Grain

Loading and unloading in the Amazon river

Siwertell has installed a grain handling system for both unloading and loading of soya beans as part of the floating terminal at Itacoatiara on the Amazon River in Brazil, elaborated for Hermasa Navegação da Amazônia SA.

**Customer**
Hermasa Navegação da Amazônia S.A.

**Location**
Itacoatiara, Brazil

**Siwertell installation scope**
- Terminal supply: Siwertell barge unloader and ship loader mounted on a catamaran-type pontoon
- Unloader model: Siwertell ST 790-F, rail-mounted
- Maximum barge size to unload: 2,250 dwt
- Rated unloading capacity: 1,500t/h
- Ship loader model: Belt conveyor type, stationary
- Maximum ship size: Panamax
- Rated loading/unloading capacity: 1,500t/h
The Siwertell continuous screw-type barge unloader, travelling on rails along the length of a catamaran-type pontoon, plays an important role in a floating grain transhipment terminal installed at Itacoatiara on the Amazon River in Brazil. Mounted on the pontoon, which is 86m long and 35m wide, and serving as a platform for all discharging, handling and loading equipment, is also a ship loader of belt conveyor type - also supplied by Siwertell.

Soya beans arriving in river push barges from Porto Velho on the Madeira River are unloaded at the Itacoatiara terminal and either conveyed into an intermediate storage on-shore, or transhipped directly into ocean-going ships at a rate of 1,500t/h.

The floating terminal concept, which has been elaborated for Hermasa Navegação da Amazônia SA, provides a useful and efficient link for waterbound transportation, as supposed to the road transportation system used previously to take soya beans from the hinterland of Brazil to export harbours.

Siwertell was chosen for the project in order to ensure environment-friendly and efficient transhipment operation.

Main measures of barge unloader

<table>
<thead>
<tr>
<th>Measure</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length of vertical arm</td>
<td>8m</td>
</tr>
<tr>
<td>Length of horizontal arm</td>
<td>13m</td>
</tr>
<tr>
<td>Rail gauge</td>
<td>7m</td>
</tr>
<tr>
<td>Height rail/horizontal arm</td>
<td>5.68m</td>
</tr>
<tr>
<td>Weight</td>
<td>152t</td>
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</tbody>
</table>

Contact

Siwertell works closely together with representatives on all continents. Please contact our head office below and we will direct you to your local Siwertell contact.

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The Siwertell product portfolio includes ship unloaders, mobile ship unloaders, ship loaders, horizontal and vertical screw conveyors as well as complete dry bulk terminal solutions. Virtually any dry bulk cargo can be handled and all Siwertell solutions are designed to ensure sustainable, efficient and safe cargo operations. Siwertell is part of Cargotec Corporation.