

LD-20KN Computerized Universal Testing Machine

LD-20KN The microcomputer-controlled electronic universal testing machine is a new generation of dual-space microcomputer-controlled electronic universal testing machine specially designed for

universities and research institutes. The design of the main machine and auxiliary equipment of the testing machine draws on the advanced technology of Shimadzu, which is beautiful in appearance, easy to operate, and stable and reliable in performance. The computer

system controls the rotation of the servo motor through the Star controller and the speed control system. After deceleration by the deceleration system, the moving beam is driven up and down by the precision screw pair to complete the stretching, compression, bending, and shearing of the sample. Mechanical performance test, pollution-free, low noise, high efficiency, has a very wide speed range and beam moving distance, and is equipped with a wide range of test accessories. In the mechanical performance test of metal, non-metal, composite materials and products, It has a very broad application prospect. This machine is widely used in material inspection and analysis of construction materials, aerospace, machinery manufacturing, wire and cable, rubber and plastics, textiles, home appliances and other industries. It is used by scientific research institutions, universities, industrial and mining enterprises, technical supervision, commodity inspection and arbitration, etc. Ideal test equipment.



The machine adopts a fully digital servo speed control system with high speed regulation accuracy and stable performance and a servo motor as the drive system. The Star controller is the core of the control system. The control and data processing software with WINDOWS as the operation interface realizes the test force and test. The screen display of

peak force, beam displacement, test deformation and test curve, all test operations can be automatically completed on the computer by the mouse. Good humanized design makes the test operation easier. Combining the above technologies, the machine can almost perfectly realize the closed-loop control of test force, deformation, displacement and other parameters. It can realize the control modes of constant stress, constant strain, and constant displacement, and can smoothly switch between various control modes. The machine fully meets the requirements of the national standard GB/T228-2002 "Metal Material Room Temperature Tensile Test Method". At the same time, it can conduct tests and data processing according to GB, ISO, JIS, ASTM, DIN and various standards provided by users, and has a good Extension.

Main Technical Parameter :

Maximum test force	20KN
Testing machine accuracy	Level 1
Test force measurement range	2%-100%
Test force accuracy	Better than $\pm 1\%$
Displacement resolution	0.01mm
Accuracy of displacement measurement	Better than $\pm 1\%$
Test speed range	0.01-500mm/min
Stretching space (without fixture)	600mm
Compressed space	600mm
Column spacing	400mm
Wedge-shaped fixture blessing range	Flat specimen 0-21mm, round specimen $\Phi 4$ -26mm
Host size	720*500*1800mm
Host weight	400Kg
Motor Power	0.75KW
Power supply	220V, 50Hz
working environment	Room temperature—35°C, relative humidity no more than 80%