Load Frame type different: (Page 1-9)

C type:

(1), Middle crosshead moving to adjust test space

Motor and worm gear, worm rod to adjust the crosshead moving up and down.

The lead screws are fixed to the machine seat and never turn during the space adjusting and loading to guarantee the stability of loadframe.
The middle crosshead installed on the two leading screw. The leading screw fixed on the base, no move when the crosshead move to adjust test space, do not move when piston move for loading motor and inner structure (worm gear, worm rod) move the crosshead move along the leading screw.
(2), Loading system (piston move to load on the test sample)

Oil pressure to make the piston up move, then drive two supporting columns and upper crosshead rising, loading of the tensile sample, or compression & bending sample.

During test, the middle crosshead is fixed no movement.
Advantages of C type frame:

1- The middle crosshead is driven by the motor and gear to make it up and down for a suitable test space for tension or compression test.

2- The lead screws are fixed space adjusting and loading.

3- This structure to make the frame more stable, frame more endurable, long time working life, more test result accuracy.
Hydraulic UTM

D type:

(1), Middle crosshead moving to adjust test space

Total six columns, four supporting column, two leading screws.

Chain, gear and motor turn around the leading screw, then drive middle crosshead move to adjust test space.
The movement of lower crosshead is driven by the turning of lead screws, which is driven by chain transmission moved by motor to fulfill the space adjustment. It is the most popular type of UTM and could meet all your daily test requirements easily.

Four supporting columns, two leading screw structures, ensure the high duty tensile and compress test, the frame is robust, endurable and high accuracy.
Hydraulic UTM
(2), Loading system (piston move to load on the test sample)

Oil pressure to make the piston up move, then drive four supporting columns and upper crosshead rising, loading of the tensile sample, or compression & bending sample.

*During test, the middle crosshead is fixed no movement.*
B type: (B type can be treated as a Shortened version of D type).

(1), Middle crosshead moving to adjust test space

Total four columns, two supporting column, two leading screws.

Chain, gear and motor turn around the leading screw, then drive middle crosshead move to adjust test space.
WAW Series is the most advance mode. It is computer controlled servo hydraulic universal testing machine. The space adjusting and test processes could be controlled by our software and the test result could analysis and display on the software in the compute. The whole operation could be controlled by computer.

With high efficiency servo proportional valve, Japan Nachi or Italy Marzocchi brand oil pump.
WEW Series is computer display manual control hydraulic universal testing machine. The force loading is executed by manual turning button (The buttons are connected with hydraulic inlet & outlet valves). The test result could also be display and edited on the software for a further analysis.
**WES Series** is Digital display manual control hydraulic universal testing machine. The force loading is executed by manual turning button (The buttons are connected with hydraulic inlet & outlet valves). With micro printer to print the test result.