

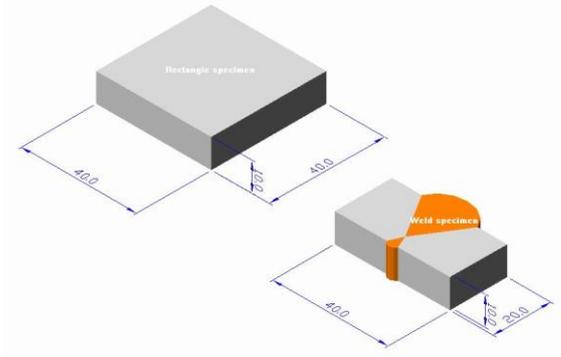
Preparation for testing (By AIS3000)

Prepared by



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1. Confirmation of Specimen condition



-Check the base side condition of specimen.

(To be made an uniform horizontal plane by machine)

Note: Do not work the base side by hands. (Occurrence of Tilting Error)

2. Polishing



- Surface Grinding & Polishing

Width: 15~20mm

Length: (X) mm

Depth: 0.3~2.0mm

* Caution *

Surface Illumination Condition

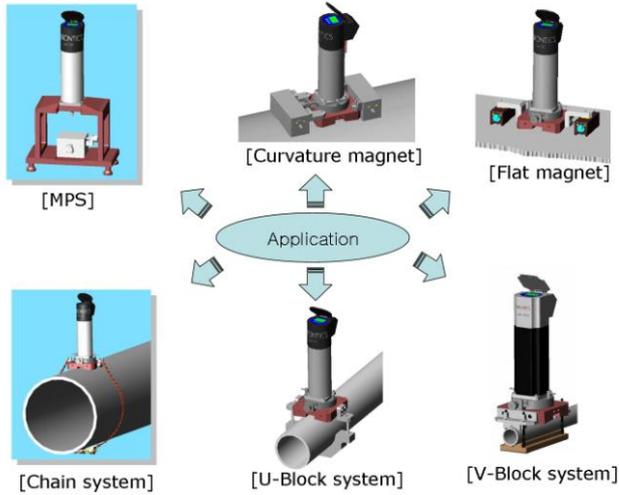
Tensile Property: Gr800

Residual Stress: Gr1000

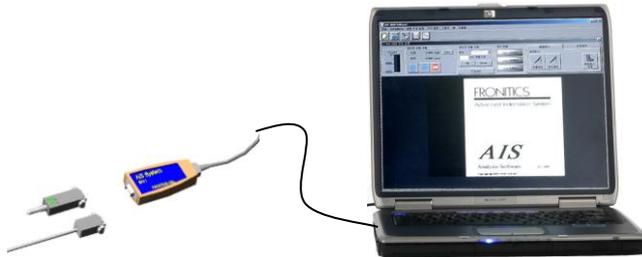
- Remove the surface contaminant perfectly for polishing.

- In case of thin pipe, it can be polished on only surface simply without above process.

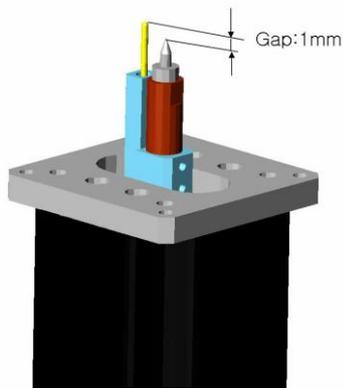
3. Connecting to Instrument



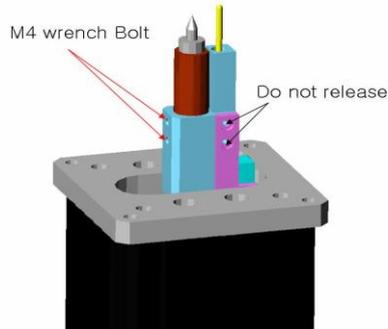
- Please check the attachment part in Manual and Choose & Install the appropriate Attachment Jig. (ex. MPS, magnetic system, U-Block, V-Block etc.)



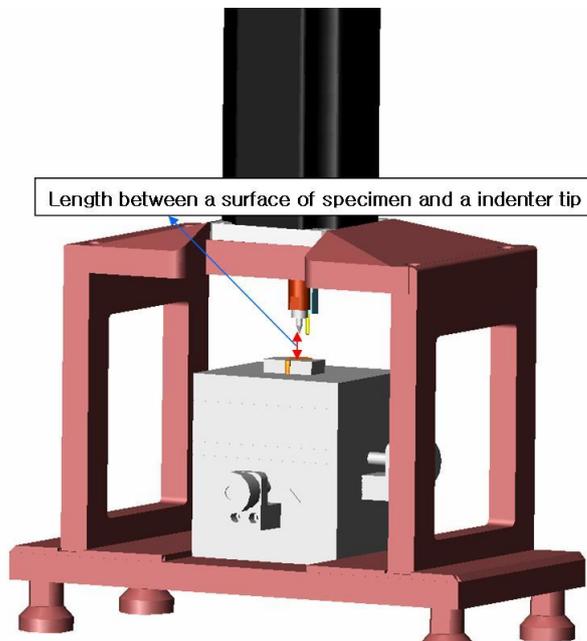
- Turn On the lap-top computer.
- Connect AIS-System with lap-top.



- Please check the Manual and Choose & Install the appropriate Indenter.
- Caution-
● It must be made gap of 1~1.5mm between LVDT Tip and Indenter except special case in order that the displacement sensor contacts with the surface first.



– To adjust height of displacement sensor is to release M4 wrench bolt and to adjust the gap as figure. Do not release other bolts, or it could be out of order.

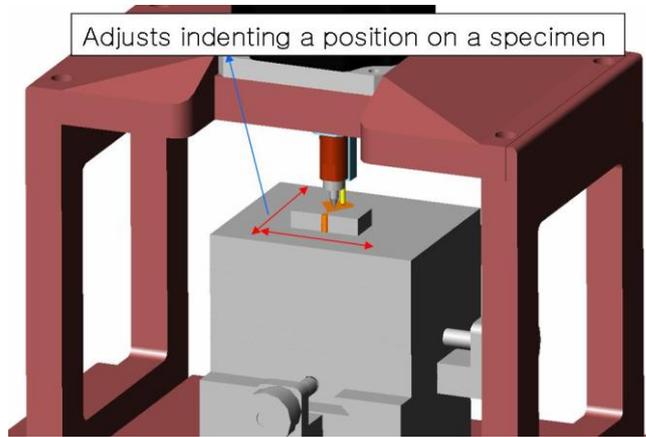


– In case that gap is over 5mm between specimen surface and Indenter, move up to 5mm of the gap under velocity of 20~30mm/min. (To reduce moving time)

– In case that gap is under 5mm between specimen surface and Indenter, change the moving velocity of indenter module in 6~10mm/min manually to surface. But do not contact the surface directly.

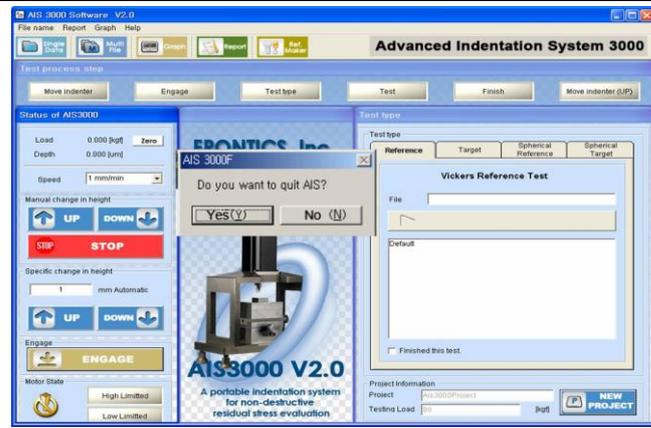
– Please “Engage”, after moving figure of the displacement sensor in indicator slowly.

4. Confirmation of Test

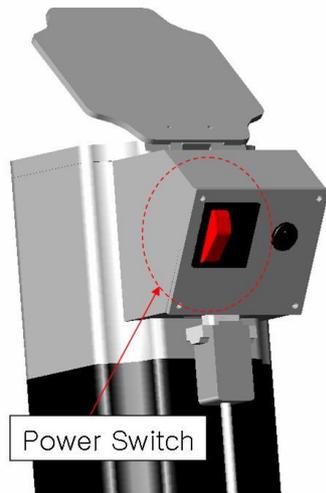


- After testing, the displacement sensor is adjusted upward for next testing and indented point must be changed through adjusting knob of attachment Jig.
- Test the same process above continuously with changing point.
- Check the manual for analysis.

5. Separating after test



- Quit the AIS S/W.



- Turn off the head assembly.



- Separate AIS System from lap-top computer.

- Turn off the lap-top computer.