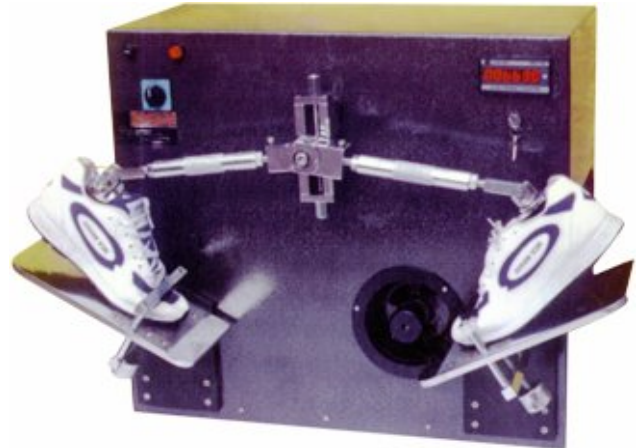


# SHOE FLEX TESTER

The shoe flex tester is used for determination of the ability of the full shoe to withstand the effect of flexing stresses produced on the different parts of the shoe. Although the various parts like uppers and soles of a shoe are tested separately for flexing endurance with the help of flexometer and Ross flex tester, the shoe flex tester gives results which are more related to the actual performance of the shoe as a whole.

The **Unilab Shoe Flex Tester** simulates the effect of actual walking action on the shoe. The test specimen is held rigidly at the toe portion using a suitable toe last and clamp, while the heel portion has a separate last on which the shoe is firmly tied as in actual use.



The upper end of the last has an arrangement to connect a suitable link mechanism. The link mechanism is connected to an eccentric pin on a rotating disc to give the link a to and fro movement. Both the eccentricity of the pin in the disc and the length of the link are adjustable to give various angles of deflection of the shoe with respect to the flat portion of the toe which is rigidly held by the clamp.

Movement to the rotating disc is given by means of a motor and two stage V belt and pulley arrangement. A digital type pre-set counter with key reset and memory backup is provided to record the total number of test cycles, and also to stop the motor on completion of set number of cycles.

The apparatus is finished in shore blue matalic painting and bright chrome plating to give it a corrosion resistant finish.

The standard tester is designed to test one pair of shoes at a time. Special models capable of testing two, four, or six pairs of shoes simultaneously are also available.

## TECHNICAL DATA

Flexing frequency	: 200 cycles/minute
Maximum eccentricity	: 80 mm
Maximum angle of flexing of shoe	: 35°
Number of shoes that can be tested simultaneously	: Two
Motor	: ¼ HP single-phase 230 volts AC
Counter	: Six digit electronic counter

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