



品質、技術、服務

HUNG TA INSTRUMENT CO., LTD.

**Professional Testing Machine for
Bicycle, Bicycle's Parts,
Health Care & Fitness Equipments**



HT-2332
Bike braking & drum
testing machine

Advanced Testing Systems

helping engineers worldwide develop safer,
more reliable materials and components



Company Profile

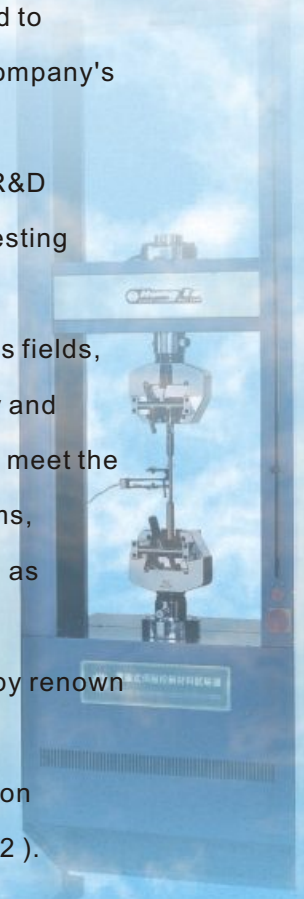
HUNG TA INSTRUMENT CO., LTD., a pioneer in manufacturing quality control instruments, was established in September 1975. our CAD-CAM and R&D center is fully equipped to ensure products of advanced technology, state of art knowhow in order to meet our company's strict policy of reliability, tenacity of purpose and good after sales service.

In order to comply with world wide requirement of quality control management, our R&D department has spared no effort in developing up to 2000 types of various reliable testing instruments.

Our range of testing equipments are suitable for quality control of products of various fields, including rubber, plastic, shoe manufacturing, paper and pulp industries, machinery and hardware, construction industries, automobile parts, electrical wire and cable, They meet the needs of testing products like automobile, motorcycle, rackets, clubs, hardware items, reinforced concrete, bridge, optical fiber, cable, textile, dyeing and finishing, as well as environmental test equipments.

We also represent a number of reputable quality control equipments manufactured by renowned American and European producers.

We are proud to be the only Taiwanese manufacture approved by Taiwan accreditation foundation as an laboratory for inspection and calibration (Calibration cert. No. 0002). furthermore, we issue certificates recognized by the government



***Hung Ta, Taiwan's First Maker
of Precision Testing and
Inspection Equipment***

<http://www.hungta.com>



SINCE 1975 AREA : 4275 M²



HT-8505

HT-8505
Bike material test series

- Suitable to bike's parts and materials, applied to the tests of bike product's tensile, compression & torsion strength of wide application scope.
- This instrument's fabrication has passed the ISO-9000 international quality certification, compliant with the ISO 7500 / 1 EN, 1002-2, BS 1610, DIN 5122, ASTM E4, JIS B7721 / B 7733, CNS 9471 / 9470 & JJG 475-88 test standards to material tester. And we also can follow the international standards listed below :
 - ISO
 - BS / DIN / NF (U.K. / Germany / France)
 - CPSC / CSA (USA / Canada)
 - JIS / JBMS / BA (Japan)
 - AS / NES (Australia / New Zealand)
 - GB / QB / CNS (Mainland / Taiwan)
 - BA Bicycle testing procedure instructions
 - Various test application grips



Feature :

1 High-strength Main Frame structure

The durable steel load frame with 200% loading safety coefficient, high stability, pretty outlook, precise & elegant integrated design and high-class surface coating to bring out the sense of outstanding value.

2 High-quality transmission performance

Precise ball-screw rolling process, cooperated with European-imported deceleration & servo motor to perform accurate & stable control; and with the software configuration, the testers control function can suit the requirement of all relevant tests.

3 High-tech equipment

Multi-purpose single chip indicator can operate, control and save the graphic data by single unit; the resolution is 1/20000, able to expand to four-set of load cells and displacement variable meter; and use single-line transmission to connect computer, use the conversation-type interface to set operation model; the accurate speed control and fine-tuning resolution have provided high-grade control stability.

4 High-level intelligent functions

Intelligence-type operation software, powerful control ability, superior man-machine interface, simple module setting and automatic test ability.

5 Standard fixture module

Standard test fixture connectors of wide variety, the jig module is easy, convenient and quick to change.

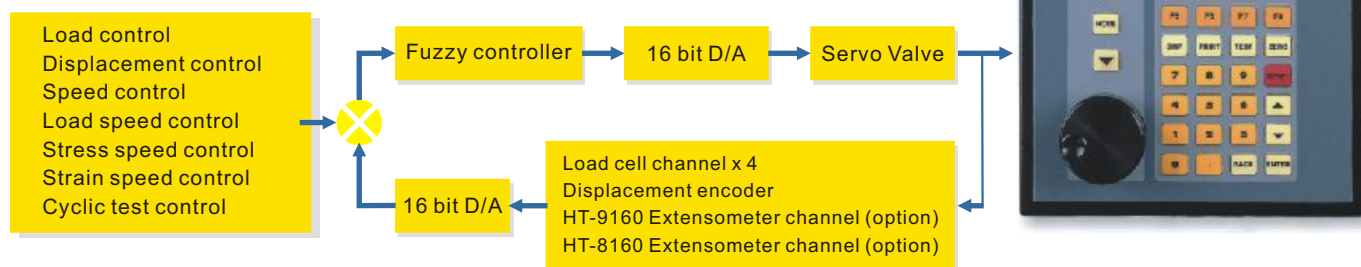
6 High safety design

Have safe security performed by stroke-limit setting, emergent stop control and overload protection setting.

Computer Measuring System - Control & Edit Setting Functions

Intelligently engineered computer control & measuring software.
Improve testing efficiency with powerful control functions.

● CONTROL FUNCTION : BLOCK DIAGRAM



Specification

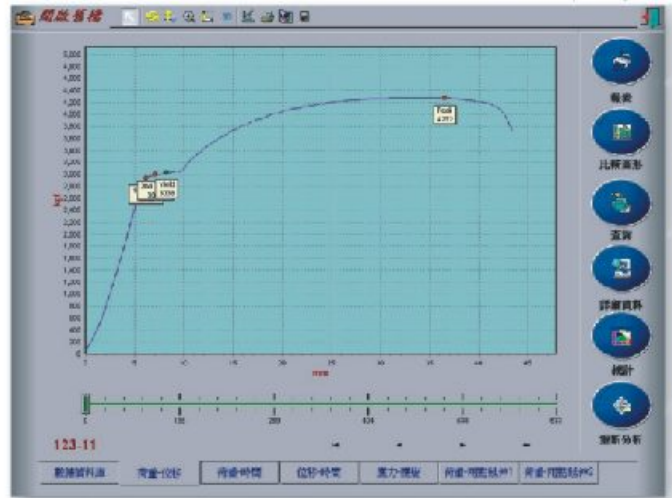
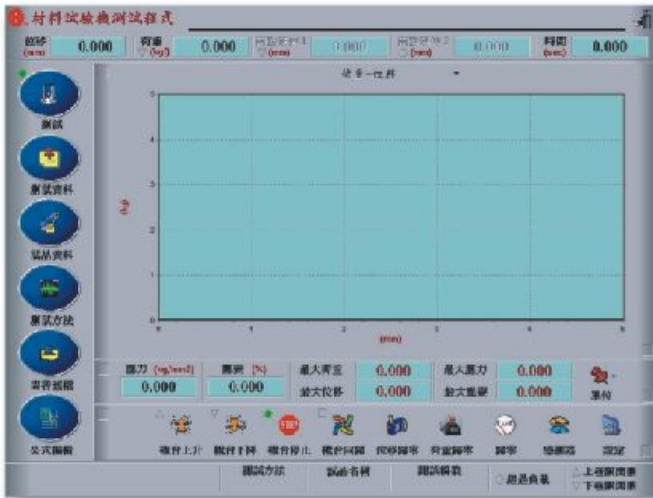
Model		8505WH-50	8505SH-50	8505WH-100	8505SH-100
Load capacity	kgf	5,000		10,000	
	kN	50		100	
Unit conversion	Force	N / kN / g / kg / ton / lb			
	Disp.	mm / cm / inch			
Load disassembling rate		1 / 20,000			
Load accuracy		±0.2 %			
Force amplified ratio		x10% / x20 % / x50% / x100% auto ratio switch			
Test width	mm	1200	700	1200	700
Stroke	mm	1400			
Test stroke	mm	The length of stroke minus the upper/lower fixture and specimen length.			
Test speed range	mm / min	0.5~500			
Displacement disassembling rate	mm	0.01			
Power control		Servo Motor / Servo Driver			
Power		1 φ x 220 VAC 50 / 60 Hz (3 φ x 380 VAC)			
		2.0 kVA		3.0 kVA	
Volume W x D x H	cm	225 x 180 x 230	175 x 180 x 230	225 x 180 x 230	175 x 180 x 230
Weight	kg	1400	1200	1400	1200
Standard attachment		Tool kit set, handbook, calibration report and warranty form			

Optional Fixtures (Option according requirement)

<input type="checkbox"/>	1 Front-fork static test	<input type="checkbox"/>	14 Set strength test of brake holder	<input type="checkbox"/>	27 Locker's endurance test
<input type="checkbox"/>	2 Front-fork energy absorption test	<input type="checkbox"/>	15 Brake cap tensile test	<input type="checkbox"/>	28 Bike's static test
<input type="checkbox"/>	3 Speed gear's cable strength test	<input type="checkbox"/>	16 Pedal-axle's static test	<input type="checkbox"/>	29 Hand-brake's load test
<input type="checkbox"/>	4 Speed gear-cable-sleeve's strength test	<input type="checkbox"/>	17 Vertical-tube's torsion test	<input type="checkbox"/>	30 Frame's static test
<input type="checkbox"/>	5 Wheel's static test	<input type="checkbox"/>	18 Vertical-tube's bending test	<input type="checkbox"/>	31 Frame's energy absorption
<input type="checkbox"/>	6 Wheel-ring's static test	<input type="checkbox"/>	19 Handlebar tube torsion test	<input type="checkbox"/>	32 Crankshaft's static test
<input type="checkbox"/>	7 Chain-wheel's strength test	<input type="checkbox"/>	20 Handlebar tube with front-fork torsion test	<input type="checkbox"/>	33 Handle-holding tape's strength test
<input type="checkbox"/>	8 Gear's static test	<input type="checkbox"/>	21 Handlebar's static test	<input type="checkbox"/>	34 Handlebar-holding tape's pull-off test
<input type="checkbox"/>	9 Five-frames' strength test	<input type="checkbox"/>	22 Aux-handlebar's holding strength test	<input type="checkbox"/>	35 Wire's tensile test
<input type="checkbox"/>	10 Brake-cable's strength test	<input type="checkbox"/>	23 Chain's strength test	<input type="checkbox"/>	36 Back-loading-rack's lateral strength test
<input type="checkbox"/>	11 Brake-cable sleeve's off-load test	<input type="checkbox"/>	24 Saddle's horizontal setting strength test	<input type="checkbox"/>	37 Modulator's crankshaft bolt's strength test
<input type="checkbox"/>	12 Brake-cable-end-sleeve's pull-off test	<input type="checkbox"/>	25 Saddle-tube's static test	<input type="checkbox"/>	38 Steel-ball seat's strength test
<input type="checkbox"/>	13 Brake-caliper shim's static test	<input type="checkbox"/>	26 Saddle's strength test	<input type="checkbox"/>	39 Ball's compression test



Software System



High-intelligence computer system

32-bit Windows 2000 or Windows XP operation system in Chinese & English version, high safety and stability in operation.

Force display transmission system

HT-2010 single-chip transmission system that can disassemble 16-bit, AD converter speed is 25μS.

Control system

Auto-control setting
Abnormal-detection and automatic shutdown system

Graphics displaying ability

1. Have "Auto Scale" function to display graphics by the best suitable scale.
2. Graphic type displayed: load-time chart
3. Zoom in:
 - [1]. can select spot zone in a chart and enlarge it.
 - [2]. Drag: can drag graphic to required location.
 - [3]. Coordinate drag: can enlarge graphic.
4. Graphic printout: can print out the enlarged graphic.

Control ability

1. Lot number table: can print test data in the same lot together.
2. Report table preview ability.
3. Correspond user's demand to edit various reports.
4. Provide the maximum, minimum & mean values in data report

File save ability

1. Display graphics and data.
2. Can zoom in the graphics displayed.
3. Use database to manage the test data.
4. Can change unit applied in existed file .

Software function

1. Bear the "Amplification Auto Range" ability; program would dynamically adjust the signal zoom-in rate along with the load status.
2. 16-bit analog/digital converter, the maximum resolution can be 1/20000.
3. Force unit: provide interchangeable Kg, g, lb, N, kN and Ton units
4. Digit display: can change up to three digits after decimal according to user's setting.

- This tester is suitable to test bike's parts & materials and integrated dynamic fatigue state, the test functions are sufficient, with wide applications, compliant to test standards applied in numerous countries.
- Can follow the test demand selecting single-set type or double-set type of structure module specification
- This tester is manufactured under ISO-9001 quality certification standard.
- The force calibration conforms to ISO 7500/1, EN 1002-2, BS 1610, DIN 5122, ASTM E4, JIS B7721/B7733, CNS 9471/9470 and JJG 475-88. Each test module and test fixture is designed to be flexible enough to meet most relevant national standards listed below

- ISO
- BS / DIN / NF (U.K. / Germany / France)
- CPSC / CSA (USA / Canada)
- JIS / JBMS / BA (Japan)
- AS / NES (Australia / New Zealand)
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- PrEN Mountain bicycle testing procedure instructions
- Various test application grips

HT-2333-1CH



2333-1CH Single-set dynamic testing machine

HT-2333-2CH



2333-2CH Double-set dynamic testing machine

Control system





Specification

MODEL	2333-1CH	2333-2CH
Load capacity	kgf	200 / 500 / 1000 or Optional
	kN	2 / 5 / 10 or Optional
Maximum amplitude	mm	± 100
Control mode	Force control or distance control	
Loading accuracy	± 1% accuracy of calibration	
Force enlarged times	x10%, x20%, x50%, x100% auto rate staged	
Module mechanism	Adjustable in x-, y- and z-direction	
Adjustable test space dimension	x-direction (mm)	2000
	y-dimension (mm)	1200
	z-direction (mm)	300
Displacement sensor	LVDT	
Power/Frequency range	Electric or hydraulic servo system	10 Hz QR40, 25 Hz QR60

Test waveform



Sine

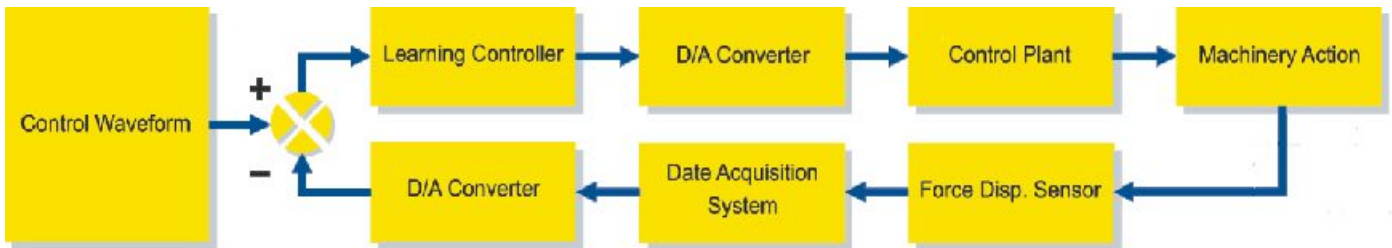


Triangular

Optional gauge selecting items

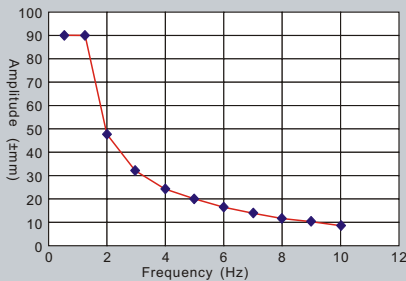
<input type="checkbox"/>	1	Front-fork's horizontal fatigue test
<input type="checkbox"/>	2	Front-fork's vertical fatigue test
<input type="checkbox"/>	3	Front-fork's lateral fatigue test
<input type="checkbox"/>	4	Brake-cable's fatigue test
<input type="checkbox"/>	5	Brake fatigue test
<input type="checkbox"/>	6	Handlebar's fatigue test
<input type="checkbox"/>	7	Saddle's and Saddle-tube's dynamic test
<input type="checkbox"/>	8	Frame's fatigue test
<input type="checkbox"/>	9	Crank's fatigue test
<input type="checkbox"/>	10	Back-load-rack's vertical dynamic test
<input type="checkbox"/>	11	Back-load-rack's lateral dynamic test
<input type="checkbox"/>	12	Foot-column's fatigue test
<input type="checkbox"/>	13	Reflective plate's fatigue test
<input type="checkbox"/>	14	Electric-bike's frame fatigue test
<input type="checkbox"/>	15	Compression gauge (spring)
<input type="checkbox"/>	16	Stretching jig
<input type="checkbox"/>	17	Damper
<input type="checkbox"/>	18	Special-application test (available upon request)

• Servo control / software control function

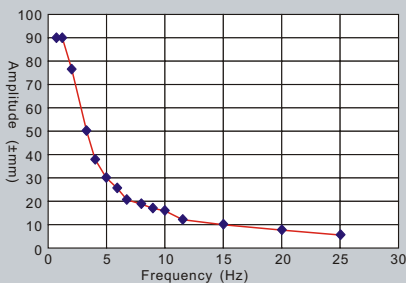


• Amplitude v.s. Frequency Bode Plot

QR-40 arrange in HT-2333-2CH



QR-60 arrange in HT-2333-2CH



QR-40 ~ QR-60 hydraulic servo system (optional)





Hydraulic cooling system

- This tester is suitable to test bike's front-forks dynamic fatigue, tested items include front-fork structure dynamic fatigue test, disk brake structure dynamic fatigue test, brake frames structure dynamic fatigue test.
- This tester is manufactured under ISO 9001 quality certification standard.
- This tester is compliant with the international bike's standards listed below :
 - ISO
 - BS / DIN / NF (U.K. / Germany / France)
 - CPSC / CSA (USA / Canada)
 - JIS / JBMS / BA (Japan)
 - AS / NES (Australia / New Zealand)
 - GB / QB / CNS (Mainland / Taiwan)
- Test fixtures are interchangeable in accordance with standardization method.
- The calibration process conforms to ISO/ IEC 17025 International standard.
- PC / Software Measurement
 - Hung Ta Bicycle Dynamic Test Software
 - Hung Ta Measurement Interface
 - PC Hardware applied with latest system (optional)
- Fixture Options: (special fixtures available upon requests)
 1. Front-fork dynamic fatigue test
 2. Disk brake structure dynamic test
 3. Brake frame structure dynamic fatigue test



Specification

MODEL	2532 FD
Load capacity	200 kgf / 2kN
Maximum amplitude	± 1 %
Maximum frequency	± 100 mm
Loading accuracy	8 Hz / ± 25 mm
Control mode	Force control / Displacement control
Displacement sensor	LVDT
Module mechanism	Adjustable at front/rear sides
Test waveform	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Sine </div> <div style="text-align: center;">  Triangular </div> </div>
Power pack	QR-40
Cooling System	Air / Water Cooling System (Optional)

HT-2332DB

- This tester is suitable to test bike's running-in test & brake performance test; designed to meet to the national test specs listed below. The tester is formed by two rollers with varied diameter and follows spec to install jump plates at bike's seat tube, stepper, handle and load rack, with load set to this tester.

After adjusting the distance according to bike's actual dimension, constantly rotate the wheels by 7~24 km/hr and the bike is supposed to maintain its normal function, no partial damage or crack is found.

For brake test, follow the spec-specified roller's friction coefficient, wind speed, ride-way stop and water-spray amount of loaded brake holding handle to test the performance and evaluate the bike's performance under the defined frequency.

And we also can follow the international standards listed below to use the respective bike fixture module :

- ISO
- BS / DIN / NF (U.K. / Germany / France)
- CPSC / CSA (USA / Canada)
- JIS / JBMS / BA (Japan)
- AS / NES (Australia / New Zealand)
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- PrEN Mountain bicycle testing procedure instructions
- The various test application grips.



Specification

MODEL	2332 DB	2332 D	2332 B
Adjustable range between front & rear wheels	Brake run test		Run test
(mm)	660 ~ 1200		Brake test
Diameter (mm)	φ 760		
Counter setting	Jump block amount & combination phase 3 blocks x 120 phase (4 blocks x 90° phase is optional)		
RPM (km/hr)	MAX 30 can be interchangeable with Spec.		
Power	Servomotor + deceleration + clutch	AC deceleration motor + speed regulation	AC deceleration motor + speed regulation
Crankshaft	7—24 km/hr		
Counter weight	Saddle tube (kg)	36	
	Pedal (kg)	18	
	Handlebar (kg)	6.75	
	Load frame (kg)	10, 18 or 25 according to load frame type, 240x240 in area (adding assembly type)	
	Head pipe (kg)	14	
Action force to brake handle	MAX 180N (30N for one stage)		MAX 180N (30N for one stage)
Water-spray amount	ml /s MAX 4 ml/s		MAX 4 ml/s
Friction coefficient	≥ 0.5 ≤ 1		≥ 0.5 ≤ 1
Braking force	Sensitivity (kgf)	200 load cells	
	Resolution	1/20000	
	Accuracy	+1%	
Power	3 φ x 220v x 50Hz / 60Hz (3 φ x 380V is optional)		
Electricity consumpt	kVA	4	2
Volumn WxHxD	Main body (cm)	260x240x80	260x240x80
	Control (cm)	260x80x100	40x50x30
Standard attachment	One tool kit set, one handbook, one warranty form and one certificate		

● **Test procedure :**

Set bike's wheel hub or peddle at the shaft of wood instrument and exert load & select suitable rpm according to respective test spec, to evaluate if the specimen is failure or fracture to ensure the product quality.
 And we also can follow the international standards listed below to use the bike jig / fixture module.

- ISO
- BS / DIN / NF (U.K. / Germany / France)
- CPSC / CSA (USA / Canada)
- JIS / JBMS / BA (Japan)
- AS / NES (Australia / New Zealand)
- GB / QB / CNS (Mainland / Taiwan)
- The various test application grips.



HT-2334
 Bike's wheel hub or stepper wear-out tester series

Specification

MODEL	2334A	2334B	2334C
RPM	250	80	250 / 80
Counter setting	Six-digit setting to stop automatically		
Counter(each)	Optional	Optional	Perform separate 4-set failure-stop
Specimen Qty	2 set	2 set	2 set
Counter	None	199hr	199hr
Counterpoise	20 kg x 5 / 10 kg x 2	20 kg x 3 / 10 kg x 2	20 kg x 3 / 10 kg x 2
Jig	Front wheel hub x 2 / back wheel hub x 2 Stepper: W5/6 9/26		All
Attachment	Reporter, handbook, tool & warranty form		
2334A is the model exclusively for wheel hub test 2334B is the model exclusively for pedal test 2334C is the model applied for both wheel hub and pedal			

- Suitable to perform the impact test of bike's parts or assemblies, including the vertical drop-hammer impact tests toward front-fork, front-fork frame assembly's drop-hammer, drop-down impact toward front-fork frame assembly, x-, y- & diagonal drop-hammer impact toward peddle, impact test toward handlebar assembly, and vertical impact toward crankshaft. The tester is based on modular design and is designed flexible enough to meet the national spec requirement, safe and user friendly operation system.

- The instrument also conforms to the standards listed below:

- ISO
- BS / DIN / NF (U.K. / Germany / France)
- CPSC / CSA (USA / Canada)
- JIS / JBMS / BA (Japan)
- AS / NES (Australia / New Zealand)
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HT-8085 Series
 Bike multi - functional impact test

Specification

MODEL	8085
Impact height (mm)	MAX 1500 (optional)
Elevation scale (mm)	Can follow the mold & specimen height to adjust datum indication.
Impacting weight (kg)	Interchangeable module within 5kg~40k, equipped according to test requirement.
Impacting mechanism	Bench area (W x H) 60cm x180 cm (Completed bike) 60 cm x 60 cm (part)
	Escalating guider Apply linear bearing +SUJ axle guider, minimum friction coefficient obtained.
	Trigger shock hammer Apply mechanical pin-type EM clutch device to avoid falling with double security system. Safe & Endurable.
Impact hammer module	Impact hammer is changeable in accordance with Test Standard, Convenient & economic in application.
Operation/ control system	Adjustable control box Can adjust height and operation setting angle.
	Control box Twin-key trigger to make secured protection.
Escalation limiting device	Including the highest & lowest limit switches and location setting.
Structure	Security board well painted. Flexible module combination with double-T fixture board.
Jig selection	1. Front-fork drop-hammer jig. 2. Front-fork bike frame assembly's drop-hammer jig. 3. front-fork bike frame assembly drop-down jig. 4. bike axle jig. 5. Peddle, x-, y- and diagonal jig. 6. Handlebar assembly device. 7. Vertical & horizontal fixture for crank
Power (Hz)	3-phase, 220V, 50/60 Hz or specified.
Outer dimension (WxDxH) (cm)	100 x 180 x 240 / 100 x 60 x 240
Weight (kg)	160

※ Indicate the Impact Velocity (Optional)



- Use this tester to test the electrical-driven and hand-driven wheel chair under simulated run status. The tester is designed flexible enough to meet the national standard. Impacted block, conforms to ISO 7176 spec, is 400mm. One set of magnetic brake can simulate ramp control.

- Drill a block-fixing hole at 90° of each roller.
- Embossed the roller's surface with flower design.
- Drive the roller with chain.
- Perform anti-corrosion process on roller's surface.
- The distance between the center of each roll pair is 395~1100 mm which is adjustable. (or specified one).
- Use fast hand-wheel module to adjust the distance between the center of each roll pair.
- Six-digit electronic counter (one set).
- Structure-failure-shutdown sensor (two set).
- Motor rpm meter (one set)
- Electronic timer (one set)
- EM clutch (one set)
- Test Module: Conforms to ISO7176-11
- Security Devices: 1. Emergent stop switch 2. Overflow current auto-shutdown system
3. Auto-shutdown sensor when the installed specimen position is offset.
- One set of magnetic brake, able to simulate ramp control. The operated degree is within 0°~15°



Specification

MODEL	2388
Roller wheel diameter	ø250 mm x 2 set
Roller wheel length	1000 mm
Test velocity	1.0 ± 0.1 m/s
Test rpm	rollers can reach up to 1.0±0.1 m/s mean within 10 cycles.
Holding Structure	Assembled with extruded aluminum frame
Test Module	Conforms to ISO7176-11
Weight	50 kg 、 75 kg 、 100 kg rear 、 base 、 sit
	25 kg rear 、 sit

- Use this tester to evaluate the Run-exercise Machine endurance to the Drop-hammer.

- Six-digit counter (one set).
- Electronic thermal controller (one set).
- Thermal sensor bar (one set)
- Temperature recorder (one set).
- Safety protection device: emergent stop switch and overload protection device.



HT-2389

**HT-2389
Drop-hammer Endurance Tester
for the Run-exercise Machine**

Specification

MODEL	2389
Tester's base board dimension	Apx. 1000 mm ×1800 mm (or by customer-specified)
Tester's tire	155 / 13 Pressure 15 bar
Impacted weight	125 kg increased by counterpoises
Test position	Can adjust the test position by 200 mm horizontally and vertically
Drop height	Maximum drop height is 100 mm (adjustable).
Impact frequency	The fastest impact frequency is 60 times/minute (adjustable)



- Use this tester to perform the following tests :
 1. Temperature-increasing test
 2. Braking torque test
 3. Long-term variable load test (speed-relevant physical exercise bike)
 4. Variation state of intermitted test (speed-relevant physical exercise bike)
 5. Power test

- Equipment :
 - ◆ One set of transmission motor.
 - ◆ One set of operation tool kit.
 - ◆ One set of computer hardware & software.
 - ◆ The main functions of WINDOWS-version software are:
 1. Display and print test charts generated.
 2. Can input test procedure and perform test run automatically.
 3. Display and print temperature, time, RPM, torque and power output data.
 4. Save test data

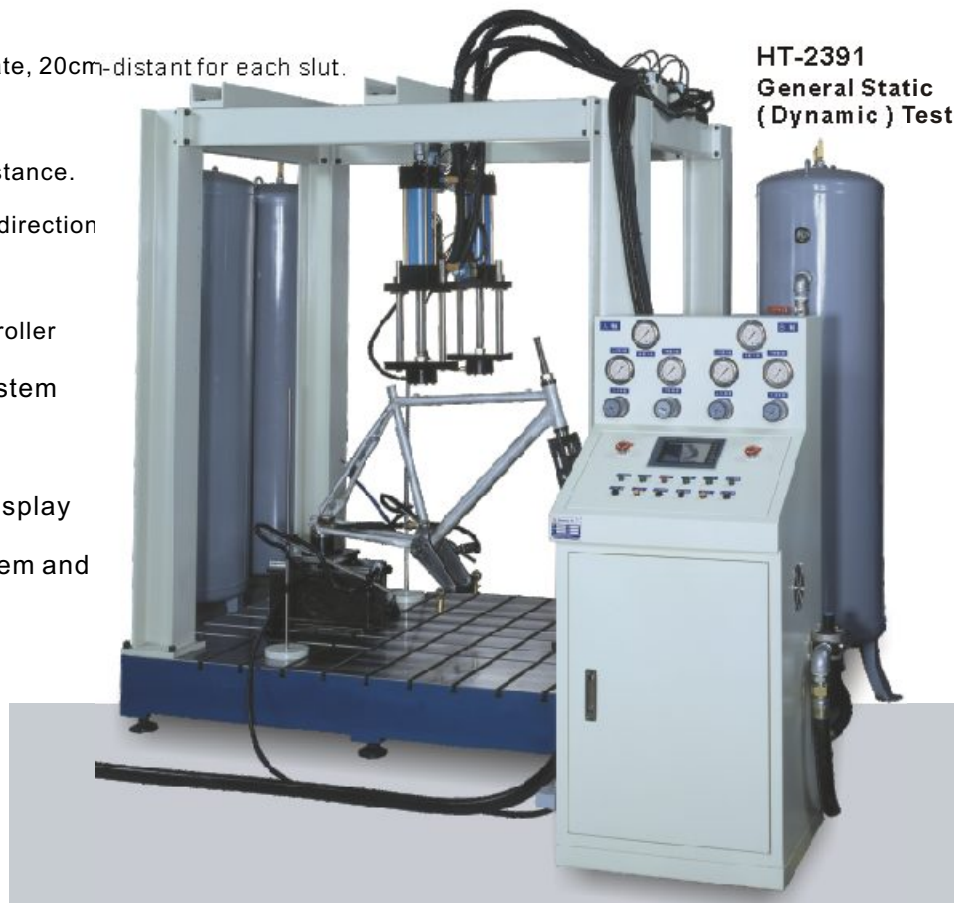


Specification

MODEL	2390
Fixed test bench	1500 mm × 600 mm or by customer-specified.
Range of x- and y-direction adjustable space	200mm (x-direction), 300mm (y-direction) or by customer-specified.
Torque sensor	100 N-m (10 kg - M)
Test power	500 W maximum
RPM	130 R.P.M maximum
Temperature measurement	above 100°C
Suitable motor-driven type	Bolt-type 5-core spindle : M8 × 1.0 mm 、 5/16" × 22 TPI 、 5/16" × 26 TPI Nut-type 5-core spindle M10 × 1.25 、 M10 × 1.0 mm

- You can use this tester to test the handle load, side handrail/front handle load, stepper platform load, stability, self-load, hold-handle, handrail's upward force & download force, inclined test and other relevant static & dynamic tests on bike parts, indoor physical exercise bike, foot-run device, wheel-chair/foot-for transportation device and ellipse machine, etc.
- This tester is produced according to the design standards defined in ISO 4210, EN-957-5, EN-957-6 EN-957-9, ISO 4210 and ISO 7276-8

- T-slut machining on Test bottom-plate, 20cm-distant for each slut.
- Use metal tubes to build the bench.
- Manually adjust the test cylinder distance.
- Manually adjust the x-direction & y-direction movement of transverse beam.
- One set of PLC programmable controller
- One set of pneumatic control system
- One set of electrical control box
- One set of operation interface display
- Buyer provides test-use air system and air reservoir.



**HT-2391
General Static
(Dynamic) Tester**

HT-2391

Specification

MODEL	2391
Test cylinder	Two sets (or specified amount)
Test frequency	Maximum 5 Hz
Maximum output	200 kg (or specified)
Testing accuracy	± 10 %
Cylinder diameter	80 mm (or specified)
Cylinder stroke	300 mm
Interior height	220 cm
Test bottom-plate	200 × 180 cm (or specified)
Force sensors	Two sets of 500 kg



品質、技術、服務

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