

# Equipment for yachts

hydraulic cylinder | surface finishing | structural hydraulic engineering equipment | hydraulic components



**GILBERT & SCHMALRIEDE**

project planing



construction



components



repair and installation



# A Corporate Success Story

A brief history of the company Gilbert & Schmalriede

1982

Foundation of the company in the near of Oldenburg with specialization in hard chrome plating and grinding of hydraulic cylinder piston rods and tubes.

1989

Enlargement of the company's mechanical engineering production with focus on engineering and production of hydraulic cylinders and special-purpose machines with own pool of machinery.

1995

Introduction to the ships' equipment sector (with focus on mega yachts) with engineering and production of electro-hydraulically controlled crane systems and manned launching systems; enlargement of the engineering department.

2002

Relocation of the company to Bremen in response to the growing demand for ships' equipment thus further enlarging of the pool of machinery, production area and production range. Three additional sales engineers are hired for the emerging main fields of business, namely surface treatment, ships' equipment and hydraulic steelwork (production of hydraulic cylinders and units including control technology).



2004

The surface treatment division (which has remained in the near of Oldenburg) develops several special coating processes for which it also obtains patent protection. This division is certified with DIN EN ISO 9001:2000 in the same year.

2006

Over the years, the steadily growing number of Gilbert & Schmalriede systems installed on ships has given rise to a new field of business in the service sector for which our service technicians are deployed throughout the world.

2008

All in all, a workforce of about 100 men and women now contribute towards the company's success.



As partner for the construction of machines and systems for equipping ships and yachts, our attention focuses on the serviceability and reliability of the machines and systems.

Use of our products by leading manufacturers guarantees a long service life, fault tolerance and a worldwide spare parts service. The sales and product engineers at Gilbert & Schmalriede are competent partners available for consultation by our customers at any time.

Our company produces equipment to high quality standards using modern machinery with intensive quality inspections at the end of the production process. These inspections are documented by acceptance tests and test certificates from the following institutions:

Germanischer Lloyd, Bureau Veritas, Lloyd's Register of Shipping, Det Norske Veritas and the American Bureau of Shipping.

It goes without saying that the systems are equipped not only with the complete electrical control, but also with the hydraulic or pneumatic control and the corresponding drive systems.

The systems are delivered free on site, assembled on site and commissioned by our technicians and engineers.

The operators are subsequently introduced to operation of the system by our project engineers and are shown exactly how to control the various processes.

Our primary objective is to develop and build an ideal product for our customers which also meets with the regulations of the relevant official acceptance agencies.

That means: cost-efficient designs and components which are easy for our customers to install, as well as durability and reliability for the equipment.

Gilbert & Schmalriede supplies equipment for yachts, merchant vessels, cruise ships and naval vessels.

We can provide you with complete systems including their assembly and installation on board, i.e. responsibility for the complete system and interface monitoring.

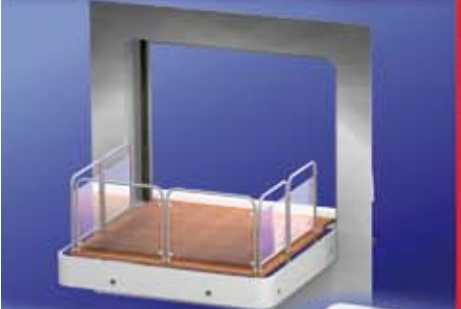
In addition, we also undertake complete overhauls and conversions of both our own systems and those built by other manufacturers and also offer continuous maintenance of the systems which we have delivered. Our service team is at your disposal at all times.

Most equipments contain technology with complex functions and need an experienced firm with in-house production in order to meet all requirements.

Gilbert & Schmalriede has both the experience and the capacity needed not only to build prototypes, but also for series production of complex equipment.

After production, our systems are subjected to stringent in-house testing in order to guarantee the warranted functionality and quality.

# Engineering



Our engineering department develops and designs special solutions for plants, ships and yachts. Our engineers' multi-disciplinary know-how is applied in all our departments. We use 3D CAD systems and simulation programs to obtain complex motion sequences and a realistic, photographic presentation. FEM-assisted structural analysis rounds off the development work.

Each design will be approved by the appropriate classification society and will be delivered after the manufacturing process with a substantial documentation which contains all necessary information regarding the mechanical, hydraulical and electrical components as well as the handling of the system.

Whenever technical issues have to be clarified, our customers know that they can always rely on our assistance: quickly, efficiently and without formalities.

Our service continues from project handling through construction supervision to commissioning.





Our repair and installation service includes complete overhauls of both our own systems and thirdparty systems. In addition, we also offer continual servicing of our delivered systems. Upon completion of the work, the operating personnel will be instructed with regard to operation of the systems and introduced to all operating processes by our project engineers.

Our service team is at your disposal worldwide and at any time.

### After Sales Service

Our After Sales Service includes both the provision of wear parts and support for our customers whenever questions arise with regard to maintenance work or handling techniques.

Our service:

- Rapid availability of spare parts
- Availability of electronic data for all components
- Technical installation instructions for fitting spare parts
- Provision of service technicians for maintenance and repair work
- Crew training when changing personnel

# Components



## Crane systems

We will assist you with competent advice, engineering, production and installation of the type of crane you require, developed and built in accordance with the guidelines of the applicable classification society. Our cranes are made of stainless special steel, aluminium or galvanized steel. Supplementary equipment and attachments, such as hydraulic cylinders, lines and screw couplings, are made from equivalent materials. The ring gear of 42Cr-Mo4V with double lip sealing rounds off the product. Illumination, remote control, proportional-action control, manual operation and „stored power“ can be optionally supplied on request.

## Davit systems

Single and double davit systems are available, optionally with integrated traveller or telescoping steps. These components can be equipped with up to four mounting points and all limit positions are monitored electronically. Each of our systems includes automatic sea lashing and a mechanical limit stopper; all ropes are reeled and unreel with forced feed. Stainless special steel, aluminium and galvanized steel can be selected as the product material. These systems can be operated all-hydraulically or all-electrically. Bearing points are maintenance-free. Our davit systems are approved for manned launching or alternatively as rescue davits. Illumination, radio remote control, proportional-action control, manual operation and „stored power“ can be optionally supplied on request.

## Platforms and doors

We build and design platforms and doors to your specifications. Our range extends from ship-side doors through tender doors to complex bathing platforms. They are all developed and built in accordance with the guidelines of the applicable classification society. The systems are supplied and installed with the corresponding electrical and hydraulic controls as required.

Stainless special steel, aluminium and galvanized steel can be selected as the product material. Bearing points are maintenance-free.

## Side and stern gangways

Our range extends from one-part and multi-part stern-mounted gangway systems with self-adjusting steps to side-mounted gangway systems with bulwark modules. We build side and stern gangways of aluminium or stainless special steel with complete automatic operation to your individual specifications. Supplementary equipment and attachments, such as hydraulic cylinders, connections and screw couplings, are made of stainless steel. Bearing points are maintenance-free. Illumination, radio remote control and communication connections can be optionally supplied on request.

## Telescope masts

We can provide you with different types of masts out of stainless steel or carbon fibre. The range extends from foldable types up to three part telescope masts with internal double stroke telescope cylinders and spring acting cable drums.

## Special systems

Our special systems sector takes up every challenge presented by our customers. Our strength lies in the extensive know-how and experience of our project and engineering department. Individual system solutions are developed in close consultation and cooperation with our customers.

Systems which we have already realized include swimming ladders, telescopic masts, awnings, launching systems, lifting systems, hawse flaps, miscellaneous special developments for yachts, cruise ships and naval systems, as well as others.

## Control systems

All our systems are equipped with both the complete electrical control and hydraulic or pneumatic control, as well as the corresponding drives.

Our customers profit from our in-house development department which builds control systems of every type.

We supply complete customized solutions, from the initial design to final installation, for both our own systems and third-party systems.





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