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PRODUCT BROCHURE

Clarity Testers

CLRT-1

Reliability

It tests clarify of injection and bottled medicine liquid.

Applicable standards

- National standard (Chinese codex) / 2015
- Health department standard
- Corporate standard (Clarify tester)



Features

- The three-primary-color fluorescent lamp is controlled by good lighting sensor, electronic inductor and shading.
- Flash eliminated. Illumination is adjustable.
- Time and alarm automatically. Test continuously.
- Used by one person.

Specification

Model	CLRT-1
Lamp three-primary-color	fluorescent lamp
Illumination range	(1000~6000)LUX
Time range	(1~99)s
Power	220V/ 50Hz/ 30W
Dimension	(703*175*513)mm

Clarity Testers

CLRT-2

Reliability

- It tests clarify of injection and bottled medicine liquid.

Features

- The three-primary-color fluorescent lamp is controlled by good lighting sensor, electronic inductor and shading.
- Flash eliminated. Illumination is adjustable.
- Time and alarm automatically. Test continuously.
- Used by one person.
- With double-sided detection function, equivalent to two CLRT-1 products in operation



Specification

Model	CLRT-2
Lamp three-primary-color	fluorescent lamp
Illumination range	(1000~6000)LUX
Time range	(1~99)s
Power	220V/ 50Hz/ 30W
Dimension	(703*325*513)mm

Transparency Tester

TRNT-2



Reliability

- Use for testing the transparency value of gelatin.

Features

- Eliminate the effect of environment on the test result thoroughly.
- Normal glass testing tube, convenient for taking and storing specimen.
- Closed light source system, little environmental impact.

Specification

Model	TRNT-2
Transparency testing range	(20~500)mm
Transparency testing precision	±5mm
Volume of glass tube	400ml
Power supply	220V/50HZ/100W
External dimensions	(60×20×23)cm ²
Weight	11KG



Disintegration Time Limit Tester

DITT-1



- Disintegration time limit tester is a drug test instrument to test the disintegration time limit of tablets, capsules and pills in accordance with Chinese Pharmacopoeia.

Features

- 1 set of basket.
- The instrument controls the bath temperature at 37.0℃ automatically (prescribed by Pharmacopeia). High-precision digital electronic sensor is adopted to ensure the high precision and high accuracy of water bath temperature without the need for calibration.
- The instrument sets the lifting time of baskets to be 15min automatically, which can also be reset at any time.
- It adopts the computer control technology which is centered on SCM to control two performance parameters including bath temperature and working time intelligently.
- The instrument can monitor bath temperature, give over-temperature alarm and protect itself automatically.

Specification

Model	DITT-1
Temperature prefabrication range	Room temperature ~ 50℃
Display resolution	0.1℃.
Temperature control accuracy	±0.3℃
Timing prefabrication range	1min ~ 900min
Time control accuracy	±0.5min
Work noise	<60db
Number of lifting baskets	1 set
Lifting frequency of basket	(30~32) times/min.
Lifting distance of basket	(55±1) mm
Minimum spacing from screen to beaker bottom	25mm±2mm
Mesh size	standard configuration 2mm, (optional for 0.425mm and 1mm bore diameters)
Power supply	220V50Hz
Total power	600W
Overall dimensions (L*W*H)	260mm*300mm*440mm

Disintegration Time Limit Tester

DITT-2



- Disintegration time limit tester is a drug test instrument to test the disintegration time limit of tablets, capsules and pills in accordance with Chinese Pharmacopoeia.

Features

- Double-basket working position system measures disintegration time limit.
- 2 sets of baskets, which can conduct independent disintegration experiment respectively.
- Electronic temperature sensor can display and monitor various points in water bath case and the temperature in the beaker. High-precision digital electronic sensor is adopted to ensure the high precision and high accuracy of water bath temperature without the need for calibration.
- The instrument controls the bath temperature at 37.0℃ automatically (prescribed by Pharmacopeia). It can also reset the preset temperature again at any time.
- The instrument sets the lifting time of baskets to be 15min automatically, which can also be reset at any time.
- It adopts the computer control technology which is centered on SCM to control two performance parameters including bath temperature and working time intelligently.
- The instrument can monitor bath temperature, give over-temperature alarm and protect itself automatically.

Specification

Model	DITT-2
Temperature prefabrication range	Room temperature:~50℃ Display resolution 0.1℃.
Temperature control accuracy	±0.3℃
Timing prefabrication range	1min~900min
Time control accuracy	±0.5min
Work noise	<60db
Number of lifting baskets	2 sets
Lifting frequency of basket	(30~32) times/min.
Lifting distance of basket	(55±1) mm
Minimum spacing from screen to beaker bottom	25mm±2mm
Mesh size	Standard configuration 2mm, (optional for 0.425mm and 1mm bore diameters)
Power supply	220V50Hz
Total power	600W
Overall dimensions (L*W*H)	400mm*320mm*440mm

Disintegration Time Limit Tester

DITT-3



- Disintegration time limit tester is a drug test instrument to test the disintegration time limit of tablets, capsules and pills in accordance with Chinese Pharmacopoeia.

Features

- Three-basket working position system measures disintegration time limit.
- 3 sets of baskets, which can realize 3-way independent operation to be controlled independently.
- Electronic temperature sensor can display and monitor various points in water bath case and the temperature in the beaker. High-precision digital electronic sensor is adopted to ensure the high precision and high accuracy of water bath temperature without the need for calibration.
- The instrument controls the bath temperature at 37.0 C automatically (prescribed by Pharmacopeia). It can also reset the preset temperature again at any time.
- The instrument sets the lifting time of baskets to be 15min automatically, which can also be reset at any time.
- It adopts the computer control technology which is centered on SCM to control two performance parameters including bath temperature and working time intelligently.
- The instrument can monitor bath temperature, give over-temperature alarm and protect itself automatically.

Specification

Model	DITT-3
Temperature prefabrication range	Room temperature: ~50 C Display resolution: 0.1 C.
Temperature control accuracy	±0.3 C
Timing prefabrication range	1min~999min
Time control accuracy	±0.5min
Work noise	<60db
Number of lifting baskets	3 sets
Lifting frequency of basket	(30~32) times/min.
Lifting distance of basket	(55±1) mm
Minimum spacing from screen to beaker bottom	25mm±2mm
Mesh size	standard configuration 2mm, (optional for 0.425mm and 1mm bore diameters)
Power supply	220V50Hz
Total power	600W
Overall dimensions (L*W*H)	540mm*320mm*440mm

Disintegration Time Limit Tester

DITT-4



- Disintegration time limit tester is a drug test instrument to test the disintegration time limit of tablets, capsules and pills in accordance with Chinese Pharmacopoeia.

Features

- Four-basket working position system measures disintegration time limit.
- 4 sets of hanging baskets, two sets of equipment conduct disintegration experiments independently (that is, there are 4 baskets and two controllers, and one controller controls 2 baskets)
- Electronic temperature sensor can display and monitor various points in water bath case and the temperature in the beaker. High-precision digital electronic sensor is adopted to ensure the high precision and high accuracy of water bath temperature without the need for calibration.
- The instrument controls the bath temperature at 37.0 °C automatically (prescribed by Pharmacopeia). It can also reset the preset temperature again at any time.
- The instrument sets the lifting time of baskets to be 15min automatically, which can also be reset at any time.
- It adopts the computer control technology which is centered on SCM to control two performance parameters including bath temperature and working time intelligently.
- The instrument can monitor bath temperature, give over-temperature alarm and protect itself automatically.

Specification

Model	DITT-4
Temperature prefabrication range	Room temperature~50 °C
	Display resolution:0.1 °C
Temperature control accuracy	±0.3 °C
Timing prefabrication range	1min~900min
Time control accuracy	±0.5min
Work noise	<60db
Number of lifting baskets	4 sets
Lifting frequency of basket	(30~32) times/min.
Lifting distance of basket	(55±1) mm
Minimum spacing from screen to beaker bottom	25mm±2mm
Mesh size	standard configuration 2mm, (optional for 0.425mm and 1mm bore diameters)
Power supply	220V50Hz
Total power	600W

Disintegration Time Limit Tester

DITT-K1



- The inspection method of orally disintegrating tablet has been added to in the 2020 edition of the Chinese Pharmacopoeia.



Features

- Adopt the single cup and single basket structure, each instrument is equipped with a disintegration basket, which is convenient for observation and judgment.
- Adopt a special cup instead of a flat-bottomed beaker, which is convenient to fix the position.
- The disintegration basket meets the requirements of the Pharmacopoeia.

Specification

Model	DITT-K1
Disintegration basket material	stainless steel tube.
Tube length	30mm, inner
Diameter	13mm
Inner diameter of the sieve	710μm
Disintegration basket round-trip frequency	30-32 times/min
Disintegration basket moving distance up and down	10mm±1mm
Water bath temperature control range	R.T. ~ 45 C
Temperature control accuracy	≤±0.3 C.

Multifunctional Disintegration Time Limiter

DITT-M3



- The disintegration time limiter detects the disintegration time limit of tablets, capsules, pills and oral disintegration reagents according to the 2020 edition of the Chinese Pharmacopoeia.

Features

- The 2+1 design method is adopted, and it can meet the disintegration requirements of the orally disintegrating reagents in the 2020 edition of the Pharmacopoeia, extensive use.
- 3 sets of hanging baskets, and the 3 routes operate independently, which can be controlled separately.
- The electronic temperature sensor can display and monitor the temperature at various points in the water bath and in the beaker. The use of high-precision digital electronic sensors ensures the high precision and accuracy of the water bath temperature without calibration.
- The temperature of the water bath is automatically controlled by the instrument to be 37.0 °C (prescribed in the Pharmacopoeia). The preset temperature can be reset at any time in both directions.
- The instrument automatically sets the lifting and lowering time of the hanging basket to 15 minutes, and the time can also be reset arbitrarily in both directions.
- Adopt the computer control technology with single-chip microcomputer as the core, and intelligently control the two performance parameters of water bath temperature and working time.
- Temperature and time display adopts the latest LCD module.
Water bath temperature overheating alarm and automatic protection function.

Specification

Model	DITT-M3
Temperature prefabrication range	R.T. ~ 50 °C
Display resolution	0.1 °C
Temperature control accuracy	±0.3 °C
Timing prefabrication range	1min ~ 999min
Time control accuracy	±0.5min
Working noise	<60db
Lifting baskets number	2 sets of ordinary disintegration baskets, 1 set of oral disintegration special baskets
Lifting frequency of the hanging basket	30 ~ 32times/min
Lifting distance of hanging basket	55±1mm, 10±1mm
Screen aperture	standard 2mm, (0.425mm, 1mm apertures optional) for ordinary hanging baskets, standard 710µm for oral disintegration hanging baskets.
Electricity source	220V50Hz
Power of the whole machine	600W
Dimensions(L×W×H)	540mm*320mm*440mm

Thawing Time Limit Tester

SMTP-1



- SMTP-1 thawing time limit tester is used to inspect the condition of thawing, softening or dissolution of solid preparations such as suppositories or vaginal tablets under the prescribed conditions. It's a mechatronic product which is designed and produced in accordance with the requirements of Chinese Pharmacopoeia (Edition 2015) on "suppository thawing time limit inspection methods".



Features

- Three-beaker, three-path, three-path synchronization, manual overturn.
- Transparent sleeve, stainless steel net racks
- Imported stainless steel is adopted for net racks.
- Automatic temperature control, high temperature control precision
- Magnetic water pump circulating water flow uniform heat system is adopted, and bath temperature is uniform.
- Automatic temperature control and automatic time keeping.

Specification

Model	SMTP-1
Number of sleeve racks	3 sets
Size of transparent sleeve	height:60mm inner diameter: 52mm
Stainless steel net rack	2 sheets, diameter of 50mm, with 39 holes of 4mm.
Timing range	(10~900)min
Timing precision	±0.5min
Temperature control range	(20~45) °C
Temperature control precision	±0.5 °C
Volume of beaker	5L (3PCS)
Power supply	220V / 50Hz / 1000W

Dissolution Testers

DIST-1E



- DIST series of instruments are used to examine the dissolving speed and degree of solid preparations like drug tablets or capsules in the specified solvents.

Features

- It has one vessels and one poles arranged on one line.
- The head part of the instrument can be artificially turned over smoothly and flexibly.
- The basket units and paddle units are made of imported stainless steel (SUS316L).
- The magnetism-pumped circular water current can heat the system evenly, and the bath liquid can achieve an equal temperature.
- A MPU is used in dissolution tester to automatically control the temperature, rotational speed and time, and the parameters can be preset at any time.
- It can be operated conveniently by keystroke. The measurement result is displayed by LCD. The preset and real data can be displayed alternately in time.
- Automation: auto-test, auto-diagnose, auto-alarm.

Specification

Model	DIST-1E
Speed range	(20~200)rpm
Speed accuracy	±2rpm
Temperature range ambient	+45.0℃
Temperature Stability	±0.3℃
Preset timing nine points	(5~900)min
Time accuracy	±0.5min
Paddle radial run-out	±0.5mm
Basket radial run-out	±1.0mm
Power	220V/50Hz/600W or 110V/60Hz/600W
Dimension	(260*300*480)mm ³

Dissolution Testers

DIST-3E



- DIST series of instruments are used to examine the dissolving speed and degree of solid preparations like drug tablets or capsules in the specified solvents.

Features

- It has three vessels and three poles arranged on one line.
- The head part of the instrument can be artificially turned over smoothly and flexibly.
- The basket units and paddle units are made of imported stainless steel (SUS316L).
- The magnetism-pumped circular water current can heat the system evenly, and the bath liquid can achieve an equal temperature.
- A MPU is used in dissolution tester to automatically control the temperature, rotational speed and time, and the parameters can be preset at any time.
- It can be operated conveniently by keystroke. The measurement result is displayed by LCD. The preset and real data can be displayed alternately in time.
- Automation: auto-test, auto-diagnose, auto-alarm.

Specification

Model	DIST-3E
Speed range	(20~200)rpm
Speed accuracy	±2rpm
Temperature range ambient	+45.0℃
Temperature Stability	±0.3℃
Preset timing nine points	(5~900)min
Time accuracy	±0.5min
Paddle radial run-out	±0.5mm
Basket radial run-out	±1.0mm
Power	220V/50Hz/600W or 110V/60Hz/600W
Dimension	(510*300*480)mm ³

Dissolution Testers

DIST-3P



Features

- DIST-3P is a double-functional model with electric lifting head and head overturn; it only needs to manipulate the keyboard when paddle rod or basket rod is replaced, the head can be lifted automatically; the head can be overturned continuously based on the lifted head to make the work of paddle change more convenient and handy.
- Available for installation of 3 basket rods or paddle rods.
- Available for installation of 3 new dissolution cups with the height of 185mm and shading dissolution cups as well.
- Friendly human-computer interface, with simple and convenient operation.
- All the working parameters can be preset and saved automatically, without the need to set repeatedly when the instrument is started next time
- Accurate rotating speed, steady operation and low energy consumption.
- Thermostatic water bath adopts built-in integrated temperature sensor and new software and hardware temperature measurement and control mode, which is featured by fast temperature rise and high precision; temperature deviation can be corrected with software conveniently.
- Independent operation of startup, pause and reset for experimental timing.
- Automatic protection functions such as self-inspection fault alarm and over-temperature protection, etc.
- The paddle rod, basket rod and basket turning body are all made of stainless steel material meet the requirements of Chinese Pharmacopoeia in quality and performance.

Range of application

- It's used to examine the dissolving speed and degree of solid preparations like drug tablets or capsules in the specified solvents. DIST-3P dissolution tester is a kind of new type drug dissolution tester which is developed and produced by our company; it adopts classical modeling design and is featured by high cost performance, stability, reliability, simple operation and durability.

Specification

Model	DIST-3P
Amplitude of swing of stirring paddle	≤0.3mm
Amplitude of swing of rotation basket	≤0.8mm
Deviation of rotating rod and axle of dissolution cup	≤1mm
Speed adjustable range	20-200 rpm
Rotating speed resolution	1 time/min
Water bath temperature adjustment range	room temperature: -45℃
Temperature resolution	0.1℃
Temperature control accuracy	≤±0.3℃
Number of sampling periods	9 different sampling periods can be preset.
Time of sampling period	1-999min optional for each period, 9 sampling periods can be counted down by sections.
Timing error	±0.5min
Pharmacopoeia parameter calling	The instrument saves 300 dissolution test parameters in Chinese Pharmacopoeia, which can be called randomly.
Standard configuration	3 paddles and 3 cups
Electrical heating power	500W
Package Dimension (W*D*H)(mm)	730*480*620
Large screen liquid crystal display and intelligent menu operation.	
The head can lift and descend automatically and attaches overturn function (a model whose control is very convenient).	
Electronic sensor can monitor the temperatures of various point of water bath case.	

Dissolution Testers

DIST-6

- DIST series of instruments are used to examine the dissolving speed and degree of solid preparations like drug tablets or capsules in the specified solvents.



Features

- It has six cups and six paddles, arranged on one line.
- The machine head is electrically lifted and lowered, ensuring smooth and flexible operation.
- The basket units and paddle units are made of imported stainless steel (SUS316L).
- The magnetism-pumped circular water current can heat the system evenly, and the bath liquid can achieve an equal temperature.
- A MPU is used in dissolution tester to automatically control the temperature, rotational speed and time, and the parameters can be preset at any time.
- It can be operated conveniently by keystroke. The measurement result is displayed by LCD. The preset and real data can be displayed alternately in time.
- Automation: auto-test, auto-diagnose, auto-alarm.
- The dissolution parameters of 'Chinese codex 2000' are stored in and can be taken out at anytime.
- Time can be preset at many points. The beeper sounds automatically to any point, and then the tester automatically runs to the next one.

Specification

Model	DIST-6
Speed range	(20~200)rpm
Speed accuracy	±1rpm
Temperature range ambient	+45.0℃
Temperature Stability	±0.3℃
Preset timing nine points	(1~999)min
Time accuracy	±0.5min
Paddle radial run-out	±0.5mm
Basket radial run-out	±1.0mm
Power	220V/50Hz/1200W or 110V/60Hz/1200W
Dimension	(960*320*480)mm ³
Package size	(W*D*H) 1230*540*630mm 82kg

Dissolution Testers

DIST-6E

- DIST series of instruments are used to examine the dissolving speed and degree of solid preparations like drug tablets or capsules in the specified solvents.



Features

- It has six cups and six paddles, arranged on one line.
- The head part of the instrument can be artificially turned over smoothly and flexibly.
- The basket units and paddle units are made of imported stainless steel (SUS316L).
- The magnetism-pumped circular water current can heat the system evenly, and the bath liquid can achieve an equal temperature.
- A MPU is used in dissolution tester to automatically control the temperature, rotational speed and time, and the parameters can be preset at any time.
- It can be operated conveniently by keystroke. The measurement result is displayed by LCD. The preset and real data can be displayed alternately in time.
- Automation: auto-test, auto-diagnose, auto-alarm.

Specification

Model	DIST-6E
Speed range	(20~200)rpm
Speed accuracy	±1rpm
Temperature range ambient	+45.0℃
Temperature Stability	±0.3℃
Preset timing nine points	(1~999)min
Time accuracy	±0.5min
Paddle radial run-out	±0.5mm
Basket radial run-out	±1.0mm
Power	220V/50Hz/1200W or 110V/60Hz/1200W
Dimension	(960*440*480)mm ³
Package Dimension (W*D*H) (mm)	1230*460*570
G.W.(kg)	46

Dissolution Testers

DIST-6P



Features

- DIST-6P is a double-functional model with electric lifting head and head overturn; it only needs to manipulate the keyboard when paddle rod or basket rod is replaced, the head can be lifted automatically; the head can be overturned continuously based on the lifted head to make the work of paddle change more convenient and handy.
- Available for installation of 6 basket rods or paddle rods.
- Available for installation of 6 new dissolution cups with the height of 185mm and shading dissolution cups as well.
- Friendly human-computer interface, with simple and convenient operation.
- All the working parameters can be preset and saved automatically, without the need to set repeatedly when the instrument is started next time
- Accurate rotating speed, steady operation and low energy consumption.
- Thermostatic water bath adopts built-in integrated temperature sensor and new software and hardware temperature measurement and control mode, which is featured by fast temperature rise and high precision; temperature deviation can be corrected with software conveniently.
- Independent operation of startup, pause and reset for experimental timing.
- Automatic protection functions such as self-inspection fault alarm and over-temperature protection, etc.
- The paddle rod, basket rod and basket turning body are all made of stainless steel material meet the requirements of Chinese Pharmacopoeia in quality and performance.

Range of application

- It's used to examine the dissolving speed and degree of solid preparations like drug tablets or capsules in the specified solvents. DIST-6P dissolution tester is a kind of new type drug dissolution tester which is developed and produced by our company; it adopts classical modeling design and is featured by high cost performance, stability, reliability, simple operation and durability.

Specification

Model	DIST-6P		
Amplitude of swing of stirring paddle	≤0.3mm		
Amplitude of swing of rotation basket	≤0.8mm		
Deviation of rotating rod and axle of dissolution cup	≤1mm		
Speed adjustable range	20-200 rpm		
Rotating speed resolution	1 time/min		
Water bath temperature adjustment range	room temperature: -45°C		
Temperature resolution	0.1°C		
Temperature control accuracy	±0.3°C		
Number of sampling periods	9 different sampling periods can be preset.		
Time of sampling period	1-999min optional for each period, 9 sampling periods can be counted down by sections.		
Timing error	±0.5min		
Pharmacopoeia parameter calling	The instrument saves 300 dissolution test parameters in Chinese Pharmacopoeia, which can be called randomly.		
Standard configuration	6 paddles and 6 cups		
Electrical heating power	1100W		
Package size	(W*D*H) 1180*570*660mm	76kg	
Large screen liquid crystal display and intelligent menu operation.			
The head can lift and descend automatically and attaches overturn function (a model whose control is very convenient).			
Electronic sensor can monitor the temperatures of various point of water bath case.			

Dissolution Testers

DIST-8

- DIST series of instruments are used to examine the dissolving speed and degree of solid preparations like drug tablets or capsules in the specified solvents.



Features

- It has eight vessels and six poles, with six vessels and six poles in front and other two vessels at back.
- The machine head is electrically lifted and lowered, ensuring smooth and flexible operation.
- The basket units and paddle units are made of imported stainless steel (SUS316L).
- The magnetism-pumped circular water current can heat the system evenly, and the bath liquid can achieve an equal temperature.
- A MPU is used in dissolution tester to automatically control the temperature, rotational speed and time, and the parameters can be preset at any time.
- It can be operated conveniently by keystroke. The measurement result is displayed by LCD. The preset and real data can be displayed alternately in time.
- Automation: auto-test, auto-diagnose, auto-alarm.
- The dissolution parameters of 'Chinese codex 2000' are stored in and can be taken out at anytime.
- Time can be preset at many points. The beeper sounds automatically to any point, and then the tester automatically runs to the next one.

Specification

Model	DIST-8
Speed range	(20~200)rpm
Speed accuracy	±1rpm
Temperature range ambient	+45.0℃
Temperature Stability	±0.3℃
Preset timing nine points	(1~999)min
Time accuracy	±0.5min
Paddle radial run-out	±0.5mm
Basket radial run-out	±1.0mm
Power	220V/50Hz/1200W or 110V/60Hz/1200W
Dimension	(960*320*480)mm ³

Dissolution Testers

DIST-8E

- DIST series of instruments are used to examine the dissolving speed and degree of solid preparations like drug tablets or capsules in the specified solvents.



Features

- It has eight vessels and six poles, with six vessels and six poles in front and other two vessels at back.
- The head part of the instrument can be artificially turned over smoothly and flexibly.
- The basket units and paddle units are made of imported stainless steel (SUS316L).
- The magnetism-pumped circular water current can heat the system evenly, and the bath liquid can achieve an equal temperature.
- A MPU is used in dissolution tester to automatically control the temperature, rotational speed and time, and the parameters can be preset at any time.
- It can be operated conveniently by keystroke. The measurement result is displayed by LCD. The preset and real data can be displayed alternately in time.
- Automation: auto-test, auto-diagnose, auto-alarm.
- The dissolution parameters of 'Chinese codex 2010' are stored in and can be taken out at anytime.
- Time can be preset at many points. The beeper sounds automatically to any point, and then the tester automatically runs to the next one.

Specification

Model	DIST-8E
Speed range	(20~200)rpm
Speed accuracy	±1rpm
Temperature range ambient	+45.0℃
Temperature Stability	±0.3℃
Preset timing nine points	(1~999)min
Time accuracy	±0.5min
Paddle radial run-out	±0.5mm
Basket radial run-out	±1.0mm
Power	220V/50Hz/1200W or 110V/60Hz/1200W
Dimension	(960*440*480)mm ³

Dissolution Testers

DIST-8P



Features

- DIST-8P is a double-functional model with electric lifting head and head overturn; it only needs to manipulate the keyboard when paddle rod or basket rod is replaced, the head can be lifted automatically; the head can be overturned continuously based on the lifted head to make the work of paddle change more convenient and handy.
- Available for installation of 8 basket rods or paddle rods.
- Available for installation of 8 new dissolution cups with the height of 185mm and shading dissolution cups as well.
- Friendly human-computer interface, with simple and convenient operation.
- All the working parameters can be preset and saved automatically, without the need to set repeatedly when the instrument is started next time
- Accurate rotating speed, steady operation and low energy consumption.
- Thermostatic water bath adopts built-in integrated temperature sensor and new software and hardware temperature measurement and control mode, which is featured by fast temperature rise and high precision; temperature deviation can be corrected with software conveniently.
- Independent operation of startup, pause and reset for experimental timing.
- Automatic protection functions such as self-inspection fault alarm and over-temperature protection, etc.
- The paddle rod, basket rod and basket turning body are all made of stainless steel material meet the requirements of Chinese Pharmacopoeia in quality and performance.

Range of application

- It's used to examine the dissolving speed and degree of solid preparations like drug tablets or capsules in the specified solvents. DIST-8P dissolution tester is a kind of new type drug dissolution tester which is developed and produced by our company; it adopts classical modeling design and is featured by high cost performance, stability, reliability, simple operation and durability.

Specification

Model	DIST-8P
Amplitude of swing of stirring paddle	≤0.3mm
Amplitude of swing of rotation basket	≤0.8mm
Deviation of rotating rod and axle of dissolution cup	≤1mm
Speed adjustable range	20-200 rpm
Rotating speed resolution	1 time/min
Water bath temperature adjustment range	room temperature -45℃
Temperature resolution	0.1℃
Temperature control accuracy	≤±0.3℃
Number of sampling periods	9 different sampling periods can be preset.
Time of sampling period	1-999min optional for each period, 9 sampling periods can be counted down by sections.
Timing error	±0.5min
Pharmacopoeia parameter calling	The instrument saves 300 dissolution test parameters in Chinese Pharmacopoeia, which can be called randomly.
Standard configuration	8 paddles and 8 cups
Electrical heating power	1100W
Large screen liquid crystal display and intelligent menu operation.	
The head can lift and descend automatically and attaches overturn function (a model whose control is very convenient).	
Electronic sensor can monitor the temperatures of various point of water bath case.	
Small cup accessories can be optional.	

Dissolution Testers

DIST-8S

- DIST series of instruments are used to examine the dissolving speed and degree of solid preparations like drug tablets or capsules in the specified solvents.



Features

- It has eight vessels and eight poles, with four vessels and four poles in front and other at back.
- The head moves up/down automatically.
- The basket units and paddle units are made of imported stainless steel (SUS316L).
- The magnetism-pumped circular water current can heat the system evenly, and the bath liquid can achieve an equal temperature.
- A MPU is used in dissolution tester to automatically control the temperature, rotational speed and time, and the parameters can be preset at any time.
- It can be operated conveniently by keystroke. The measurement result is displayed by LCD. The preset and real data can be displayed alternately in time.
- Automation: auto-test, auto-diagnose, auto-alarm.
- Time can be preset at many points. The beeper sounds automatically to any point, and then the tester automatically runs to the next one.

Specification

Model	DIST-8S
Speed range	(20~200)rpm
Speed accuracy	±1rpm
Temperature range	ambient to +45.0 C
Temperature Stability	±0.3 C
Preset timing nine points	(1~999)min
Time accuracy	±0.5min
Paddle radial run-out	±0.5mm
Basket radial run-out	±1.0mm
Power	220V/50Hz/1200W or 110V/60Hz/1200W
Dimension	680mm*540mm*480mm
Package Dimension (W*D*H)(mm)	940*670*640
G.W.(kg)	72

Thawing Time Limit Tester

SMTP-4B

SMTP-4B thawing time limit tester is used to inspect the condition of thawing, softening or dissolution of solid preparations such as suppositories or vaginal tablets under the prescribed conditions. It's a mechatronic product which is designed and produced in accordance with the requirements of Chinese Pharmacopoeia (Edition 2015) on "suppository thawing time limit inspection methods".



Features

- Three-beaker, three-path, three-path synchronization, automatic overturn.
- Double-functional head which can lift and descend electrically and turn over manually
- Transparent sleeve, stainless steel net racks
- Imported stainless steel is adopted for net racks.
- Automatic temperature control, high temperature control precision
- Magnetic water pump circulating water flow uniform heat system is adopted, and bath temperature is uniform.
- Three parameters including running time, overturn frequency and bath temperature can be preset arbitrarily; preset value and real-time value are displayed by time division. The system provides three kinds of shortcut modes for customer choice:
 - P1:** run for 30min, the metal racks turn over once automatically every 10 minutes
 - P2:** run for 60min, the metal racks turn over once automatically every 10 minutes
 - P3:** run for 30min, the metal racks don't turn over.
- Automatic temperature control, automatic time keeping, timing overturn indication forecast and fault alarm.

Specification

Model	SMTP-4B
Number of sleeve racks	3 sets
Size of transparent sleeve	height:60mm inner diameter: 52mm
stainless steel net rack	2 sheets, diameter of 50mm, with 39 holes of 4mm.
Timing range	(10~900)min
Timing precision	±0.5min
Temperature control range	(20~45) C
Temperature control precision	±0.5 C
Volume of beaker	5L(3PCS)
Power supply	220V/50Hz/1000W

Dissolution Testers

DIST-12



Features

- The head moves up/down automatically..
- Available for installation of 12 basket rods or paddle rods.
- Available for installation of 12 new dissolution cups with the height of 185mm and shading dissolution cups as well.
- Friendly human-computer interface, with simple and convenient operation.
- All the working parameters can be preset and saved automatically, without the need to set repeatedly when the instrument is started next time
- Accurate rotating speed, steady operation and low energy consumption.
- Thermostatic water bath adopts built-in integrated temperature sensor and new software and hardware temperature measurement and control mode, which is featured by fast temperature rise and high precision; temperature deviation can be corrected with software conveniently.
- Independent operation of startup, pause and reset for experimental timing.
- Automatic protection functions such as self-inspection fault alarm and over-temperature protection, etc.
- The paddle rod, basket rod and basket turning body are all made of stainless steel material meet the requirements of Chinese Pharmacopoeia in quality and performance.

- Large screen liquid crystal display and intelligent menu operation.
- Electronic sensor can monitor the temperatures of various point of water bath case.

Specification

Model	DIST-12
Amplitude of swing of stirring paddle	≤0.3mm
Amplitude of swing of rotation basket	≤0.8mm
Deviation of rotating rod and axle of dissolution cup	≤1mm
Speed adjustable range	20-200 rpm
Rotating speed resolution	1 time/min
Water bath temperature adjustment range	Room temperature-45℃
Temperature resolution	0.1℃
Temperature control accuracy	≤±0.3℃
Number of sampling periods	9 different sampling periods can be preset.
Time of sampling period	1-999min optional for each period , 9 sampling periods can be counted down by sections.
Timing error	±0.5min
Pharmacopoeia parameter calling	The instrument saves 300 dissolution test parameters in Chinese Pharmacopoeia, which can be called randomly.
Standard configuration	12 paddles and 12cups
Electrical heating power	1100W

Medicine Stability Testing Chamber

ICB-MS Series



Safety Device

- Over temperature protection
- Compressor over current protection
- Over compressing protection
- Water shortage protection
- Heater overheat protection
- Audible and visual alarm system

Main features of host of gel strength tester

- Dual refrigeration system.(Excluding ICB-MS175-H、ICB-MS175-HL、ICB-MS175-L)
- Imported compressor with self-developed compressor cooling system, extend service life of the compressor.
- Imported humidity sensor, ensuring high accuracy of humidity.
- PID control for temperature and humidity, more accurate,easy menu operation interface.
- Over-temperature alarm system:automatically stop working when exceeded the limit temperature and send out audible and visual alarm,ensure experiments run safely.
- Large LCD screen/touch screen(T-H series) to display more data at same time.
- Newest multi-segment programmable control technology for temperature and humidity, high precision.With multiple programs and multiple cycles, each cycle is divided into 30 segments, each segment contains 99 hours and 99 minutes of cycle steps, it can happily meet almost all the complicated experiment process.
- Equipped with JAKEL circulation fan ,unique designed air duct for good air circulation, ensuring good temperature uniformity inside.
- Equipped with built-in stainless steel water tank at the bottom of equipment to supply water by pump for the humidification tank.
- Equipped with spare temperature control which ensures the product work normally even the main temp.control failed(for heating).
- Equipped with printer which can record and print the operating parameters at any time.
- Mirror stainless steel chamber, adjustable shelf.
- The chamber is equipped with a power socket and UV lamp for sterilization.
- Double door design. Tempered glass inner door for clear observation.
- The outer door adopts magnetic seal design, good sealing performance.

Specification

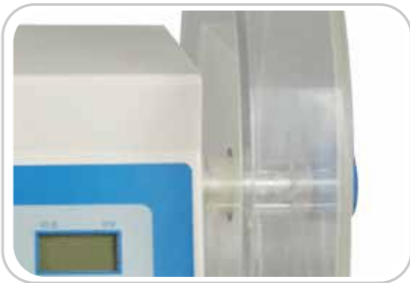
Model	ICB-MS175-H ICB-MS275-H ICB-MS375-H ICB-MS475-H ICB-MS800-H ICB-MS1075-H	ICB-MS175-HL ICB-MS275-HL ICB-MS375-HL ICB-MS475-HL ICB-MS800-HL ICB-MS1075-HL	ICB-MS175-L ICB-MS275-L ICB-MS375-L ICB-MS475-L ICB-MS800-L ICB-MS1075-L
	Temperature & Humidity	Temperature & Humidity & Light	
Temperature Range(℃)	0~65	Without Illumination:4~60 With Illumination:10~60	
Temperature Fluctuation	±0.5℃	±0.5℃	
Temperature Uniformity (℃)	±2	±2	
Humidity Range(RH)	30~95%	30~95%	None
Humidity Stability(RH)	±3%RH	±3%RH	
Temperature Resolution(℃)	0.1	0.1	
Illumination(LX)	None	0~6000 adjustable	
Illumination Difference((LX)		≤±500	
Timing Range	1~99 hours/period	1~99 hours/period	
Temp.and Humidity adjusting	Balance temperature and humidity adjusting	Balance temperature and humidity adjusting	Balance temperature adjusting
Cooling System	Imported compressor	Imported compressor	
Sensor	PT100 / Capacitance sensor	PT100 / Capacitance sensor	PT100
Ambient Temperature	RT+5~30℃	RT+5~30℃	
Power Supply	AC 220V±10% ,50HZ	AC 220V±10% ,50HZ	
Power Rating(W)	1400/1950/2600/2800/3000/3200	1650/2200/2700/2900/3100/3300	1300/1750/2400/2600/2700/2800
Chamber Volume(L)	175,275,375,475,800,1075	175,275,375,475,800,1075	
Chamber Size(W×D×H)mm	450×420×930	450×420×930	
	580×510×935	580×510×935	
	590×550×1160	590×550×1160	
	700×550×1250	700×550×1250	
	965×610×1370	965×610×1370	
	950×700×1600	950×700×1600	
Shelf	3	3	
Printer	Yes	Yes	
Safety Device	Compressor overheating and over pressure protection, Fan overheating protection, Over temperature protection, Overload protection,water shortage protection	Compressor overheating and over pressure protection, Fan overheating protection, Over temperature protection, Overload protection,water shortage protection	

Friability Tester

FRAT-1



- Friability tester is used to test the physical properties of non-coated tablets in mechanical stability, abrasion resistance collision resistance and so on in the process of production, packaging and storage; it can also test the friable condition of tablet coating and capsules.



Features

- Single path and double cylinder, synchronous operation and automatic stop.
- The parameters like number of turns and rotating speed can be preset arbitrarily, which provides multiple choices for the experiment.
- Intelligently control two performance parameters like the rotating speed of cylinder and revolutions.
- LCD for the instrument, displaying the preset value and real-time value through time division.

Specification

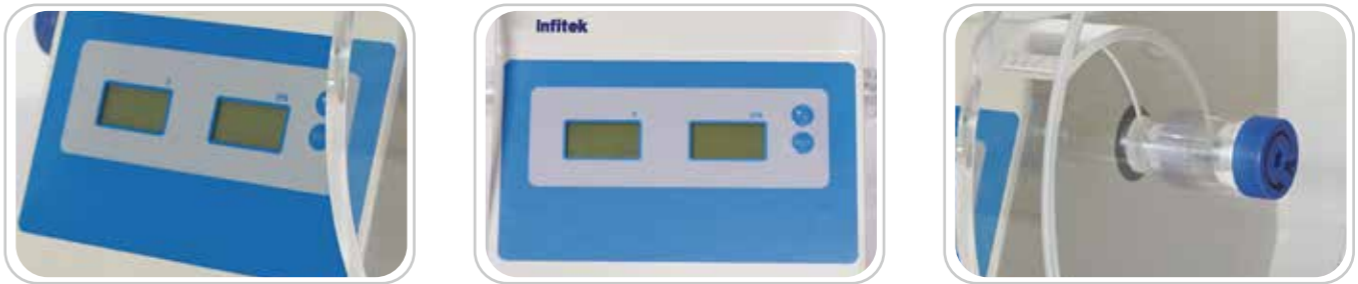
Model	FRAT-1
Number of cylinder	2
Rotating speed	20~100 rpm can be set arbitrarily
Rotating accuracy	±1 rpm
Counting mode	5 turns~900 turns can be set arbitrarily; countdown is adopted.
Inner diameter of cylinder	286mm
Cylinder depth	39mm
Sliding height	156mm
Power supply	220V50Hz
Total power	40W
Overall dimensions	L*W*H (370mm *300mm *340mm)

Friability Tester

FRAT-2



- Friability tester is used to test the physical properties of non-coated tablets in mechanical stability, abrasion resistance collision resistance and so on in the process of production, packaging and storage; it can also test the friable condition of tablet coating and capsules.



Features

- Single path and double cylinder, synchronous operation and automatic stop.
- The number of turns and rotating speed adopt the standard of Pharmacopeia, dispensing with modification, which enables the operation to be simple and convenient.
- LCD for the instrument, displaying the preset value and real-time value through time division.

Specification

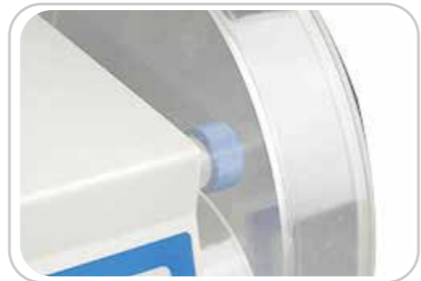
Model	FRAT-2
Number of cylinder	2
Rotating speed	25 rpm
Rotating accuracy	±1 rpm
Counting mode	100 turns; countdown is adopted.
Inner diameter of cylinder	286mm
Cylinder depth	39mm
Sliding height	156mm
Power supply	220V50Hz
Total power	20W
Overall dimensions	L*W*H (370mm *300mm *340mm)
Package Dimension (W*D*H)(mm)	460*420*540
G.W.(kg)	11.2

Friability Tester

FRAT-3



- Friability tester is used to test the physical properties of non-coated tablets in mechanical stability, abrasion resistance collision resistance and so on in the process of production, packaging and storage; it can also test the friable condition of tablet coating and capsules.



Features

- Single path and double cylinder, synchronous operation and automatic stop.
- LCD for the instrument, displaying the preset value and real-time value through time division.
- The parameters of number of circles can be preset at will.

Specification

Model	FRAT-3
Number of cylinder	2
Rotating speed	25 rpm can be set arbitrarily
Rotating accuracy	±1 rpm
Counting mode	5 turns ~ 900 turns can be set arbitrarily; countdown is adopted.
Inner diameter of cylinder	286mm
Cylinder depth	39mm
Sliding height	156mm
Power supply	220V50Hz
Total power	20W
Overall dimensions	L*W*H (370mm *300mm *340mm)
Package Dimension (W*D*H)(mm)	420*460*550
G.W.(kg)	12

Friability Tester

FRAT-4



- series of instruments are used for detecting friability/ abrasion of tablet.



Features

- Single path and single cylinder, separate operation and automatic stop.
- The cylinder is made of high-quality colorless transparent organic glass.
- LCD for the instrument, displaying the preset value and real-time value through time division.
- Automation: auto-test, auto-diagnose, auto-alarm.

Specification

Model	FRAT-4
Cylinder number	1
Cylinder radius	Φ286mm
Cylinder depth	39mm
Tablet fall height	156mm
Rotation speed	25rpm
Rotation Speed accuracy	±1rpm
Rotation count	(5~900)turns
Rotation count accuracy	±1turns
Power	220V/ 50Hz/ 50W or 110V/ 60Hz/ 50W
Dimension	(300×200×340)mm ³

Friability Tester

TABT-2



- The intelligent dual-purpose tablet tester is used to test the hardness and friability of the tablet. It is an ideal multi-purpose drug testing instrument. It complies with the 2020 edition of the Pharmacopoeia.



Features

- Intelligent, automatic control, detection, diagnosis, and alarm.
- Automatically controls the cylinder rotation speed and the rotation number with high control accuracy.
- Hardness high-precision pressure sensor, digital display hardness value.
- Continuous measurement of the hardness value of the tablet, manual loading of the tablet, motor control, automatic pressure.
- Automatic display, lock, reset, cycle
- It can measure hardness and diameter simultaneously

Specification

Model	TABT-2
Loop Number Range	1~900 laps
Cylinder Number	2
Cylinder Size: inner diameter	286mm / depth: 39mm
Slide Height	156mm
Cylinder Speed	25±1 rpm
Hardness Range	2~489.9 N
Diameter Range	3~40mm
Power Source	220V/50Hz/40W

Intelligent Four-function Tablet Tester

TABT-4



Main features

- Smart, automatic control, automatic detection, automatic diagnosis and automatic alarm.
- Magnetic water pump circulating water flow uniform heat system is adopted, bath temperature is uniform.
- Automatic temperature control and high temperature control precision.
- Automatic time control and automatic timing shutdown.
- Parameters can be preset arbitrarily; preset value and real-time value can be displayed by time division.
- The three dissolution cups and three rods are in a single row; the head part can be turned over manually, it's steady and flexible.
- Imported SUS316L stainless steel is adopted for dissolution rotation baskets and paddle rods, etc.
- Two-path disintegration operates at the same time, automatic timing shutdown.
- Automatic control of friability and high control precision for cylinder rotation speed and number of turns.
- Hardness high-precision pressure sensor, digital display of hardness value.
- Continuous measurement of tablet hardness value, manual tablet feeding, motor control and automatic compression.
- Automatic display, automatic latching, automatic reset and automatic cyclic test

- Intelligent four-function tablet tester is used to test the hardness, friability, disintegration time limit and dissolution rate; it's a very ideal multi-purpose drug test instrument.



Specification

Model	TABT-4
Dissolving quantity	3PCS
Temperature control range	(20~40)℃±0.3℃
Speed adjustable range	(20~200)rpm±2rpm
Timing range	(1~900)min±0.5min
Swing of paddle rod	±0.5mm
Swing of rotation basket	±1.0mm
Number of baskets	2
Reciprocation frequency	(30~32)times/min
Reciprocation stroke	(55±2)mm
Number of cylinders	1
Cylinder size inner diameter	inner diameter:286mm, depth:39mm
Sliding height	156mm
Cylinder speed	(25±1)times/min
Number of cylinder turns	(100±1)turns
Hardness range	(2~199)N±1N
Diameter range	(3~40)mm
Power supply	220V/50HZ/600W
Overall dimensions	(57×52×47)cm ³

Tablet Hardness Tester

THDT-1



- Tablet hardness tester is used to measure the crushing hardness of tablets.

Features

- High-precision pressure sensor ensures the precision and reproducibility of test.
- Manual loading and manual tablet compressing, easy operation.
- The system can realize automatic display, automatic latching, automatic reset, automatic cycle test, automatic linear error correction and automatic fault diagnosis.
- Provide the function of unit conversion, which can realize the conversion both before or after the tests.
- The user can use the standard weight to correct the measurement accuracy of the instrument regularly, which is very convenient.



Specification

Model	THDT-1
Hardness test range	2-198N 0.2KG-20KG
Resolution	0.1N 0.01Kg
Hardness measurement accuracy	range±0.5%
Tablet measurement diameter	2-20mm
Machine power	10W
Overall dimensions	L*W*H 280mm*180mm*110mm

Tablet Hardness Tester

THDT-2



- Tablet hardness tester is used to measure the crushing hardness of tablets.

Features

- High-precision pressure sensor ensures the precision and reproducibility of test.
- High-definition LCD is adopted, the display contents are rich; users can enjoy intelligent operations according to the screen tips, Chinese character hint and quantitative index are provided for each operational process.
- Optional for measuring mode: Manual single tablet/automatic continuation.
- The system can realize automatic tablet compressing, automatic display, automatic latching, automatic reset, automatic cycle test, automatic linear error correction and automatic fault diagnosis.
- For the automatic and continuous tests, provide the function of inquiring the previous test results, which is convenient for data recording.
- Automatic calculation of tablet return travel can compress your test duty time.
- One-key conversion of measuring unit (Newton-Kilogram)
- Convenient and efficient measurement of tablet diameter.



Specification

Model	THDT-2
Hardness test range	2-200N 0.2KG-20KG 【Customizable 500N(50KG)】
Resolution	0.1N 0.01Kg
Hardness measurement accuracy	range±0.5%
Tablet measurement diameter	2-40mm
Repeated measurement error	±1%
Measuring unit	Newton (N) Kilogram(KG) Kilogram force(Kgf) (1Kgf=9.81N)
Number of testing tablets in each group	≤100 tablets
Machine power	40W
Overall dimensions (L*W*H) (mm)	400*240*140
Package Dimension (W*D*H)(mm)	530*380*270
G.W.(kg)	10.5

Tablet Hardness Tester

THDT-3



- Tablet hardness tester is used to measure the crushing hardness of tablets.

Features

- High-precision pressure sensor ensures the precision and reproducibility of test.
- The high-definition LCD screen displays rich content. Users can enjoy intelligent operation according to the screen prompts. Prompts and quantitative indicators are given for each operation process.
- Optional for measuring mode: Manual single tablet/automatic continuation.
- The system can realize automatic tablet compressing, automatic display, automatic latching, automatic reset, automatic cycle test, automatic linear error correction and automatic fault diagnosis.
- Strong data processing ability; statistics, analysis, printing and display are available for test result. It can submit the reports of maximum and minimum values, standard deviation and range of change of the test sample.
- Automatic calculation of tablet return travel can compress your test duty time.
- One-key conversion of measuring unit (Newton-Kilogram)
- New type front paper change mini-printer.
- Convenient and efficient measurement of tablet diameter.

Specification

Model	THDT-3
Hardness Test Range	2~350N, can be customized to 500N (50kg)
Resolution	0.1N (0.01kg)
Hardness Measurement Accuracy	Range \pm 0.5%
Tablet Measurement Diameter	2~40mm
Repeated Measurement Error	\pm 1%
Number of Testing Tablets in Each Group	\leq 100 tablets
Measurement Unit	Newton (N) Kilogram force(kgf) (1kgf=9.81N)
Interface	Standard serial printing interface, with built-in micro printer (optional dot matrix printer)
Overall Dimensions(L*W*H)	500mm*400mm*160mm

Thickness Testers

THKT-1



Features

- For measuring the wall thickness and top thickness of capsules.
- Domestic high-quality precision dial indicator measurement with high test accuracy.

Specification

Model	THKT-1
Test range	(0~5)mm
Test accuracy	±0.01mm
Type of capsule	00,0,1,2,3,4 type capsule
Dimension	200mm×80mm×50mm

Thickness Testers

THKT-2



Features

- Measure the wall thickness and top thickness of various capsules as well as the diameter and thickness of various tablets, pills, etc.
- Domestic high-quality precision dial indicator measurement with high test accuracy.

Specification

Model	THKT-2
Test range	(0~30)mm
Test accuracy	±0.01mm
Type of capsule	00,0,1,2,3,4 type capsule
Range of test tablet	0~30mm
Dimension	200mm×80mm×50mm

Thickness Testers

THKT-3



Features

- For measuring the wall thickness and top thickness of capsules.
- Domestic high-quality precision dial indicator measurement with high test accuracy.

Specification

Model	THKT-3
Test range	(0~5)mm
Test accuracy	±0.01mm
Type of capsule	00,0,1,2,3,4 type capsule
Dimension	160mm×60mm×50mm

Thickness Testers

THKT-4



Features

- Measure the wall thickness and top thickness of various capsules as well as the diameter and thickness of various tablets, pills, etc.
- Domestic high-quality precision dial indicator measurement with high test accuracy.

Specification

Model	THKT-4
Test range	(0~30)mm
Test accuracy	±0.01mm
Type of capsule	00,0,1,2,3,4 type capsule
Range of test tablet	0~30mm
Dimension	160mm×60mm×50mm