



## **Brokk 90 at Port Townsend Paper Mill, WA, USA**

The rotary kiln at Port Townsend had not been cleaned out for a long time so the lime build-up over a length of 10 m (33 ft) was extreme. The 3.3 m diameter (11 ft) kiln had lost much of its efficiency and E J Bartells of Arlington, WA were called in to remove the build-up.

E J Bartells rented a Brokk 90 remote controlled demolition robot from Brock Rentals of Monroe, WA and set out to do the job.

Many lime plants have limited access to the kiln. At Port Townsend access was through a small side door of approx. 900 x 1200 mm (3 ft x 4 ft).



Another obstacle that had to be overcome was to pass under the burn pipe without having to dismantle the machine.

The Brokk 90 with its small dimensions, was just able to crawl under the pipe which made entry to the kiln a matter of minutes only.

With the arm dismantled the Brokk 90 can however be brought in through an opening as small as 780 x 915 mm (30½ in x 36 in)!



It took the Brokk 90 and its operator 16 hours to complete the clean-out and restore the kiln into a fully productive part of the plant. According to Mike Holt, foreman of E J Bartells, it would have taken 100 manhours to do the job by hand. Other advantages of using Brokk is that the operator stands free of dust and downfalls of coating and is relieved of the sweaty, arduous task of removing the build-up by hand.



Brokk 90 is suitable for kiln sizes between 2.4 and 4 m (8-13 ft).

### **Main data:**

Weight with hammer 1060 kg (2330 lbs)  
Min. width 780 mm (30½ in)  
Min. height 1210 mm (47½ in)\*  
Hammer hitting power 255 J (400 ft lb)

\* completely assembled unit