



Toyo Seiki Seisaku-sho, Ltd. 5-15-4, Takinogawa, Kita-ku, Tokyo 114-8557, Japan

## No.395 Repeated Vibration Fatigue Tester



Standard model



With optional thermostatic chamber, model TH (heater only)  
(Note: Table for temperature control box is not included)

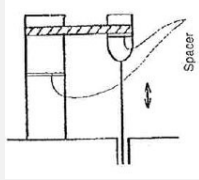


With optional thermostatic chamber, model TL (refrigerator)

### ■ APPLICATION

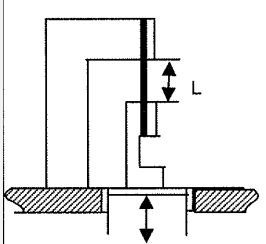
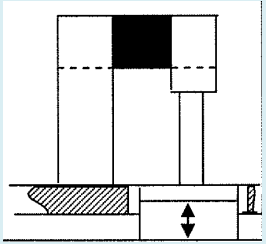
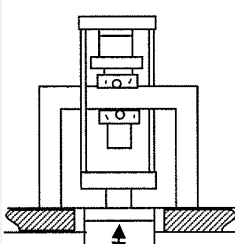
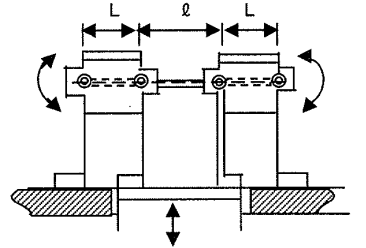
The **Repeated Vibration Fatigue Tester** evaluates fatigue resistance by applying repeated stress to plastic materials while constant load is given by unbalanced mass rotation.

## ■ SPECIFICATIONS

| Model                                    | B20   | B50    | B70    |
|--|---|--------|--------|
| Max. single stroke load<br>(For pulling) | 40kg  | 100kg  | 140kg  |
| Max. repeated load                       | ±20kgf  | ±50kgf | ±70kgf |
| Max. average load<br>(For pulling)       | 20kg  | 50kg   | 70kg   |
| Amplitude speed                          | 1,800cpm  |        |        |
| Max. amplitude of vibration              | ±8mm  |        |        |
| Dial gauge for setting static load       | Total stroke 10mm (1 div. = 0.01mm)   |        |        |
| Counter                                  | 8 digits (unit 1 time)  |        |        |
| Automatic over-amplitude stopper         | Photoelectric switch & micro-switch system  |        |        |
| Drive motor                              | Single phase 100V 200W synchronous motor  |        |        |
| Standard Chuck                           | For Single ended bending fatigue test<br> |        |        |
| Power requirement                        | Single-phase, AC100V, 50Hz or 60Hz, 1.5kVA  |        |        |
| Dimensions                               | Standard model: W730 x D650 x H810mm<br>With model TL chamber: Approx. W2000 x D1000 x H1300mm                              |        |        |
| Weight                                   | Standard model: Approx. 520kg<br>With model TL chamber: Approx. 700kg   |        |        |
| Related standards                        | JIS K 7118, K 7119  |        |        |



## ■ OPTIONS

| Name   | Description  |
|--|--|
| Chuck for tensile, compression fatigue (vertical vibration) test, model TC |    |
| Chuck for horizontal vibration test, model YC                              |    |
| Chuck for compression fatigue test, model CO                               |   |
| Chuck for both ends bending fatigue test, model W                          |    |
| Thermostatic chamber, model TH (Heater only)                               | <p>Temp. range: Room temp. to 150°C<br/>           Temp. control: ON-OFF system, PID control<br/>           Heater: Cartridge heater, 1500W<br/>           Bath inside dimensions: W350 x D250 x H250mm<br/>           Power supply: Single-phase, AC100V, 50Hz or 60Hz<br/>           Power consumption: 2.0kVA</p> |

|  |  |
|--|--|
| Thermostatic chamber, model TL<br>(Refrigerator) | Temp. range: -30°C to 150°C<br>Temp. control: ON-OFF system, PID control<br>Refrigerator: AC200V, 0.75kW, Water cooling<br>Heater: Cartridge heater, 1200W<br>Bath inside dimensions: W340 x D240 x H250mm<br>Power supply: Three-phase, AC200V, 50Hz or 60Hz<br>Power consumption: 5.2kVA<br>Cooling water required flow rate: 10L/min.<br>Cooling water inlet pressure: 0.3~0.7MPa |
| Recorder for amplitude of vibration,<br>model R  | Using LVDT & Recorder<br>Measuring range: Full scale $\pm 1$ , $\pm 2$ , $\pm 5$ , $\pm 10$ mm<br>Recorder: 3 dotting system<br>Chart speed: 25, 50, 100, 300, 600, 1200mm/h<br>Power supply: Single-phase, AC100V, 50Hz or 60Hz<br>Power consumption: 0.1kVA  |

*Specifications are subject to change without notice.*

  
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