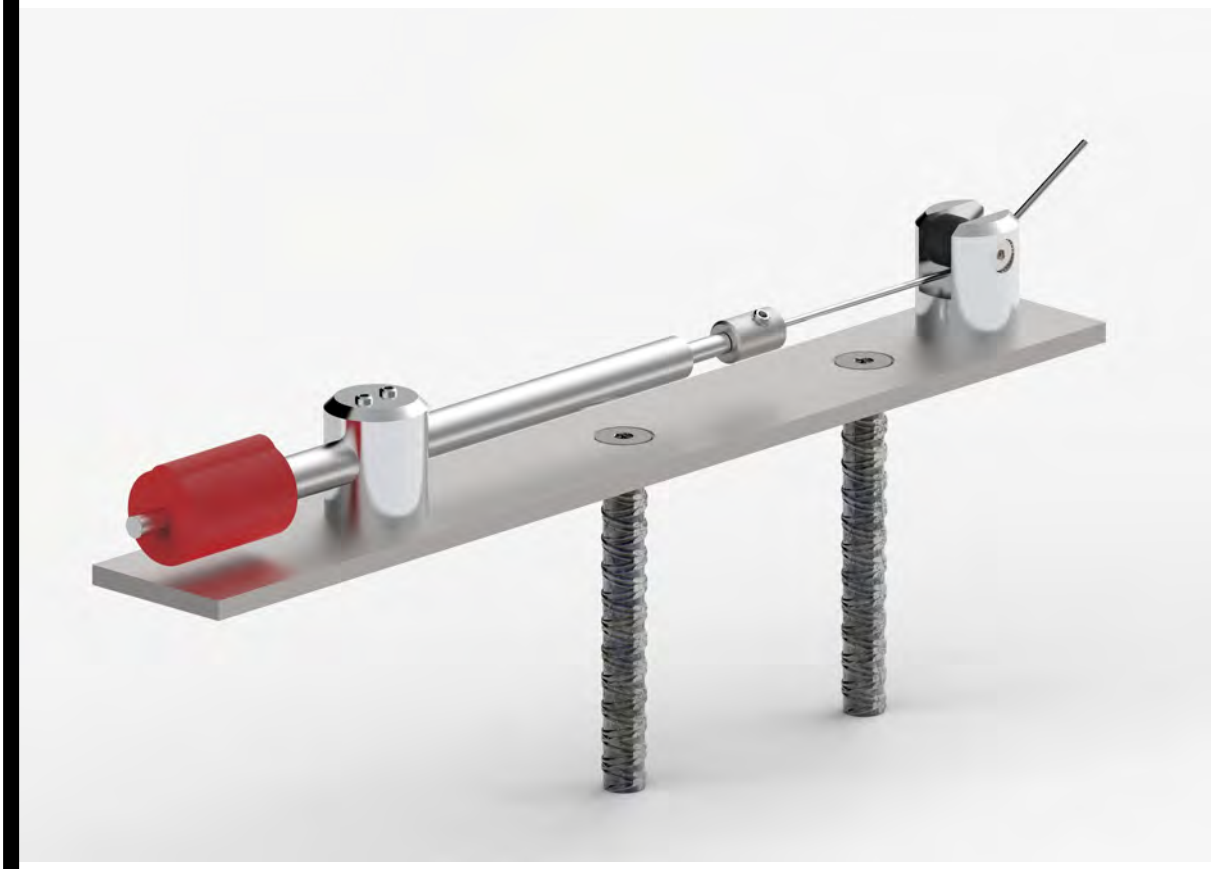
QUICK INSTALLATION GUIDE

GEO-DW300
Wire Extensometer



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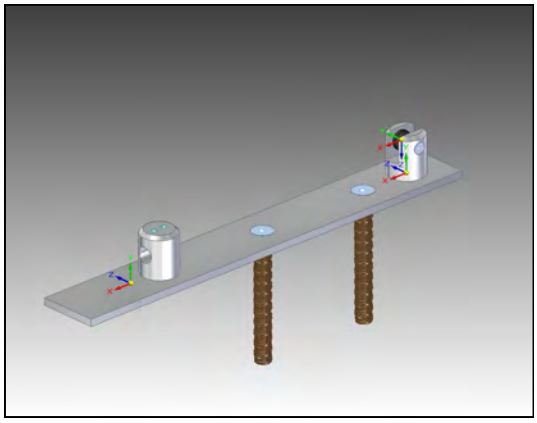
It is vital to check all the equipment in the shipment soon after taking delivery and well before installation is to be carried out. Check that all components that are detailed on the shipping documents are included.

The main frame will be delivered complete, only the VW displacement gauge and the monitoring point anchor will be delivered unattached.



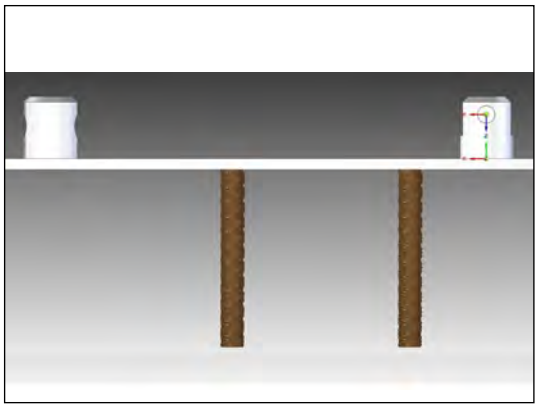
Measurements

The base frame is 368mm long x 50mm wide x 6mm thick

The mounts plus the base measure 41mm in height.

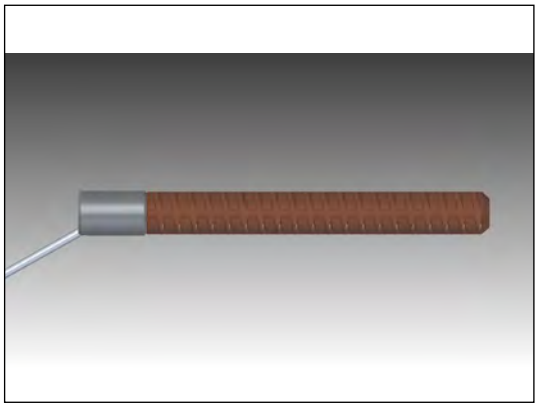
The base anchors are 100mm long x 16mm diameter.

The reference anchor mount is 100mm long x 12mm diameter.



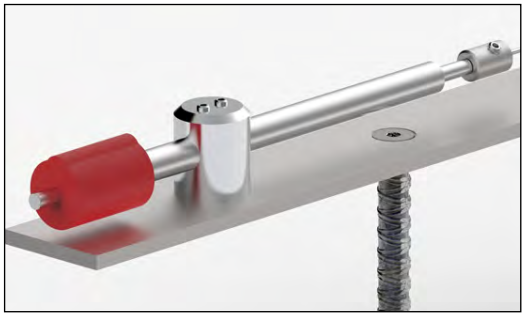
STEP 1

Start the installation by drilling the holes for the 16mm rebar anchors. They are 100mm long and have 100mm centres. If grouting the clearance hole needs to be 20mm to allow sufficient contact. Do not remove the anchors as the frame is best kept complete when installing, this helps to keep all parts in line.



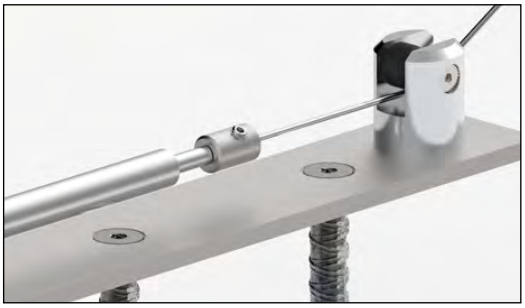
STEP 2

The monitoring point anchor is 12mm rebar x 100mm long and will require a 16mm drilled hole. This should be drilled as close to (in line with) the frame as possible to avoid unintentional cross axial movements.



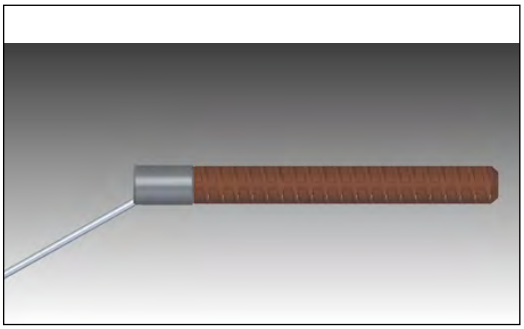
STEP 3

Insert VW displacement gauge through the rear mount. Do not secure yet as this will be done at the end of the install to attain correct tension on steel wire.
When complete the gauge front end should be 50mm plus gauge length away from the front mount



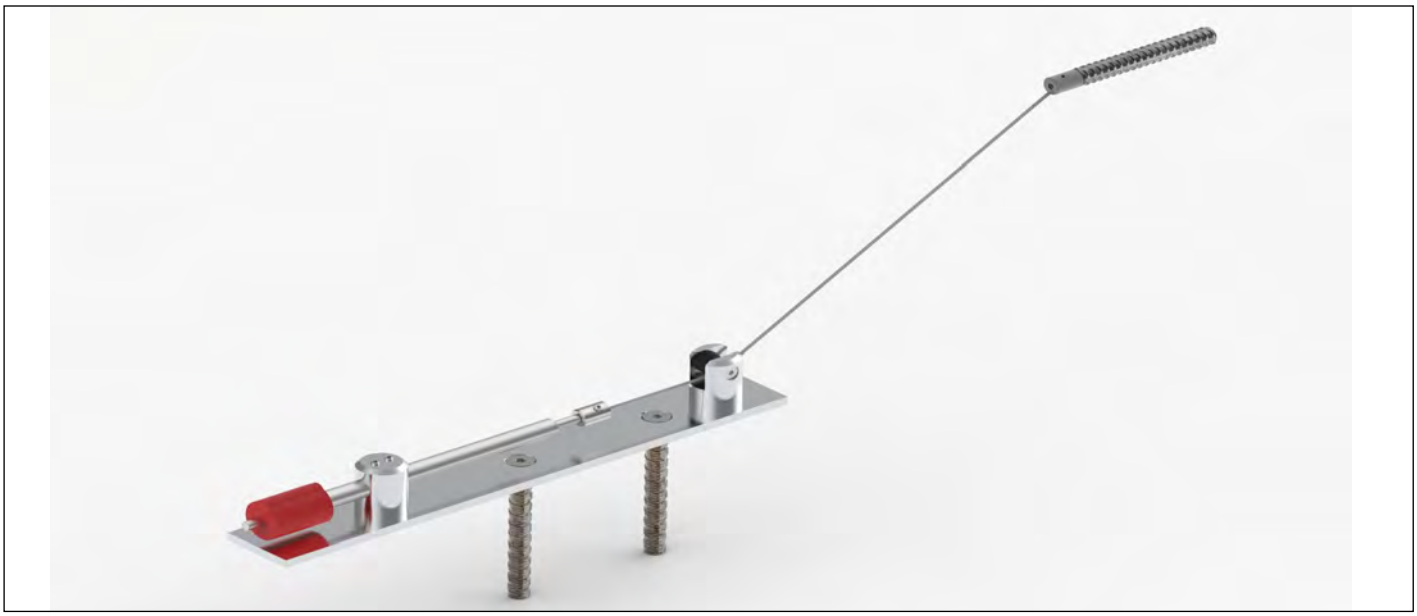
STEP 5

Insert the steel wire into the gauge end wire line adaptor and secure with grub screws provided.



STEP 6

Insert the other end of the wire through the guide wheel in to the wire line adaptor on the reference anchor, pull taught and secure with grub screws provided. Any surplus wire can be cut off at this point



STEP 7

After the wire has been attached at both ends, the gauge can be pulled back to create tension in the wire. When connected to a suitable readout a mid point can be achieved. At this point the two retaining grub screws can be secured
NOTE:
Do not overtighten the two retaining grub screws. Overtightening of the screws can deform the gauge outer tube and prevent the gauge from operating correctly. A firm nip is sufficient

INSTALLATION IS COMPLETE

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