

Computer Servo Compression Test Machine

Brand: JNG

Model: JG-302C



(Photo for reference only)



Product Description

Computer Servo Compression Test Machine is specialized for testing the compression performance of cartons. Generally, suitable for the pressure resistance, deformation, stacking test of corrugated boxes, honeycomb boxes and other packaging. As well it can test the pressure resistance of plastic barrels (edible oil, mineral water), paper barrels, paper boxes, paper cans, and container containers (IBC barrels).

Machine can operate in five ways:

1. Deformation under defined load: Test deformation under defined load of various corrugated cartons and beehive crates
2. Load under defined deformation: Test load under defined deformation of various corrugated cartons and beehive crates
3. Maximum load: test the maximum load of various corrugated cartons and beehive crates
4. Stacking test: stack test of various corrugated cartons and beehive crates
5. Cyclic test: dynamic strain according to strength & stroke

Design Standard

ISO 2872, ISO 2874, SO12048, ISTA (Vertical Compression), ASTM D642, ASTM D4169, TAPPI T804, JIS Z0212

General Specifications

| | |
|-----------------------|--|
| Packaging Dimensions: | (WxDxH) 2330*1700*2450mm |
| Power supply source: | Single-phase, 220V±10%, 50/60Hz (can be appointed) |
| Gross Weight: | 1550kg |

Main Features

❖ Software Features

1. Intelligent configuration such as travel limit protection, overload protection and fault prompt to ensure the user's operation safety.
2. English and Chinese system to meet more customer's needs.
3. The software interface and icons are clear. The real-time display of each test value can monitor the test at any time.
4. It can perform Compression Test and Stacking Test, and can instantly judge the collapse and automatically stop.



5. With a variety of measurement units, both metric and inch systems can be switched.
6. With automatic return function, self-defined test method function and test data operation analysis function.
7. Equipped with Micro-Printer to print the test result.

❖ Software Advantages

1. Clear software interface with obvious icons, can real-time display of each test data and can monitor the test process at any time.
2. Servo motor control system, test speed can be set freely and the deformation can be tested.
3. Multi-purpose - customer can choose compression test or stacking test as per their requirements.
4. Double Ball guide rod design. ultra-high transmission accuracy, smooth operation and high power transmission efficiency. Low failure, long life and low noise.
5. Equipped with many intelligent configurations, such as limit stroke protection, overload protection, and fault prompts to ensure the safety of users' operations.
6. Chinese-English bilingual test system to meet more needs.

Technical Parameters

| Item | Description |
|---|---|
| Max. Force (Choose 1) | 2000kg (20KN) 5000kg (50KN) |
| Load cell | 1 load cell for highest accuracy |
| Motor | Panasonic servo motor w/ DC variable speed drive system, high-precision mechanical ball screw rod |
| Force reading | kgf, lbf, N, KN, T etc |
| Load cell Resolution | 1/250,000 |
| Load Precision | within $\pm 0.5\%$ |
| Effective test area (H*L*W) (Choose 1) | 1300*1000*1000mm 1300*1200*1200mm 1300*1500*1500mm |
| Test speed | 0.01~200mm/min |



| | |
|-----------------|--|
| Software | HD-002-A (Independent R&D) |
| Data display | Load, displacement, speed, loading rate and elapsed time |
| Safety features | E-Stop Over-load protection Upper and lower limit switches Load sensor with automatic retreat |

Software – Independent R&D

Software(connection)

Management Set View Help

0.004 kgf Force 0.000 mm Stroke 0.000 mm Elong. 0.000 Time

Test Standard Force-Time Elong.-time Force-Elong. Stress-Strain Multi-Graph TestResult

Test Standard Holding pressure test (stacking) Edit Standard

Sample Data Holding pressure Delete Sample Edit Sample

| Name | No. | Shape | Gaugel... | Area(m... | Width(mm) | Thicke... | Out.Di... | In.Di... | Property |
|---------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|
| Holding pr... | 2018101 | Rectangle | 150.000 | 4.000 | 20.000 | 0.200 | 0.200 | 0.000 | 0 |

Control Method Stacking (Holding pressure) Edit Method

| Number | Direction | Mode | Value | Switch | Condi... | PauseTime | Zero | Control... | NextProc... | Cycles |
|--------|-----------|----------|--------------|--------|-----------|-----------|---------------|------------|-------------|--------|
| 1 | Compress | FixSpeed | 100.00mm/min | Force> | 30.000kgf | 0.000s | Time to reset | 100 | Next | |
| 2 | Compress | FixForce | 10.000kgf | Time> | 40.000s | 0.000s | No Zero | 100 | End | |

TestResult Holding pressure test Edit Result

| Number | MaxForce(kgf) | Test Time(s) | Test Speed(mm/min) | Holdi... |
|--------|---------------|--------------|--------------------|----------|
| | | | | |

NormalForce NormalStroke

UP STOP DOWN

Zero RETURN

START TEST STOP TEST

Speed control 200.00 mm/min OK

| No | Force | Elong. | Time |
|----|-------|--------|------|
| | | | |

Double-click Curve Manual Del



