



SmartCrock Crockmeter

SmartCrock is used to test the color fastness of textiles or leather under wet and dry rubbing conditions. It is a highly automated instrument. After installing the dry rubbing cloth, press the start button. And the rubbing head will descend for testing. It will raise when the test is finished. When you replace by the wet rubbing cloth, just shift the loading table left and right to start the wet rubbing color fastness test. If a test is not smooth, the rubbing table can be moved again for the third test. It is automatic and efficient. It saves 40% of the sampling and testing time by reducing manual influence on the test results.

SmartCrock

Crockmeter



- **Automatic stretching device for elastic fabrics, more accurate testing**

The patented sample clamping and stretching device solves the problem of wrinkles when testing knitted samples: it automatically stretches the samples to the same distance while clamping, avoiding wrinkles or overstretching of the samples and making the test more accurate and reproducible.

- **Wet and dry friction tests can be performed in a single test, 40% faster.**

Only one piece of sample is needed in direction of warp and weft, and through the innovative flexible platform, the dry and wet friction tests can be completed successively on the same piece of cloth, which saves sampling and loading time and greatly speeds up the test by 40%.

- **Smart Color Fastness to Rubbing Test**

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



Power

220/110V 50/60 Hz



Weight

23kg



Dimension

663*173*250 mm (L*W*H)

The specification of SmartCrock

Friction head	diameter 16 mm
Vertical pressure	9N +/- 10%
Friction stroke	104 mm

Standard accessories

- AATCC friction cloth
- Sandpaper
- Clamping sleeve
- Sampling plate

Optional accessories and consumables

- AATCC/ISO Friction Cloths
- AATCC/ISO stained gray card
- Sandpaper
- Rectangular test head with clamping ring
- Round clamping ring

Standard

ISO 105x12 (round friction head), AATCC 8, GB/T 3920 (round friction head), ISO 20433 Method C;

Optional standard

ISO 105xD02, AATCC 165, ISO 105x12 (rectangular friction head), GB/T 3920 (rectangular friction head)



WashTrue

Washing Color Fastness Tester

WashTrue uses an intelligent temperature control algorithm. It ensures the washing color fastness test meets requirements and gives reliable results. A series of test operations can be done on the touch screen. They include selecting standards, parameters, time, and temperature. Also, you can add or drain water. The system is intelligent and efficient. After the test, the buzzer alarms automatically. Multi-safety design, and can be low noise and long time running. There are two different specifications of single and double cylinders. Double cylinder model, two cylinders independent control.

WashTrue

Washing Color Fastness Tester



Easy to use and Efficient

The smart screen interface allows direct access to a variety of operations: selection of test standards, customization of test parameters, temperature calibration, selection of temperature increase rate, setting of time, heating temperature, etc.

Precise temperature control, more reliable testing

Smart temperature control algorithm achieves accurate and effective test water temperature control.

Humanized design, durable

Multiple safety protection design, the test rotating frame is equipped with an anti-jamming function to protect the instrument.

The heating is achieved by solid state relay controlled electric, bringing more stable temperature and longer service life.

The water tank is made of SUS304 material, also durable.

Smart Color Fastness to Washing Test

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



Power

AC/220V/3N/50/60Hz 40A

AC/380V/3N/50/60Hz 23A



Weight

150kg



Dimension

1060*720*860 mm(L*W*H)

The Specification

Temperature setting range:	Normal temperature (>0°C)~ 95°C
Heating rate:	1.5±0.5°C/min
Temperature accuracy:	± 2°C
Speed:	40 ± 2 r/min
Distance from the bottom of the cup to the rotary axis:	45±10 mm

Standard Accessories

Test steel cup	
550±50mL or 1200±50mL	12 pcs
Stainless steel ball	
Φ 6±0.5mm	200 pcs
Fuse ,380V 32A	4pcs
Inlet pipe	1pc
Drain pipe	1pc
Tape	1pc
Screwdriver	1pc
Throat hoop	1pc
Sampling plate	
40 x 100 mm	
50 x 100 mm	
50 x 150 mm	3pcs
Rubber gloves	1pc
ISO sealing or AATCC sealing	12 pcs
measuring cup 100ml	1pc

Optional Accessories

Test steel cup,550±50mL,	1pc
Test steel cup,1200±50mL,	1pc
Stainless steel ball Φ 6±0.5mm	1pc
Stainless steel sheet Φ 30±2mm thickness 3±0.5mm	1pc
ISO color change gray card	1pc
ISO color change gray card	1pc
AATCC color change gray card	1pc
DW Multi-Fiber Cloth 50m/box	1pc
AATCC No.10 Multi-Fiber Cloth 25m/roll:	1pc

Standard

ISO 105 C06: 2010 AATCC61-2013e3 GB/T 12490-2014
 ISO105-C08-2010 GB/T 29255-2012 ISO105-C09-2010/amd.1:2003
 GB /T 23343-2009 ISO 105 C10: 2006
 GB /T 3921-2008 ISO105-E03:2010 ISO105-E12:2010
 M&S C4A AATCC190-2010e2(2016)e2 NEXT TM 02

Optional Standard

ISO105-D01: 2010
 GB/T 5711-2015 AATCC132-2004e3



WashTrue

Washing Color Fastness Tester

WashTrue uses an intelligent temperature control algorithm. It ensures the washing color fastness test meets requirements and gives reliable results. A series of test operations can be done on the touch screen. They include selecting standards, parameters, time, and temperature. Also, you can add or drain water. The system is intelligent and efficient. After the test, the buzzer alarms automatically. Multi-safety design, and can be low noise and long time running. There are two different specifications of single and double cylinders. Double cylinder model, two cylinders independent control.

WashTrue

Washing Color Fastness Tester



Easy to use and Efficient

The smart screen interface allows direct access to a variety of operations: selection of test standards, customization of test parameters, temperature calibration, selection of temperature increase rate, setting of time, heating temperature, etc.

Dual-cylinder models and they are independently controlled.

It allows two sets of tests to be performed at the same time. For example, one cylinder can be used for routine washing color fastness tests, while the other can be used for tests at different temperatures, times, or chemical agent conditions.

Precise temperature control, more reliable testing

Smart temperature control algorithm achieves accurate and effective test water temperature control.

Humanized design, durable

Multiple safety protection design, the test rotating frame is equipped with an anti-jamming function to protect the instrument.

The heating is achieved by solid state relay controlled electric, bringing more stable temperature and longer service life.

The water tank is made of SUS304 material, also durable.

Smart Color Fastness to Washing Test

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. And the instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



Power

AC/220V/3N/50/60Hz 40A

AC/380V/3N/50/60Hz 23A



Weight

255kg



Dimension

1180*780*920 mm(L*W*H)

The Specification

Temperature setting range:	Normal temperature (>0°C)~ 95°C
Heating rate:	1.5±0.5°C/min
Temperature accuracy:	± 2°C
Speed:	40 ± 2 r/min
Distance from the bottom of the cup to the rotary axis:	45±10 mm

Standard Accessories

Test steel cup		
550±50mL	1200±50mL	12pcs/12pcs
Stainless steel ball		
Φ 6±0.5mm		200pcs
Fuse ,380V 32A		4pcs
Inlet pipe		1pc
Drain pipe		1pc
Tape		1pc
Screwdriver		1pc
Throat hoop		1pc
Sampling plate		
40 x 100 mm		
50 x 100 mm		
50 x 150 mm		3pcs
Rubber gloves		1pc
ISO sealing	AATCC sealing	12pcs/12pcs
measuring cup 100ml		1pc

Optional Accessories

Test steel cup,550±50mL,	1pc
Test steel cup,1200±50mL,	1pc
Stainless steel ball Φ 6±0.5mm	1pc
Stainless steel sheet Φ 30±2mm thickness 3±0.5mm	1pc
ISO color change gray card	1pc
ISO color change gray card	1pc
AATCC color change gray card	1pc
DW Multi-Fiber Cloth 50m/box	1pc
AATCC No.10 Multi-Fiber Cloth 25m/roll:	1pc

Standard

ISO 105 C06: 2010 AATCC61-2013e3 GB/T 12490-2014
 ISO105-C08-2010 GB/T 29255-2012 ISO105-C09-2010/amd.1:2003
 GB /T 23343-2009 ISO 105 C10: 2006
 GB /T 3921-2008 ISO105-E03:2010 ISO105-E12:2010
 M&S C4A AATCC190-2010e2(2016)e2 NEXT TM 02

Optional Standard

ISO105-D01: 2010
 GB/T 5711-2015 AATCC132-2004e3






SmartDispen Detergent Dispenser

The SmartDispen is a sample preparation device for soaping washing color fastness testing, which greatly improves the accuracy and efficiency of testing. It weighs soap flakes and dispenses water, then heats and stirs. And dispenses soap based on the sample bath ratio. Finally, it outputs a set number of steel beads. This prepares the soap for color fastness testing in one step. This reduces manual error and makes the test more reliable. The three-station design can prepare three different samples at once.

SmartDispen

Detergent Dispenser



	Power 220V 50HZ
	Weight 70kg
	Dimension 610*510*530 mm (L*W*H)

The Specification of SmartDispen

Balance	weighing limit 600g, accuracy ± 0.01g
Soap tank	working volume 5000ml * 3
Single pumping volume of soap	2.5~1000ml
Liquid output accuracy	1ml±5%
Soap pumping speed	≤ 28ml /s (with steel balls)
Temperature control range	0~60°C, precision ±1°C
Grade of water	Tertiary water (purity)

- **Three stations can be operated independently to dispense different soaps.**

The three stations can be independently temperature controlled and they can dispense soap separately, so the sample preparation for washing color fastness testing can be completed within minutes. This greatly improves the efficiency of sample preparation and allows the textile laboratory to perform more wash color fastness tests per day.

- **More reliable testing**

High-precision balance for automatic weighing, automatic soap dispensing according to the strict bath ratio, and fully automatic soap flake stirring and dispensing, as well as precise temperature control and ball counting, all make sample preparation more accurate and testing more reliable.

- **Smart Sample Preparation Device**

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Sample orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The operator can remotely monitor the status of sample preparation. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



SmartFill Liquid Filling Machine

The SmartFill is a matching device of washing color fastness tester, which can greatly improve the accuracy and efficiency of the test.

It is equipped with a weighing balance. After weighing the sample, it automatically prepares and heats the soap solution according to the set bath ratio, and outputs the soap solution at a constant temperature, also outputs the set number of steel balls into the test cup.

The SmartFill makes sample preparation more accurate and efficient, and it enhances economic efficiency by allowing wash color fastness testing to be done immediately without waiting.

The SmartFill can also be connected to the SmartTexLab App installed in the smartphone via WIFI, allowing the operator to perform a series of operations on the phone, such as setting the bath ratio, and temperature, and making appointments for replenishment of the soap and heating, etc.

SmartFill Liquid Filling Machine



The Specification of SmartFill

Balance weighing limit	600g, accuracy $\pm 0.01g$
Soap tank	working volume 6500ml (Soap can be refilled automatically)
Single pumping volume of soap	2.5~1000ml,
Liquid output accuracy	1ml $\pm 5\%$
Soap pumping speed	$\leq 28ml / s$ (With steel balls)
Temperature control range	0~65°C, precision $\pm 1^\circ C$



Power

220/110V 50/60Hz



Weight

45kg



Dimension

500*500*520 mm(L*W*H)

Smart Sample Preparation Device For Wash Color Fastness Test

The instrument is connected via IoT to the SmarTexLab APP in the phone/PC. And The app can connect to ERP/LIMS via an API. Or, the instrument can connect directly to ERP/LIMS. You can get the sample preparation order and sample preparation process, sample preparation results, etc., from the system, and the system automatically summarize them into a sample preparation report. The report can be sent to SmarTexLab or ERP/LIMS. The relevant parties can view the report in real time. In SmarTexLab, You can chat with ChiuVention service staff for quick support. You'll get reminders that instruments need calibration, maintenance, and new consumables. Regular OTA remote upgrades are available.

More accurate testing

The high precision balance weighs the sample, and the soap dosage is automatically dispensed strictly according to the bath ratio, accurate to 1ml, together with the precise temperature control and steel ball counting, it makes the whole sample preparation more accurate, thus making the test of washing color fastness more reliable.

Testing is more efficient, saving nearly 30% of individual labor costs each year.

By choosing SmartFill, for 1 wash color fastness tester with 12 test cups, each test preparation can save 10 minutes, according to 200 samples per day, or save 30% of individual labor costs for enterprises in a year.

Well-known brands are using.

Anta supply chain chose SmartFill, which more quickly and efficiently got the garment color fastness data so that corporate brand and quality management became more scientific.

