

# Specialized Visit to the Busiest Europe Ports

March 2<sup>nd</sup> – 8<sup>th</sup>, 2020

 **Port of Amsterdam**

 **Port of Rotterdam**



 **Port of Hamburg**

 **Port of Antwerp**

 **ILS** INTERNATIONAL<sup>®</sup>  
LASHING SYSTEMS



- Technology Units Incubator, Shahid Beheshti University
- Daneshjoo St., Velenjak., Tehran, Iran .
- Post Code : 1983963113
- Reg. Code. : 4 6 2 0 0 0
- National code: 14004474063
- Tel : +98 (21)22 41 94 45
- Fax: +98 (21)22 40 24 93
- E mail : info@pezhvac.com



**پژواک**  
پژوهش ایده کاوش (سهامی خاص)  
Research & Innovation Co.






To accomplish the defined goals of Pezhvac Research and Innovation company, for familiarizing managers of the private and governmental sector with the port and transshipment management systems and processes, cranes and hoist systems, and containers transportation in Europe applied to maximize transshipment efficiency, accelerate cargos' safety and security and minimize time-waste, some specialized to the busiest Europe ports including Antwerp port, Amsterdam port, Rotterdam port, Bremerhaven port, port of Hamburg, and a long-standing international lashing systems supplier in three countries of Belgium, the Netherlands, and Germany have been arranged during March 2<sup>nd</sup> - 8<sup>th</sup>, 2020. Over this technical journey, a group of 23 CEOs, directing board members, and top-executives of Iran's shipping companies has participated during the mentioned span.





<p><b>Port</b></p>	<p><b>Port of Antwerp</b></p>	
<p><b>Location</b></p>	<p><b>Antwerp, Belgium</b></p>	
<p><b>About the Port</b></p>	<p>Being owned and operated by the port authority, the port of Antwerp is the major gateway to Europe. It is well accessible through a multimodal transportation network consisting of road, barge, rail, pipelines and short sea. The strategic location of Antwerp Port connects other major European ports and it continuously builds up its international relations and networks to strengthen its position as an international port.</p> <p>The major functions of the port include loading and unloading, the storage of goods, repacking and distribution of freight. Considering freight volumes, it is the second-largest port in Europe. Antwerp is the lead breakbulk port in Europe and is also a base for more than 200 forwarding companies. It handles a range of breakbulk cargoes, including steel, coal, iron ore, non-ferrous concentrates, cement, minerals, and fertilizers, forest products, fruit and perishable goods, ro/ro and project cargo.</p> <p>Other services offered include storage and logistics, towage, pilotage, mooring, and unmooring services. This port enjoys 1,474 tanks with a storage capacity of 3.6 million m<sup>3</sup> of liquid bulk cargo. The container traffic is managed at exclusive container terminals. It also has extensive terminals for the loading and unloading of cars and trucks.</p> <p>Repackaging, labeling and quality control are the value-added services provided by Antwerp port.</p>	





### Visit to Antwerp port harbors and terminals

■ Technology Units Incubator, Shahid Beheshti University,  
Daneshjoo St., Velenjak., Tehran, Iran.  
■ Post Code: 1983963113  
■ Reg. Code.: 462000      ■ National code: 14004474063  
■ Tel: +98(21)22419445      ■ Fax: +98(21)22402493  
■ Web Site: [www.pezhvac.com](http://www.pezhvac.com)  
■ E-mail: [info@pezhvac.com](mailto:info@pezhvac.com)

■ تهران، ولنجک، بلوار دانشجو، دانشگاه شهید بهشتی، مرکز رشد واحدهای فناوری  
■ کد پستی: ۱۹۸۳۹۶۳۱۱۳  
■ شماره ثبت: ۴۶۲۰۰۰      ■ شناسه ملی: ۱۴۰۰۴۴۷۴۰۶۳  
■ تلفن: ۰۲۱-۲۲۴۱۹۴۴۵      ■ فاکس: ۰۲۱-۲۲۴۰۲۴۹۳  
■ پایگاه الکترونیک: [www.pezhvac.com](http://www.pezhvac.com)  
■ پست الکترونیک: [info@pezhvac.com](mailto:info@pezhvac.com)



<p><b>Company</b></p>	<p><b>International Lashing Systems Co.</b></p>	
<p><b>Place</b></p>	<p><b>Antwerp, Belgium</b></p>	
<p><b>Visit Location</b></p>	<p><b>Cargo safety and lashing equipment warehouse of ILS Co.</b></p>	
<p><b>Field of Activity</b></p>	<p>International Lashing Systems company is established in 1947 and evolved as a world player specialized in cargo securing technology. ILS products fall under the following major categories:</p> <ul style="list-style-type: none"> <li>• Container accessories</li> <li>• Cornercastings</li> <li>• Decksockets and D-rings</li> <li>• Elephant foot sockets and carlashing sockets</li> <li>• Lashing bars and turnbuckles</li> <li>• Lashing chains, chainturnbuckles, and tension levers</li> <li>• Stacking cones and twistlocks</li> <li>• Supports and bridgfitings</li> <li>• weblashings, trailerhorses and chocks</li> </ul> <p>ILS motto finely illustrates its ambition that is providing trustworthy, cost-effective, and time-efficient securing services and lashing equipment. It ensures plain sailing for the container, multipurpose and roro-ships hitting the waters. With decades of experience in the design and manufacturing of lashing products, ILS has become recognized as a professional in the marine and offshore industry as well as a world-class supplier of lashing materials in 2017.</p> <p>ILS experienced experts also provide a large number of ship owners, shipyards, and design companies with advisory services.</p>	










### Visit to ILS Co. securing technology and lashing equipment

■ Technology Units Incubator, Shahid Beheshti University,  
Daneshjoo St., Velenjak., Tehran, Iran.  
■ Post Code: 1983963113  
■ Reg. Code: 462000      ■ National code: 14004474063  
■ Tel: +98(21)22419445      ■ Fax: +98(21)22402493  
■ Web Site: [www.pezhvac.com](http://www.pezhvac.com)  
■ E-mail: [info@pezhvac.com](mailto:info@pezhvac.com)

■ تهران، ولنجک، بلوار دانشجو، دانشگاه شهید بهشتی، مرکز رشد واحدهای فناوری  
■ کد پستی: ۱۹۸۳۹۶۳۱۱۳  
■ شماره ثبت: ۴۶۲۰۰۰      ■ شناسه ملی: ۱۴۰۰۴۴۷۴۰۶۳  
■ تلفن: ۰۲۱-۲۲۴۱۹۴۴۵      ■ فاکس: ۰۲۱-۲۲۴۰۲۴۹۳  
■ پایگاه الکترونیک: [www.pezhvac.com](http://www.pezhvac.com)  
■ پست الکترونیک: [info@pezhvac.com](mailto:info@pezhvac.com)



<p><b>Port</b></p>	<p><b>Port of Rotterdam</b></p>	
<p><b>Location</b></p>	<p>Rotterdam, the Netherlands</p>	
<p><b>About the Port</b></p>	<p>The Port of Rotterdam is one of the oldest, largest, and strategically important distribution seaports in Europe for being surrounded by Europe's highly-populated and industrialized centers. From 1962 to 1986 it was the world's busiest port. It occupies 10,500ha with industrial sites covering an area of 5,300ha, and infrastructure and water surface covering the remaining area. The port includes 122 jetties and 23 berths, and has 6 pilot boats and 29 tug boats. There are over 90 terminals, 35 reserved for liquid bulk cargoes, 15 for dry bulk cargo and 17 for multi-purpose use.</p> <p>The port has 9 container terminals to handle short-sea, deep-sea and inland shipping. Other terminals at the port include 7 roll-on/roll-off, 3 juice, 2 fruit terminals, and 1 each for steel and paper, cars, and cruise vessels. It has the tank storage capacity of over 30 million m<sup>3</sup>, the crude oil storage capacity of 12 million m<sup>3</sup>, and mineral oil products storage capacity of 6.7 million m<sup>3</sup>. Cargo-handling equipment at the Port of Rotterdam includes 10 sheer leg cranes, 12 container cranes, 22 ship-to-shore bulk cranes, 25 floating cranes, 103 container gantry cranes, and 162 multi-purpose cranes. The port has 3 shipyards. There are 5 graving, 1 graving and covered, and 7 floating docks. A slipway maintains inland vessels.</p> <p>Rotterdam port and industrial area are managed and operated by the Port of Rotterdam Authority (PoRA). PoRA is responsible for handling shipping traffic, and developing public infrastructure, existing port areas and new port sites. Its major target is to strengthen the competitive position of the port in terms of size and quality.</p>	






### Visit to Rotterdam port container cranes, berths, and terminals

- Technology Units Incubator, Shahid Beheshti University, Daneshjoo St., Velenjak., Tehran, Iran.
- Post Code: 1983963113
- Reg. Code.: 462000      ■ National code: 14004474063
- Tel: +98(21)22419445      ■ Fax: +98(21)22402493
- Web Site: [www.pezhvac.com](http://www.pezhvac.com)
- E-mail: [info@pezhvac.com](mailto:info@pezhvac.com)

- تهران، ولنجک، بلوار دانشجو، دانشگاه شهید بهشتی، مرکز رشد واحدهای فناوری
- کد پستی: ۱۹۸۳۹۶۳۱۱۳
- شماره ثبت: ۴۶۲۰۰۰      ■ شناسه ملی: ۱۴۰۰۴۴۷۴۰۶۳
- تلفن: ۰۲۱-۲۲۴۱۹۴۴۵      ■ فاکس: ۰۲۱-۲۲۴۰۲۴۹۳
- پایگاه الکترونیک: [www.pezhvac.com](http://www.pezhvac.com)
- پست الکترونیک: [info@pezhvac.com](mailto:info@pezhvac.com)



<b>Port</b>	<b>Port of Amsterdam</b>	 <b>Port of Amsterdam</b>
<b>Location</b>	<b>Amsterdam, The Netherlands</b>	
<b>About the Port</b>	<p>The Port of Amsterdam comprises 680ha of water surface and 1,960ha of land area that consists of port sites, quaysides, roads, railways, and dikes. Of the total land area, 310ha is allocated for infrastructure, 1,305ha is issued for business sites and 345ha is available for rent or lease.</p> <p>The port of Amsterdam is served by three types of terminals for breakbulk, containers, and energy. This multifunctional port is capable of handling, storing, and shipping cargoes ranging from cocoa beans to coal, and from paper to oil. The port is the major center for culture and finance and the second largest one in terms of transshipment in The Netherlands. Moreover, it is the fourth port among European ones and very popular with international businesses, attracting about 20% of all investments made in Europe by Japan and the United States.</p> <p>The Amsterdam port authority, as part of the local government, is responsible for the operation, management, and development of the whole port area. The port authority has taken various environmental measures to improve the natural environment in the port area. The Port of Amsterdam, in cooperation with Municipality of Zaanstad and Amsterdam's Department of the Environment and Buildings Inspectorate, has initiated a project called Afval = Grondstof (Waste = Raw Material). The basic principle of this project is that residue flows and waste material produced by one company might become a source of raw material or source of energy for another company. The port provides project management, subsidy applications, and location to those companies which want to exchange residue flows.</p>	






### Visit to Amsterdam port shipyard and terminals

■ Technology Units Incubator, Shahid Beheshti University,  
Daneshjoo St., Velenjak., Tehran, Iran.  
■ Post Code: 1983963113  
■ Reg. Code.:462000 ■ National code:14004474063  
■ Tel: +98(21)22419445 ■ Fax: +98(21)22402493  
■ Web Site: www. pezhvac.com  
■ E-mail: info@pezhvac.com

■ تهران، ولنجک، بلوار دانشجو، دانشگاه شهید بهشتی، مرکز رشد واحدهای فناوری  
■ کد پستی: ۱۹۸۳۹۶۳۱۱۳  
■ شماره ثبت: ۴۶۲۰۰۰ ■ شناسه ملی: ۱۴۰۰۴۴۷۴۰۶۳  
■ تلفن: ۰۲۱-۲۲۴۱۹۴۴۵ ■ فاکس: ۰۲۱-۲۲۴۰۲۴۹۳  
■ پایگاه الکترونیک: www. pezhvac.com  
■ پست الکترونیک: info@pezhvac.com




<b>Port</b>	<b>Port of Bremerhaven</b>	
<b>Location</b>	<b>Bremen, Germany</b>	
<b>About the Port</b>	<p>The Port of Bremerhaven was founded as a shelter for the city's merchant marine, and it became Bremen's second port, the fourth-biggest container port in Europe, and the world's sixteenth largest container port. Main port activities are the handling of containers, automobiles, fruit, dry bulk cargo and passengers. In 1957, it began to handle roll-on/roll-off cargoes. Construction for a riverside quay and container terminal began in 1968. The new quay and terminal opened for business in 1971. The decade of the 1970s saw several new facilities in the Port of Bremerhaven that would support the growing cargo volume. These included a new container terminal with a thousand-meter riverside quay, a new roll-on/roll-off facility at Europahafen, a general cargo terminal, an Auto Terminal at Kaiserhafen, and expansion of the existing Bremerhaven container terminal. Port of Bremerhaven's growth continued in the 1980s and 1990s. The Speckenbutteln foreign trade center was opened in 1981. The grain facility was expanded and modernized. In 1983, an extension was added to the container terminal that made it the largest closed container-handling facility on the continent. In 1994, construction began on a third container terminal with two berths for large container ships and a 700-meter long quay. The facility was inaugurated in 1997. In 1998, a new industrial park was created near the Port of Bremerhaven. Thus far, the Port of Bremerhaven has seen many changes in the 21st Century. In 2000, the free port status was revoked. In 2003, the third container terminal was opened, bringing the total riverside quay length to 3.2 thousand meters. In 2004, the first pile was driven for the fourth container terminal to accommodate the world's biggest container ships. This effort is the most ambitious construction project ever undertaken by the Port of Bremerhaven, and it represents the biggest investment project on Germany's coast. Currently, more cars move through the Port of Bremerhaven than any other European city but Rotterdam. In 2005, construction began on the Osthafen expansions to provide urgently-needed space for handling of automobiles in the Port of Bremerhaven. The new facilities occupy an area of 6.1 hectares and have three berths for deep-sea carriers up to 270 meters long.</p>	





Visit to quay and terminals of Port of Bremerhaven



<p><b>Port</b></p>	<p><b>Port of Hamburg</b></p>	
<p><b>Location</b></p>	<p><b>Hamburg, Germany</b></p>	
<p><b>About the Port</b></p>	<p>The Port of Hamburg, located between the North Sea and the Baltic Sea, is the most important component of Hamburg's economy that many consulates affirm its importance to international trade as well. Heavy industries in the Port of Hamburg include several shipyards and manufacturers of steel, aluminum, and copper. Hamburg is the third-largest container port in Europe and in the 17th place on the list of the world's largest container ports.</p> <p>136.6 million tons of cargo crossed the quay walls of Germany's largest seaport in 2019 that included around 9.3 million standard containers (TEU). Container Terminal Burchardkai (CTB) is the oldest and largest terminal for container handling, turning almost every third box in the port. Container Terminal Altenwerder (CTA) is an impressive example of fully automated logistics in which driverless, automated guided transport platforms (AGV) driving containers between the stacking blocks and the waterfront are observable. The multipurpose terminal O'Swaldkai turns every year over 500.000 tons of tropical fruit as well as wheeled cargo and Out-of-gauge-cargo. Hansaport is Germany's largest seaport-terminal for bulk cargo, handling ore and coal. Unspectacular from outside but sheer high-tech from inside.</p> <p>Around 8,000 ship calls per year, almost 300 berths and a total of 43 kilometers of quay for seagoing vessels, more than 2,300 freight trains per week, four state-of-the-art container terminals, three cruise terminals, and around 50 facilities specialized in handling ro-ro and breakbulk and all kinds of bulk cargoes, along with about 7,300 logistics companies within the city limits are the noteworthy factors making the Port of Hamburg to one of the world's most flexible, high-performance universal ports.</p>	





### Visit to harbors and terminals of Port of Hamburg