



# TOROSPORT

The Meeting Points of International Trade in the East Mediterranean and Black Sea



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# TOROSPORT CEYHAN TERMINAL

With its pace of loading and unloading capabilities, skilled and experienced personnel, modern and tremendous equipments as well as the business volume and the quality of service; Torosport Ceyhan Terminal, established in Iskenderun Bay on the South-eastern Mediterranean coast of Turkey in 1980, that is one of the most important harbour of the Eastern Mediterranean.

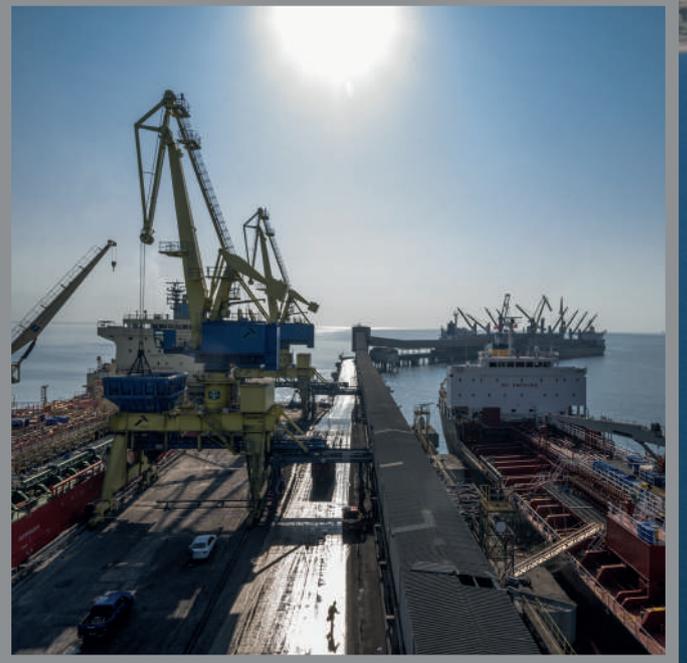
Torosport Ceyhan Terminal, at the crossroads of Eastern and Western trade routes, has a hinterland with a bright future, continuously growing with enterprises like Yumurtalık Free Trade Zone (TAYSEB), Ceyhan Energy Zone and numerous Industrial Zone in its servicing areas. Since the 80's Torosport Ceyhan Terminal is also an indispensable terminal for the transit trade with countries in the south and the east of Turkey, especially with Iran, Iraq and Syria.

Torosport Ceyhan Terminal with its two independent piers, altogether 8 berths alongside 2 jetties, on-land facilities, warehouses and tanks which will meet the storage needs of these piers has a great product handling variability from dry bulk to general cargo to bagged products, from grains to fertilizers, from petro coke and coal to minerals, from clinker to cement, from pumice to chrome, from edible oils to liquid chemicals, from crude oil to all kinds of petroleum products.





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Old Pier (1-2-3)

**Land Connection:** 36° 55' 00" N - 035° 58' 54" E

**Tip of the Pier:** 36° 54' 24" N - 035° 59' 06" E

New Pier (4-5-6-7-8)

**Land Connection:** 36° 55' 12" N - 035° 59' 18" E

**Tip of the Pier:** 36° 54' 30" N - 035° 59' 34" E

**Working Hours:** 24 hours non-stop

**Seaport Area (m<sup>2</sup>):** 750,000 m<sup>2</sup>

**Vessel Acceptance Capacity:** 600 Vessels/year

**Load Handling Capacity:**

**Dry Bulk and General Cargo:** 14.400.000 ton/year

**Liquid:** 13.500.000 m<sup>3</sup>/year



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## Length of Piers (m):

Berth No	Purpose	Vessel DWT	Platform Length (m)	Berthing ship length	Berthing ship width	Max. Draft (m)			Air Draft (m)	Capacity (ton/day)
				max. (m)	max. (m)	Fore	Aft	Even Keel		
1	Dry-Liquid	40,000	120	185	28 m for bulk carriers, tankers no restriction	--	--	10,5	22 m for dry cargo vessels, 14 m for tankers	4,000
2	Liquid	40,000	120	212	--	--	--	11,5	14 m for tankers, 12 m for ammonia tankers	23,000
3	Dry	3,000	100	100	15	--	--	4,8	--	1,500
4	Dry	110,000	185	270	42	13,0	13,5	13,0	25 m for dry cargo vessels	15,000
5	Dry	110,000	185	270	42	13,0	13,5	13,0	25 m for dry cargo vessels	22,000
6	Liquid	40,000	155	190	--	9,5	10,5	9,5	14 m for tankers	5,000
7	Dry + Liquid	40,000	155	220	25 m for bulk carriers, tankers no restriction	10,0	11,0	10,0	19 m for dry cargo vessels	15,000
8	Dry	3,000	100	100	15	4,5	5,0	4,5	--	1,500
Ro-Ro	Dry	8,000	21	120	20	8,0	8,0	8,0	--	--



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## Storage Capacity (Ton/Year)

### Dry Cargo Storage

1 Warehouse with separated holds for Grain in Bulk (60.000 tons)

2 Warehouses for Bulk Fertilizer (2 x 50.000 tons)

4 Warehouses for various type of Cargoes (4 x 5.000 tons)

1 Warehouse for Raw Materials (32.000 tons)

1 Warehouse for Bagged Products (17.000 tons)

1 Open field storage for Ore cargoes (100,000 tons)

1 Open field storage for Ore and Stone cargoes (70,000 tons)

Coal and Petcoke storage fields (1.000.000 tons)

### Liquid Cargo Storage

26 Tanks of several capacities in a tank farm with a total capacity of 220.000 m<sup>3</sup>.

2 Ammonia tanks with a total capacity of 22.000 m<sup>3</sup>.

6 Phosphoric Acid tanks with a total a total capacity of 18.480 m<sup>3</sup>.

### Dry Cargo Handling Equipments

**Berth-1:** SWL of first crane is 6 tons and discharging/loading capacity 125 ton/per hour .SWL of second crane is 8 tons and discharging/loading capacity 175 ton/per hour.

**Berth-4:** 2 twin cranes, SWL is 17 tons for each crane and discharging/loading capacity of each crane is 400 ton/per hour .

**Berth-5:** 2 twin cranes, SWL is 30 tons for each crane and discharging/loading capacity of each crane is 600 ton/per hour

**Berth-7:** 2 twin cranes, SWL is 20 tons for each crane and discharging/loading capacity of each crane is 580 ton/per hour.

### Conveyor System

1- One conveyor of 400 ton/hour carrying capacity from Berth-1 to Fertilizer Warehouse.

2- One conveyor of 600 ton/hour carrying capacity from Berth-4 to Grain and Fertilizer Warehouse and Bagging Units.

3- One conveyor of 800 ton/hour carrying capacity from Berth-5 and Berth-7 to Grain and Fertilizer Warehouse and Bagging Units.

## Liquid Loading/Unloading Pipes and Capacities

Product Type	Load and Discharge Capacity (ton/hour)	Pipe Diameter (inches)	Berth No's
Ammonia	170	6	2
Phosphoric Acid	500	14	1 - 2
Crude Oil (Fuel-Oil)	700	14	1 - 2
Gas Oil	900	12	1 - 2
Gasoline	925	14	1 - 2
Kerosene - Jet Fuel	970	14	1 - 2
Caustic	150	8	6
Styrene Monomer	350	10	6
Other Chemical products(average)	200	8	6-7
Water	50	4	All
Air	--	3	All





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## Bagging Operations

There are 3 stationary bagging units in the terminal, with a total capacity of 15,000 ton/day:

### **Bagging Unit-1**

3 lines - 4,000 ton/day

### **Bagging Unit-2**

3 lines - 4,000 ton/day

### **Bagging Unit-3**

5 lines - 7,000 ton/day

In addition, there is 1 mobile bagging unit in the Terminal, each with 60 ton/hour bagging capacity.

## Other Equipments

8 units truck weighing machines

1 unit grain weighing machine

4 units band weighing machines

2 units mobile cranes

8 units loaders

5 units bobcats

2 units backhoes

2 units forklifts

1 unit high up

1 unit man lift

1 unit hydraulic lift

2 units tractors

1 units mobile compressor

5 units mobile generators

2 units road sprinklers

1 unit road mechanical sweeper

2 mobile cranes

1 mobile harbour crane

## Other Seaport Services

Water connection to sea vessels is available at every berth.

Bunker is available only via tanker trucks.

Solid wastes can be taken away directly from the berths.

1.026 m<sup>3</sup> slop, 613 m<sup>3</sup> bilge, 613 m<sup>3</sup> sludge, 20 m<sup>3</sup> waste oil and 40 m<sup>3</sup> toxic slop capacity available at the Terminal.

The Terminal receives slop including petroleum products by petroleum product carrying tankers.

There are fixed and mobile radio communications (VHF), available 24 hours.

## Sea Vehicles

The Terminal has 1 Agent boat. Agent boat serves for crew change, store supply etc. of ships at anchorage area as non-stop.

## Coal Operations

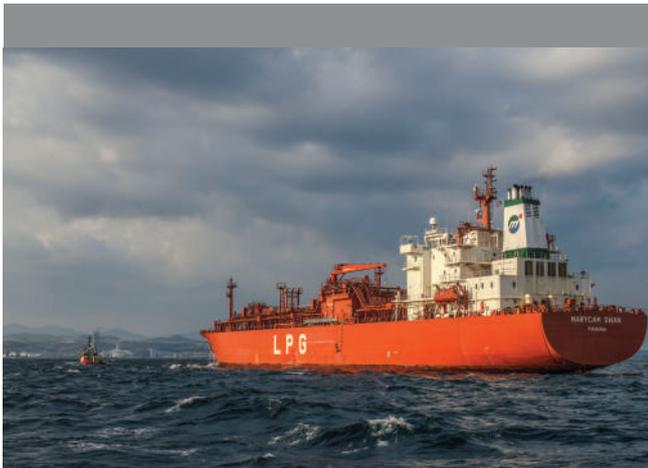
The Terminal has a nearly 550.000 m<sup>2</sup> totally and 28.400 m<sup>2</sup> open top "A" type Custom Bounded Warehouse for the coal. From sized coal to steam coal, from metallurgical coke to petrocoker nearly 5 million tons of coals are handled at Berth-4, Bert-5 and Berth-7 in a year. The incoming coal is discharged by cranes, weighed and carried to open fields. The coal companies having their own fields outside the Terminal are also served at the Terminal.



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## Grain Operations

Grain operation is held in Berth-4, Berth-5 and Berth-7, with a loading and discharging speed up to 15,000 tons per day for bulk grains like maize, wheat, barley and soybeans etc and up to 10,000 tons per day for pulps of oil seeds like Soy Bean Meal, SBM, DDGS. The Terminal executes the transportation into the storage warehouses via the conveyor system and on truck delivery. According to the number of trucks, the speed of on truck delivery can reach up to 10,000-15,000 tons per day according to the product type. For the storage capacity, there is a horizontal grain warehouse of 60,000 tons with 2 compartments of 20,000 tons and 2 compartments of 10,000 tons. The grains brought to the Terminal can also be loaded onto sea vessel or trucks as bulk. The discharge speed of sling or big bagged grains is more than 2,000 tons per day.



## Petroleum Products Operations

26 tanks with a total capacity of 220,000 m<sup>3</sup> are utilized for storing petroleum products, liquid chemicals and edible oils. Most of the tanks are bonded warehouses with capacities varying from 1,000 m<sup>3</sup> to 20,000 m<sup>3</sup>.

With its many years of experience, it's successfully performed loading, discharging and storage services of petroleum products like crude oil, fuel oil, gasoline, gasoil and kerosene, brought by tanker trucks or sea vessels to be transported to the other countries or inland. The Terminal is the most important marine terminal of the transit trade in the East Mediterranean since 1980.

At Berth-1 and Berth-2 of the Terminal, there is a discharge service with a speed up to 23,000 ton/day and a loading service up to 17,000 ton/day from/onto the sea vessels with maximum 40,000 DWT capacities. Heating the tanks, discharging and loading from/onto the trucks, weighing the trucks are executed in the Terminal.

## Liquid (Chemical Products and Vegetable Oil) Operations

Berth-6 and Berth-7 are used for various liquid products like edible oils, various liquid chemicals.

Pipes and product types at Berth-6:

1 x 8 Inches – Vegetable Oil

2 x 10 Inches - Stiren Monomer

1 x 8 Inches - Caustic Soda

1 x 8 Inches - MEG

3 x 8 Inches – Various Chemical Products (MEG, Methanol, 2EH, Acetic Acid, DEG, VAM, Ethyl Acetate, Suphuric Acid, Phosphoric Acid etc.)

## Other Operations

From general cargo to bagged and big-bag products, from dry bulk goods to fertilizer, sulphur, clinker, chalk stone, pumice, chrome etc., several ores and different freights are loaded and discharged at Berth-4, Berth-5 and Berth-7.

Berth-2 is used for different liquid products like acid, ammonia.

In the scope of general cargo; loading, discharging and weighing operations of bagged, palletized and big-bagged products and heavy machinery are also held at Berth-7.

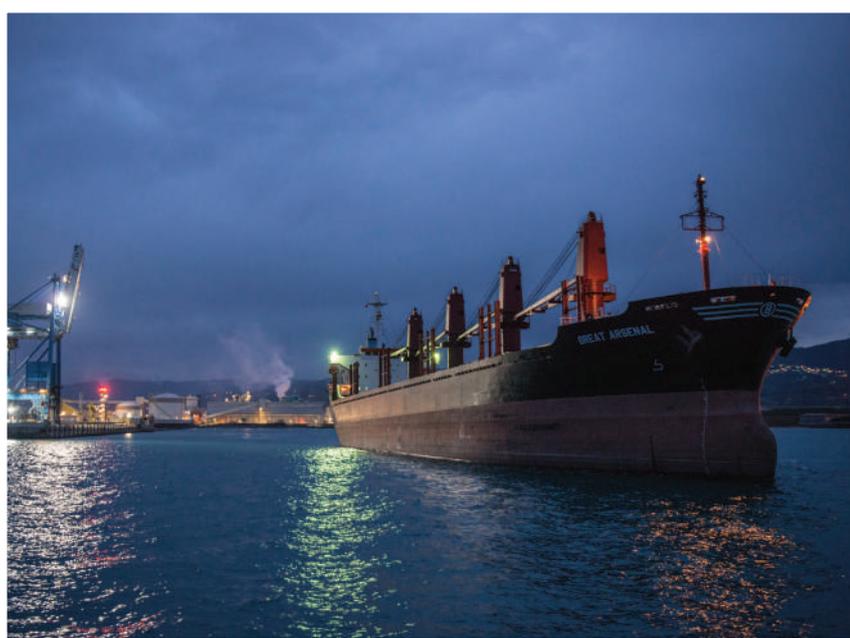


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# TOROSPORT SAMSUN TERMINAL

After the acquisition of a state owned fertiliser plant in a privatisation in 2005, Torosport Samsun Terminal, located in Samsun on the Black Sea coast of Turkey, started its terminal services with Toros's long-served skills and experience in the region. Torosport Samsun Terminal, at the crossroads of the Black Sea Countries and has an international hinterland with a bright future and continuously growing business for Turkey with Russia and other countries.

Torosport Samsun Terminal, having 2 berths alongside on its one independent pier with on-land facilities is regarded as the most favourable terminal to be a logistics hub by having a railway connection to its hinterland. The Terminal, by having a large stockyard areas inside, is also backed up by well experienced staff and business knowhow, has a range of products in dry bulk and general cargo volumes in comparison to its counterpart in the region.



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**Seaport Coordinates:** 36° 27' 05" E - 41° 15' 00" N

**Working Hours:** 24 hours non-stop

**Seaport Area (m<sup>2</sup>):** 1.300.000 m<sup>2</sup>

**Vessel Acceptance Capacity:** 600 Vessels/year

**Handling Capacity:**

**Dry Bulk and General Cargo:** 4.200.000 ton/year

**Liquid:** 4.500.000 m<sup>3</sup>/year

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## Length of Piers (m):

Berth No	Purpose	Vessel DWT	Platform Length (m)	Berthing ship length max. (m)	Berthing ship width max. (m)	Max. Draft (m)			Air Draft (m)	Capacity (ton/day)
						Fore	Aft	Even Keel		
1	Dry-Liquid	50,000	204	225	32	9,5-19,5	32	14.000		
2	Liquid	30,000	204	225	32	9,5-19,5	32	10.000		



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## Liquid Loading/Discharging Pipes and Capacities:

Product Type	Load and Discharge Capacity (ton/hour)	Pipe Diameter (inches)	Berth No's
Ammonia	400	10	2
Phosphoric Acid	350	12	2
Sulphuric Acid	250	8	2
Water	4	2	1,2
Air	-	2	2





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## **Dry Cargo Handling Equipments**    **Other Seaport Services**

**Berth - 1:** 1 crane with 30 tons SWL and 1.000 ton/hour loading and unloading capacity.

**Berth - 2:** 1 mobile crane with 250 ton/hour loading and unloading capacity.

### **Storage Capacity (ton/year)**

#### **Dry Cargo Storage**

4 Warehouses for dry bulk cargo (1 x 13000 tons, 2 x 60.000 tons and 1 x 45.000 tons)  
3 Warehouses for bulk fertiliser (1 x 45.000 tons, 1 x 40.000 tons and 1 x 13.000 tons)  
1 Warehouse for bagged cargo (4.300 tons)  
150.000 m<sup>2</sup> Open Storage Area

#### **Liquid Cargo Storage**

3 Ammonia tanks with a total capacity of 44286 m<sup>3</sup>  
8 Phosphoric Acid tanks with a total capacity of 24559 m<sup>3</sup>  
9 Sulphuric Acid tanks with a total capacity of 33622 m<sup>3</sup>

#### **Conveyor System**

The conveyor of 1.000 ton/hour carrying capacity from Berth-1 to all fertilizer warehouses.

#### **Bagging Operations**

There are 2 stationary bagging units with the total capacity 3.000 ton/day.

#### **Other Equipments**

2 units truck weighing machine  
1 units band weighing machine  
5 units loader  
2 units bobcat  
2 units forklift  
20 units truck  
2 units mobile compressor  
2 units mobile generator (220V and 380V)

24 hours, non-stop pilotage and towing services are given.

Water connection to vessels is available at every berth.

Oil is available only via tanker trucks.

Solid wastes can be taken away directly from the berths.

50 m<sup>3</sup> total storage capacity for the liquid wastes.

There are fixed and mobile radio communications (VHF), available 24 hours.

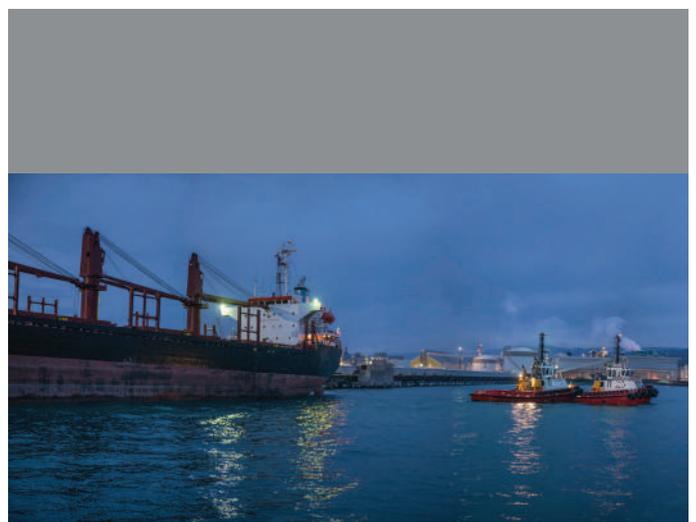
#### **Coal Operations**

Torosport Samsun Terminal has open storage areas for coal. From sized coal to steam coal, from metallurgical coke to petro coke, various types of coal goods are handled at Berth-1. The incoming coal is discharged by jetty crane, weighed and carried to open fields by trucks.

#### **Other Operations**

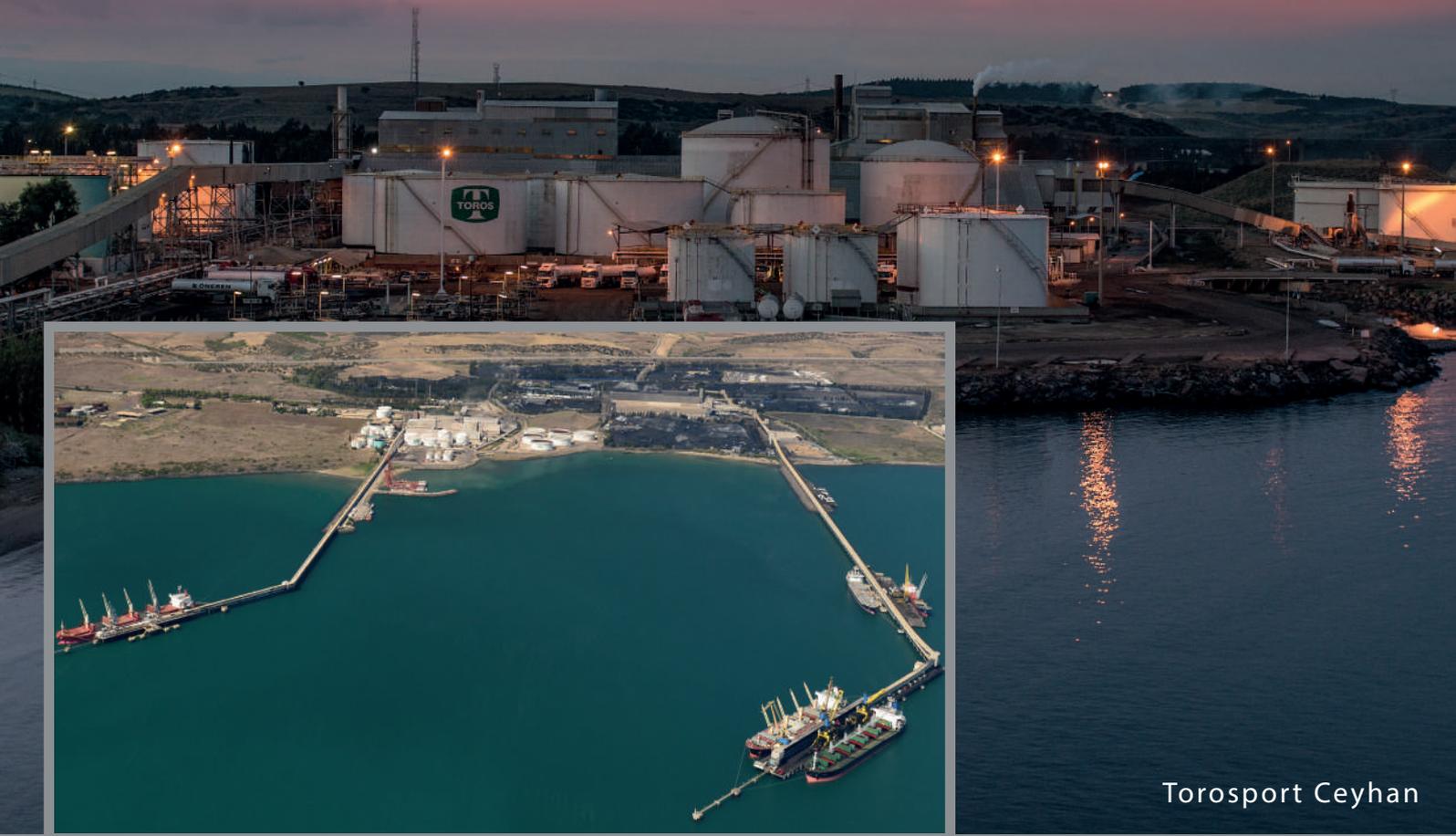
From general cargo to bagged and big-bag products, all kinds of dry bulk cargoes, like grain, iron ore, fertilizer, sulphur, clinker, etc., are possible to be loaded and discharged at Berth-1 and Berth-2.

Also all kinds of liquid chemicals, especially ammonia, phosphoric acid and sulphuric acid, are handled at Berth-2.





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Torosport Ceyhan



Torosport Samsun



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