

Barton Marine Surveyors SL

Experience our expertise

This brochure contains information about activities of Barton Marine Surveyors

There are five products groups within our company:

- **Hull and Machinery**
- **Marine and Non-Marine Cargo**
- **Salvage and Wreck Removal**
- **Consultancy**
- **Risk Management**

Expertise

Marine surveying and consultancy is a small yet complicated discipline in which knowledge is invaluable. Barton Marine Surveyors's surveyors are completely up-to-date in their respective fields. Each is a specialist in shipping, engineering, cargoes, salvage and wreck removal, coatings, consultancy, risk management or training.

Experience

On its own, knowledge is not enough. Surveying is best learned by getting your hands dirty- something that both our staff and our principals know from everyday experience. Every situation is different and requires a different skill set.

Experience our expertise

Our expertise and experience is something that we as a company nurture and preserve. We have a wealth of information that we draw upon to guarantee the quality and reliability of our services.

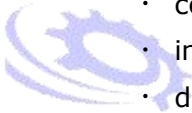
Hull & Machinery

Within the scope of the Hull and Machinery product group, Barton Marine Surveyors provides authoritative surveys of damage to a range of hardware, including:

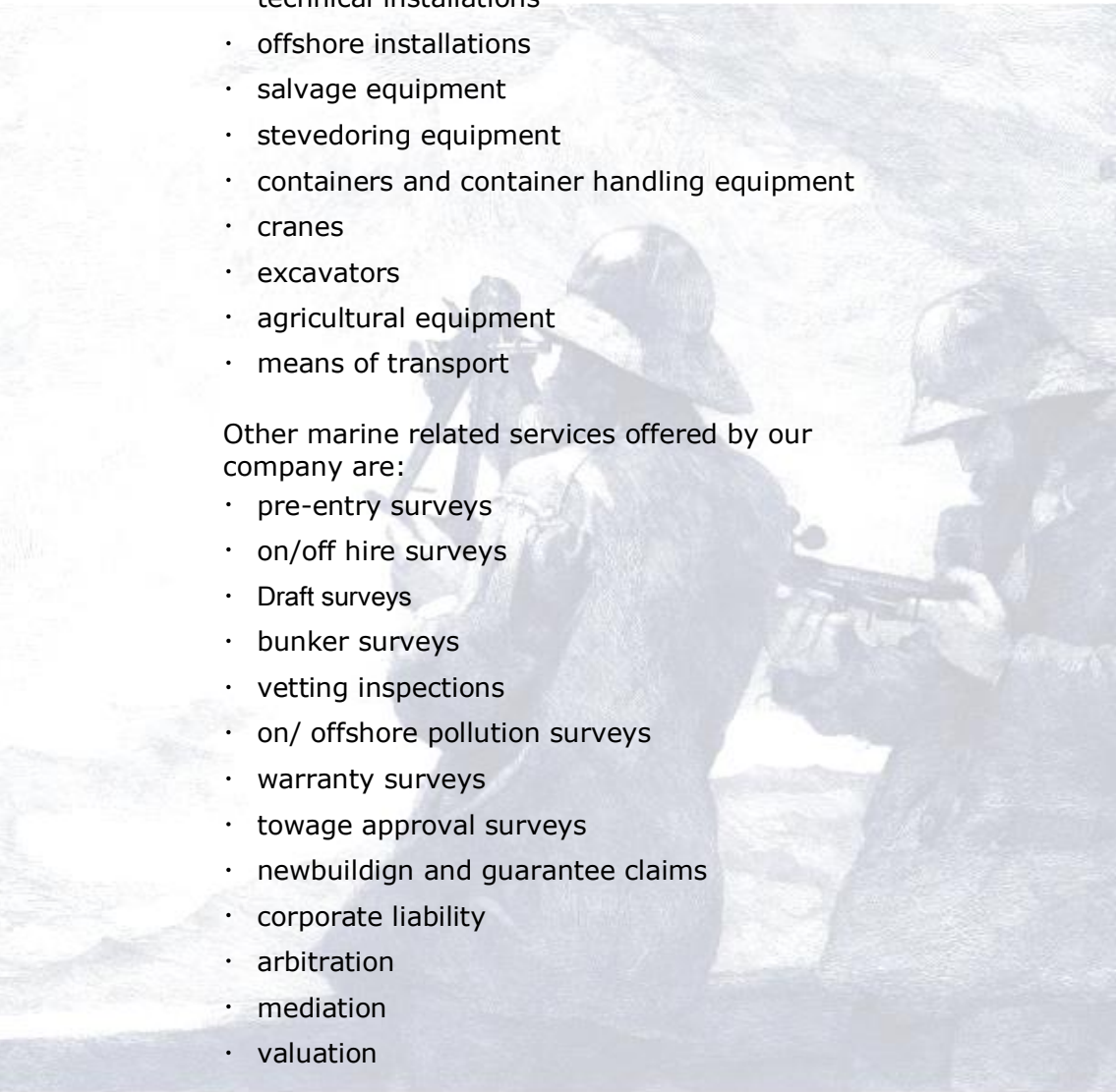
- deep-sea vessels
- coastal vessels
- inland vessels
- dredging vessels
- yachts
- propulsion plants
- machinery
- technical installations
- offshore installations
- salvage equipment
- stevedoring equipment
- containers and container handling equipment
- cranes
- excavators
- agricultural equipment
- means of transport

Other marine related services offered by our company are:

- pre-entry surveys
- on/off hire surveys
- Draft surveys
- bunker surveys
- vetting inspections
- on/ offshore pollution surveys
- warranty surveys
- towage approval surveys
- newbuildign and guarantee claims
- corporate liability
- arbitration
- mediation
- valuation



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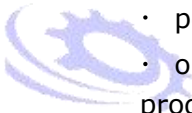
Marine and Non-Marine Cargo

Within our Cargo product group, we can provide surveys in the event of damage to a long list of cargoes, including:

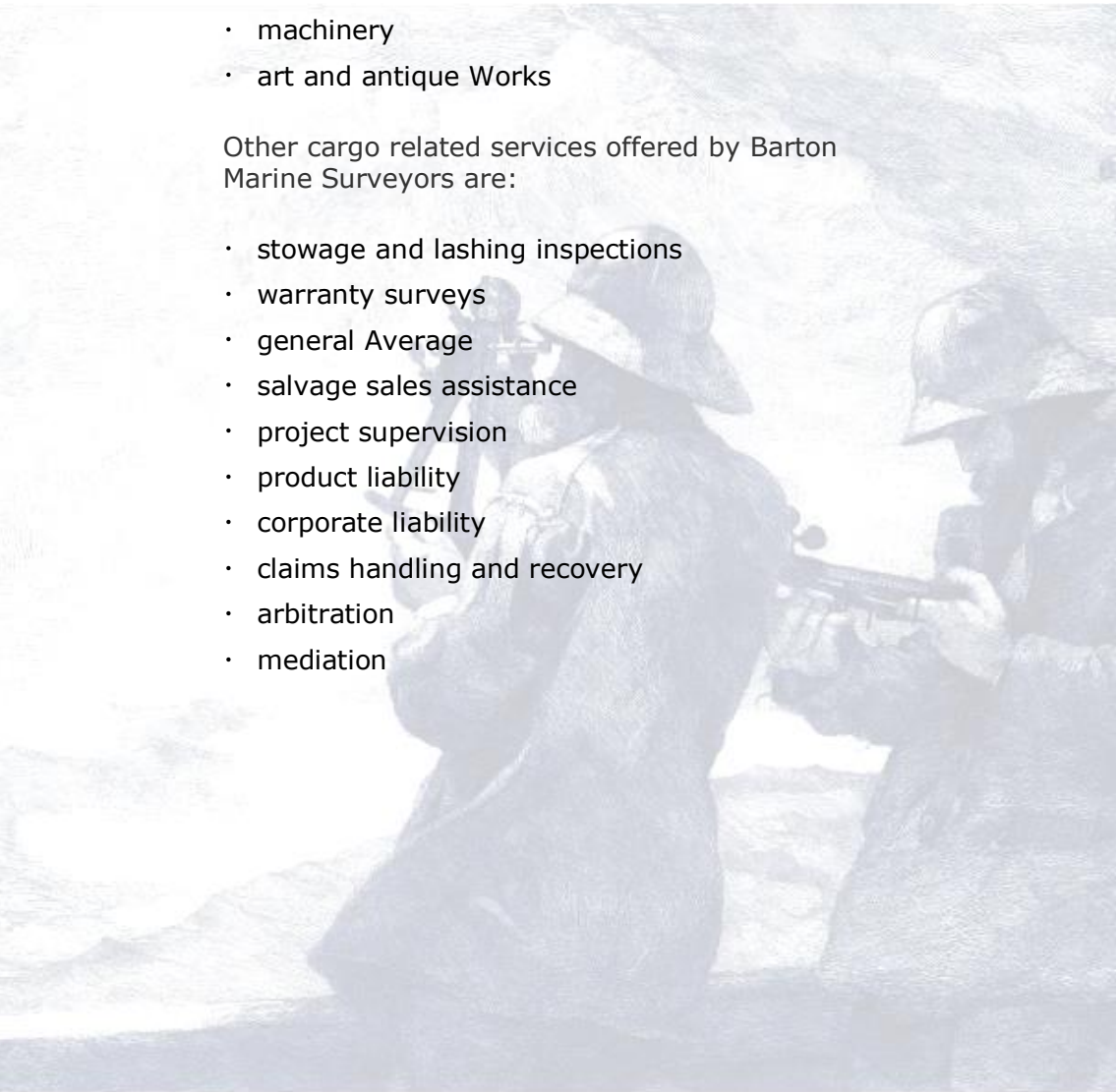
- Steel Scraps & Steel Products
- (tropical) products and spices
- perishables (fruit, vegetables, meat, fish, etc)
- oils, chemicals, chemical and pharmaceutical products
- petrochemical products
- commodities like coals, ore, concentrates, sugar, rice and grains
- flowers, plants and flower bulbs
- machinery
- art and antique Works

Other cargo related services offered by Barton Marine Surveyors are:

- stowage and lashing inspections
- warranty surveys
- general Average
- salvage sales assistance
- project supervision
- product liability
- corporate liability
- claims handling and recovery
- arbitration
- mediation



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Salvage and Wreck Removal

Within this product group the following consultancy services are offered by Barton Marine Surveyors:

Feasibility studies

Our feasibility studies provide an analysis on the technical aspects of a salvage or wreck removal project. The studies also include an overview of the supplementary conditions that may be attached to the project. In addition to the technical considerations, a salvage or wreck removal operation can be influenced by a long list of external factors, including the local political climate, government-imposed restrictions, environmental aspects, and nautical or natural circumstances.

Tenders

We handle and assess tenders on behalf of our principals. Drawing on the feasibility study and other sources of information, we draft a pre-tender document that outlines the project and the conditions and ancillary conditions that will govern the work.

Contracts

We also advise on contractual issues. We make our recommendations about the content and structure of a contract based on an assessment of the tenders and the risks attached to the project.

Project management

Professional supervision by our consultants during the project's execution is particularly important in light of the many changes that can occur at this stage. For instance, the working conditions may change, or the contractor may claim that they have changed. We organise, coordinate and supervise projects. We also consider whether any claims that may arise are valid.

Salvage remunerations

If immediate assistance is required, the level of compensation is usually agreed afterwards. This is done based on a salvage report containing the facts and details of the assistance provided. Barton Marine Surveyors' specialists are able to provide principals with an objective assessment of salvage reports and the facts on which they are based, allowing them to agree a reasonable and fair salvage remuneration.

Consultancy

Within the scope of the Consultancy product group, our company provides the following services:

Ship repair

- feasibility studies
- preparing and checking of specifications
- superintendency

Surveys

The surveys mentioned below can be tailored to fit the specific wishes of principals, usually shipowners/managers, financial institutions and underwriters

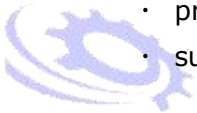
- condition surveys
- appraisal surveys
- pre-purchase surveys
- asset surveys
- technical audit surveys
- budget audit surveys
- milestone or progress surveys

Ship management and operational management

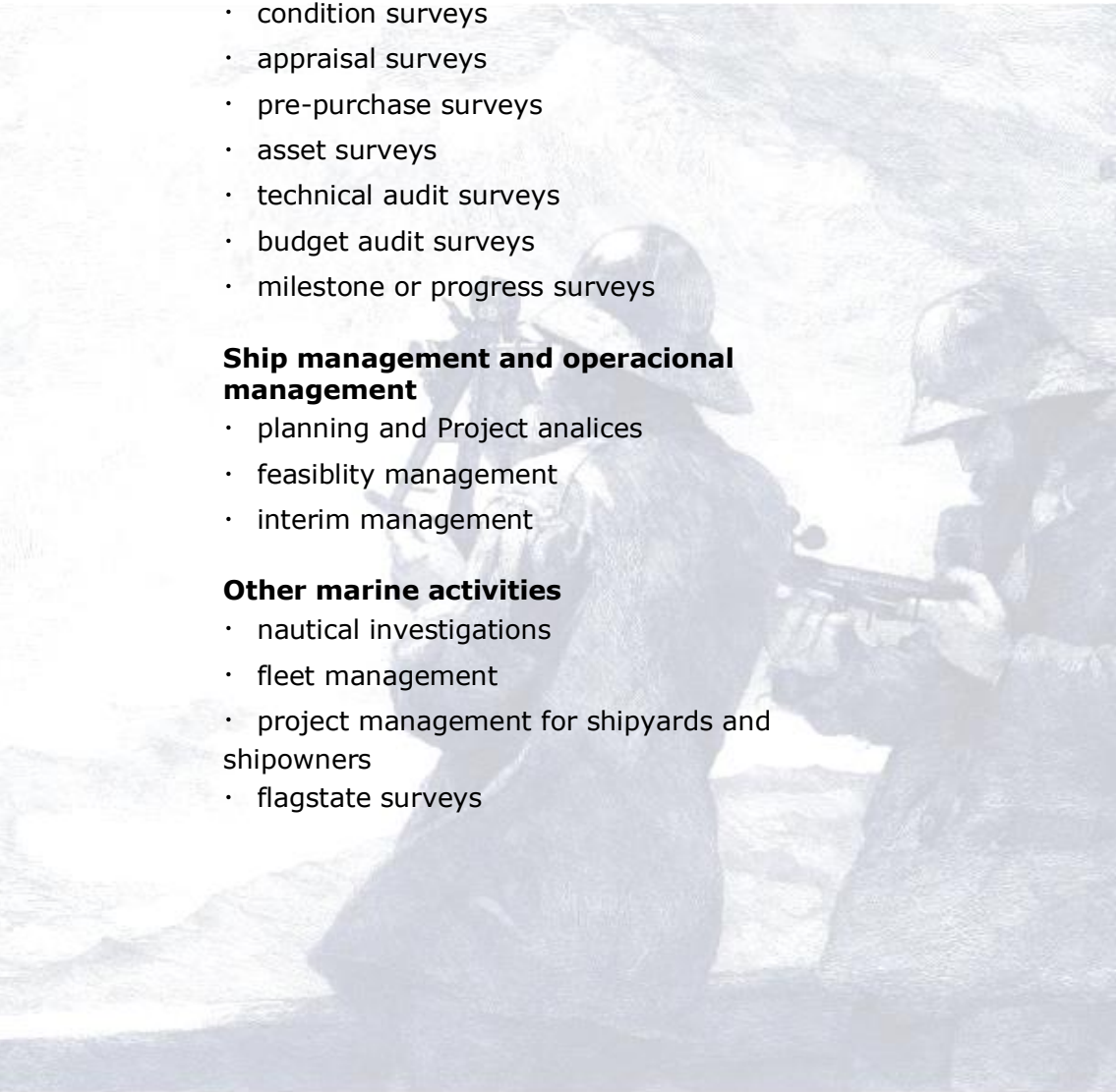
- planning and Project analices
- feasibility management
- interim management

Other marine activities

- nautical investigations
- fleet management
- project management for shipyards and shipowners
- flagstate surveys



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Risk Management

Within our product group Risk Management the work is done by a team of skilled consultants who have many years experience of shipping/engineering, transport/cargo, risk management and organisation management.

The following services are offered by our company:

Quick scans

Quick scans are general investigations that are carried out in all sectors of the maritime industry. The aim is to obtain an impression of, for instance, the condition of a ship or a piece of hardware or a cargo. Quick scans can also be used to determine the quality of the relevant personnel.

Risk analyses

Risk analyses are more in-depth versions of quick scans. They emphasise the corporate structures involved in addition to the condition of the ship hardware or cargo. This includes analysis of maintenance programmes, ship management procedures, company procedures, contacts, and terms and conditions.

Risk analyses include recommendations regarding managerial measures that need to be taken. Risk analyses provide investors and insurers with a clear picture of the risks that they are taking on. They indicate plainly to principals - generally shipowners/- managers and shipyards - how they can reduce risks or how to prepare for high-risk situations.

Implementation of risk management systems

Implementation of risk management systems is the logical next step. In this phase, a system is introduced to an organisation that allows it to handle existing risks efficiently. Moreover, a risk management system allows an organisation to identify and respond adequately to future risks.



Beaufort wind scale

No.	Knots	Mph	Description	Effects at sea	Effects on land
0	0	0	Calm	Sea like a mirror	Smoke rises vertically
1	1-3	1-3	Light air	Ripples but no foam crests	Smoke drifts in wind
2	4-6	4-7	Light breeze	Small wavelets	Leaves rustle; wind felt on face
3	7-10	8-12	Gentle breeze	Large wavelets; Crests not breaking	Small twigs in constant motion; Light flags extended
4	11-16	13-18	Moderate wind	Numerous whitecaps Waves 1-4ft high	Dust, leaves and loose paper raised. Small branches move.
5	17-21	19-24	Fresh wind	Many whitecaps, some spray; Waves 4-8 ft high	Small trees sway
6	22-27	25-31	Strong wind	Whitecaps everywhere; Larger waves 8-13 ft high	Large branches move; Difficult to use umbrellas
7	28-33	32-38	V. strong wind	White foam from waves is blown in streaks; waves 13-20ft high	Whole trees in motion
8	34-40	39-46	Gale	Edges of wave crests break into spindrift	Twigs break off trees; Difficult to walk
9	41-47	47-54	Severe gale	High waves; sea begins to roll Spray reduce visibility, 20ft waves	Chimney pots and slates removed
10	48-55	55-63	Storm	V. high waves 20-30 ft; blowing foam gives sea white appearance	Trees uprooted Structural damage
11	56-63	64-72	Severe storm	Exceptionally high waves; 30-45 ft high	Widespread damage
12	63	73	Hurricane	Air filled with foam; visibility reduced White sea; waves over 45ft high	Widespread damage; rare



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