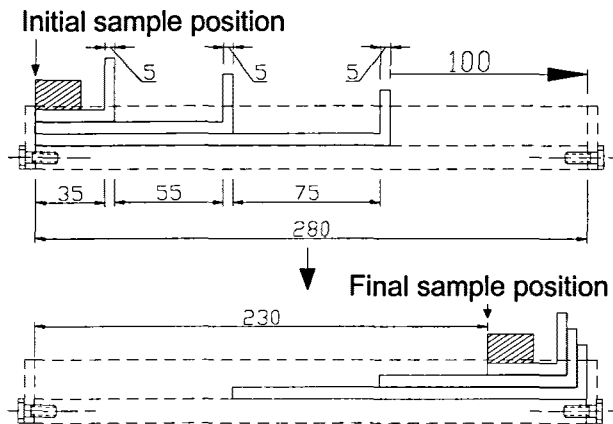


**[S-26]**

**Solving the long-distance-manipulation problem  
using multiple-stroke manipulator**

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In order to increase the efficiency, retain the UHV condition during transfer, and reduce expense, we present a sample transfer system moving the sample longer than the maximum stroke of the manipulator. In this way we can ideally extend the travel length of the sample as much as we want through piling up the moving plates. In the present system, the assisting linear-motion-feedthrough was employed to move the sample from the STM stage to the film evaporation system. The major working mechanism of this design is in the repeated stroke of the assisting linear-motion-feedthrough at the same moving range as shown below. In addition to moving the sample, *in-situ* sample heating can be done through attaching the heating box at the end of the manipulator.



**Moving sequence of the plates\***

\*home page 참조: <http://nano.chonbuk.ac.kr>