



Nautic Steels Ltd.

Manufacturer of Nickel Alloys and Copper Nickel



THE COMPANY

Nautic Steels Ltd, established in 1978 with a built up area more than 100,000sq ft is strategically located in Tamworth, Staffordshire, the industrial heart of the United Kingdom.

Nautic Steels is an ISO 9001:2008 certified Company and is one of the world's leading manufacturers of pipes, fittings, flanges and ancillary equipment with material grades of Nickel Alloys, Copper Nickel 90/10 and 70/30, Austenitic Stainless Steels, 6Mo, Duplex and Super Duplex. Our products are widely used in Oil and Gas, Onshore, Offshore, Chemical and Petrochemical, Marine and Shipbuilding, Defence industries and Seawater Systems including Fire Water, Desalination and Water Cooling Plants.

With more than 35 years of experience, Nautic Steels is fully committed to our philosophy of producing high quality products, prompt delivery and continuous improvement to fulfil our customers' needs.

Beside our excellent manufacturing capability, extensive knowledge and experience, we are also constantly improving and expanding our product by investing in the research and development (R&D) in order to be relevant to the industry's demand.

Our products are well accepted in the major Oil and Gas, Marine & Shipyard companies such as Adma, Aramco, Norsok M-650, Petronas, Petrobas, Qatar Petroleum, Zadco and others.

INDUSTRY APPLICATION FOR NICKEL ALLOYS AND COPPER NICKEL

Nickel alloys have excellent resistance to corrosion and high temperature applications.

Copper nickel has resistance to corrosion, especially for seawater that requires superior resistance to impingement corrosion attack.

Application for:

- Bilge and Ballast Systems
- Cargo Heating Coils
- Chemical Tanker Buildings
- Fire Fighting Systems
- Hydraulic and Pneumatic Systems
- Insert-Gas Systems
- Onshores
- Offshores
- Petrochemical & Chemical Processing
- Power Generation
- Power Station Condensers
- Pulp & Paper
- Sanitary Systems
- Seawater Cooling Systems
- Seawater Desalination Plants
- Shipboard Sea Water Systems
- Ship-building
- Splash Zone Sheathing
- Waste Water Treatment
- Water Instakes



PRODUCT CATEGORIES

We manufacture and stock a comprehensive of product range in Nickel Alloys, Duplex, Super Duplex, Austenitic Stainless Steels, Copper Nickel 90/10 and 70/30 and 6Mo.

Pipes/Tubes	Seamless (1/2" to 16") and welded pipes/tubes (8" to 36") with wall thicknesses ranging from 2mm to 19mm.	Flanges	Flanges in sizes ranging from 1/2" up to 36" with wall thicknesses ranging from 5s to XXS. Classes vary from 150 up to 2500 lb.
Fittings	Butt-welded and forged fittings in sizes ranging from 1/2" up to 36" with wall thicknesses ranging from 5s to XXS.	Others	Olets, nipples, capillary, compression, socket weld.

All products are manufactured in accordance to standards and specifications.

MATERIAL AND DIMENSION SPECIFICATIONS

PRODUCT CATEGORY					PIPES			BUTT-WELDED FITTINGS		FORGING FITTINGS, FLANGES, OLETS, NIPPLES					NIPPLES
Type					Pipes/Tubes			Butt- Welded Fittings		Forged Fittings	Flanges	Special Flanges	Olets	Nipples	
					Seamless and Welded			Elbows		Capillary Brazed	Composite Blind	Composite Blind Spades	Elbolets	Swage Nipples (Concentric/Eccentric)	
								Tees		Socket Weld	Composite Weld Neck	Composite Spectacle Blinds	Latrolets	Pipe Nipples	
								Reducers(Concentric/Eccentric)		Screwed	Composite Slip-on	Nipoflanges	Threadolets		
								End Caps		Compression	Solid Blind	Spades and Ring Spacers	Nipolets		
								Saddles			Solid Weld-Neck	Spectacle Blinds	Socoklets		
											Solid Slip on		Weldolets		
											Socket Weld		Weldoflanges		
											Stub End				
											Threaded				
	Material Type	Material Spec			Material Spec		Dimension Spec	Material Spec	Dimension Spec	Material Spec	Dimension Spec				Dimension Spec
	Alloys	UNS	EN/Werkstoff	Plates	Pipes/Tubes (Seamless)	Pipes/Tubes (Welded)	Pipes	Butt-Welded Fittings (seamless & Welded)		Forged	Fittings	Flanges	Special Flanges	Olets	Nipples
NICKEL ALLOYS	Alloy 200/201	N02200/N02201	2.4060	B162	B161	B725	ASME B36.19	B366 (WPN/WPNL)	ASME B16.9	B564	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Alloy 400	N04400	2.4360	B127	B165	B725	ASME B36.19	B366 (WPNC)	ASME B16.9	B564	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Alloy 600	N06600	2.4816	B168	B167	B517	ASME B36.19	B366 (WPNCI)	ASME B16.9	B564	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Alloy 601	N06601	2.4851	B168	B167	B517	ASME B36.19	B366 (WPNCI)	ASME B16.9	B564	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Alloy 625	N06625	2.4856	B443	B444	B705	ASME B36.19	B366 (WPNCMC)	ASME B16.9	B564	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Alloy 800	N08800	1.4876	B409	B407	B514	ASME B36.19	B366 (WPNIC)	ASME B16.9	B564	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Alloy 801	N08801	1.4876	B409	B407	B514	ASME B36.19	B366 (WPNIC)	ASME B16.9	B564	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Alloy 800H	N08810	1.4958/1.4876	B409	B407	B514	ASME B36.19	B366 (WPNIC10)	ASME B16.9	B564	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Alloy 800HT	N08811	1.4959	B409	B407	B407	ASME B36.19	B366 (WPNIC11)	ASME B16.9	B564	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Alloy 825	N08825	2.4858	B424	B423	B705	ASME B36.19	B366 (WPNCMC)	ASME B16.9	B564	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Alloy C22	N06022	2.4602	B575	B622	B619	ASME B36.19	B366 (WPHC22)	ASME B16.9	B564	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Alloy C276	N10276	2.4819	B575	B622	B619	ASME B36.19	B366 (WPHC276)	ASME B16.9	B564	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
DUPLEX & SUPER DUPLEX	Alloys	UNS	EN/Werkstoff	Plates	Pipes/Tubes (Seamless)	Pipes/Tubes (Welded)	Pipes	Butt-Welded Fittings (seamless & Welded)		Forged	Fittings	Flanges	Special Flanges	Olets	Nipples
	2205	S31803	1.4462	A240	A790	A928	ASME B36.19	A815	ASME B16.9	A182 F51	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	2205	S32205	1.4462	A240	A790	A928	ASME B36.19	A815	ASME B16.9	A182 F60	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Super Duplex 2507	S32750	1.4410	A240	A790	A928	ASME B36.19	A815	ASME B16.9	A182 F53	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	Super Duplex S32760	S32760	1.4501	A240	A790	A928	ASME B36.19	A815	ASME B16.9	A182 F55	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
AUSTENITIC STAINLESS STEELS	Alloys	UNS	EN/Werkstoff	Plates	Pipes/Tubes (Seamless)	Pipes/Tubes (Welded)	Pipes	Butt-Welded Fittings (seamless & Welded)		Forged	Fittings	Flanges	Special Flanges	Olets	Nipples
	6Mo	S31254	1.4547	A240	A312	A358	ASME B36.19	A403	ASME B16.9	A182 F44	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	904L	N08904	1.4539	A240	A312	A358	ASME B36.19	A403	ASME B16.9	A182 F904L	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
COPPER NICKEL (Cu-Ni)	Alloys	UNS	EN/Werkstoff	Plates	Pipes/Tubes (Seamless)	Pipes/Tubes (Welded)	Pipes	Butt-Welded Fittings (seamless & Welded)		Forged	Fittings	Flanges	Special Flanges	Olets	Nipples
	90/10 Cu-Ni	C70600	2.0872	B 171	B466	B467	ASME B36.19		ASME B16.9	B151	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	90/10 Cu-Ni	C70620	2.0872	B 171	B466	B467	ASME B36.19		ASME B16.9	B151	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95
	EEMUA 7060X	UNS 7060X			EEMUA 144(90/10) (16/20 Bar Rating)	EEMUA 144(90/10) (16/20 Bar Rating)	EEMUA 144(90/10) (16/20 Bar Rating)	EEMUA 146 (16/20 Bar Rating)			EEMUA 146 (16/20 Bar Rating)	EEMUA 145 (16/20 Bar Rating)	ASME B16.48	EEMUA 146 (16/20 Bar Rating)	BS3799/MSS SP 95
70/30 Cu-Ni	C71500	2.0882	B171	B466	B467	ASME B36.19		ASME B16.9	B151	BS3799/ASME B16.11	MSS SP 43 TYPE A/ASME B16.5	ASME B16.48	MSS SP 97	BS3799/MSS SP 95	



QUALITY MANAGEMENT SYSTEM

Nautic Steels is committed to achieve high quality through state-of-art technology and equipment, and also certified to ISO 9001:2008 quality management a high quality of products that are in accordance to national and international standards and specifications.

WELDING PROCEDURES AND SPECIFICATIONS

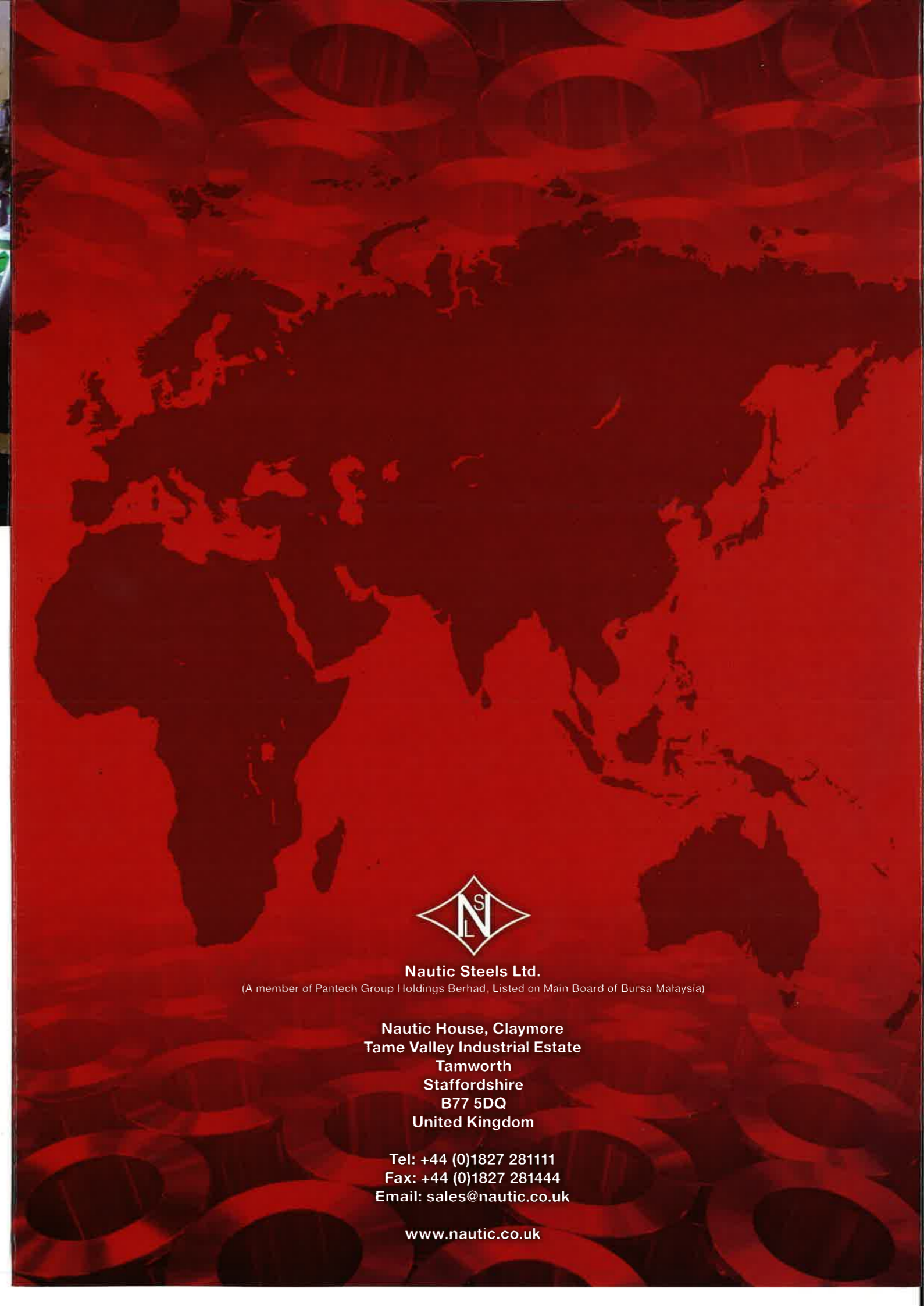
All welds are 100% radiographically inspected to ASME code, Section VIII UW51.

All procedures are qualified to ASME IX, generally Lloyd's Register EMEA approval, giving a comprehensive range of materials.

All personnel engaged in welding are qualified to ASME IX, these are checked and approved when required. Welding processs used are T.I.G and M.M.A

TYPE OF TESTINGS

Destructive Testing	Non Destructive Testing
<ul style="list-style-type: none"> • ASTM G48 Method A • ASTM G48 Method C • ASTM G28 Method B • ASTM A262 Practice E Corrosion Test • Ferrite Determination to ASTM E562 • Hardness Testing • Tensile Testing to Applicable Specification • Charpy Impact Testing • Metallography 	<ul style="list-style-type: none"> • Liquid Dye Penetrant Testing (DPI) • Product Material Identification (PMI) - Niton XL2 980 Gold Alloy Analyzer • Ultrasonic Testing (UT) • Fischer Ferrite Testing • Radiography



Nautic Steels Ltd.

(A member of Pantech Group Holdings Berhad, Listed on Main Board of Bursa Malaysia)

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