

Lifting and installation of a mill shell in Damang, Ghana



ALE has completed the replacement of a mill shell at Damang Gold Mine, Ghana. The old mill shell, weighing 333t, was removed using a crane and a new mill shell, weighing 198t, was installed.

The limited space available made the operation a significant challenge. To overcome this, the concrete area next to the foundation was expanded and two high capacity concrete slabs were installed that the crane could be positioned on.

The lifting operations were performed using a 650t capacity crawler crane with a bespoke 350t capacity spreader beam and lifting tackle, all designed and manufactured by ALE.

First, the crane was assembled outside of the main plant and then driven to the working area. Once there, the crane was positioned on concrete slabs and the tackle was installed and attached to the crane.

After attaching the mill, a 300t superlift was installed and connected to the crane. Then, the old mill shell was gradually lifted, slewed and lowered onto temporary supports.

The same tackle configuration was used to lift the new mill shell and the steps for the removal of the old mill were followed in reverse for the installation of the new one.

Project:	Lifting and installation of a mill shell at Damang Gold Mine
Location:	Damang, Ghana
Equipment:	650t capacity crawler crane; spreader beam
Weights:	Old mill - 333t, new mill - 198t
Key Features:	Innovation; bespoke solution