

“Haggie Hints”

by George Delorme

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Haggie North America Inc. - Meeting your hoisting needs!

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Correcting Load/Dump Position Problems with a Double Drum Hoisting System

DISCUSSION:

For a variety of reasons, it sometimes happens that ropes of unequal length are installed on a double drum system. This usually occurs if hoisting ropes are not changed in tandem; either because of rope deterioration or premature rope damage/failure.

PROBLEM:

The problem that arises is that the conveyances will not be within the designed limits of the load/dump positions.

Skips are normally stopped in the loading position; therefore the opposite skip (when stopped in the dump area) will either be too high or too low. If the rope length difference between drums is too great, changing the hoist balance alone may not be enough to allow for production hoisting.

REMEDY:

After several requests (from various mines) to calculate how much rope length difference would cause one skip at the dump to be "x feet" higher/lower in the dump than the other skip, we worked together to develop a spreadsheet to calculate this for us.

The attached Excel file will help to calculate the amount of rope to be removed from the drum with the longer rope, to put the system back into an operational balance. Filling in a few particulars (**red text**) about your hoist, and the difference in dump positions will allow you to calculate a fairly precise rope length difference.

NOTE: The skip that is travelling higher in the dump is the drum with the longer rope installed...it is the one that must be shortened.

The "Haggie Hints - Issue #14" spreadsheet can also be used to calculate the total amount of rope on a drum.