

UNDERGROUND ENGINEER TOOLKIT

Tape Measure

A long flexible tape measure should be included for all underground visits undertaken by the Engineer.

Typically these types of tape measures are the wheel type and between 50m-100m long.

Tape measures are useful for conducting QAQC checks on drilled, prepped or charged production blast holes.

The tape measure when weighted on the end can be used to undertake the following QAQC tasks:

Checking the depths of drilled production downholes and identifying holes that do not meet the designed parameters by assessing the end length or breakthrough location of the holes.

Checking that production drillholes are clean and free from obstructions.

For blasts or holes that are designed to breakthrough checking that the breakthrough lengths match the designed blasted lengths.

For prepped holes that have been blocked off due to being breakthrough holes, checking that the holes are blocked at the correct location within the hole.

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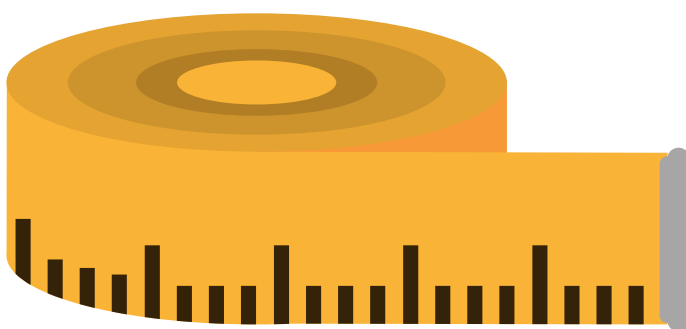
For holes that have been charged, checking that the charges/stemmed heights are the same as the heights designed in the charge plans.

Checking the breakthrough locations of holes and mapping rises where two people are available and safe access is available to the top and bottom of the drilled rise

To undertake checks of blast holes, you will also need to ensure that electrical tape is available to attach a suitable weight (rock or suitable bolt/nut) to the tape measure.

It is critical to ensure that the starting point of the tape measure is known. Some can be cut short and can lead to false readings.

A smaller retractable style tape measure similar to a builder's tape measure is also useful for undertaking tasks such as measuring the smaller dimensions of hole to hole collars, rise layouts and bolting patterns etc.



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