



TURKEY'S
TOP 500 INDUSTRIAL
ENTERPRISES
2019

03 Export Leader

Tersan Shipyard is in Turkey's top 500 companies



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The Coastal Passenger Vessels, named after the bright stars, Havila Castor and Havila Capella which have been constructed on the horizontal production line were launched with an extraordinary, yet

successful operation that lasted around 6 days. A new transportation system called self-propelled modular transportation (SPMT) has been applied for the launching.

Considering each vessel's tonnage (6500 tons per each) and length (124 meters each), a long period of static and engineering calculations have been made prior to the start of the operation.



Tersan Shipyard

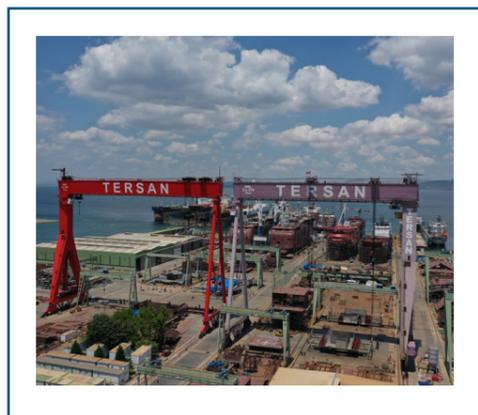
Dear Reader;

Welcome to the third issue of our newsletter. New things are happening at **Tersan Shipyard** all the time. We are constantly driving forward innovations, developing **new business opportunities** and keep going on building precious ships. This is why we publish Tersan Shipyard Quarterly Newsletter so that you can catch up with the **latest news**.

It's always well worth to read – and is infact just one **click away** as **Tersan Quarterly Newsletter** always appears online at the same time our printed issue is published.

Enjoy Reading!

Business Development and Marketing Department



Tersan Shipyard is in Turkey's top 500 companies

Turkey shipped USD **171.1** billion worth of goods around the globe in **2019**. This amount reflects an **18.9%** increase since 2015 and a modest **1.9%** gain from 2018 to 2019.

The results of 2019 export champion researches among Turkish companies were announced with record-breaking exports. TIM (Turkish Exporter's Assembly) has announced the sector **export leaders of 2019** demonstrating that Turkey's exports are spread throughout country's **50** provinces. Tersan Shipyard was **awarded** as the ship and yacht building sector **export leader of Turkey** for the **seventh** time in a row as per **TIM's** report.



Istanbul Chamber of Commerce (**ISO**) which is an institution that organizes and records the commercial transactions of both individuals and commercial institutions, has also released **Turkey's Top 500 Industrial Enterprises 2019 Survey (ISO 500)**. Tersan Shipyard has been in this **ISO 500 list for 7 years** and moved up to the **240th** spot compared to **272th** in 2019.

Many other researches and surveys regarding the biggest companies of Turkey like **Fortune 500** are made as well. Fortune 500 of which the **13th** edition was released this year, covers the energy, manufacturing, commerce, services and construction sectors. This year Tersan Shipyard has moved up to the **326th** spot compared to **355th** last year.

Economy magazine, Capital, is also making a similar survey among the largest private sector companies and accordingly a Capital 500 list is announced every year. Tersan Shipyard was **announced** also in **Capital's top 500 company of Turkey list 2019**.

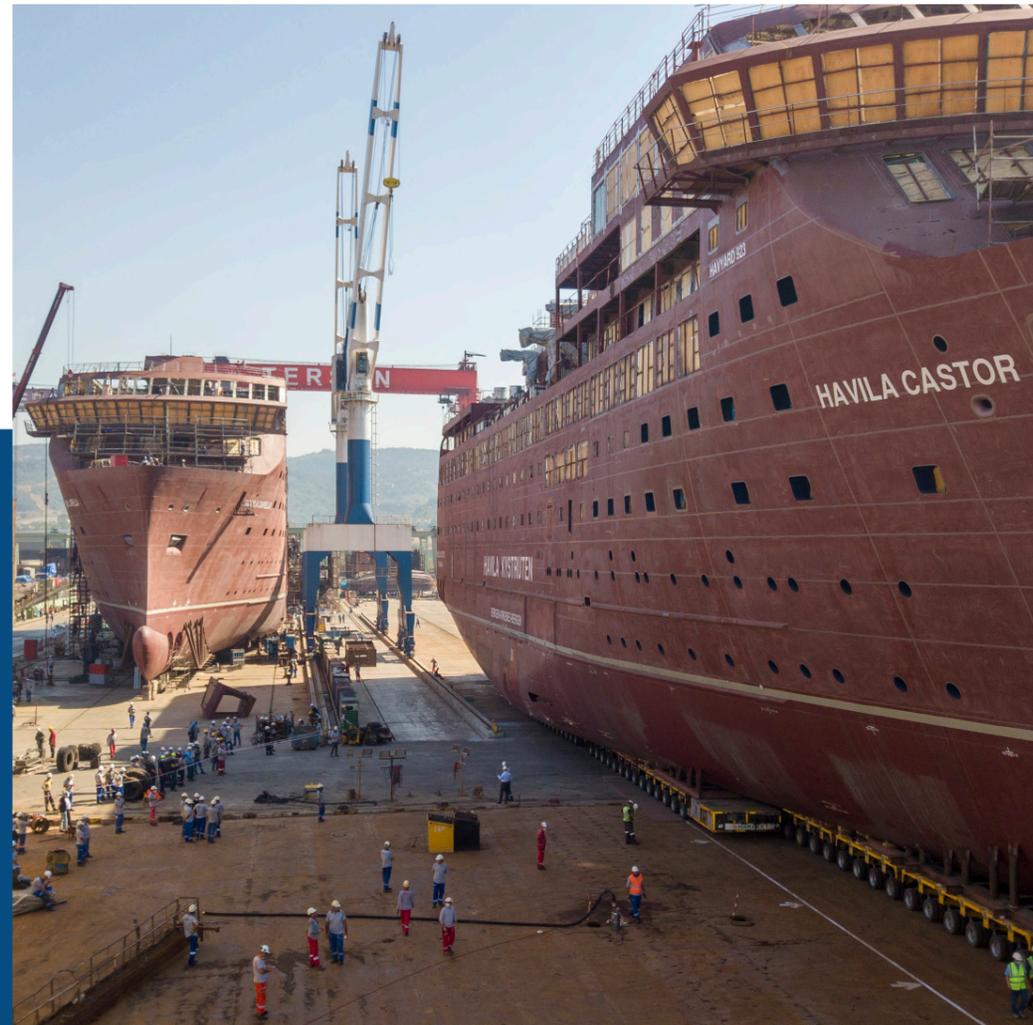
Thanks to **Tersan team** who made all these successes possible. They never do just a good job, they can do a great one!

Launching: The Stars' Move

NB1093 and **NB1094**; the Coastal Passenger Vessels, named after the bright stars, **Havila Castor** and **Havila Capella** which have been constructed on the horizontal production line were launched with an extraordinary, yet successful operation that lasted around **6** days.



A new transportation system called self-propelled modular transportation (**SPMT**) has been applied for the launching. Considering each vessel's tonnage (**6500** tons per each) and length (**124** meters each), a long period of static and engineering calculations have been made prior to the start of the operation. **1600** wheels with **200** axles gathered under each vessel and transferred them respectively into Tersan's own floating dock. Once the vessels were secured in their locations on the floating dock, the dock tugged away from the shipyard and submerged to finally let the vessels float on the sea.



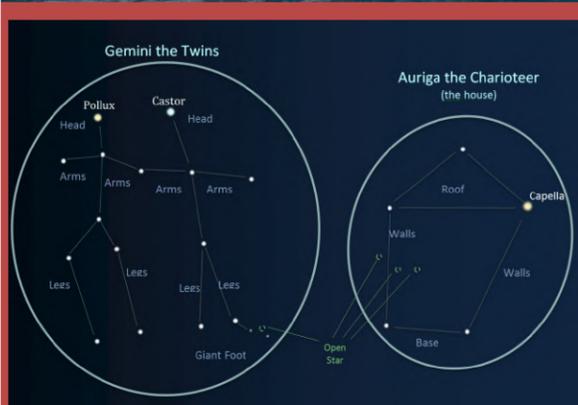
Thanks to all Tersan Teams

The completion works like the installation of piping, cabling, ventilation, execution of accommodation systems, installation and testing of all electronic systems and start up and testing of all machinery and components will be held while the vessels are at the berth until the delivery; planned for the beginning of **2021**.

The third and fourth sister vessels, **Havila Pollux** and **Havila Polaris** are also under construction in **our Shipyard**. It is now time for their blocks to be erected on horizontal area where the first two vessels have been launched from and to see them grow up day by day. **Thanks to all Tersan teams** for their high efforts to realize such kind of a **unique launching**. It was a great excitement for everyone to see ships moving on land.



Knowledge Pills: The Stars Castor and Capella



Capella is the brightest star in the constellation of **Auriga**, the sixth-brightest star in the night sky, and the third-brightest in the northern celestial hemisphere after **Arcturus** and **Vega**. A prominent object in the northern winter sky, it is circumpolar to observers north of **44°N**. Its name means “**little goat**” in Latin. **Capella** is relatively close, at **42.9** light-years (13.2 pc) from the Sun.

Although it appears to be a single star to the naked eye, **Capella** is actually a quadruple star system organized in two binary pairs, made up of the stars **Capella Aa**, **Capella Ab**, **Capella H**, and **Capella L**.

Castor is the second-brightest star in the **Gemini** constellation and one of the brightest stars in the night sky. It appears singular to the naked eye, but it is actually a sextuple star system organized into three binary pairs, made up of the stars **Castor Aa**, **Castor Ab**, **Castor Ba**, **Castor Bb**, **Castor Ca**, and **Castor Cb**. Although it is the ‘**α**’ (alpha) member of the constellation, it is fainter than ‘**β**’ (beta) Geminorum, Pollux.

“ Quarterly Z report: Three New Arctic Freezer Stern Trawlers ”

Tersan Shipyard has been awarded with three (3) new projects between the end of **2nd quarter** and the **3rd quarter of 2020**. These new and innovative vessels shall be specially developed for sustainable fishing operations in **Arctic Seas**. They will be outfitted with technologically-sophisticated and advanced fish processing systems onboard and will be equipped with latest technologies. Let’s have a quick look at each of them.



NB1102 – An **85 meters** long Arctic Freezer Stern Trawler for an undisclosed reputable fishing company from **Faroe Islands**. The vessel will be an advanced, technologically sophisticated factory trawler capable for triple trawling. She will be outfitted with a shrimp factory, an advanced fillet factory and a fishmeal and fish oil plant. In addition there will be arrangement for freezing of pelagic species onboard the vessel.

The **Skipsteknisk** designed vessel will have accommodation area for **43** people on board and is planned to be delivered towards end of **2022**.

NB1105 – The other Arctic Freezer Stern Trawler will be built for **P/F HAVBORG** again from **Faroe Islands**. **87,40** meters long and **18 meters** wide fishing vessel will be also an advanced factory trawler arranged for triple trawling with four winches and prepared for a fifth winch to be added if required.

She will be laid-out with a fillet production factory deck, a shrimp processing line and a fishmeal and fish oil plant providing huge capacity for handling pelagic species. Fish room capacity will be **2250** cubic meters, giving it a **1000** tons capacity.

The **Skipsteknisk**, designed vessel will have accommodation for **40 people** on board and will be capable for efficiently trawling in icy and arctic waters. The delivery is planned for **the end of 2022**.

NB1107 - The last contract of the 3rd Quarter is also an Arctic Freezer Trawler. The Owner is Ocean Prawns A/S from Denmark. This trawler is the third project that Tersan Shipyard has signed within the last 2 months. **82,30** meters long and **18,00** meters wide factory trawler is planned to have a shrimp plant and a turbot production factory while she will also have **1200** tons fish room capacity. The vessel, designed by Skipsteknisk, will have accommodation for **35** people on board with spacious and comfortable living places. We wish success to Tersan team for the building process of these 3 magnificent trawlers!



More Launchings

Tersan Shipyard has launched **2 more vessels** during the third quarter. These two vessels were constructed on the slipway and were launched via traditional sliding method. The vessels were launched with a week break.

The first launched vessel was **NB1095**; a Reefer and **General Cargo Vessel** under construction for Egil Ulvan Rederi AS, Norway. She has overall length of **86m** and a width of **20m**. The maximum deadweight tonnage will be approximately **3,500 tons**. She is designed for flexible and combined transportation

of general cargo, refrigerated goods and container cargo. An unloading system will be installed for the supply of fish feed to salmon farms along the **Norwegian coast**. The vessel is operating with a **LNG** engine and batteries. She is capable of charging the batteries both with shaft

generator and diesel generators. To be named as **Oddrun With**, the vessel is also incorporated with regeneration technology which provides the storage of the inverted energy generated from cranes and winches during the unloading and direct this **converted energy** to the batteries on the vessel.



She has the capability to charge the batteries while she is berthed. Besides; the vessel can cool her refrigerated cargo holds down to **-27 C** with the minus temperature obtained while natural gas converts from liquid to gas form. She **deserves** to be referred as the first vessel with such kind of innovative and new technologies to transport the **frozen goods**.

“ such kind of innovative and new technologies

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NB1089 named after Harald Martin

Following **NB1095**, the second vessel launched was **NB1089**, named after **Harald Martin**, built for the **Owner Nordlaks**. The LNG Hybrid Live fish carrier is the second of the series and one of the biggest live fish carrier that Tersan Shipyard has built so far. The **84 meters** long and **19 meters** wide vessel is also unique with her propulsion system among her technologically advanced fish handling systems. With her two deck tanks and four pieces of fuel conditioning systems,

Harald Martin is a significant and fully redundant **LNG** powered vessel thanks to its very innovative design. Designed by **NSK Ship Design** and built under supervision of DNVGL, this live fish carrier will be one of the most efficient and most advanced vessels of its type. The first vessel of the series, **NB1088 Bjorg Pauline** under construction at Tersan Shipyard is planned to be delivered in 2020 and Harald Martin to be delivered **within the first half of 2021**.

These ceremonies were also broadcasted live from Tersan Shipyard Youtube Channel and many people had the chance to watch the vessels gliding down from the slipway.

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www.photomaron.com

ARTS & CULTURE

“Photomaron İstanbul”

Photomaron is a photography competition in which participants must take a series of photographs on predetermined subjects in a set period of time, typically **12 to 24** hours. On most competitions, part of the rules is that photos should be handed in “straight out of camera” -with no post-editing or production allowed. Photos are typically judged using criteria that combine photographic technique and creativity in interpreting the theme. There are over **80 photomarathons** held around the world in over **30 countries**. PhotoMarathon İstanbul will start on **Saturday**, November 14th at 10.30 at **Sirkeci Train Station**.

Turkey, having considered the common heritage of all humanity and universal values which are located in the paradise of cultural and natural assets. With its ancient history, cultural codes, geographical researches and extensions, it is a very valuable country for the whole world.

Potbelly Hill , Sanliurfa , Turkey



“Virtual Museum” Tour Experience

Ministry of Culture and Tourism published the address <https://sanalmuze.gov.tr>. You can visit museums in **Turkey as online** in a virtual environment. Here are some of the museums where you can visit with great pleasure and learn valuable information.

Zero Point of Time: POTTBELLY HILL




**The Independence
War Museum :
ANKARA**

The War of Independence Museum has a large collection. While the natural objects taken from the old state of the building are exhibited , the memoirs of the congresses are also displayed in the old building. On the other hand, documents belonging to the **Treaty of Lausanne and the Treaty of Sèvres**, gifts from various statesmen, and correspondence and communication tools describing the spirit of the period are exhibited in the structure.

For more virtual museum tours from Turkey , you should visit <https://sanalmuze.gov.tr/>

» Hope to see you in our next issue


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SHIPYARD
— Craftsmen of Ships —

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