratory type distilling apparatus, laboratory centrifuges, laboratory ultrasonic cleaning machinery - repair
			Deck cleaning machines			Other mechanical appliances for dispersing or spraying			
			Hull cleaning machines						
Common cleaning equipment									
					3312	Repair of machinery	Repair other than repair of laboratory type distilling apparatus, laboratory centrifuges, laboratory ultrasonic cleaning machinery		

10 Safety and life saving systems environmental protection systems

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description	
1 Safety and Life Saving Systems 2 Environmental Protection Systems	101	Boats and lifeboats	Auxiliary vessels with equipment	3512	Building and repairing of pleasure and sporting boats	Lifeboats	3012	Building of pleasure and sporting boats	Except repair and maintenance	
			Workboats			Manufacturing of lifeboats, workboats, Yachts, sailing boats, etc.				
			Auxiliary boats							
			Lifeboats with equipment				3315	Repair and maintenance of ships and boats	Repair and routine maintenance performed by floating dry-docks	
	102	Davits, cranes, ramps	Davits, cranes, ramps		2922	Manufacture of lifting and handling equipment	self-explaining	2822	Manufacture of lifting and handling equipment	self-explaining
								3312	Repair of machinery	Repair and maintenance of handling equipment
	103	Life saving equipment	Lifebuoys	2524	Manufacture of other plastic products	self-explaining	3299	Other manufacturing n.e.c.	Plastics hard hats and other personal safety equipment of plastics	
			Rescue nets							
			Life-jackets							
			Thermal protection bags							
Survival suits			2960	Manufacture of weapons and ammunition, incl. Protective firearms etc.	self-explaining	2540	Manufacture of weapons and ammunition	self-explaining		
Line-throwing appliances										
Distress signalling equipment										
Distress rockets				3311	Repair of fabricated metal products	Repair and maintenance of weapons and weapons systems				

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description
1 Safety and Life Saving Systems 2 Environmental Protection Systems	104	MARPOL equipment	Oil skimmers	2924	Manufacture of other general purpose machinery n.e.c.	Machinery and apparatus for filtering/purifying water	2829	Manufacture of other general-purpose machinery n.e.c.	Except: - laboratory type distilling apparatus, laboratory centrifuges, laboratory ultrasonic cleaning machinery - repair other than repair of laboratory type distilling apparatus, laboratory centrifuges, laboratory ultrasonic cleaning machinery - repair
			Oil booms			Machinery and apparatus n.e.c.			
			Oil transfer hoses						
			Oil recovery bags						
			Oil dispersion equipment						
			Spray booms						
			Chemicals						
3312	Repair of machinery	Repair other than repair of laboratory type distilling apparatus, laboratory centrifuges, laboratory ultrasonic cleaning machinery							

11 General outfitting components

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"	Description "Component", "Service"	NACE Revision 1 4 digits	Description	NACE Revision 1 4 digits	Description				
General Outfitting Components	111	Stairs, ladders, catwalks, railings, etc.	2875	Manufacture of other fabricated metal products n.e.c.	2599	Manufacture of other fabricated metal products n.e.c.	Ladders, platforms and railings in ballast and fuel tanks	Ladders and steps	Except: - manufacture of cutlasses, swords, bayonets etc. - manufacture of hat-racks, hat-pegs, brackets and similar fixtures of base metal - metal safety headgear and other metal personal safety devices - repair of fabricated metal products Ladders and steps -manufacture of metal household articles -manufacture of building components of zinc -metal goods for office use -safes, strongboxes, various metal articles	
							Ladders, platforms and railings in cargo tanks	Pallets and similar platforms for handling goods		
							Ladders, platforms and railings in cargo holds	Cloth, grill, netting and fencing of aluminium wire		
							Ext. ladders, steps, gangways	Hat-racks, hat-pegs, brackets and similar fixtures of base metal		
							Handrails, railing, railgates	Open-die forged		
							Gratings	Closed-die forged		
								Other ware		
	3311	Repair of fabricated metal products	Repair							
	112	Openings and closures	2812	Manufacture of builders' carpentry and joinery of metal	2512	Manufacture of doors and windows of metal	Doors, window-frames and thresholds for doors of iron or steel	Emergency doors		Except installation (erection) work of self-manufactured builders' carpentry and joinery of metal -manufacture of metal doors, windows and their frames, shutters and gates - metal room partitions for floor attachment
								watertight doors		
Spraytight doors										
Side scuttles										
Windows										
Engine room skylights										
Galley skylights										
Messroom skylights										
113	Glass	2612	Shaping and processing of flat glass	2312	Shaping and processing of flat glass	Toughened safety glass for use in other vehicles, aircraft, vessels, spacecraft This class includes: - manufacture of toughened or laminated flat glass - manufacture of glass mirrors - manufacture of multiple-walled insulating units of glass				

12 Auxiliary (piping) systems

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description		
1 - for Engine Operation 11 Fuel Systems 12 Lube Oil Systems 13 Water Cooling Systems (Sea/Freshw.) 14 Steam, Condensate, Feed Water Systems 15 Oil Waste Burning 16 Air Starting Systems 17 Exhaust Systems	121	Separators	Diesel oil separators	2924	Manufacture of other general purpose machinery n.e.c.	Machinery and apparatus for filtering/purifying liquids n.e.c.	2829	Manufacture of other general purpose machinery n.e.c.	manufacture of filtering or purifying machinery and apparatus for liquids		
			Fuel oil separators							Parts of machinery... for filtering/purifying liquids	
			Stand by separators								
			Div. air water separators								
											3312
	2 - for Ship Operation 21 Bilge-, Ballast Systems 22 Trim Compensation Systems 23 Tank Heating 24 Sounding, Overflow, Filling, Air Pipes 25 Other (Scupper Systems etc.) ...	122	Pumps and compressors	Cooling water pumps	2912	Manufacture of pumps and compressors	Pumps for dispensing fuel or lubricants	2812	Manufacture of fluid power equipment	manufacture of hydraulic and pneumatic components (including hydraulic pumps)	
				Air conditioning cooling compressors			Concrete pumps				
				Discharge pumps			Dosing and proportioning pumps	2813	Manufacture of other pumps and compressors	Manufacturing of: air or vacuum pumps air or other gas compressor oil, water and fuel pumps for motor vehicles hand pumps	
				Chlorine pumps							Pumps for liquids, liquid elevators
				Hydr. oil pumps							
Lube oil pumps				Compressors for refrigerating equipment			3312	Repair of machinery	Repair		
Gas generator compressors											
Fuel pumps											
Cargo pumps											
Diesel oil transfer pumps											
Booster pumps	Div. Pumps										

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits	Description	NACE Revision 1 4 digits	Description		
3 - for Cargo Operation 31 Liquid Gas Loading Systems 32 Oil Loading Systems 33 Products Loading Systems 34 Other Loading Systems 35 Intertgas Systems 36 Cargo Hold Heating/Cooling 37 Tank cleaning Drying	123	Loose tanks	Separator water tanks	2821	Manufacture of tanks, reservoirs and containers of metal	2529	Manufacture of other tanks, reservoirs and containers of metal	manufacture of reservoirs, tanks and similar containers of metal, of types normally installed as fixtures for	
			Lube oil tanks					storage or manufacturing use	
			Fresh water tanks					manufacture of metal containers for compressed or liquefied gas	
			Chlorine tanks			3311	Repair of fabricated metal products	Aluminium reservoirs, tanks	Repair of metal tanks
			Condensate tanks					Aluminium containers for compressed or liquefied gas	
			Cooling system tanks						
			38 Hydraulic Systems 4 - for Accommodation 41 Roomheating 42 Fresh Water Generation 43 Fresh Water Distribution 44 Seawater Systems 45 Sewage Systems 46 Swimming Pool Systems 47 HVAC Heating/Cooling Systems 48 Cold Store Systems 49 Other (Waste Handling, Laundry, etc.) ...			124	Valves and fittings	Cooling plants	2913
Drinking water systems	Valves for the control of oleo hydraulic transmission								
Discharge systems	2814	Manufacture of other taps and valves		Valves for the control of pneumatic transmission	manufacture of industrial taps and valves, including regulating valves and intake taps				
Lube oil transfer systems				Other taps, cocks and valves	manufacture of sanitary taps and valves				
Instrument air supply systems				Process control valves	manufacture of heating taps and valves				
Distilled and make-up water systems	3312	Repair of machinery		Check valves	Repair and maintenance services of taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like of metal				
Feed water systems				Mixing valves					

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"	Description "Component", "Service"	NACE Revision 1 4 digits	Description	NACE Revision 1 4 digits	Description				
5 - Fire Fighting, Deck Washing 51 Water Systems 52 Foam Systems 53 Steam Systems 54 Gas Systems (Co2, Inertgas, Halon, Powder)	125	Auxiliary system aggregates	2924	Manufacture of other general purpose machinery n.e.c.	2829	Manufacture of other general-purpose machinery n.e.c.	Tank cleaning hatches	manufacture of equipment for projecting, dispersing or spraying liquids or powders: spray guns, fire extinguishers, sandblasting machines, steam cleaning machines etc.		
							Deck washing			
							Swimming pool technology			
							Pressurized air			
	126	Heaters and coolers	2923	Manufacture of non-domestic cooling and ventilation equipment	2825	Manufacture of non-domestic cooling and ventilation equipment	Heat exchange units	manufacture of refrigerating or freezing industrial equipment, including assemblies of components - manufacture of air-conditioning machines, including for motor vehicles - manufacture of non-domestic fans - manufacture of heat exchangers - manufacture of machinery for liquefying air or gas - manufacture of attic ventilation fans (gable fans, roof ventilators, etc.)		
							machinery for liquefying air or gases			
							Evaporators and condensers			
							Absorption heat pumps			
					3312	Repair of machinery	Other furniture	Repair of machinery	Gas generator coolers	Repair
									Preheaters	
									Fuel oil preheaters	
									Heating coils in fuel oil tanks	
									Exhaust gas coolers	
									Heat exchangers	

(See above)	127	Filters, cleaners	Air filters	2924	Manufacture of other general purpose machinery n.e.c.	Machinery... for filtering/purifying water	2829	Manufacture of other general-purpose machinery n.e.c.	manufacture of filtering or purifying machinery and apparatus for liquids manufacture of distilling or rectifying plant for petroleum refineries, chemical industries, beverage industries etc.
			Lube oil filters			Machinery... for filtering/purifying liquids n.e.c.			
			Diesel oil filters			Oil or petrol filters			
			Fresh water filters			Intake air filters			
			Starting air filters			Distilling or rectifying plant			
			Ventilation air filters						
			Hydraulic oil filters						
	128	Fire fighting equipment	Fire hoses	2924	Manufacture of other general purpose machinery n.e.c.	Fire extinguishers	2829	Manufacture of other general-purpose machinery n.e.c.	manufacture of equipment for projecting, dispersing or spraying liquids or powders: spray guns, fire extinguishers, sandblasting machines, steam cleaning machines etc.
			Sprinkler noses			Other mechanical appliances for dispersing or spraying			
			Fire fighting systems						
			Water cannons						
			CO2 Plants						
			Fire fighting systems foam						
			Fire fighting systems steam						
	129	Main engine accessories	Cylinder lubricating devices	2924	Manufacture of other general purpose machinery n.e.c.	Oil or petrol-filters for internal combustion engines	2829	Manufacture of other general-purpose machinery n.e.c.	manufacture of filtering or purifying machinery and apparatus for liquids manufacture of equipment for projecting, dispersing or spraying liquids or powders: spray guns, fire extinguishers, sandblasting machines, steam cleaning machines etc. manufacture of cooling towers and similar for direct cooling by means of re-circulated water
			Filters			Spray guns and similar appliances			
			Coolers						
			Oil preheaters						
			Fuel oil transfer and drain systems			Other mechanical appliances for projecting, dispersing or spraying			
			Fuel oil purification plants						
			Lube oil systems			Cooling towers and similar plant for direct cooling			

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description
(See above)	1210	Special Liquid Gas Equipment	LNG/LPG Plants as a whole system	2923	Manufacture of non-domestic cooling and ventilation equipment	Machinery for liquefying air or other gases	2825	Manufacture of non-domestic cooling and ventilation equipment	manufacture of refrigerating or freezing industrial equipment, including assemblies of components - manufacture of air-conditioning machines, including for motor vehicles - manufacture of non-domestic fans - manufacture of heat exchangers - manufacture of machinery for liquefying air or gas - manufacture of attic ventilation fans (gable fans, roof ventilators, etc.)
			Cooling Systems for liquid Cargo			Compression type units whose condensers are heat exchangers			
			Loading/Discharging Systems for LPG/LNG in gaseous phase			Machinery and apparatus for filtering or purifying gases, by liquid process			3312
			Indirect cooling/heating systems, cargo oil heating						
			Heating systems for cargo						

13 HVAC systems

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description	
HVAC Systems	131	HVAC	Ventilation/air condition systems for accommodation	2923	Manufacture of non-domestic cooling and ventilation equipment	Air conditioning machines, with refrigerating unit	2825	Manufacture of non-domestic cooling and ventilation equipment	manufacture of refrigerating or freezing industrial equipment, including assemblies of components - manufacture of air-conditioning machines, including for motor vehicles - manufacture of non-domestic fans - manufacture of heat exchangers - manufacture of machinery for liquefying air or gas - manufacture of attic ventilation fans (gable fans, roof ventilators, etc.)	
			Ventilation fan centrals			Air conditioning machines, without refrigerating unit				
			Air condition central units			Window or wall air conditioning machines, self contained	3312	Repair of machinery		Repair
			Air condition distribution boxes							
			Humidity regulation equipment							
	Parts of air conditioning machines									

14 Cargo systems

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"	Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description			
1 - for Dry Cargo 2 - for Bulk Cargo 3 - for Container 4 - for Gas Carrier 5 - for Tanker 6 - for Fishing Vessel 7 - Dredgers 8 - Reefer Vessel 9 - Construction, Production Vessel	141	Cranes etc., sucker, conveyors, cargo lift	Cargo lifts	2922	Manufacture of lifting and handling equipment	2822	Manufacture of lifting and handling equipment	manufacture of hand-operated or power-driven lifting, handling, loading or unloading machinery: pulley tackle and hoists, winches, capstans and jacks derricks, cranes, mobile lifting frames, straddle carriers etc. works trucks, whether or not fitted with lifting or handling equipment, whether or not self-propelled, of the type used in factories (including hand trucks and wheelbarrows) mechanical manipulators and industrial robots specifically designed for lifting, handling, loading or unloading - manufacture of conveyors, teleferics etc. - manufacture of lifts, escalators and moving walkways - manufacture of parts specialised for lifting and handling equipment			
			Lifting/articulated board					Portal or pedestal jib cranes			
			Roller conveyors					Lifts and skip hoists			
			Travelling cranes					Escalators and moving walkways			
			Mechanical shovels								
			Pneumatic plants for bulk cargo handling					Pneumatic elevators and conveyors , other for bulk material	3312	Repair of machinery	Repair and maintenance of handling equipment
			Cargo shifting boards					Continuous-action elevators and conveyors	4329	Other construction installation	Repair and maintenance of elevators and escalators
			Deck cranes for cargo					Lifting machinery			
	142	Hatch covers	Patent hatches	2812	Manufacture of builders' carpentry and joinery of metal	2512	Manufacture of doors and windows of metal	Except installation (erection) work of self-manufactured builders' carpentry and joinery of metal			
			Hatch sections					Doors, window-frames and thresholds for doors of iron or steel			
			Cargo tank hatches								
			Grain hatches					4332	Joinery installation	Installation (erection) work of self-manufactured builders' ware of metal	
			Provision hatches								
			Emergency hatches								
Tank cleaning hatches											
1 - for Dry Cargo	143	RO-RO	Bow ports	2812	Manufacture of	2512	Manufacture of doors and	Except installation (erection) work of self-			

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits	Description	NACE Revision 1 4 digits	Description				
2 - for Bulk Cargo 3 - for Container 4 - for Gas Carrier 5 - for Tanker 6 - for Fishing Vessel 7 - Dredgers 8 - Reefer Vessel 9 - Construction, Production Vessel		Equipment	Driving ramps	builders' carpentry and joinery of metal	frames and thresholds for doors of iron or steel	4332	windows of metal	manufactured builders' carpentry and joinery of metal			
			Stern ports								
			Side ports								
			Lifting/lowering machinery								
	144	Cargohold outfitting	Locking devices	2875	Manufacture of other fabricated metal products n.e.c.	Pallets and similar platforms for handling goods	2599	Manufacture of other fabricated metal products n.e.c.	Except: - manufacture of cutlasses, swords, bayonets etc. - manufacture of hat-racks, hat-pegs, brackets and similar fixtures of base metal - metal safety headgear and other metal personal safety devices - repair of fabricated metal products		
			Platforms								
			Grain feeders			Forged or stamped articles of iron or steel					
			Grating								
			Protection covers			3311				Repair of fabricated metal products	Repair
			Pallets								
			Fish crates								
	145	LNG/LPG Tanks	LNG Tanks	2821	Manufacture of tanks, reservoirs and containers of metal	Reservoirs, tanks of iron or steel for gas	2529	Manufacture of other tanks, reservoirs and containers of metal	manufacture of reservoirs, tanks and similar containers of metal, of types normally installed as fixtures for storage or manufacturing use manufacture of metal containers for compressed or liquefied gas		
			LPG Tanks			Reservoirs, tanks, for liquids					
			Spherical Tanks			Aluminium reservoirs, tanks					
Aluminium containers for compressed or liquefied gas											
Membrane Tanks			3311			Repair of fabricated metal products	Repair of metal tanks				
Semi-Pressurized Tanks											
1 - for Dry Cargo 2 - for Bulk Cargo	146	Fishing Vessel Equipment Systems	Fishing nets	1752	Manufacture of cordage, rope, twine and netting	1394	Manufacture of cordage, rope, twine and netting	manufacture of twine, cordage, rope and cables of textile fibres or strip or the like, whether or not impregnated, coated, covered or sheathed with rubber or plastics			

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description							
3 - for Container 4 - for Gas Carrier 5 - for Tanker 6 - for Fishing Vessel 7 - Dredgers 8 - Reefer Vessel 9 - Construction, Production Vessel			Fish traps						- manufacture of knotted netting of twine, cordage or rope - manufacture of products of rope or netting: fishing nets, ships' fenders, unloading cushions, loading slings, rope or cable fitted with metal rings etc.							
			Purse nets							Other made up fishing nets of nylon, polyamides or other						
			Scoop nets							1752	Repair of other equipment	Repair of fishing nets (including mending)				
			Trawler winches				2922	Manufacture of lifting and handling equipment	Continuous-action elevators and conveyors	2822	Manufacture of lifting and handling equipment		manufacture of hand-operated or power-driven lifting, handling, loading or unloading machinery: pulley tackle and hoists, winches, capstans and jacks derricks, cranes, mobile lifting frames, straddle carriers etc. works trucks, whether or not fitted with lifting or handling equipment, whether or not self-propelled, of the type used in factories (including hand trucks and wheelbarrows) mechanical manipulators and industrial robots specifically designed for lifting, handling, loading or unloading - manufacture of conveyors, teleferics etc. - manufacture of lifts, escalators and moving walkways - manufacture of parts specialised for lifting and handling equipment			
			Longline windlass											3312	Repair of machinery	Repair and maintenance of handling equipment
			Fish pumping plants											4329	Other construction installation	Repair and maintenance of elevators and escalators
1 - for Dry Cargo 2 - for Bulk Cargo 3 - for Container	146	Fishing Vessel Equipment Systems	Fishing sonar	3320	Manufacture of instruments	Instruments	2651	Manufacture of instruments and appliances for measuring, testing and navigation	- Flight recorders, search, detection, navigation, aeronautical, and nautical equipment, including sonabouys; environmental controls and automatic controls for appliances, temperature, humidity and similar; fluid meters and counting devices; laboratory sc							

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		NACE Revision 1 4 digits		Description	
4 - for Gas Carrier 5 - for Tanker 6 - for Fishing Vessel 7 - Dredgers 8 - Reefer Vessel 9 - Construction, Production Vessel						3313	Repair of electronic and optical equipment	- Repair of flight recorders, search, detection, navigation, aeronautical, and nautical equipment, including sonobouys; environmental controls and automatic controls for appliances, temperature, humidity and similar; fluid meters and counting devices. - R	
			Fish Processing Plants	2953	Manufacture of machinery for food, beverage and tobacco processing	Nace Rev.1 2953 explanations	2893	Manufacture of machinery for food, beverage and tobacco processing	manufacture of machinery for the extraction or preparation of animal or vegetable fats or oils
			Raw material handling						
			Fillet factories						
			Shrimp factories						
			Meal and oil factories						
Surimi factories									
						3312	Repair of machinery	Repair	

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"	Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description		
1 - for Dry Cargo 2 - for Bulk Cargo 3 - for Container 4 - for Gas Carrier 5 - for Tanker 6 - for Fishing Vessel 7 - Dredgers 8 - Reefer Vessel 9 - Construction, Production Vessel	147	Special Equipment for Dredgers	Dredge pumps	2912	Manufacture of pumps and compressors	self-explaining	2812	Manufacture of fluid power equipment	manufacture of hydraulic and pneumatic components (including hydraulic pumps,	
							2813	Manufacture of other pumps and compressors	manufacture of air or vacuum pumps, air or other gas compressors - manufacture of pumps for liquids whether or not fitted with a measuring device - manufacture of pumps designed for fitting to internal combustion engines: oil, water and fuel pumps for motor vehicles etc.	
							3312	Repair of machinery	Repair	
			Bucket chain	2922	Manufacture of lifting and handling equipment		2822	Manufacture of lifting and handling equipment	manufacture of hand-operated or power-driven lifting, handling, loading or unloading machinery manufacture of conveyors, teleferics etc. - manufacture of lifts, escalators and moving walkways - manufacture of parts specialised for lifting and handling equipment	
			Backhoe equipment				3312	Repair of machinery	Repair	
			Wheel ladder equipment							
		148	Special Equipment for Construction Vessels	Cable handling equipment	2922	Manufacture of lifting and handling equipment	self-explaining	2822	Manufacture of lifting and handling equipment	manufacture of hand-operated or power-driven lifting, handling, loading or unloading machinery manufacture of conveyors, teleferics etc. - manufacture of lifts, escalators and moving walkways - manufacture of parts specialised for lifting and handling equipment
	Pipe handling equipment			3312				Repair of machinery	Repair	
	Heavy lifting gear									
		149	Lashing Equipment	Chains, Tie rods	2874	Manufacture of fasteners, chains, springs	self-explaining	2593	Manufacture of wire products, chain and springs	Manufacture of chains and springs
	Twist locks			2594				Manufacture of fasteners and screw machine products	manufacture of rivets, washers and similar non-threaded products - manufacture of screw machine products - manufacture of bolts, screws, nuts and similar threaded products	

15 Accommodation systems

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits	Description	NACE Revision 1 4 digits	Description				
1 - Prepared Cabins 2 - Galley and Cafeteria Systems 3 - Lounges, Dining Room Systems 4 - Special Room Systems (Theatres, Casino, etc.) 5 Ship Functional Room System	151	Frames, walls, staircases	Bulkhead/wall panelling	2811	Manufacture of metal structures and parts of structures	2511	Manufacture of metal structures and parts of structures	manufacture of metal frameworks or skeletons for construction and parts thereof			
			Pre-insulated bulkhead panelling								
			Ladders						2433	Cold forming or folding	Manufacture of cold-formed or cold-folded, ribbed sheets and sandwich panels.
			Stairs						3311	Repair of fabricated metal products	Repair of metal structures
			Staircases						4120	Construction of residential and non-residential buildings	Assembly and installation of self-manufactured buildings of metal on site
			Walls								
	152	Doors and openings	Sliding doors	2812	Manufacture of builders' carpentry and joinery of metal	2512	Manufacture of doors and windows of metal	Doors, window-frames and thresholds for doors of iron or steel			
			Gastight doors								
			Stores doors								
			Sliding windows								
			Window recesses						4332	Joinery installation	Installation (erection) work of self-manufactured builders' ware of metal
	153	Lifts	Personnel elevators	2922	Manufacture of lifting and handling equipment	2822	Manufacture of lifting and handling equipment				
			Escalators						3312	Repair of machinery	Repair and maintenance of handling equipment
									4329	Other construction installation	Repair and maintenance of elevators and escalators

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description
1 - Prepared Cabins 2 - Galley and Cafeteria Systems 3 - Lounges, Dining Room Systems 4 - Special Room Systems (Theatres, Casino, etc.) 5 Ship Functional Room System	154	Sanitation objects and appliances	Shower cabinets	2622	Ceramic	Ceramic sinks, wash basins, baths and other sanitary fixtures n.e.c.	2342	Manufacture of ceramic sanitary fixtures	Ceramic sinks, wash basins, baths and other sanitary fixtures n.e.c.
			Standard toilets						
			Washstands						
			Vacuum toilets						
			Wash basins w/ equipment						
	155	Electric domestic appliances	Refrigerators	2971	Manufacture of electric domestic appliances	Refrigerators	2751	Manufacture of electric domestic appliances	manufacture of domestic electric appliances: refrigerators, freezers, dishwashers, washing and drying machine, vacuum cleaners - manufacture of domestic electrothermic appliances: electric water heaters, electric blankets, electric dryers, combs, brushes, curlers, electric smoothing ironsspace heaters and household-type fans, portable electric ovens microwave ovens, cookers, hotplates, toasters, coffee or tea makers, fry pans, roasters, grills, hoods, electric heating resistors etc.
			Grills, ovens			Freezers			
			Boilers			Fully-automatic washing machines			
			Mixers			Drying machines			
			Potato peeling machines			Vacuum cleaners			
			Coffeemakers			Food mixers, processors, blenders			
			Ice cubers			Irons			
			Dishwashing machines						
			Clothing washing machines						
Ironing machines									
					3314	Repair of electrical equipment	Repair and maintenance of professional electric appliances		

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"	Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description	
1 - Prepared Cabins 2 - Galley and Cafeteria Systems 3 - Lounges, Dining Room Systems 4 - Special Room Systems (Theatres, Casino, etc.)	156	Furniture and decoration	Deck tables, chairs	3614	Manufacture of other furniture	3109	Manufacture of other furniture	manufacture of sofas, sofa beds and sofa sets - manufacture of garden chairs and seats - manufacture of furniture for bedrooms, living rooms, gardens etc. - manufacture of cabinets for sewing machines, televisions etc. This class also includes: - finishing such as upholstery of chairs and seats - finishing of furniture such as spraying, painting, French polishing and upholstering	
			Furniture, inventory, entertainment equipment						Metal furniture n.e.c.
			Office equipment						Wooden furniture for the bedroom
			Decorations						Wooden furniture for dining and living room
			Hobby, sports equipment						Furniture of plastics
			Furniture for passengers						Furniture of other materials n.e.c.
			Galley/pantry equipment						Parts of furniture
	Cafeteria/bar equipment	9524	Repair of furniture and home furnishings	Repair, maintenance and restoration services for other furniture					
	5 Ship Functional Room System	157	Workshop Outfitting	Workbenches	3614	Manufacture of other furniture	3109	Manufacture of other furniture	manufacture of sofas, sofa beds and sofa sets - manufacture of garden chairs and seats - manufacture of furniture for bedrooms, living rooms, gardens etc. - manufacture of cabinets for sewing machines, televisions etc. This class also includes: - finishing such as upholstery of chairs and seats - finishing of furniture such as spraying, painting, French polishing and upholstering
				Worktables					
Lockers				Wooden furniture n.e.c.					
Shelves/racks									
Tools boards									
				9524					

16 Others

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description
Others	161	Special Offshore Equipment	Blow out Preventer	29	Manufacture of machinery and equipment n.e.c.	Self-explaining	3320	Installation of industrial machinery and equipment	Various manufacturing/installation activities
			Christmas-Tree Assembly						
			Coiled Tubing Injector Unit						
			Kill and Choke Equipment						
			Mud and Cementing Equipment						
			Wellhead Equipment						
	162	Special Underwater Equipment	Diving support systems	29	Manufacture of machinery and equipment n.e.c.	Self-explaining	3320	Installation of industrial machinery and equipment	Various manufacturing/installation activities
			Diving systems						
			Hyperbaric rescue chambers						
	163	Special Navy Systems, Acoustics and Weapon Systems	Hydrophones	296	Manufacture of weapons and ammunition	Self-explaining	2540	Manufacture of weapons and ammunition	Self-explaining
			Weapon Systems						
			Combat simulation systems				3311	Repair of fabricated metal products	Repair and maintenance of weapons and weapons systems
	164	Miscellaneous				Self-explaining			

17 Materials

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description
Materials	171	Steel Plates/Profiles	Self-explaining	271	Manufacture of basic iron and steel and of ferro-alloys (ECSC)	Self-explaining	2410	Manufacture of basic iron and steel and of ferro-alloys	Self-explaining
	172	Steel - Pipes	Self-explaining	272	Manufacture of tubes	Self-explaining	2420	Manufacture of tubes, pipes, hollow profiles and related fittings, of steel	Self-explaining
	173	Non-Ferro Metals	Plates, Profiles, Fittings	274	Manufacture of basic precious and non-ferrous metals	Self-explaining	2441	Precious metals production	Self-explaining
	174	Rubber and Plastics	Floor coverings, carpets	25	Manufacture of rubber and plastic products	Self-explaining	2200	Manufacture of rubber and plastic products	Self-explaining
	175	Glass and Ceramics	Self-explaining	26	Manufacture of rubber and plastic products	Self-explaining	2300	Manufacture of other non-metallic mineral products	Self-explaining
	176	Textile Products	Floor coverings, carpets	175	Manufacture of other textiles	Self-explaining	1390	Manufacture of other textiles	Self-explaining
	177	Assembly material	(Screws, nuts, bolts, hoists etc.)	287	Manufacture of other fabricated metal products	Self-explaining	2590	Manufacture of other fabricated metal products	Self-explaining
	178	Welding material	Self-explaining	287	Manufacture of other fabricated metal products	Self-explaining	2590	Manufacture of other fabricated metal products	Self-explaining
	179	Paint and Coatings	Paint (Hull, decks, cargo holds, engine room, accommodation)	2430	Manufacture of paints, varnishes and similar coatings, printing ink and mastics	Self-explaining	2030	Manufacture of paints, varnishes and similar coatings, printing ink and mastics	Self-explaining
			Coatings (Tanks, anodes etc.)			Self-explaining			Self-explaining
1710	Insulation Material	Engine room insulation	268	Manufacture of other non-metallic mineral products	Self explaining	2399	Manufacture of other non-metallic mineral products	Self explaining	
		Insulation all rooms							
		Cargohold insulation							

18 Subcontracts (manufacturing and assembly)

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description
Manufacturing and Assembly	181	Steel Section and Modules	Steel Sections from subassemblies up to complete Deckhouses, Bow-Sections etc.	3511	Building and repairing of ships	self explaining	3011	Building of ships and floating structures	self explaining
							3315	Repair and maintenance of ships and boats	self explaining
	182	Pipes and Pipe Sub-assemblies	Pre-assembly and/or onboard assembly	4533	Plumbing incl. Pipes and sanitary equipment, Heating, Ventilation, Air Condition etc.	self explaining	4322	Plumbing, heat and air- conditioning installation	self explaining
	183	HVAC Ducts and subassemblies	Duct Pre-fabrication and/or HVAC onboard assembly						self explaining
	184	Electrical Installation	onboard assembly incl./or excl. of material provision	4531	Installation of electrical wiring and fittings	self explaining	8020	Security systems service activities	self explaining
	185	Insulation	onboard assembly incl./or excl. of material provision	4532	Insulation work activities	self explaining	4329	Other construction installation	self explaining
	186	Painting	onboard assembly incl./or excl. of material provision	4544	Painting and glazing	self explaining	4334	Painting and glazing	self explaining
	187	Joinery	onboard assembly	4542/ 4543	Joinery Installation/ Floor and Wall covering	self explaining	4332/ 4333	Joinery Installation/ Floor and Wall covering	self explaining
	188	Scaffolding	onboard assembly incl./or excl. of material provision	4525	Other construction work incl. scaffolding	self explaining	4399	Other specialised construction activities n.e.c.	self explaining
	189	Cleaning	self explaining	7470	Industrial cleaning	self explaining	8122	Other building and industrial cleaning activities	self explaining
1810	Casting of Metals	self explaining	275	Casting of Metals	semi-finished products and various castings produced for third parties according to their specification	2450	Casting of Metals	This group includes the manufacture of semi- finished products and various castings by a casting process.	

19 Subcontractors and services (engineering, design, consulting, testing, classification)

Marine Supplies "Systems Groups", "Systems"	Marine Supplies Group "Component", "Service"		Description "Component", "Service"	NACE Revision 1 4 digits		Description	NACE Revision 1 4 digits		Description
1 Engineering + Design 2 Test, Control, Authorities 3 Special Shipyard Services (Transport, Maintenance, Waste Handling, ...) 4 Supply Chain Support, Consulting, IT Services, R&D etc.	191	Classification, Type approval	approval of design, supervision of construction, certificates	743	Testing of calculations, certification of ships	self explaining	71.2	Technical testing and analysis	self explaining
	192	Model Testing, CFD	hydro dynamical calculations, CFD	742	Architectural and engineering activities and related technical consultancy	self explaining	7112	Engineering activities and related technical consultancy	Engineering activities and related technical consultancy
	193	Conceptual Design	Basic Ship Design incl. Hydrostatic, FE analysis etc.						
	194	Construction Drawings	workshop drawings, CAD						
	195	R&D Institute University	self explaining	731	Research and experimental development on natural sciences and engineering	self explaining	7219	Other research and experimental development on natural sciences and engineering	- Systematic studies and creative efforts in the three types of research and development defined above, in natural sciences except biotechnology (mathematics, physics, astronomy, chemistry, life sciences, medical sciences, earth sciences, agriculture, etc
	196	Authorities	self explaining	751	Administration of the State and the economic and social policy of the community	self explaining	8410	Administration of the State and the economic and social policy of the community	self explaining
	197	Associations	self explaining	9111	Activities of business, employers' and professional organizations	self explaining	9411	Activities of business, employers' and professional organizations	self explaining
	198	Supply Chain Support, Consulting	self explaining	741	Advice and help to businesses in planning organisation, efficiency and control, management information, Project Management	self explaining	7022	Business and other management consultancy activities	self explaining
	199	Computer Services	self explaining	72	Hardware consultancy, software consultancy and supply, data processing, database activities, maintenance	self explaining	6200	Computer programming, consultancy and related activities including consultancy activities	self explaining