CUSTOMER
The Royal Opera, Stockholm, Sweden

APPLICATION
The theatre uses side scene and stage light winches with lifting capacities of 4 and 5 metric tons (8,820 and 11,025 lb). The brakes stop and hold the stage lights and side scenes at the desired height, as well as acting as safety brakes in an emergency.

Dellner SKP 95-27 spring applied, hydraulically released disc brakes were installed on both winches. On the 4 ton (8,820 lb) winch, two brakes operate on a 610 mm (24 in) diameter brake disc. On the 5 ton (11,025 lb) winch, three brakes operate on a 680 mm (26.8 in) diameter brake disc.

Brake torque is 16 and 28 kNm (141,600 and 247,800 lbf-in) respectively. The brake discs and mounting hubs were included in the system.