

# YOUR QUALITY TESTING CHOICE

**NG-ODR – Oscillating Disc Rheometer** 

#### **Standards:**

ASTM D2084, ASTM D5289, ISO 6502

### **Description:**

This machine is designed to get the characteristic curve and characteristic parameters of rubber vulcanization by measuring the applied moment of rubber to the oscillating dye body. NG-ODR rotor-free vulcameter has an excellent stability of results. The data and diagrams can be used as a reference for development, research and production quality.

NG-ODR describes precisely and quickly the curing and processing characteristics of vulcanized rubber compounds. It works on a very simple principle. A test piece of rubber compound is contained in a sealed test cavity under positive pressure and maintained at a specified elevated temperature. A Rotor (oscillating disc) is embedded in the test piece and is oscillated through a small specified rotary amplitude. This action exerts a shear strain on the test piece and the torque (force) required to oscillate the disc depending on stiffness (shear modulus) of the rubber compound.



### **Special Features:**

- Body surface treatment: American DuPont powder and electrostatic painting
- process are adopted. It is cured at 200 °C to ensure long-term color fastness:
- Alpha closed mold cavity structure;
- The alpha force sensor technology is adopted;
- The control accuracy of the heating plate at the inlet of the upper and lower
- mold cavities shall be within ± 0.15 °C;
- The result report can be printed directly to check the change of vulcanization
- curve:
- LED lighting observation is set in the box;
- Software control can independently correct PID parameter values;
- Oil water separator with secondary pass rate self-locking;
- The machine is equipped with self seat platform, storage box cabinet and
- convenient mobile platform;
- The mechanical parts are composed of non corrosive structural aluminum
- and stainless steel materials;
- Metal led button, waterproof, safe and durable, soft vision;
- Color LCD touch screen controls and displays, human-computer interaction
- interface, simple operation, convenient maintenance, stability and reliability;
- One button automatic test, simple and convenient operation.





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### **Technical Specification**

Model	NG-ODR		
Temperature Control	The temperature is controlled by computer, and the drift of upper and lower molds does not exceed 0.2 degrees		
Heating rate	15 °C / min		
Control range	Room temperature to -200 °C		
Minimum display	0.01 °C		
Heating rate	120 °C / min		
Torque range	0 20nm		
Minimum torque reading	0.001nm		
Number of swing angles	± 0.5 °C, ± 1 °C, ± 2 °C (standard matching angle 1 degree)		
Swing angle	100r / min (1.66hz)		
Communication mode	COM port		
Weight	573 lbs / 260kgs		
Voltage	220V		
Power	1000W		

### **Standard Accessories**

Item	QTY	Item	QTY
Sealing rings	10	Heating plate	2
High temperature paper	3	Desktop computer	1
Hexagonal wrench	1	Printer	1

#### **Lead Time**

2-5 Months Depending on when the PO is placed

<sup>\*</sup> Request a <u>formal quotation</u> or send an e-mail to <u>sales@nextgentest.com</u> for the most up-to-date pricing and applicable discounts and incentives