



CUSTOMER

Antralux AG
(Dellner Brakes' distributor in Switzerland)

END USER

Mols Linien, Denmark

BACKGROUND

Each catamaran is powered by a gas turbine engine and two waterjets installed in each pontoon. The gas turbine engine generates 350 kW (470 hp) of power while running at idling speed during the 10 minute unload / load stops in the harbour.

The brakes stop and hold the waterjets to avoid erosion of the dock and the concrete harbour bottom, and avoid stirring up sludge.

APPLICATION

Each engine shaft is equipped with four Dellner SKD 50 hydraulically applied disc brakes operating on two 495 mm (19.5 in) diameter discs (two brakes per disc).

The brakes are activated with pneumatic to hydraulic pressure intensifiers. Pneumatic pressure of 7 bar (102 psi) is raised to 91 bar (1,320 psi) of hydraulic pressure in the intensifier. At this pressure, the brakes provide 12,600 Nm (111,500 lbf-in) of torque and a stopping time of less than two seconds.