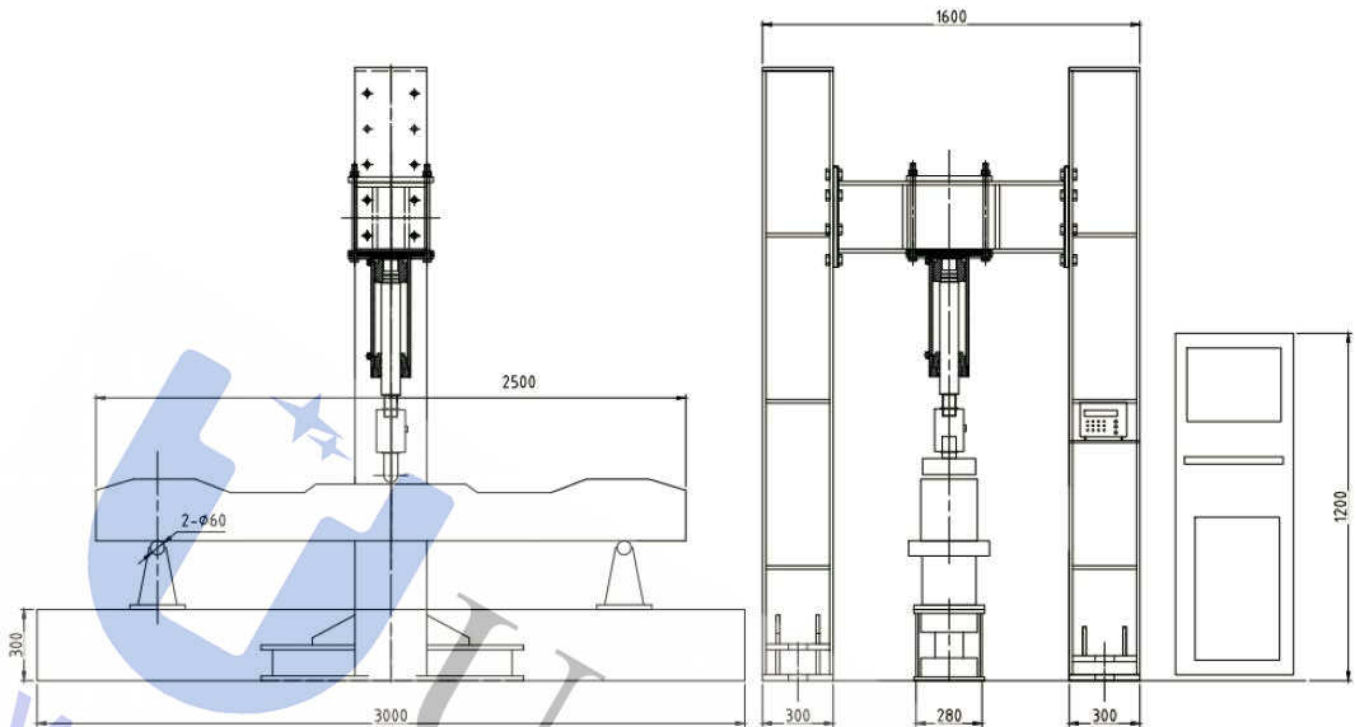


# Computer Control Concrete Sleeper Flexure Testing Machine

Model: CWF-150



## 1, General drawing



## 2, Introduction:

CWF series Flexure Testing Machine mainly used to check the static load bending/flexural test of concrete sleeper, include III type sleeper, cross sleeper, bridge sleeper, wide railway sleeper etc., quickly and accuracy check the flexural strength.

Frame is tower structure, with high stiffness and stability. Add the extra accessories can do bending fatigue test also. With the completely protection system, no splash when sample break.

Conform with international standard of TS 205-1, EN ISO 7438, EN 14730-1, TS EN 13230-2, TS EN 14587-2:2009etc.,

## 3, Testing Procedure:

Sleeper – movable trolley – position ruler adjust the sleeper position – Loading center concentrate with bending fixture center – set test program, piston move down quickly – slowly touch – according setting test speed, constant rate loading – holding the provided load at a certain time – unloading and back to original position (or rising load till the sleeper broken).



#### 4, Main Features

- 1, Consist of Tower frame, movable trolley, movable sliding railway, automatic lifting structure, hydraulic system, measuring and control system.
- 2, Oil cylinder at top side, the position can be adjusted up/down. High function extension, can do fatigue test if need.
- 3, Servo control system, constant speed automatic loading, constant load control, cycle load control.
- 4, Automatic lifting structure, accuracy position.
- 5, Double direction hydraulic cylinder, fast test, fast return.

#### 5, Measuring system

- 1, Computer realtime control and display test process, curve. Curve can free zoom in zoom out.
- 2, Data automatically collection, analysis; automatically calculate and display test result, easy for data storage, report printing, MS excel report function.
- 3, Friendly software interface, powerful edit function, different control mode smoothly switch.
- 4, Load control, load holding, stress, strain, cycle control, self-edit program control etc., multiple test control mode.
- 5, English version software, and English Win7 system.
- 6, After test finish can automatically piston can back to original position.

#### 6, Protection function

Multiple protection functions:

Oil cylinder limitation switch; force over load protection; over voltage, current protection; Specimen break safety protection; test finish automatic protection.

#### 7, Technical specification

Test Load	500KN
Loading accuracy	$\leq \pm 1\%$
Load measuring range	1% - 100% FS
Load resolution	1/300000FS
Loading rate	0~40Kn/s (free setting)
Piston stroke	250mm
Test space	1000mm
Column interval	1000mm
Upper loading span	500mm, 600mm, adjustable
Movable rail	3300x700x150mm /600mm,700mm,800mm, 1500mm , adjustable
Frame dimensions	2400x1600x2200mm
Control cabinet dimensions	900x800x1200mm
Weight	3000Kg
Power	380V, 50HZ, 3 phase