



Brokk technology used for pot cell cleaning at INALUM

Pt Indonesia Asahan Aluminium (INALUM) in Kuala Tanjung, Sumatra is a big smelting plant with a total of 510 pots and an annual capacity of 250.000 tons of aluminium.



The pot cell size is 4340 (W) x 10040 mm (L) at the top, 2925 x 10040 mm at the bottom, and the depth 1000 mm. The current density is 185KA. Good cathode cleaning is critical to maintain the efficiency of the process. INALUM found that by using electrically powered Brokk remote-controlled demolition robots with powerful hydraulic hammers, the cleaning could be done faster and safer than with conventional methods.



INALUM currently own five Brokk 250 machines. The compact units are lifted into the pots by an overhead crane. The weight of a Brokk 250 is around 3 tons.



The smelting process is continuous but from time to time individual pot linings reach the end of their useful life and the pots are then taken out of service and relined. The quicker this can be made, the higher the productivity of the plant. INALUM use the Brokk machines also to break the lining and to remove the lining. For this latter operation, the hammer is replaced by a bucket.

For more than 20 years, Brokk has contributed to increased productivity and safety of numerous processing plants and construction demolition sites all over the world. In aluminium plants, Brokk machines are also used to clean anodes and strip ladles.

Brokk remote controlled demolition machines are available in several different sizes and capacities. The size to power ratio for all models is impressive and the remote control takes all hazards out of otherwise dangerous and arduous jobs.