



BASi RDE-2 Rotating Disk Electrode



The BASi RDE-2 is a rotator system for both fixed rotation rate and hydrodynamic modulation rotating disk electrochemical experiments. The short titanium shaft and 1/4" diameter electrode provide for an extremely low-inertia system capable of rotation rates from 50 to 10,000 RPM at better than 1% accuracy. The rotator unit is manually raised and lowered, and can be inverted for spin-coating. Rotation and built-in gas purging functions can be controlled remotely using a BASi PC-controlled potentiostat, or manually.

The built-in gas control allows purging or blanketing of the sample prior to or during analysis. The cell arm with detachable cell top allows easy access to the electrodes for rinsing and cleaning, and the cell top is also compatible with BASi [voltammetry working electrodes](#). Electrodes are easily interchangeable, and the cell vial base pivots for easy removal and replacement of the cell vial.



Features

- Remote control of stirring and gas purging by BASi PC-controlled potentiostats
- Manual control when used with other potentiostats
- Small sample volume (10 - 15 mL)
- Optional water-jacketed cell vials
- Standard addition port
- "Quick-connect" input gas line connector
- Mounted cell top compatible with BASi stationary voltammetry electrodes
- Easy and rapid exchange of electrodes
- Low-noise electrode contact
- Excellent rotation speed, acceleration and deceleration
- Standard package
 - Cell stand with gas purge capabilities
 - Glassy carbon working electrode
 - 3 Ag/AgCl reference electrodes (+ storage vial)
 - Platinum coil [auxiliary electrode](#)
 - PK-4 working electrode polishing kit
 - Cell vials
 - Gas line tubing

Specifications

Rotation Range: 50 - 10,000 RPM

Accuracy: <2% @ < 1000 RPM
<1% @ > 1000 RPM

Motor: 12V, ironless core, low inertia DC servo

Screw Terminal : Speed In - 1000 RPM/1V
(back panel) Speed Out - 1V/1000 RPM
Rotate - TTL or RELAY closure
Purge - TTL or RELAY closure

Inlet Gas Pressure: 5 psi

Main Fuse: 4.0 A Slow-Blow 250 V

Power: 100 - 240 VAC, 50/60 Hz

Dimensions: 16.5" H x 7" W x 9" D (42 x 18 x 23 cm)

Weight: 12 lb (26.5 kg)

Ordering Information

| | |
|----------------|---|
| EF-1100 | RDE-2 Rotating Disk Electrode, complete |
| MF-2052 | RE-5B Reference Electrode, 1 ea. |
| MF-2079 | RE-5B Reference Electrode, 3/pkg. |
| MR-1208 | Cell Vials, 12/pkg. |
| MR-1212 | Water-Jacketed RDE Cell, 1 ea. |
| MF-2066 | Glassy Carbon RDE Tip (3 mm dia.) |
| MF-2067 | Platinum RDE Tip (3 mm dia.) |
| MF-2068 | Gold RDE Tip (3 mm dia.) |
| MF-2065 | Blank RDE Tip for Custom Electrode (3 mm dia. hole) |
| MW-1033 | Coiled Platinum Auxiliary Electrode, 23 cm |
| MF-2060 | PK-4 Polishing kit |
| MR-3839 | RDE-2 Cell Top |
| MW-2130 | Replacement Shaft Assembly |
| MR-3109 | RDE Shaft Bearing |
| MR-4404 | Gas Inlet Barb Fitting |

