Actual terminal scheme – 1st stage

- Heater
- Rail car dumper
- Shiploader
- Indoor warehouse 210 000 tons (1st stage)
- Closed conveyer system
- Max DWT 120 000 t
- Max depth 15,0 m
- Private pier
Long-range development – 2\textsuperscript{nd} stage

- Indoor warehouse
  420 000 tons (including the 2\textsuperscript{nd} stage)

- Long-range development territory

- Closed conveyor system (5 km)

- Shiploader
  (2\textsuperscript{nd} stage)

- Long-range development territory
Technological equipment of the terminal

**Rail car heater**

*Capacity*

2 x 8 rail cars

**Rail cars dumpers with positioning elements**

*Capacity*

2 x 24 rail cars/hour
Technological equipment of the terminal

Magnetic separation and crushing complex

Capacity
2 x 1800 tons/hour

Indoor warehouse

Storage capacity
420 000 tons
(final development)
Technological equipment of the terminal

Closed conveyer system

Capacity
1800 – 3000 tons/hour
Length 5,0 km
(final development)

Two traveling ship loaders

Capacity
2 x 3000 tons/hour
(final development)
Technological equipment of the terminal

Railway park
capacity up to 300 rail cars

Private pear
(berths №28 and №29)

Length 350 m
Depth 16 m

Technical parameters of a vessel

Length: 270 m
Width: 45 m
DWT: 120 000 t
Draft: 15 m
## Technical parameters of the terminal (1st stage)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>1 stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turnover (mln tons per year)</td>
<td>6</td>
</tr>
<tr>
<td>Railcar dumper capacity (rail car/h)</td>
<td>2x24</td>
</tr>
<tr>
<td>Magnetic separation and crushing unit capacity (t/h)</td>
<td>2x1800</td>
</tr>
<tr>
<td>Simultaneous storage capacity (ths. tons)</td>
<td>210</td>
</tr>
<tr>
<td>Unloading from the warehouse (t/h)</td>
<td>3000</td>
</tr>
<tr>
<td>Shiploader capacity (t/h)</td>
<td>3000</td>
</tr>
</tbody>
</table>
### Technical parameters of the terminal (final development)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>I + II stages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turnover (mln tons per year)</td>
<td>6 + 4.5</td>
</tr>
<tr>
<td>Railcar dumper capacity (rail car/h)</td>
<td>2x24</td>
</tr>
<tr>
<td>Magnetic separation and crushing unit capacity (t/h)</td>
<td>2x1800</td>
</tr>
<tr>
<td>Separate simultaneous storage capacity of coal and iron ore raw materials (ths. tons)</td>
<td>210 + 210</td>
</tr>
<tr>
<td>Unloading from the warehouse (t/h)</td>
<td>2 x 3000</td>
</tr>
<tr>
<td>Two shiploaders capacity (t/h)</td>
<td>2 x 3000</td>
</tr>
</tbody>
</table>
Terminal services
(final development)

- Coal and iron ore raw materials transshipment
- Railcars defrost
- Magnetic separation
- Crushing
- Weighting
- Storage
- Automatic sampling
- Forwarding services
- Ship’s agency service
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