



CUSTOMER

Stora Gruvön AB

BACKGROUND

Stora Gruvön's paper mill produces 600,000 tons (1.323 million lbs) of sulphate paper pulp every year. The bark is removed in the wood room before the chipping machine hacks up the timber.

The factory consumes 1.8 million tons (3.970 million lbs) of timber every year, which is the equivalent of one timber truck and trailer load every eight minutes.

APPLICATION

The brakes stop the machine's chipper disc, which has a diameter of 3,300 mm (130 in) and rotates at a speed of 226 rpm. The chipper's knife blade is replaced every day.

Without a braking mechanism, the chipper would take up to 30 minutes to come to a stop so two Dellner SKD 65 brakes were installed on a $\varnothing 990$ mm (39 in) brake disc. When the brakes are applied for periods of 5 seconds on then 10 seconds off, the stopping time is reduced to around five minutes.

Brake torque is 17,500 Nm (154,900 lbf-in) with 70 bar (1,015 psi) of hydraulic pressure.