



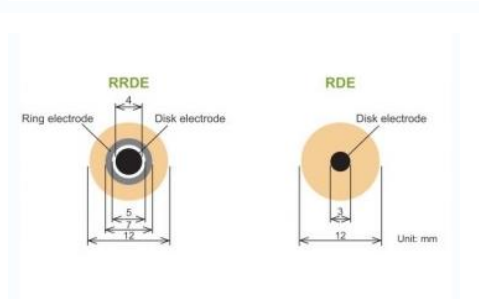
和锐仪器

HERVEY INSTRUMENT CO., LTD

Up-to-dated idea and technology in Electrochemical

Disk Electrode/Ring Disk Electrode/Cylinder Electrode

RRDE-6A Rotation Disk/Ring Disk Electrode



Can be used as:

- Disk electrode
- Ring disk electrode
- Cylinder electrode

simply replacing the different rotating electrode tips on the rotating shaft.

Combined with potentiostat/electrochemical workstation (ring disk electrode must be combined with bi-potentiostat or electrochemical workstation with bi-potentiostat function), widely used in chemical power supply, electroplating, metal corrosion and other application fields and electrical chemical technology research.

Application

- Chemical power supply
- Electroplating
- Metal corrosion

- Electrochemical reaction intermediates
- Material research

Main features

- The host has dual functions of RDE and RRDE, and the speed can be controlled manually or remotely by the electrochemical workstation (1V=1000rpm)
- It has the function of Spin-coating state, the rotating shaft part of the motor can move up and down, horizontally and upside down, so as to facilitate the coating and modification of the working electrode
- working state after adding electrode: Speed range 10~9,000 RPM
- Accuracy and error: 2% @ < 1000 rpm, < 1% @ > 2000 rpm
- Concentric circle, short axis, no rotating rod design, to ensure the best rotating effect, there will be no eccentricity problem
- Speed control: built-in infrared speed measurement and reverse control device to ensure that the actual speed is exactly the same as the set speed
- Height and angle adjustable motor bracket: integrated design, the height of the motor can be adjusted freely on the motor bracket, and can be rotated 180 degrees without disassembly work, which is convenient for users to disassemble the electrode
- Provide gas pipeline connection, double gas pipe blowing design, blowing time, flow size is set by the machine panel
- Compact structure, simple operation and chemical resistance

Technical parameter

Dimension	210 (w) x 240 (d) x 400 mm (h)
Weight	8.5 kg
Rotation range	5 ~8500 rpm, the speed can be displayed and continuously adjustable, and the speed can be adjusted by using an external voltage signal
Accuracy	error: < 1% @ < 1000 rpm, < 0.1% @ > 2000 rpm
Bandwidth	60 Hz @ 3,500 rpm baseline 和 1,000 rpm peak-peak modulation
Rotation axis	Radial runout is less than 0.05mm
Contact resistance	Less than 5 Ω
Insulation resistance	More than 20M Ω

Motor	24 V, Ironless, low inertia DV Servo motor
Power	< 100 VA 100-240 VAC, 50/60 Hz
Work temperature	10~50°C
Intake pressure	5 psi maximum
Remote	1V is equivalent to 1000rpm, and the output voltage is proportional to the rotational speed

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