

## About SEC



SEC is considered to be today's leading manufacturer of container lashing equipment. The basis of this leading position is the perfect combination of in house design and engineering facilities. This combined with unique know-how of manufacturing and services has made SEC a first class partner for yards and owners. SEC can be a partner from the very start of a container vessel construction project. In addition to the delivery of hardware, a wide variety of services can be offered to help the ship owner find a safe and cost efficient solution. Whether approached by shipyards or owners, SEC is able to create concepts and turnkey solutions from the beginning. The SEC way of thinking is to build the ship around the cargo. In order to be really prepared for our client's demands SEC keeps its design team for securing systems equipped with all necessary facilities. This means, for example, development of our own lashing calculation software, Finite Element Method (FEM) calculation workstations and, of course, the latest 3D technology in order to meet the highest standards of today's shipbuilding and shipping. The result of such technical services is the range of products that SEC keeps available through its world wide network of stockist.

Having the vessel equipped by SEC means a full range of high quality gear according to latest IMO and classification rules. All equipment is tested and certified by any kind of institution or classification society involved. Since the SEC office for securing systems is located in Bremen, Germany, SEC is working within an infrastructure where the cargo securing technology has quite a history. The team of SEC Securing Systems in Bremen offers decades of experience, even though the present method of

container lashing itself has been for about 25 years. Being and remaining at the top requires a few rules which make all the difference in comparison to trade houses and distributors of lashing gear. SEC develops the products in house.

Accordingly, the full range of fittings is made by SEC itself. Whether SEC supplies out of New York, Singapore, Shanghai or Europe, each fitting is an original SEC-item. All raw materials used for the SEC lashing equipment are purchased from class registered production facilities. If requested, SEC is able to prove the origin of each element of the product range. The latest IMO-regulations recommend attention to proper documentation of the cargo securing equipment. SEC can provide original certificates, test reports and even material analysis reports.

SEC much appreciates the latest approach of the IMO towards greater safety and transparency regarding container securing material. Too many accidents have happened as consequence of improper and substandard equipment. This manual will give an impression of the standards which SEC provides but it is almost impossible to refer to all kinds of fittings which SEC has made or which SEC will create.

Therefore this manual focuses on the basis of all SEC products. SEC would like to draw attention to the fact that all kinds of custom-made solutions are possible.