

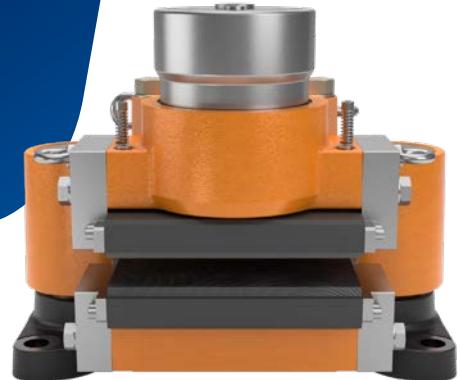
EMERGENCY BRAKING SOLUTION FOR PANAMAX STS CRANE

PROBLEM:

Panamax STS cranes operating in busy port environments require highly reliable emergency braking systems for both main and boom hoists. These cranes handle heavy loads, up to 70 tons on the hook, and must ensure safe stopping during emergency situations to prevent accidents, protect cargo, and maintain operational safety.

SOLUTION:

Svendborg Brakes delivered a comprehensive emergency braking solution for the STS crane. The main hoist was fitted with two **BSFI 526-S100 brakes**, providing a combined braking torque of 285,000 Nm on a 1600 mm brake disc. For the boom hoist, a single **BSFI 533-S100 brake** was installed, delivering 195,000 Nm of braking torque on a 1700 mm brake disc. To ensure safe and efficient operation, the system included a **hydraulic power unit** equipped with a hand pump for emergency lowering, fast brake release functionality, and two safety valves connected to the tank. All brakes were mounted on dedicated brackets upon delivery, allowing for quick and secure integration into the crane system.



HIGHLIGHTS

- High Braking Capacity:** 285,000 Nm for main hoist and 195,000 Nm for boom hoist.
- Dual Safety Features:** Hydraulic power unit with emergency lowering and fast opening capability.
- Robust Design:** Brakes mounted on dedicated brackets for secure installation.
- Optimized for Heavy Loads:** Supports lifting capacity of 43 tons under spreader and 70 tons on hook.
- Enhanced Safety:** Two valves to tank for added operational security.



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