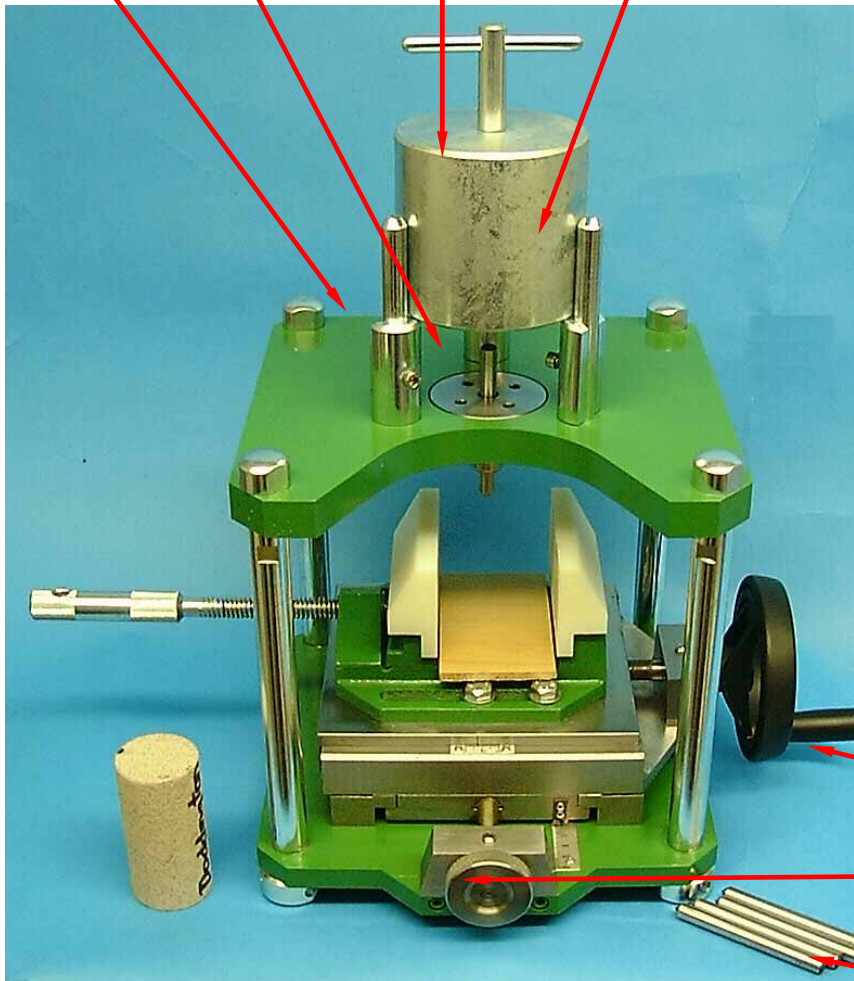


Cerchar Machine Components and Operating Suggestions

1 The photo shows the fully populated apparatus based on the design described in the Technical Note "Rock Abrasiveness Testing for Tunnelling" by G. West

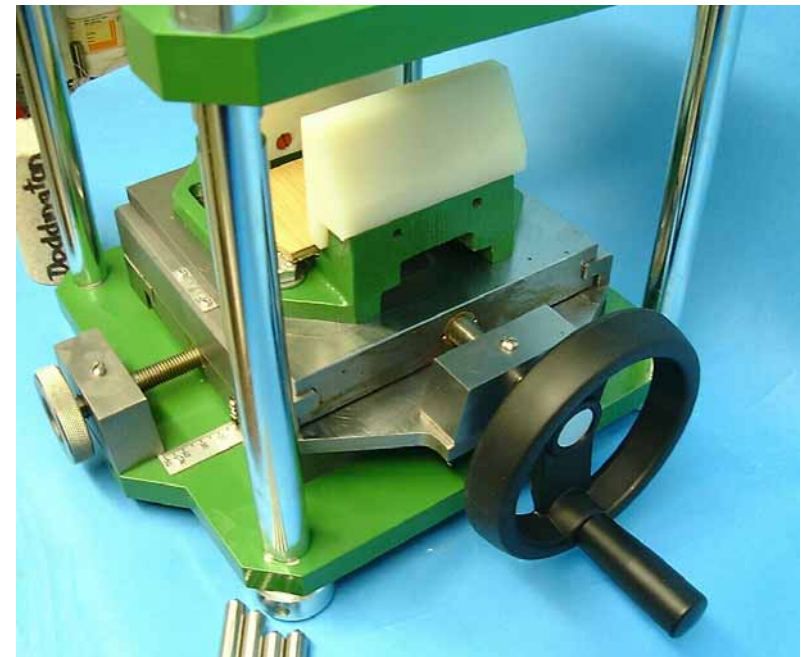
Weight support (3) Steel tool 70N Weight Weight guide



2 Top plate of machine has a large cut out that allows easy viewing of orthogonally aligned scales graduated in mm.



3



Driving screw-thread (not 1mm pitch)

Cross traversing drive wheel

Spare steel tools

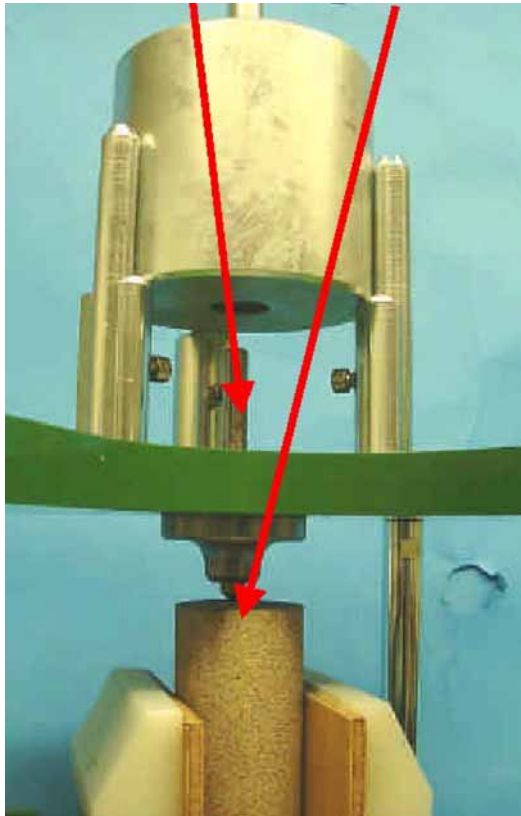
Cerchar Machine Components and Operating Suggestions

4

Test core held in a vice with plywood protecting its nylon jaws. Steel tool is loaded into tool holder. 70N load supported by three rotatable supporting members.

Steel tool

Tool holder



5

70N load is held by one hand so that the three support members can be rotated to allow the mass to slide down onto the steel tool.



6

70N load is resting on the steel tool ready for traversing

