



东莞中力仪器科技有限公司

ZhongLi Instrument Technology Co., Ltd.

Introduction

Name: ZL-8013 Full-automatic resist bending compression testing machine
300kN/10kN



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Introduction:

ZL-8013 is mainly used for brick, stone, cement, concrete and other building materials, compressive strength test.

Hydraulic System:

The hydraulic oil tank driven by high-pressure pump into the motor oil, flows through the unidirectional valve, high pressure filter, pressure valve, servo valve, into the cylinder. Computer control signals to the servo valve, Control direction and opening of the servo valve, to control the flow into the cylinder, achieve constant test force control.

Control system:

System including digital servo valve, high-precision sensors, controllers and software, high control precision and reliability. Meet GB, ISO, ASTM and other standards for cement, mortar, concrete and other materials testing requirements.

System has the following functions:

- Closed-loop control with force;
- Can achieved constant loading rate or constant stress loading rate;
- Adopt computer for electronic measurement, automatic test;
- Computer automatically calculates the results and print reports.picture 1 picture 2
- Test reports can be to self-design and exported to Excel picture 3

Safety protection device:

When the test force more than 3% of the maximum test force, the overload protection, oil pump motor shut down.

Main performance technical specifications:

Max load KN	300kN/10kN
Test force measuring range KN	4%-100%FS
Test Force showed the relative error	≤indicating value±1%
Test Force Resolution	0.01kN
Hydraulic pump rated pressure	25MPa
Loading rate	0.3KN/S~10KN/S
Error loading speed	±5%
Pump rated flow	1.52L/min

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Upper and lower bearing plate size	φ155mm
Maximum distance between the upper and lower plate	260mm
Piston diameter	φ130mm
Piston stroke	60mm
Motor Power	3 phase 0.75 kW
Outside dimension mm	870×450×1400mm
Weight	450Kg



Picture 1 The main interface

水 泥 胶 砂 抗 压

试件编号:
 试件品种:
 强度等级:
 试件龄期(天):
 试件规格(mm):
 加载速度(kN/s):
 试件块数:
 是否连续加载:

Picture2 Test parameter adjustment chart

序号	试件规格(mm*mm)	试件品种	龄 期	力值(kN)	强度(MPa)
1	40*40	P·I 42.5	28	35.28	14.5
2	40*40	P·I 42.5	28	34.47	13.8
3	40*40	P·I 42.5	28	35.14	14.1
4	40*40	P·I 42.5	28	35.16	14.1
5	40*40	P·I 42.5	28	35.08	14.0
6	40*40	P·I 42.5	28	37.63	15.1
抗压强度		GB/T 17671-1999	有效强度(MPa)	14.6	
序号	试件规格(mm)	龄期(天)	力值(kN)	强度(MPa)	
1	30.0	80.0	1044.5	4.5	
2	30.0	80.0	1048.3	4.3	
3	30.0	80.0	1059.4	4.5	
抗压强度		GB/T 17671-1999	有效强度(MPa)	4.3	

Picture 3 Interface test report

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The CE certificate:

CERTIFICATE

With EU Directive of Machinery Directive (MD 2006/42/EC)
& Low Voltage Directive(LVD 2014/35/EU)

Certificate No.: CE-15-1102-05

Holder: DONGGUAN ZHONGLI INSTRUMENT TECHNOLOGY CO.,LTD.
Room 722, Dongyuan Mansion, No.159 QiFeng Road,
Dongguan city,P.R.C

Product: Computer Universal tensile testing machine

Model(s): ZL-8001 / ZL-8002 /ZL-8003 /ZL-8004 / ZL-8005 /
ZL-8006ABCD/ZL-8007/ZL-8008/ZL-8009/ZL-8010

Standards: EN ISO 12100:2010,
EN 60204-1:2006+AC:2010

Based upon the voluntary assessment of the product sample and Technical Construction File, the apparatus is deemed to meet the requirements of the above standards and EC directives.

The manufacturer has the responsibility for ensuring that all serial manufacture of the products are in compliance with the specification of the sample submitted for assessment and detailed in the technical file.

CE

Date: 11.02.2015

Certification Body
For and on behalf of
EUROSCENE BUSINESS SOLUTIONS CO., LTD

Euroscene Business Solution

The CE marking may be used if all relevant and effective EC directives are complied with.

Euroscene Business Solution Co., Ltd.
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