

# Manhole & Gully Cover Compression Testing Machine

## Model: CW-130/160



### 1, General introduction

CW series Compression Testing Machine can determine static compression and dynamic fatigue load performance for manhole covers, well shutters, cover plates, well grates, shutter grates, gully tops used in green belt, tree lawn, sidewalk, pavement, motor way, bicycle lane, parking lots, wharf, airfield runway, highway, citizen zone etc., .

Conform with international standard of **EN 124:1994** **Gully Tops and Manhole Tops for Vehicular and Pedestrian Areas-Design Requirements, Type Testing, Marking, Quality Control**). GB/T 23858:2009, GB/T GB26537-2011 etc.,

### 2, Testing Procedure:

All gully tops and manhole tops will be submitted to the following test:

1, Measure the permanent set of the cover or grates after the application of 2/3 of the stipulated test load (according the Class of the cover and Clearance opening).

Speed 1kn/s ~ 5Kn/s load the force on cover to 2/3 of test load, then release the load, repeat 5 times, check the final reading of residual deformation.

2, Apply the test load on the sample. Keep at least 30 seconds, Observe if there any crack, damage.

### 3, Features

- 1, High stiffness, high stability dual columns frame, with big stiffness to ensure the test accuracy.
- 2, Oil cylinder at topside, large stroke 200mm piston, easy and suitable for various kinds test sample. high speed, high frequency.
- 3, Wide effective test space 1200\*1400mm, easy for sample install and uninstall.
- 4, Movable residual deformation measuring device, suitable for different size.
- 5, Various specification of test blocks, suitable for different size test sample.
- 6, High accuracy load cell to measure the load.
- 7, Overload protection, limitation switch function, Over voltage, over current, emergency stop etc.

#### 4, 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.

#### 5, Main technical specification

Test Load	300KN/600KN
Loading accuracy	$\leq \pm 1\%$
Load measuring range	1% - 100% FS
Load resolution	1/ $\pm 300000$ F.S
Deformation measuring range	350mm
Deformation resolution	0.01mm
Loading speed	0.02%~2%FS/S, free setting
Effective test space (L*W)	1200*1400mm
Compress testing space (Height)	350mm
Steel Test block (Optional)	Dia. 250x40mm; Dia. 150x40mm <i>Other size is available according customer requirement.</i>
	Dia. 75x40mm 250*150*40mm; 250*75*40mm
Piston stroke	200mm
Frame dimensions	1400x1300x1700mm
Power	380V, 50HZ, 3 phase, 2.2Kw.
Weight	2500Kg/3100kg

#### 4, Main accessories

Frame (300KN)	1 set
Servo control system	1 set
Load cell(300KN)	1 set
Displacement sensor	1 pc
Steel test block (Dia. 150x40mm, Dia. 75x40mm 250*150*40mm; 250*75*40mm)	4 sets
Rubber Gasket (Dia. 150x40mm, Dia. 75x40mm 250*150*40mm; 250*75*40mm)	4 sets
Computer (English Win 7)	1 set
Professional test software (English)	1 set
Tools	1 set
Backup CD etc.,	1 set
Documents (Manual, packing list, certificate)	