

## Elevatable R1600mm Swing Tube Splash Water Test Chamber IPX3 IPX4

Our Product Introduction

### Basic Information

- Place of Origin: Guangdong , China
- Brand Name: YueXin
- Certification: ISO 20653:2013, DIN 40050-9:1993, IEC60529:2013 VW 80000:2017 LV124 K-10
- Model Number: YX-IPX34CLE-R1600
- Minimum Order Quantity: 1 pcs
- Price: usd+20000-50000+pcs
- Packaging Details: wooden box package
- Delivery Time: 30-45 days
- Payment Terms: T/T
- Supply Ability: 100+pcs+30



### Product Specification

- IP Code: IPX3 IPX4
- Turn Table Diameter: 1000mm
- Type: Rain Spray Environmental Equipment
- Rotating Speed: 1-5 Rounds Per Minute
- Turn Table Load Bearing: 50KG
- Radius Of Swivel Tube: R600mm - R1600mm
- Simulated Environment: Rain、 Splash Water
- Title: Waterproof Test Machine , Swing Tube Rain Test Apparatus
- Highlight: **Elevatable Splash Water Test Chamber ,  
Swing Tube Splash Water Test Chamber ,  
Splash Water Test Chamber IPX3**

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## Product Description

### Elevatable IPX3 IPX4 R1600 mm Swing Tube Rain Testing Machine with Flow Sensor

#### General specifications:

Extrinsic Dimension	L3200*W800*H2200
Material	304 stainless steel
Power supply	220V/50HZ
Power	1.0kW

#### The product detail description:

Through a sophisticated lifting mechanism, the height of the swing tube on this apparatus can be customized, catering to diverse product sizes and specific testing needs by manipulating its vertical position and inclination. This feature enhances the possibility of achieving premium testing performance. Furthermore, the installation of a flow sensor characterized by exceptional repeatability narrows the margin of error in consecutive measurements, ensuring measurement data remains steadfast and dependable.

The counterweight is added at the bottom of the case to lower the center of gravity of the case and make the device more stable when swinging.

There is a water storage tank inside the equipment and a water level control system. When it is short of water, it will alarm.

The sample power socket (220V, 10A) is mounted under the control cabinet, which is convenient for the user to do the live test of the sample; and after the sample is powered on, the turntable rotation will be automatically adjusted to forward and reverse rotation to prevent winding<sup>5</sup>. The swing tube is driven by a servo motor, with precise swing angle and low noise.

Controller: 7-inch touch screen + PLC, using Yuexin self-developed software, which can be switched to multiple languages<sup>6</sup>.

Stainless steel counterweights are added at both ends of the swing tube to improve the fluency of swing and reduce the shaking range of the swing tube.

Universal casters are mounted on the bottom, which has good load-bearing and easy to move and fix the equipment.

Protection measures: short circuit protection, water shortage alert.

#### Standard technical parameter :

Item	Specification
Radius of swivel tube <sup>7</sup>	R1600
Diameter of swivel tube	3200mm
Internal diameter of swivel tube	15mm
Internal diameter of nozzle	0.4mm
Number of nozzles of swivel tube	See remark <sup>8</sup>
Distance between nozzles	50mm
Test time	0-999min
Speed of rotation of the swivel tube	60 degree/s
Swing pipe angle	IPX3:120°; IPX4:350°
Water volume flow	IPX3: 4.7(L/min) ; IPX4: 7.0(L/min)
Water pressure	Not adjustable (pressure gauge display)
Power supply	220V/50HZ
Power	1.0kW

#### Working environment:

The rain testing facility serves a broad spectrum of industries, primarily tasked with verifying the watertight integrity of different products under multiple simulated rainfall conditions. Its vital role is evident in sectors like automotive and automotive components, electronics and subcomponents, exterior equipment, construction materials, and notably, the military and aerospace realms.

#### Announcements:

1 The pictures in this document are for customer reference only, and there may be color differences between the actual model and the pictures.

2 This document only lists some test standards, which does not mean that other test requirements and standards cannot be conducted. Welcome to communicate and discuss with us.

3 One test only at the same time. The next project can be only carried out after the current test is completed. In addition, we can provide multi-functional customized test solutions according to user requirements.

4 Standard load-bearing upper limit of turntable is 50kg, but also can be customized per requirements.

5 Please inform in advance if the voltage(220V) does not match the actual needs so that we can provide customized solutions for you.

6 At present, only Chinese and English interfaces are supported; if other languages are introduced, the software can be updated remotely.

7 The swing pipe can be equipped with a variety of specifications, which can be selected according to the sample size range (satisfying the spray distance <200mm), please confirm clearly before placing an order.

8 The specifications of swing pipe for IPX3/4 rain test, as shown in the figure below:

**Table 9 – Total water flow rate  $q_v$  under IPX3 and IPX4 test conditions –  
Mean flow rate per hole  $q_{v1} = 0,07$  l/min**

Tube radius $R$ mm	Degree IPX3		Degree IPX4	
	Number of open holes $N^{1)}$	Total water flow $q_v$ l/min	Number of open holes $N^{1)}$	Total water flow $q_v$ l/min
200	8	0,56	12	0,84
400	16	1,1	25	1,8
600	25	1,8	37	2,6
800	33	2,3	50	3,5
1 000	41	2,9	62	4,3
1 200	50	3,5	75	5,3
1 400	58	4,1	87	6,1
1 600	67	4,7	100	7,0

1) Depending on the actual arrangement of the hole centres at the specified distance, the number of open holes  $N$  may be increased by 1.

9 The photos may not match the actual ones, and are for user reference only.

**Detail picture:**



aviation plugs

**Tags:** Swing Tube Water Spray Testing Apparatus, Rain Spray Environmental Test Machine, IPX3 IPX4 Rain Testing Machine



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