

KASON CTM306HW-100 Computer Control Compression Testing Machine and bending testing machine



(Picture just for reference)

1. Application

This compression testing machine mainly used for brick, cement, concrete and other material compressive strength testing. Widely used in metallurgy, building materials, space flight and aviation, colleges and universities, R&D institution lines. The test operation and data processing meets standard requirements.

2. Standards:

DIN EN 12390-3, 12504-1, 12390-6, 12390-13, 1338, 206, ASTM C39, C140, C1314, E4, AASHTO T22, DIN EN 12390-5, 1339, 1340, ASTM C78, C293, C469, C496, C1019, C109/C109M

3. Main Specifications

Model	KASON CTM306HW-100
Compression Measurement parameters	
Max compression test force,kN	3000
Load accuracy	± 0.5 %
Load measuring range	4- 100% of F.S
Compressive test force resolution	1/500000
Displacement measurement resolution	0.01mm
Displacement measurement accuracy	≤ ±0.5%
Flexural Measurement parameters	
Max compression test force,kN	100
Load accuracy	± 0.5 %
Load measuring range	4- 100% of F.S
Compressive test force resolution	1/500000
Displacement measurement resolution	0.01mm
Displacement measurement accuracy	≤ ±0.5%
Main parameters of compression	
Distance between columns,mm	500
Upper compression platen,mm	φ 300
Lower compression platen,mm	φ 300
Piston stroke,mm	120
Piston diameter,mm	φ 330
Maximum compression space,mm	190~340(track pad height 150mm)
System pressure,Mpa	35
Maximum piston speed without load, mm/min	35
Main parameters of Flexural	
Distance between columns,mm	500
Width of flexural grip, mm	200
Span of flexural grip, mm	500
Piston stroke,mm	250
Cylinder structure	two-way cylinder
Maximum compression space,mm	260~510
System pressure,Mpa	25
Maximum piston speed without load, mm/min	200
Controls parameter	
Loading rate	0.005%~2%FS/s
Compression displacement control speed, mm/min	0.1~30
Flexural displacement control speed, mm/min	0.1~200

Servo oil source parameters	
System pressure, Mpa	35
Maximum oil pump flow, L/min	4
Oil filter accuracy, μm	10
Servo motor power, kW	2.3
Dimensions	
Main dimensions, mm	1180×600×1880
Source dimension, mm	1200×680×750
Total weight, KG	3500
Total power of supply	3kW/220V

4. Configuration:

Item	QTY	Material
Main frame	1SET	QT500-7, metal mold precision casting
Cylinder	1SET	45# steel, quenching and tempering treatment, high frequency treatment of inner hole
piston	1SET	QT500-7, metal mold precision casting
Self-aligning lower platen	1SET	No. 55 steel, quenched, hardness 55-60HRC
Upper pressure plate	1SET	No. 55 steel, quenched, hardness 55-60HRC
Cushion	3SET	50mm height 3 pieces
Cylinder protective cover	1SET	Steel, sprayed
Security door	1SUITS	Steel, sprayed

Anti-bending Mainframe part

Item	QTY	Remark
Anti-bending single rod two-way cylinder	1 SUIT	Quenching and tempering, electroplating
Lower Three-point bending device	1 SUIT	Width 200mm, diameter 40 mm, span adjustable from 0 to 500mm
Upper Three-point bending device	1 SUIT	Width 200mm, diameter 40 mm
Anti-pressure cylinder protective cover	1SUIT	leather
Spoke type load sensor	1 SUIT	Ningbo "Zhenhai" 10T

Servo oil source part

ITEM	QTY	Remark
35Mpa plunger pump	1 SET	DEZHOU Shenghui
2.3kWAC servo motor	1 SET	Wuxi Xinje
Solenoid directional valve	2 SUITS	Huade Hydraulic, 24V
Cartridge flow control valve	1 SUIT	USA "SUN"
Cartridge pressure reducing valve	1 SUIT	USA "SUN"

Cartridge type relief valve	1 SUIT	USA "SUN"
pressure monitoring instrument	2 SUITS	Shock-resistant type
Precision oil filter	1 PC	5μm
oil pipe	1 SET	High voltage resistance
Servo oil source cabinet	1SET	Fully spray-painted, the operating table is black solid psychological board
Hydraulic oil tank	1 PC	Capacity: 100 liters

Measurement and control electrical part

ITEM	QTY	Remark
External independent controller	1 SET	KASON
Pressure testing machine measurement and control software	1 SET	KASON
Equipment operation monitoring system	1 SET	KASON
External handheld control box	1 SET	KASON
Motion detector	2 PCS	10000 wire
computer	EACH 1 SET	HP (LAPTOP OPTIONAL)

Random accessories part

Item	QTY	Remarks
L-shaped anchor bolt	4 SUITS	With nut
Special tools	1SUIT	Allen wrench, open-end wrench, screwdriver, brush
Spare seal	1SUIT	Combination pad, O-ring



Authentication Certificate of Quality Management System

Registration No.19922Q01072R0S

This is to certify that

Jinan Kason Testing Equipment Co., Ltd.

Unified Social Credit Code: 9137010458994939X0

Registered/Production Address: No. 4715, Jingshi West Road,
Huaiyin District, Jinan City, Shandong Province

Office Address: Room 2-1108, Harmony Square, Huaiyin District, Jinan City

Is in conformity with :

GB/T 19001-2016/ISO 9001:2015

The certificate is valid for the following scope :

Assembly and sales of testing machines

This certificate should be used effectively with the legal requirements of the administrative license, qualification license, compulsory certification, which the certification scope involved.

In the case that the organization regularly receives surveillance assessments, the certificate shall be valid when used together with the Quick Response Code.

Date of Issue: 2022-07-19

Date of Expiry: 2025-07-18

Date of Initial Certification: 2022-07-19

General Manager



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C182-M

China Standard Huaxin (Beijing)
Certification Center Co.,Ltd.



Address of Certification Authority: 5 Floor, YuQuan Building, No.3 Shijingshan Road, Shijingshan District, Beijing Tel: 010-88255986 P.C.: 100049

Note: The detailed information is available on the Certification and Accreditation Administration of the People's Republic of China official website (www.cnca.gov.cn) the authority's website(www.cshcc.cn) and the Quick Response Code on the left.

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