

## SY-31 Centrifugal Constant Acceleration Tester



The SY-31 centrifugal constant acceleration tester is used to examine whether the components, equipment sets, and other electronic goods suffered by the force (except gravity) at constant acceleration can offer normal operation and structural load bearing capacity in expected service environments. It can evaluate the structural integrity of some components and the electrical parameters of specimens under constant acceleration.

### Functions and Features

1. Specimens can be provided with liquid, gas, and electricity in test process. The status of the specimen that bears acceleration is reappeared with reality.
2. Our centrifugal constant acceleration tester is configured with a video monitoring system to supervise the test state.
3. Its interface is remotely controlled by a fully automated computer. The testing equipment will be activated only if an operator inputs simple value. It can complete acceleration tests accurately.
4. Multi-stage acceleration consecutive tests are available on basis of different requirements of specimens.
5. This centrifugal testing machine can realize open-circuit, over-limit and over-speed protection.
6. In case of auto control failure or no auto control, the centrifugal constant acceleration tester will adopt manual control method to accomplish a test.

### Technical Parameters

Model	<a href="#">SY31-30</a>	<a href="#">SY31-50</a>	<a href="#">SY31-100</a>	<a href="#">SY31-100A</a>	<a href="#">SY31-200</a>	<a href="#">SY31-500</a>	<a href="#">SY31-1000</a>
Max. Load (kg)/ Position	30x2	50x2	100x2	100x2	200x2	500	1000
Acceleration (m/s <sup>2</sup> )	30-1000	30-1000	30-1000	30-1000	30 - 700	30 - 500	30-500
Specimen Size (L×W×H: mm)	200x200 x150	200x200 x150	400x400 x 300	500x500 x400	700x700 x700	1000x1000 x1000	1200x1200 x1200
Specimen-Installed Radius (mm)	1250	1350	1750	2250	2500	3000	6250
Turning Radius (mm)	1350	1500	2000	2500	3000	3500	7000
Start Time (min)	≤3	≤3	≤5	≤5	≤5	≤5	≤10
Stop Time (min)	≤3	≤3	≤5	≤5	≤5	≤5	≤10
Continuous Working Time (min)	60	60	60	60	60	30	30
Power Consumption (kVA)	37	37	37	55	90	120	500
Dimension (mm)	Φ3500	Φ4000	Φ5000	Φ6000	Φ7500	Φ8500	Φ16000
Current Collector (optional)	60 ring 500V 5A						
Weight (kg)	2500	2800	3000	3200	8000	13000	35000
Power Supply	Three-phase 380V, 50/60Hz						
Measure and Control System	IPC control						
Standard	GJB150 GJB360 GB/T2423 MIL-STD-810F IEC68-2-7						
Working Environment	Temperature range 0~40°C Humidity range ≤80% (non condensing)						
Remark	The specimen-installed radius, current collector, and control accuracy can be configured according to relevant standard or the requirements of users.						