Ports of Oman - Introduction

8 Major Ports of Oman

- Port Sultan Qaboos
- Port of Salalah
- Port of Sohar
- Port of Khasab
- Port of Shinas
- Port of Duqm
- Mina Al Fahal
- Qalhat LNG
For centuries, Oman's Ports have sheltered and traded with ships from all over the world. Strategically located between the great civilizations of Babylonia, Egypt, Africa, India and the Far East,

Omani ports rose to prominence in the 10th century when Omani merchant fleets traded as far away as China.

During the reign of Sayyid Sultan bin Ahmed in the 18th century, Oman's trading activity again increased. With the accession of HM Sultan Qaboos bin Said a new era of maritime commerce and prosperity started in Oman.
8 Major Ports of Oman
- Port Sultan Qaboos
- Port of Salalah
- Port of Sohar
- Port of Khasab
- Port of Shinas
- Port of Duqm
- Mina Al Fahal
- Qalhat LNG
Port Sultan Qaboos

- **Area**
  - Total area: 26.7 km²
  - Land: 1.2 km²
  - Sea: 25.5 km²

- **Length of Quay**
  - 2592 meters
  - 13 Berths (Commercial & Government)

- **Break water Length**
  - Total length: 506 m

- **Depth of Water below Chart Datum**
  - Approach channel: -13 meters
  - Quay: -13 meters
### Berth Details

<table>
<thead>
<tr>
<th>Berths</th>
<th>Cargo</th>
<th>Length</th>
<th>Draft</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>Multipurpose</td>
<td>470 m</td>
<td>- 13 meters CD</td>
</tr>
<tr>
<td>3</td>
<td>Bulk &amp; General</td>
<td>228 m</td>
<td>- 11 meters CD</td>
</tr>
<tr>
<td>4-5</td>
<td>Container</td>
<td>366 m</td>
<td>- 10.9 meters CD</td>
</tr>
<tr>
<td>6</td>
<td>Cruise Terminal</td>
<td>198 m</td>
<td>- 9.6 meters CD</td>
</tr>
<tr>
<td>7-8</td>
<td>Bulk &amp; General</td>
<td>366 m</td>
<td>- 9.6 meters CD</td>
</tr>
<tr>
<td>9</td>
<td>Ferry &amp; Port Use</td>
<td>122 m</td>
<td>- 4 meters CD</td>
</tr>
<tr>
<td>10-13</td>
<td>Government Use</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Capacity
- 300,000 TEU
- 7 million FRT
Port Sultan Qaboos

- **Equipments**
  - 5 QGC
  - 13 RTG
  - 4 Tugs
  - 31 RS/EH/FL/TL
  - 6 Mobile Cranes

- **Reefer Containers**
  - 312 plugs points
Other facilities at the port include:
- Passenger & cruise terminal
- Duty free shopping
- Grain silos
- Cement silos
- Bitumen storage
- Tank farm for bunker
- Diesel tank
Port of Salalah - Introduction

8 Major Ports of Oman
- Port Sultan Qaboos
- Port of Salalah
- Port of Sohar
- Port of Khasab
- Port of Shinas
- Port of Duqm
- Mina Al Fahal
- Qalhat LNG
Port of Salalah

- **Area**
  - Total Area – 10.71 km²
  - Land area – 4.76 km²
  - Sea area – 5.96 km²

- **Length of Quay**
  - 4462 m
  - 19 Berths

- **Breakwater Length**
  - Total length – 2825 m

- **Depth of Water below Chart Datum**
  - Approach channel  -18 m
  - Quay  up to -18 m
Port of Salalah Masterplan

- Future Expansion Plan
- Berths 7, 8, 9
- Future Lee Breakwater
- Future Second Basin
- Container Terminal
- General Cargo Terminal
### Existing Berth Details

<table>
<thead>
<tr>
<th>Berths</th>
<th>Cargo</th>
<th>Length</th>
<th>Draft</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-4</td>
<td>Containers</td>
<td>1228 m</td>
<td>- 16 m CD</td>
</tr>
<tr>
<td>5-6</td>
<td>Containers</td>
<td>900 m</td>
<td>- 18 m CD</td>
</tr>
<tr>
<td>31</td>
<td>Containers</td>
<td>300 m</td>
<td>- 16 m CD</td>
</tr>
<tr>
<td>21-23</td>
<td>General</td>
<td>519 m</td>
<td>- 10 m CD</td>
</tr>
<tr>
<td>24</td>
<td>General</td>
<td>200 m</td>
<td>- 8 m CD</td>
</tr>
<tr>
<td>25-28</td>
<td>General</td>
<td>518 m</td>
<td>- 5 m CD</td>
</tr>
<tr>
<td>29</td>
<td>General</td>
<td>290 m</td>
<td>- 3 m CD</td>
</tr>
<tr>
<td>30</td>
<td>General</td>
<td>300 m</td>
<td>- 16 m CD</td>
</tr>
<tr>
<td>Oil jetty</td>
<td>General</td>
<td>130 m</td>
<td>- 10 m CD</td>
</tr>
<tr>
<td>Ramp</td>
<td>General</td>
<td>45 m</td>
<td>- 3 m CD</td>
</tr>
</tbody>
</table>
Port of Salalah

Existing Berth Layout

Container Terminal

General Cargo Terminal
Port of Salalah

- **Capacity**
  - 5 million+ TEU
  - 10 million FRT

- **Equipments**
  - 25 Super Post Panamax Gantry Cranes
  - 69 Rubber Tired Gantry Cranes (RTG’S)
  - 2 4850 HP Tugs
  - 2 3600 HP Tugs
  - 9 Reach Stackers
  - 8 Empty Handlers
  - 170 Yard Tractors

- **Reefer containers**
  - Over 980 points.
Port of Salalah

- **Other facilities at the port include**
  - Cruise terminal under construction
  - Grain silos
  - Cement silos
Port of Sohar - Introduction

8 Major Ports of Oman
- Port Sultan Qaboos
- Port of Salalah
- Port of Sohar
- Port of Khasab
- Port of Shinas
- Port of Duqm
- Mina Al Fahal
- Qalhat LNG
**Port of Sohar**

- **Area**
  - Total area: 4.50 km²
  - Land area: 2.06 km²
  - Sea area: 2.45 km²

- **Length of Quay**
  - 6280 meters
  - 21 Berths

- **Breakwater Length**
  - Total length: 5000 meters

- **Depth of Water below Chart Datum**
  - Approach channel: -19 meters
  - Quay: -18 meters

*Port of Sohar Plan View*
Port of Sohar

Berth Details

<table>
<thead>
<tr>
<th>Berths</th>
<th>Cargo</th>
<th>Length</th>
<th>Draft</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 No.</td>
<td>Containers</td>
<td>520 m</td>
<td>-16 m CD</td>
</tr>
<tr>
<td>8 No.</td>
<td>Containers (future)</td>
<td>2750 m</td>
<td>-18 m CD</td>
</tr>
<tr>
<td>2 No.</td>
<td>General</td>
<td>700 m</td>
<td>-16 m CD</td>
</tr>
<tr>
<td>6 No.</td>
<td>Liquid</td>
<td>1560 m</td>
<td>-16 m CD</td>
</tr>
<tr>
<td>1 No.</td>
<td>Government &amp; Services</td>
<td>560 m</td>
<td>-8 m CD</td>
</tr>
</tbody>
</table>

Equipments

- 4 Quay Cranes
- 8 Gantry Cranes
- 300 Refer points

Capacity

- 5.3 million TEU
Port of Sohar

- **Other facilities at the port include**
  - Cruise terminal under construction
  - Grain silos
  - Cement silos
  - Bitumen storage
  - Tank farm for bunker
  - Diesel tank
Port of Khasab - Introduction

8 Major Ports of Oman
- Port Sultan Qaboos
- Port of Salalah
- Port of Sohar
- Port of Khasab
- Port of Shinas
- Port of Duqm
- Mina Al Fahal
- Qalhat LNG
Port of Khasab

- **Area**
  - Total area – 1.6 km²

- **Length of Quay**
  - 300 meters

- **Breakwater Length**
  - 2 Breakwaters total length – 1015 m

- **Depth of Water below Chart Datum**
  - Approach channel -10.5 m
  - Quay -10 m
Port of Khasab

- **Berth Details**

<table>
<thead>
<tr>
<th>Berth</th>
<th>Length</th>
<th>Draft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial</td>
<td>300 m</td>
<td>-10 m CD</td>
</tr>
<tr>
<td>Fisheries</td>
<td>100 m</td>
<td>-5 m CD</td>
</tr>
</tbody>
</table>

- **Capacity**

1 million FRT

- **Other facilities at the port include**

  - Ferry Terminal
  - Cruise terminal
  - Diesel supply
Port of Khasab

Plan

- Main Breakwater
- Approach Channel
- Lee Breakwater
- Commercial / Passenger Quay
- Fishery Harbour
- Floating Jetties
Port of Shinas - Introduction

8 Major Ports of Oman
- Port Sultan Qaboos
- Port of Salalah
- Port of Sohar
- Port of Khasab
- Port of Shinas
- Port of Duqm
- Mina Al Fahal
- Qalhat LNG
Port of Shinas

- **Area**
  - Total area: 487,000 m²
  - Land area: 480,000 m²
  - Sea area: 7,000 m²

- **Breakwater Length**
  - 2 Break water with Total length: 890 m

- **Depth of Water below Chart Datum**
  - Approach channel: -3 m
  - Quay: -3 m
  - Pontoon: -1.5 m

- **Length of Quay**
  - Quay Wall: 115 meters
  - Pontoons: 98 meters
Port of Shinas

- **Berth Details**

<table>
<thead>
<tr>
<th>Berths</th>
<th>Length</th>
<th>Draft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial</td>
<td>213 m</td>
<td>-3 m CD</td>
</tr>
</tbody>
</table>
Port of Shinas

Plan

Main Breakwater

Lee Breakwater

Future Fast Ferry

Commercial Berth
Port of Shinas

- Other facilities at the port include
  - Electricity & water service
  - Fish souq
  - Diesel / petrol supply
  - Ice factory
  - Boat repair facilities
Port of Duqm - Introduction

8 Major Ports of Oman

- Port Sultan Qaboos
- Port of Salalah
- Port of Sohar
- Port of Khasab
- Port of Shinas
- Port of Duqm
- Mina Al Fahal
- Qalhat LNG
Duqm Masterplan
### Port of Duqm

<table>
<thead>
<tr>
<th>Area</th>
<th>Total area 135.0 km²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land area</td>
<td>50.0 km²</td>
</tr>
<tr>
<td>Sea area</td>
<td>85.0 km²</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length of Quay</th>
<th>6000 meters</th>
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<table>
<thead>
<tr>
<th>Breakwater Length</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Breakwater</td>
<td>4100 m</td>
</tr>
<tr>
<td>Lee Breakwater</td>
<td>4600 m</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth of Water below Chart Datum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approach channel</td>
</tr>
<tr>
<td>Quay</td>
</tr>
</tbody>
</table>

Start of Construction: November 2007
Completion: May 2012
Port of Duqm

Port of Duqm and Dry Dock Plan

- Liquid Berths
- Lee Breakwater
- Approach Channel
- Main Breakwater
- Commercial Quay Berths 1-8
- Government Berths
- Future Commercial Quay
  - 2nd Basin Berths 9-42
- Future Harbour Basin
- Dry Dock

Port of Duqm and Dry Dock Plan
### Berth Details (PHASE1)

<table>
<thead>
<tr>
<th>Berths</th>
<th>Cargo</th>
<th>Length</th>
<th>Draft</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 No.</td>
<td>Containers &amp; General</td>
<td>2250 m</td>
<td>-18 m CD</td>
</tr>
<tr>
<td>4 No.</td>
<td>Government &amp; Service</td>
<td>950 m</td>
<td>-10 m CD</td>
</tr>
<tr>
<td>8 No.</td>
<td>Dry Dock</td>
<td>2800 m</td>
<td>-10 m CD</td>
</tr>
</tbody>
</table>

![Diagram of Port of Duqm berths and cranes]
Port of Duqm

- Roundhead
- Commercial Quay Construction
- Main Breakwater
- Commercial Quay Wall
- Tug Berth Quay
Port of Duqm

**Dry Dock Details**

<table>
<thead>
<tr>
<th>Dry Dock</th>
<th>Length</th>
<th>Width</th>
<th>Depth</th>
<th>Draft</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>410 m</td>
<td>95 m</td>
<td>14 m</td>
<td>-10 m CD</td>
</tr>
<tr>
<td>2</td>
<td>410 m</td>
<td>80 m</td>
<td>14 m</td>
<td>-10 m CD</td>
</tr>
</tbody>
</table>

**Start of Construction**
June 2008

**Start of Operation**
December 2010
Port of Duqm

Dry Dock 1 and 2

Dry Dock # 1

Dry Dock # 2
Port of Duqm

Dry Dock Main Office Building
Port of Duqm

Hull Processing Shop
Port of Duqm

Dry Dock Dormitory Complex
Port of Duqm

- **Equipments Port & Commercial Quay**
  To be determined with the Port Operator
8 Major Ports of Oman
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- Qalhat LNG
Mina Al Fahal

**General Information**

Mina al Fahal is a coastal area in the northeast of Oman, near to Muscat. Crude oil and refinery products are loaded on to tankers off Mina Al Fahal by subsea pipeline and **SBM (Single Buoy Mooring)** Systems.

- **SBM Details**
  - Offshore Draft: -29.2 m
Mina Al Fahal

- **Capacity**
  
  85,000 barrels per day
Mina Al Fahal

Oil Refinery

Single Buoy Mooring
8 Major Ports of Oman

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- Port of Sohar
- Port of Khasab
- Port of Shinas
- Port of Duqm
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- Qalhat LNG
Qalhat LNG

**General Information**

Qalhat LNG is an Liquid Natural Gas plant and jetty located 230 km south east of Muscat.

Qalhat LNG exports **3.3 million tons** of natural gas per annum.
Jetty Details

- Jetty Length: 380 m
- Max Draft: -12 m