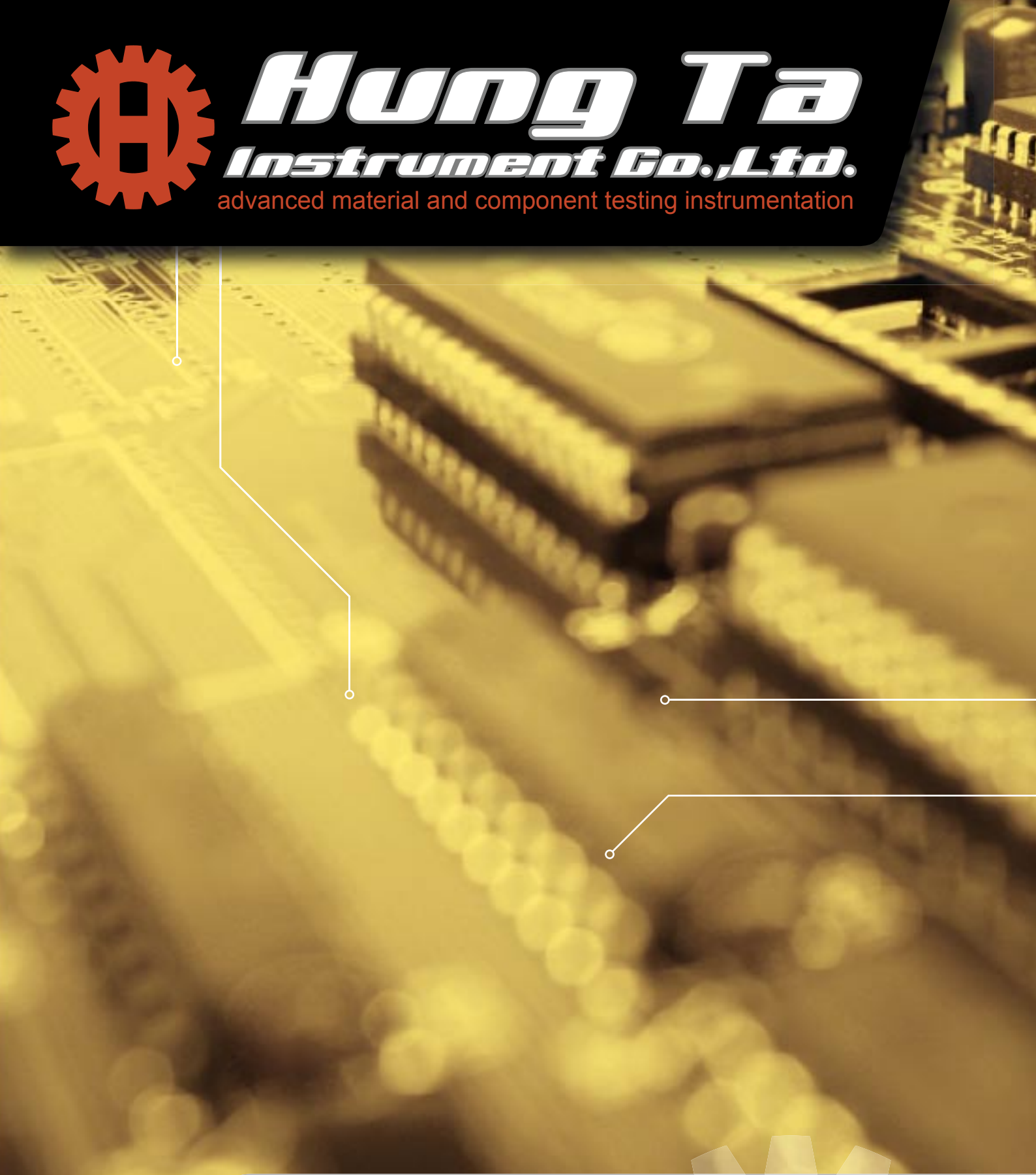
Hung Ta Instrument Co.,Ltd.

advanced material and component testing instrumentation



Advanced Testing Systems

helping engineers worldwide develop safer, more reliable materials and components

HUNG TA INSTRUMENT CO., LTD., a pioneer in manufacturing quality control instruments, was established in August, 1975. With a corporate philosophy based on the principles of quality, technology and service, **HUNG TA** devotes a great deal of energy, effort, and R&D resources to create the best testing devices tailored for each field.

Our CAD-CAM and R&D center is fully equipped to ensure products with the most advanced technology, while maintaining affordability. **HUNG TA** has a state-of-the-art engineering department, with the know-how and ability to meet the high company standards for product reliability, innovation, and good after sales service.

In order to help our clients comply with global requirements of quality control management, the **HUNG TA** R&D department has spared no effort in developing over 1000 types of testing instruments applicable for a wide range of industries. Besides, some more new products like CCL laser thickness measurement system, CCD image inspection and defect-detection, size inspection and measurement system are all developed and listed in our range.

Societies around the world are becoming ever more complex. The demands on the infrastructure, and physical components of daily life increase yearly. Thus the need for highly accurate, thorough materials testing is growing.

HUNG TA is proud to offer new generations of universal testing machine that gives highly advanced features, excellent design, long life and affordability.

All **HUNG TA** testing machines are designed with the end users in mind. Not only are these machines a cost effective solution to the testing needs of modern industrial manufacturers, but they've also been designed with plenty of time-saving, and easy-of-use features. The powerful function and applications of automated control programs allow many standard tasks to be performed without the interaction of a technician, saving hours of labor costs.

HUNG TA is proud to have our force calibration laboratory approved by the CNLA (Chinese National Laboratory Accreditation). Certificates issued by Hung Ta are recognized by the government.

HUNG TA is also an authorized agent for a number of reputable American and European quality control equipment manufacturers.

We welcome you to call, write, email, or visit us for more information.

Product and Industrial Applications for HUNG TA testing machines

bridge construction materials
paper and pulp industries
machinery and hardware
sports rackets and clubs
motorcycle components
electrical wire and cable
construction industries
dyeing and finishing
shoe manufacturing
reinforced concrete
auto components
hardware items
optical fiber
textiles
rubber
plastic
cable

Force calibration laboratory approved
by the CNLA, ISO/IEC 17025 (1999)

Quality management System. ISO-9001 certified,
certificate no. Q10161

Golden Elephant Prize
(Quality Control Instrumentation Award)

1975 Established in Taichung City, Taiwan
1979 Moved to Taichung Industrial Park.
New plant space: 4275 square meters.
Won qualification as the first material testing machine manufacturing corporation in Taiwan, according to metrological regulations of National Bureau of Standard
Taipei Office established
Kaohsiung Office established
Foreign Trade Department established in Taichung
1982 Hong Kong Office established
1986 Thailand Office established
1989 The first firm to receive accreditation of CNLA force calibration laboratory (Chinese National Laboratory Accreditation)
1991 Won Golden Elephant Prize (Quality Control Instrumentation Award) in Bangkok
1992 Joint development & research with Center for Measurement Standards for making High Accuracy Standard Dead-Weight Calibrating Machine 50,000 kgf
Malaysia Office established
1994 Manufactured for the Center for Measurement Standards 50,000 kgs/5,000 kgs Transverse Type Standard Dead-Weight Calibrating Machine
Second plant established
1995 Secured registration of Automation Service Organization, Industrial Development Bureau, Ministry of Economic Affairs
1996 Won quality control management certified by ISO9001
1997 Won Taiwanese patent for Dynamic Testing Machine
Won Taiwanese patent for Multi - Functional Structure Testing Machine
Xiamen Office established
1999 Dongguan Office established
Shanghai Office established
Environment Engineering Department established
2001 Hung Ta Group formed
2002 Main plant expansion (located at the head office Taichung, Taiwan)
2004 Vietnam Office established
2005 Passed CE certification

Accuracy certifications

The accuracy and precision attained by **HUNG TA** testing machines conforms to the requirements of international standards.

ASTM E4	GB16491-1995
BS1610	ISO 7500/1
CNS 9471/9470	JIS B7721/B7733
DIN5122	JJG139-1999
EN10002-2	

Hung Ta Instrument Co., Ltd. has designed a range of testing machines with the features and design of a top of the line machine, while maintaining the affordability you've come to expect from HUNG TA.

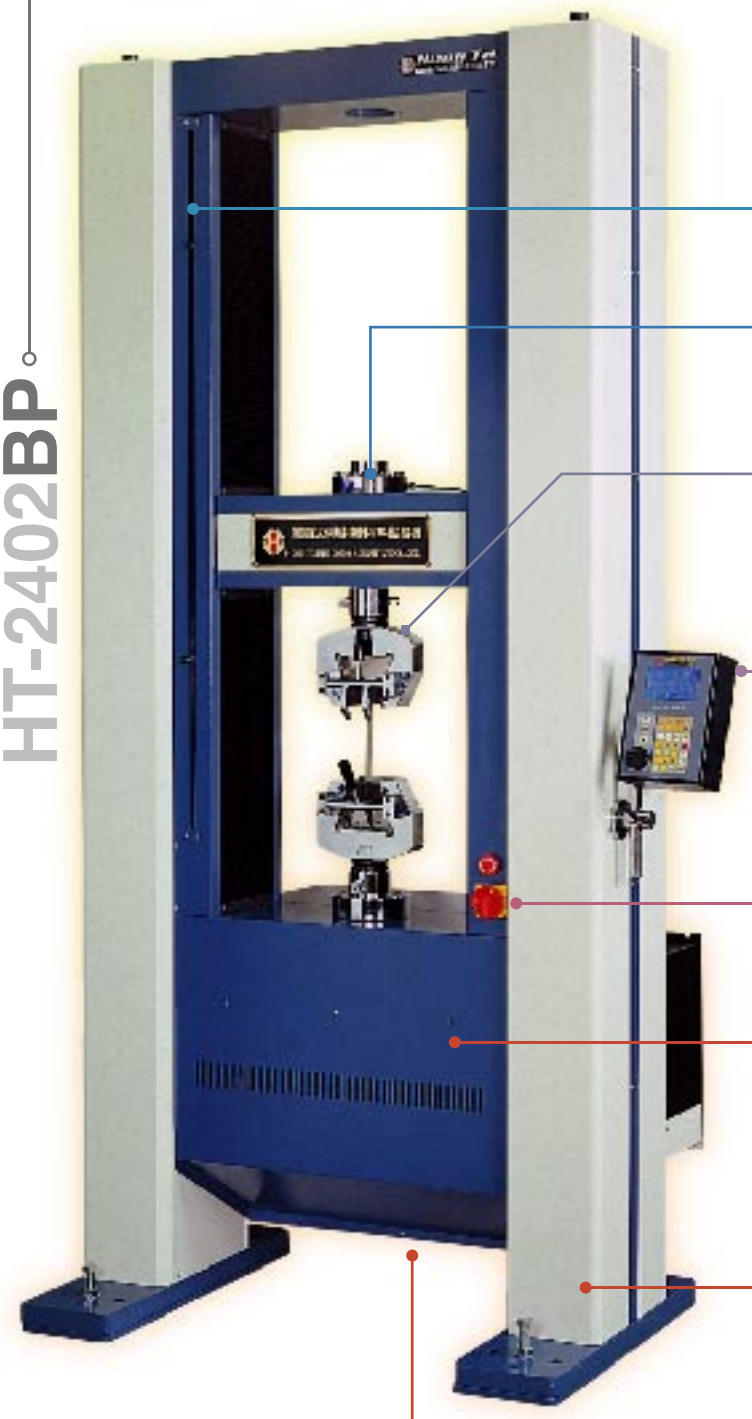
After sales service, technical support, and complete technical documentation - we've all the bases covered.

HT-2402BP

Computer Servo Control Material Testing Machine
Console Control System

High precision, high accuracy, high stability material testing machine
ISO9001 certified, superior products fabricated by highly trained and experienced personnel

HT-2402BP



Over-travel, over-load safety protection
Built-in over-travel limitation setup and overload safety protection functions.

High precision load cell
Features a low-profile load cell, with stable load induction, high accuracy, high stability, and a safety factor of 150%

Standardized, modular & interchangeable design
Can be used with a range of testing grips suitable for tensile, compression, bending, peeling tests, and more. Switch grips easily for different testing samples.

Intelligent Control and Display Unit
Superior function, system-on-chip control indicator, available to control and display data alone. Resolution 1/20,000 Available to extend the connection up to four sets of load cell, or LVDT Conversation type setting and accurate fine tuning speed control. Single line transmission online with computer system

Safety protector
Designed with human engineering and safety in mind, the emergency stop button is located in the easiest access area possible.

Economic use of space with high efficiency transmission design
Console interior apparatus
High efficiency transmission mechanism and control system
Integral measuring & acquisition system, saving structural space
Easy to access controls

Beautiful modeling & high strength structure
Rigid, stable structure with four lead columns
With large, attractive external cover
Dual-color painting, state-of-the-art design

Comfortable operating space
Plenty of leg room at the bottom of the console, comfortable and convenient when operating from a sitting position

Computer Measuring System – Control & Edit Setting Functions

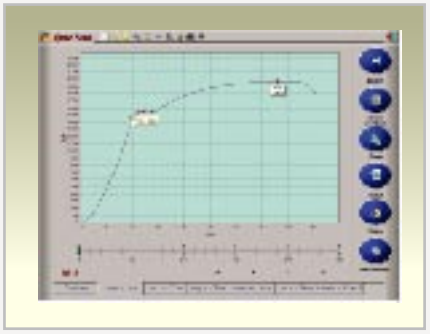
Intelligently engineered computer control & measuring software.
Improve testing efficiency with powerful control functions.

Basic control mode
Basic control mode contains fixed velocity, fixed displacement, constant load speed, fixed load, constant stress speed, constant strain speed

Free control mode
Free control mode switching, contains displacement >=, displacement <=, load >=, load <=, yield point, break point, stress >=, stress <=, stress >=, stress <=.

Additional Settings and modes
Available to freely set up cyclic mode
Define cyclic times
Conduct the next stage of control mode after the preset cycle is up
Mode set up for tensile and compression
Control mode database management, available to repeat editing and setting.
Control mode can cover most international test standards like GB, CNS, ASTM, ISO, DIN, JIS, and so on
Low frequency testing


Main menu


Test graph


Report editor


Options

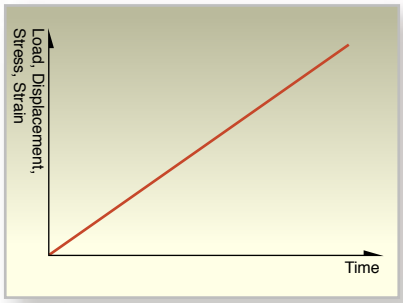

Control Editor


Specimens

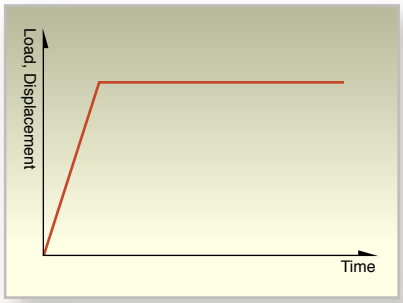
Computer Measuring System – Operation Software Control Mode Functions

A variety of powerful test operation software is available, meeting major test requirements

STANDARD CONTROL MODES



No. 1



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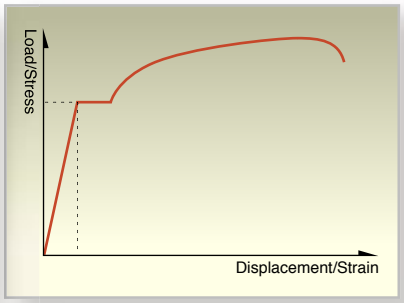
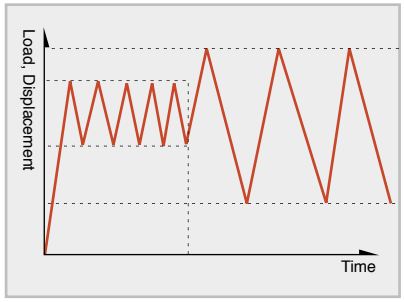


No. 3

SPECIAL CONTROL MODES : (for HT-2402BP only) (optional upon extra costs)

No. 4



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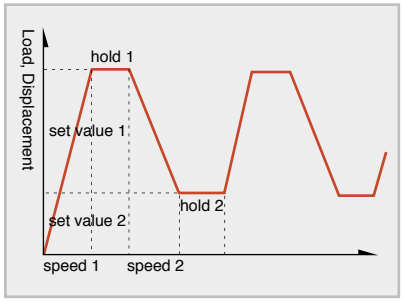

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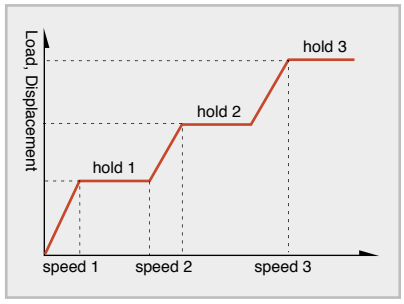

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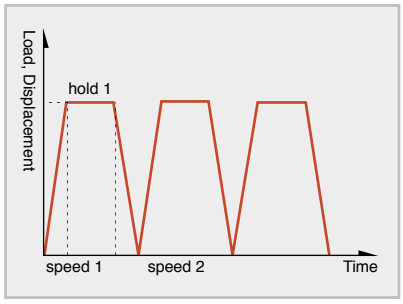
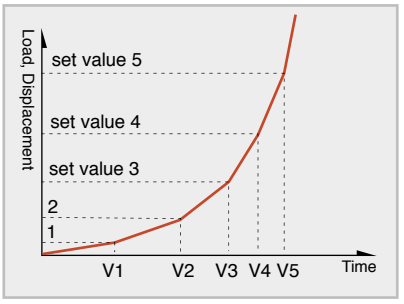


cyclic modulus **No. 8**



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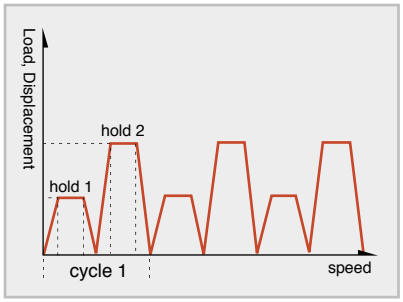

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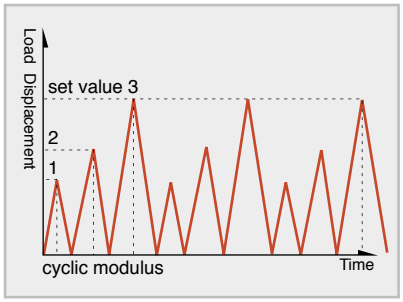
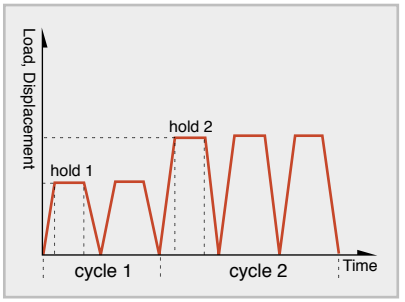
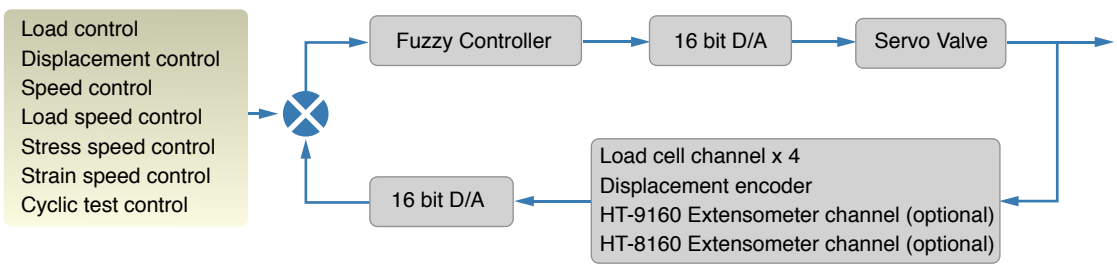


No. 11



No. 12

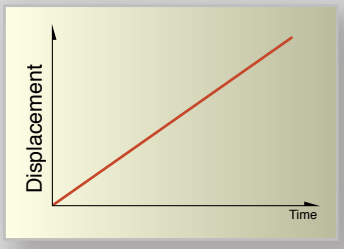
CONTROL FUNCTION : BLOCK DIAGRAM

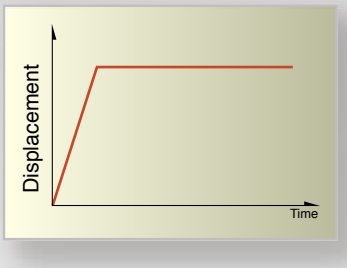


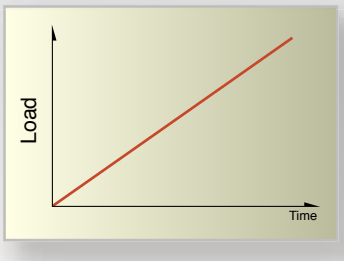
- Easily selectable to Chinese or English menus
- Load units available to switch among : N, kN
  Displacement unit available to switch among : mm, cm
- Large LCD display screen, with a back-lit blue screen. The display is clear and easy to read in low light conditions.
- A panel key directly controls the UP/DOWN function of crosshead, and can be used to preset test speed to low/middle/high
- With 28 function and numerical keys, the test function results and display feature a user-friendly interface
- A rotating knob for direct fine tuning control of the UP/DOWN function of the crosshead, and can be used to preset test speeds to low/middle/high

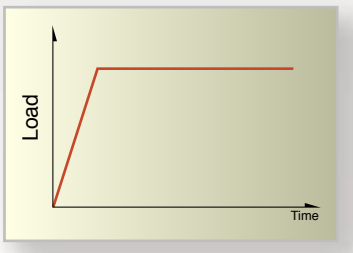
FUNCTIONS

- Only a single connecting cable between the controller and the computer, safe and convenient
- Control mode through closed-loop fuzzy control, with wide application
- Four standard control modes:
  1. Fixed displacement control
  2. Fixed speed control
  3. Fixed load control
  4. Fixed load speed control
- A panel key directly controls the UP/DOWN function of the crosshead, and can be used to preset test speed at low/middle/high settings
- A rotating knob for direct fine tuning control of the UP/DOWN function of crosshead, and can be used to preset test speeds at low/middle/high settings
- A HOME key to return the crosshead back to original position from anywhere
- Displays the actual status of the tester
- Displays the values of load and displacement with the computer simultaneously
- 28 function and numerical keys, test function and display using conversational method
- Can be used to perform tensile testing, compression, etc.
- Can be extended up to 4 channels for load cell (optional)
- Load signal amplification 1,2,5,10 through auto range function
- With independent channel for HT-8160 (optional)
- Load unit available to switch among N, kN; displacement unit available to switch among mm, cm
- Available to auto shift to fixed position control function after testing
- With overload protection function in order to prevent load cell from overloading









HARDWARE SPECIFICATIONS

- Load cell available to extend to 4 channels (350 Ω), signal input range of load cell 2~4 mv/v
- A/D converting resolution 16 bit, A/D converting speed 25 μs
- D/A converting resolution 16 bit
- Encoder transfer circuit resolution is 4 times better
- Input power available to switch to 110/220 V

Computer Servo Control Material Testing Machines - multiple applications, with a wide range of testing functions for examining the physical properties of materials quickly and easily

HT-2402

HT-2402 Computer Servo Control
Material Testing Machine
capacity:250 ~ 50 kN

HT-2402BI

HT-2402BI SOC Control
Material Testing Machine
capacity:250 ~ 50 kN

HT-2402BP

HT-2402BP Computer Servo Control
Material Testing Machine
capacity:250 ~ 50 kN

Models		HT-2402, HT-2402BP, HT-2402BI		
Capacity	kN	250	100	50
Measurement of test force	Standard-accuracy type (Class 1)	Accuracy of test force is better than ±1% within the range 1/1~1/250 of full scale of load cell, which conforms to most international standards such as ISO 7500/1 class 1, EN 10002-2 grade 1, BS 1610 class 1, DIN 51221 class 1, ASTM E4, JIS B7721 class 1, JIS B7723 class 1, JJG 475-88, GB/T 16491-1996 class 1 and CNS 9470/9471.		
	High-accuracy type (Class 0.5)	Accuracy of test force is better than ±0.5% within the range 1/1~1/250 of full scale of load cell, which conforms to most international standards such as ISO 7500/1 class 0.5, EN 10002-2 grade 0.5, BS 1610 class 0.5, DIN 51221 class 0.5, ASTM E4, JIS B7721 class 0.5, JIS B7723 class 0.5, JJG 139-1999, GB/T 16491-1996 class 0.5 and CNS 9470/9471.		
	Load cell	H-8336 Low profile high precision tension/compression load cell as standard (maximum force x 1 set, with excellent expanding feature, available to connect several load cells at a time – optional)		
	Load amplification	Type HT-2402 equipped with HUNG TA interface system, available with: (A,B select one) ☐ (A)x1, x2, x5, x10, x20, x50, x100 seven scales with auto range function,resolution 1/2000 ☐ (B)x1, x2, x5, x10 four scales with auto range function, resolution 1/2000 function, resolution 1/20000		
		Types HT-2402BP and HT-2402BI equipped with HT-2010 control indicator, available with x1, x2, x5, x10 four scales with auto range function, resolution 1/20000		
	Selection of force units	N, kN		
Test speed range (mm/min), with stepless setting		Type HT-2402, 0.005~500 mm/min		
		Types HT-2402BP, HT-2402BI 0.05~500 mm/min		
		Force applied should be no less than 25% of full scale of load cell if test speed is greater than 50mm/min (GB/T 16491-1996)		
Accuracy of speed control		±1% (class 1) or ±0.2% (class 0.5)	±1% (class 1) or ±0.2% (class 0.5)	±1% (class 1) or ±0.2% (class 0.5)
Effective test depth		575 mm	575 mm	575 mm
Crosshead working table distance		Max. 1440 mm	Max. 1250 mm	MAX. 1250 mm
Test stroke (equipped with standard tensile grips)		600 mm	650 mm	650 mm
Over-travel & Overload protection function		Stroke up & down position protection setting, when test force exceeds 10% of full scale, system auto stop to protection the system from overloaded.		
Power	Servo motor	AC servo motor & servo driver		
	Consumption	7.5 kVA	3.5 kVA	2.2 kVA
	Power supply	3Ø, 220VAC, 50/60 Hz (380V/415 V optional)		
Measuring system	Hardware	Refer to computer hardware specifications		
	Controller	HT-2402 connects HUNG TA Interface system; HT-2402BP/HT-2402BI connects HT-2010 Control indicator		
	Special software	Refer to special control modes of computer measuring system (optional)		
Dimensions	Console WxDxH	117x83x249 cm	111x76x225 cm	111x76x225 cm
	Control unit WxDxH	HT-2402/HT-2402BP: 120x60x74 cm, HT-2402BI doesn't have control unit		
Weight	Console	1500 kg	1000 kg	750 kg
	Control unit	100 kg	100 kg	100 kg
Standard accessories		Tensile grips x 1 set, tool kit x 1 set, operation manual x 1 set, certificate of calibration x 1 set		
Optional accessories	Extensometer	Refer to the specifications of HT-9160, HT-9161, HT-9860, HT-8160 (optional)		
	Thermostat chamber	Refer to the specifications of HT-8747 series (optional)		
	Grips	Refer to the brochure of grips and fixtures, or provide specifications or actual samples for design and manufacture		

HT-2402

HT-2402 Computer Servo Control
Material Testing Machine
capacity:20 ~ 1 kN

HT-2402BP

HT-2402BP Computer Servo Control
Material Testing Machine
capacity:20 ~ 1 kN

HT-2402BI

HT-2402BI SOC Control
Material Testing Machine
capacity:20 ~ 1 kN
HT-8160 optional

Models		HT-2402, HT-2402BP, HT-2402BI				
Capacity	kN	20	10	5	2	1
Measurement of test force	Standard-accuracy type (Class 1)	Accuracy of test force is better than ±1% within the range 1/1~1/250 of full scale of load cell, which conforms to most international standards such as ISO 7500/1 class 1, EN 10002-2 grade 1, BS 1610 class 1, DIN 51221 class 1, ASTM E4, JIS B7721 class 1, JIS B7723 class 1, JJG 139-1999, GB/T 16491-1996 class 1 and CNS 9470/9471.				
	High-accuracy type (Class 0.5)	Accuracy of test force is better than ±0.5% within the range 1/1~1/250 of full scale of load cell, which conforms to most international standards such as ISO 7500/1 class 0, EN 10002-2 grade 0.5, BS 1610 class 0.5, DIN 51221 class 1, ASTM E4,JIS B7721 class 0.5, JIS B7723 class 0.5, JJG 139-1999, GB/T 16491-1996 class 0.5 and CNS 9470/9471 (optional)				
	Load cell	H-8336 High precision tension/compression load cell as standard (maximum force X 1 set, with excellent expanding feature, available to connect some load cells at a time) (optional)				
	Load amplification	Type HT-2402 equipped with HUNG TA interface system, available with: (A,B select one) ☐ (A)x1, x2, x5, x10, x20, x50, x100 seven scales with auto range function,resolution 1/2000 ☐ (B)x1, x2, x5, x10 four scales with auto range function, resolution 1/20000				
		Types HT-2402BP and HT-2402BI equipped with HT-2010 control indicator, available with x1, x2, x5, x10 four scales with auto range function, resolution 1/20000				
	Selection of force units	N, kN				
Test speed range (mm/min), with stepless setting		Type HT-2402: 0.005 ~500 mm/min (0.005~1000 mm/min for capacities less than 5 kN)				
		Types HT-2402BP / HT-2402BI: 0.05~500 mm/min (0.05~1000 mm/min for capacities less than 5 kN)				
		Force applied should be no less than 25% of full scale of load cell if test speed is greater than 50mm/min (GB/T 16491-1996)				
Accuracy of speed control		±1% (class 1) or ±0.2% (class 0.5)				
Effective test width		**standard type: 380 mm**	special type: 560 mm			
Crosshead working table distance		**standard type: 1100 mm**	special type: 1600 mm			
Test stroke (equipped with standard tensile grips)	1~10KN	**standard type: 800 mm**	special type: 1300 mm			
	20KN	**standard type: 750 mm**	special type: 1250 mm			
Over-travel & Overload protection function		Stroke up & down position protection setting, when test force exceeds 10% of full scale, system auto stop to protection the system from overloaded.				
Power	Servo motor	AC servo motor & servo driver				
	Consumption	0.75 kVA; 20 kN type: 1.2 kVA				
	Power supply	1Ø, 220 VAC, 50/60 Hz				
Measuring system	Hardware	Refer to computer hardware specifications				
	Controller	HT-2402 connects HUNG TA Interface system; HT-2402BP / HT-2402BI connects HT-2010 Control indicator				
	Special software	Refer to special control modes of computer measuring system (optional)				
Dimensions	Console WxDxH	80x70x217 cm (wider type 98x70x217 cm, taller type 98x70x267 cm)				
	Control unit WxDxH	HT-2402/HT-2402BP type: 120x60x74 cm, HT-2402BI type without control unit				
Weight	Console	300 kg (wider type 380 kg, taller type 380 kg)				
	Control unit	100 kg				
Standard accessories		Tensile grips x 1 set, tool kit x 1 set, operation manual x 1 set, certificate of calibration x 1 set				
Optional accessories	Extensometer	Refer to the specifications of HT-9160, HT-9161, HT-9860, HT-8160 (optional)				
	Thermostat chamber	Refer to the specifications of HT-8747 series (optional, available only with effective test width is 560 mm)				
	Grips	Refer to the brochure of grips and fixtures, or provide specifications for design and manufacture				

HT-2328
Computer Type Single Column Universal Materials Testing Machine

HT-2328BP
Computer SOC Control Single Column Universal Materials Testing Machine

HT-2328BI
SOC Control Single Column Universal Materials Testing Machine

Console Specifications

Models		HT-2328, HT-2328BP, HT-2328BI				
Capacity	kN	2	1	0.5	0.2	0.1
	Standard-accuracy type	Accuracy of test force is better than ±1% within the range 1/1~1/50 of full scale of load cell				
Measurement of test force	Load cell	HT-8336 High precision tension/compression load cell as standard (maximum force X 1set, with excellent expanding feature, available to connect some load cells at a time – optional)				
	Load amplification	Type HT-2328 equipped with HUNG TA interface system, available with: (A,B select one) ☐ (A)x1, x2, x5, x10, x20, x50, x100 seven scales with auto range function,resolution 1/2000 ☐ (B)x1, x2, x5, x10 four scales with auto range function, resolution 1/20000				
		Type HT-2328BP,HT-2328BI Equipped with HT-2010 control indicator, available with x1, x2, x5, x10 four scales with auto range function, resolution 1/20000				
	Selection of force units	N, kN				
Test speed range (select one)		☐ A: Servo motor type: 0.005~1000 mm/min (Suitable for HT-2328 only)				
		☐ B: Servo motor type: 0.05~1000 mm/min (Suitable for HT-2328BP only)				
		☐ C: DC motor type : 10~500 mm/min (Suitable for HT-2328BP only)				
		☐ D: DC motor type : 10~1000 mm/min (Suitable for HT-2328BP only)				
		☐ E: DC motor type : 0.5~1000 mm/min (Suitable for HT-2328 only)				
		☐ F: DC motor type : 100~1000 mm/min				
Effective test depth		125 mm (distance of clamping center to column side)				
Crosshead working table distance		☐ **standard type: 750 mm** ☐ special type: 1150 mm				
Test stroke (equipped with standard tensile grips)		☐ **standard type: 560 mm** ☐ special type: 960 mm				
Over-travel & Overload protection function		Stroke up & down position protection setting, when test force exceeds 10% of full scale, system auto stop to protection the system from overloaded.				
Power	Consumption	0.5 kVA				
	Power source	1Ø, 220 VAC, 50/60 Hz				
Dimensions	Console WxDxH	☐ **standard type: 56x50x126 cm** ☐ special type: **56x50x166 cm**				
	Unit	100x48x42 cm (computer hardware + monitor + printer)				
Weight	Console	☐ **standard type:54 kg** ☐ special type: **60 kg**				
Standard accessories		Tensile grips x 1 set, tool kit x 1 set, operation manual x 1 set, certificate of calibration x 1 set				

HT-9770 Automatic dead-weight original class standard calibrator

Superior quality products need the assistance of professional technical capability and professional equipment.
High accuracy inspecting and calibration equipment, guarantees the measuring accuracy.
Professional manufacturing technology experiences of more than 30 years ensures high stability of products.

- This calibrator was developed through our cooperation with the Center for Measurement Standards
- 2,000 kN (200,000 kg) HT-9770B Automatic dead-weight original class standard calibrator (lever type)
- 500 kN (50,000 kg) HT-9770B Automatic dead-weight original class standard calibrator (lever type)
- 50 kN (5,000 kg) HT-9770 Automatic dead-weight original class standard calibrator
- 5 kN (500 kg) HT-9770 Automatic dead-weight original class standard calibrator
- High accuracy load cell standard calibrator, range 0~2,000 kN (0~200,000 kgf)

Type 5 ~ 50 kN Series

HT-2502 Digital Extensometer Calibrator
Measuring accuracy: ±0.001 mm
Measuring stroke: 0~50 mm
Suitable: Metal extensometers

High accuracy extensometer calibration apparatus, ensuring elongation measuring accuracy

Models	HT-8747A	HT-8747B	HT-8747C	HT-8747D
Measurement of test force	Rt ~ +200˚C	-30~ +200˚C	-50~ +200˚C	+30˚C~ +800˚C
Inside dimensions (WxDxH)	☐ **standard type:** 30x30x60 cm		☐ **special type:** 30x45x60 cm	Ø21x25 cm
outside dimensions (WxDxH) standard	48x82x82 cm	48x100x90 cm	48x120x90 cm	Ø36x35 cm
outside dimensions (WxDxH) special	48x100x82 cm	48x100x105 cm	48x120x135 cm	
Method of heat-up or cool-down	Electric heating	Electric heating & refrigerant with compressor		Electric heating
Temperature control method	PID automatic temperature controller with digital temperature indicator			
Applied models	Suitable for HT-2402, HT-9102, HT-2102 type series tensile testers			
Power supply	1 phase 220 V			

HT-8747 A / B / C Type Thermostat testing chamber
HT-2402 / HT-2102 / HT-9102 / HT-8503
For capacities less than 20kN, it is suitable for special (wider) type 560 mm only

HT-8160 Two extensometer can be selected together with HT-8747 series chambers,but cannot be used at the same time.

HT-8474D Type Thermostat testing chamber

Two-point extensometer series (Suitable for models HT-2402,HT-2101,HT-9501)

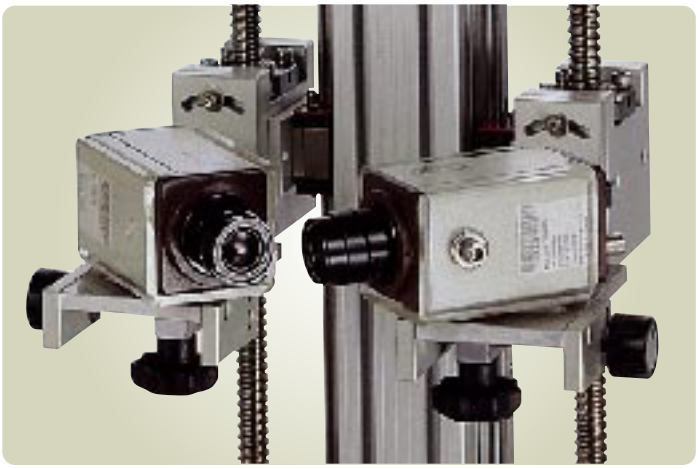
Models	HT-8160A	HT-8160B	HT-9160A	HT-9160B	HT-9160C	HT-9160D	HT-9161
Gauge length (mm)	20~40		50	50	100	25	50
Travel (mm)	0~800		25	5	25	5	25
Resolution (mm)	0.02		0.001				0.001
Application	Rubber, plastic, PE board, fabric, webbing, textile	PE film, latex, PVC tubing industry	Suitable for measuring elongation for metal, or non-metal materials with lower deformation, suitable for working circum stance Rt ~50˚C				

HT-8160

HT-9160

Model	HT-9860 video extensometer
Resolution (mm)	0.025
Measuring range (mm)	Max 2000
Measuring method	computer-aided image recognition and automatic tracking marking points control & measurement
Quantity	2 pcs
Driving method	Step motor
Driving media	Ball screw x 2 pcs
Method of transmission	LAN
Computer system	PIII 850MHz or above, VGA card, AGP 32MB. TNT or above, Windows 2000 Professional

HT-9161 made in USA



HT-9860

Hydraulic series and pneumatic series grips are optional, with excellent and convenient features for operation.

Models		SF-014D	SF-004	SF-051	SF-063	SF-006	SF-301
capacity (kN)		250	100	50	20	10	5
clamping range (mm)	round	Ø6~Ø13,Ø13~Ø26,Ø26~Ø38	Ø6~Ø13,Ø13~Ø22	Ø6~Ø13	Ø6~Ø13	Ø5~Ø13	Ø0.5~Ø4
	flat	0~25 wide 50	0~14 wide 45	0~8 wide 45	0~8 wide 30	0~8 wide 30	0~4 wide 8
weight (kg)		30	12	8	5	3	2


SF-014D


SF-004

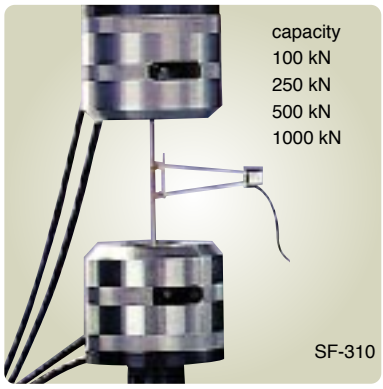

SF-051


SF-063


SF-006


SF-301

Model		SF-310				SF-134	SF-082	SF-116	SF-609B
driving method		hydraulic grips				pneumatic tensile grips			
capacity (kN)		1000	500	250	100	10	0.5 / 2	1	0.5
clamping range (mm)	round	ø10~25,ø25~40	ø10~25,ø25~40	ø5~15,ø15~30	ø5~15	ø5~13			within ø2
	flat	0~15 / 15~30 width 100	0~15 / 15~30 width 76	0~15 / 15~30 width 76	0~15 width 50	0~8 width 30	0~6 width	0~6 width	



SF-310


SF-134


SF-082


SF-116


SF-609B

SF-082: jaw: 1"x1" ,1"x3" / 1"x2" ,1"x3" / 1"x3" ,1"x3" (select one)
SF-116: jaw: 1"x1" ,1"x3" / 1"x2" ,1"x3" (select one)

Models	SF-046	SF-089C	SF-158	SF-003B	SF-093	SF-147
application	Fixtures for bolt/nut shape	Tensile grips for cloth strip	Spool flat closed clamp	Type tensile grips	Series tensile grips	Wedge clamps self closing grips
	Bolts/nuts & mooring	Webbing & straps	Ropes & cable	Fabric, textile & leather	Rubber & plastic	Tensile tests for finished products
capacity (kN)	50 / 300 / 600	5 / 50 / 100	2 / 10	1 / 5	1	1
clamping range (mm)	50 kN: M4-M10 300 kN: M6-M16 600 kN: M6-M36	5 kN: 0-25 50 kN: 0-50 100 kN: 0-100	2 kN: ø6 10 kN: ø12	16	8x50	10x6 10x25


SF-046


SF-089C


SF-158


SF-003B


SF-093


SF-147

Compression testing fixtures series

Compression platens for metal, rubber, timbering and cement

Models	SF-156A	SF-156B	SF-156C	
Platen size (mm)	Ø75	Ø120	Ø160	
Models	**SF-156D**	**SF-156E**	**SF-156F**	**SF-201**
Platen size (mm)	Ø220	Ø280	Ø300	150x300

Special sizes are available upon request

SF-156

Ball-seat compression platen for concrete cylinders

Models	SF-122A	SF-122B	
Platen size (mm)	Ø75	Ø102	
Models	**SF-122C**	**SF-122D**	**SF-122E**
Platen size (mm)	Ø154	Ø204	Ø278

Special sizes are available upon request

SF-122A

Bending test fixtures for metal, china/ceramic, tile, concrete cylinder, timber, and so on.

Central loading (3-point) bending fixtures

Models	SF-002A series	SF-155A series
Maximum load (kN)	10~100	300
Loading Radius (mm)	R2, R5, R1/8 (optional)	R15
Supporting Radius (mm)	R2, R5, R1/8 (optional)	R15
Width (mm)	50 (110~600 optional)	120
Supporting distance (mm)	20~80 / 20~200 / 20~600	30~400

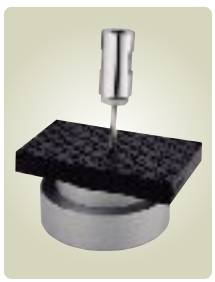
Special sizes are available upon request

SF-002A

SF-155A

Models	SF-087A	SF-139A	SF-081	SF-102	SF-100	SF-148
	puncture fixtures for safety shoes	plywood shearing fixture	90˚ Peeling fixtures	adhesion grips for ceramics	Lunging fixtures	Plunger fixtures

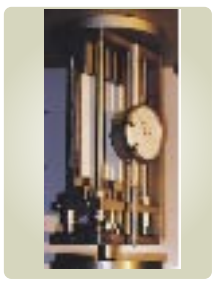
A variety of clamping apparatus choices to meet diverse experimental requirements



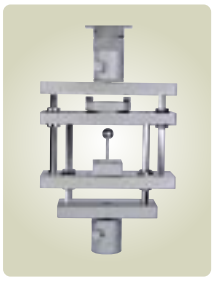
SF-087A

SF-139A

SF-081



SF-102



SF-100

SF-148

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HT0501E