



## CUSTOMER

Daewoo Shipyard, South Korea

## BACKGROUND

The Daewoo Shipyard is one of the largest shipyards in the world. They operate several types of cranes, including tower cranes.

The largest of these tower cranes, with a lifting capacity of 120 metric tonnes (264,000 lb), uses Dellner spring applied, hydraulically released brakes. The primary functions are holding and emergency braking.

## APPLICATION

Dellner Brakes supplied SKP 95-14 brakes with sintered metallic brake pads and  $\varnothing 730$  mm (28.74 in) brake discs, along with hydraulic power pack units suitable for 230V AC, mounted in IP55 classified cabinets. Each crane is equipped with one brake, one brake disc and one hydraulic unit.

The brake unit is placed between the motor and the gearbox. The brake disc rotates at 2,500 rpm with a peripheral speed of 95 m/s (18,700 ft/min) and a braking torque of 5,420 Nm (3,998 lbf ft).