Dalian
the Nearest Port to the World
in North China

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Location

Hinterland of Dalian Port

Russia

Northeast Asian economic circle

Mongolia

North Korea

South Korea

Japan

Dalian

Bohai Economic Rim

3 Northeast Provinces’ economic corridor
Outline

1. Early days
2. Current situation
3. Principal business
4. Multi-model transportation
5. Relative policies
6. Future
Early days

In 1858 by the British

China in the 1895 Sino-Japanese War

In 1945-50 by the Soviets.

In 1951, the Port of Dalian to China
Current situation
Comparison between Dalian port and Seattle port

Comparison (job) jobs

<table>
<thead>
<tr>
<th></th>
<th>Port of Dalian</th>
<th>Port of Seattle</th>
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</thead>
<tbody>
<tr>
<td>Jobs</td>
<td>381,604</td>
<td>196,988</td>
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Revenue (in thousand)

<table>
<thead>
<tr>
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<th>Port of Dalian</th>
<th>Port of Seattle</th>
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<tbody>
<tr>
<td>Revenue</td>
<td>$156,469</td>
<td>$379,977</td>
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- **Container (TEU's in 000's):**
  - Dalian: 541.3
  - Seattle: 1,523

- **Grain (metric tons in 000's):**
  - Dalian: 558.8
  - Seattle: 3,480

- **Cruise Passenger (in 000's):**
  - Dalian: 323.7
  - Seattle: 886
6 major centers

- Steel, coal, dry bulk cargoes transshipment center
- Auto passenger and ro-ro center
- Ore distribution center
- Container transshipment center
- Grain transshipment center
- Oil/liquefied chemicals transportation and distribution center

Principal business:

- Steel, coal, dry bulk cargoes
- Transshipment center
- Oil/liquefied chemicals transportation and distribution center
- Ore distribution center
- Container transshipment center
- Auto passenger and ro-ro center
Si’ergou panorama

New port 30 DWT crude oil terminal

- 300,000 DWT crude oil terminal
- 35 crude oil storage tanks, a total of 3.5 million m$^3$
- 39 refined oil storage tanks, storage capacity 0.36 million m$^3$
- 51 liquefied chemicals tanks, volume capacity 0.11975 million m$^3$

A total storage capacity over 3.988 million m$^3$
6 major centers

**Phase I**
Dalian Container Terminal (DCT) (in use)
berth: 5
throughput: **1,800,000** TEU

**Phase II**
Dalian Port Container Terminal (DPCM) (in use)
berth: 6
throughput: **2,800,000** TEU

**Phase III**
Dalian International Container Terminal (DICT) (under construction)
berth: 6
throughput: **3,100,000** TEU
Dayao bay bulk grain storage tanks  GanJingZi bulk grain storage tanks

- Dalian port is the main sea-export gateway of agricultural products in northeast China and Inner Mongolia. More than the total of 60% the domestic corn is exported to foreign trade every year
- 5 berths in operation
- 7.2 million tonnes throughput capacity annually
Passenger and ro/ro transshipment

- 2 specialized automobile berths
- 230,000 m² of stacking yard
- An annual handling capacity of 496,700 vehicles

- 10 passenger and ro/ro specialized berths
- 6 domestic and 1 international routes
- About 6 million person-time of passenger transport a year
- About 1 million measurements of ro-ro vehicle per year
- About 50 ships class per day
General cargo terminal

- 33 berths in general cargo terminal
- 21.93 million tones the total capacity
Ore terminal operation

Ore terminal backyard

- 2 specialized berths with the functions of sea transshipment and bonded distribution
- 300,000 DWT vessel ore berths
- draft-23 m
- 371.8 thousand m² stacking yard area
- 2.28 million tons stacking capacity
4 core systems

---------------multimodal transportation

Collection and Distribution Transport System

Digital Logistics Port System

Marine Transit System

Specialized Railway Collection and Distribution Transportation System
1. Perfect Marine transit system

- The port of Dalian, as a marine transit center for Yingkou, Jinzhou, and Yantai and so on, has linked to the world in Bohai bay.
- It is the second biggest marine transit center next to Port of Shanghai in China.

City of Dalian
- 111 shipping enterprises
- 292 ships
- 6.51 million DWT capacity/year
- 90 million tons of freight
- 21440 passengers
- 1486 vehicle
Shipping Lines of Dalian Port

Country: 160
Port: more than 300
Container shipping line: 82
Fairway liner destiny: 300/month
Smooth highway transportation network system collection and distribution

- The length of port road is more than 100 km, connecting the downtown roads and Shen-Da Highway. And can be realized a door-to-door delivery service.

**City of Dalian**
- 512 highroads
- 6000 km traffic mileage
- 500 km the highway
- 94000 freight vehicles

![Road network diagram](image)
3. convenient specialized railway transportation network system

- Dalian Port takes advantage of the railway network in the Northeast China. In Dalian, it is developing the nonstop container trains connecting Haerbin, Changchun, Shenyang and other inland main cities.

- Now, every week, it has more than 40 trains. So it makes a convenient and efficient inland collecting and distribution network.

City of Dalian
17 railway operation lines, and the total line is 1385 km
4. Complete function of digital logistics port system

Dalian Port is converting into a modern logistics port from a traditional loading and unloading port. Through the specialized and seamless logistic system, it serves the customer the best supply chain. The system of Shipping Agency improves. Freight agents achieve business restructuring. And Warehouse and Logistics Industry makes a healthy development.
Relative policies

In 2003, China State Council proposed to build Dalian into an important international shipping center in northeast Asia.

In 2009, China State Council passed “The development plan of seashore Liaoning” proposed to build Dalian into a northeast Asia international logistic center, regional financial center and modern industrial region.

In 2011, the provincial government brought a bill the container volumes will break through 10millionTEUs in three years.

In 2011, the Dalian municipal government issued a statement to promote container transportation development.
Dec 2008: Dalian port and Seattle port signed a letter of intent for green partners

July 2011: Dalian port Co., LTD. Invested $133 million into environmental protection

Dec 2011: Dalian port won the honor of national green transportation enterprise

Dalian port Co., LTD. has conducted extensive exchanges and cooperation with the SSA and Seattle port authority researching in energy saving and emission reduction.
Dalian demonstration against PX project
14 August, 2011
Confliction between government and citizens

P-Xylen project in Dalian was cancelled by public opinion
Tomorrow of container transportation

- Phase 1: ship-to-shore link
- Phase 2: multimodal transportation (full embodiment)
- Phase 3: ship-to-ship (transshipment services)

- Phase 4: ?
  - Large-scale: (Panamax: 4500TEU; New Panamax: 12500TEU)
  - Integration: (pure transshipment port, door-to-door)
  - High-speed: (China and South Korea ferry, China Europe Eurasia landbridge)
  (China-Japan: super high speed ship)
Welcome to Dalian & DMU, and I will be your driver

Thank you