



Total solutions ...

Autolab RDE

The Autolab RDE (Rotating Disk Electrode) is a high end RDE. The unit has a high performance motor reaching 10,000 rpm, and a liquid Hg contact for very low noise measurements. The PCTFE electrode shaft has been designed to fit in Metrohm cell lids.

Easily exchangeable electrode tips can be mounted on the shaft, 10 mm diameter tips with an active surface diameter of 3 mm and 5 mm are available in Gold, Silver, Glassy Carbon and Platinum. Empty tips are available if the user wants to use his own 5 mm diameter material.

The rotation speed of the RDE is controlled by a motor control unit. The low noise Hg contact makes the Autolab RDE suitable for measurements at very low currents or electrochemical impedance measurements.

Autolab RRDE

The Autolab RRDE (Rotating Ring Disc Electrode) extends the design of the Autolab RDE with a double mercury contact, allowing friction-less electrical contact to the disc and ring.

The RRDE can be operated up to 10,000 RPM and can be fitted with the Autolab RRDE electrode tips. The RRDE electrode tips consist of a 5 mm disc of platinum, gold or glassy carbon, with a concentric platinum ring at a distance of 375 μm , leading to a theoretical collection efficiency of 24.9%.

Specifications

• Speed control	Manual and software
• Motor speed range	100 - 10,000 RPM
• Manual speed setting	100 - 10,000 RPM in 1 RPM steps
• Acceleration/ deceleration	4,000 RPM/s
• Maximum current	500 mA
• Contact (RDE)	Sealed Hg pool
• Contact (RRDE)	Double sealed Hg pool
• Electrode tips (RDE 10 mm \varnothing)	3 mm active area in Ag, Au, Pt, and GC 5 mm active area in Ag, Au, Pt, GC, and empty
• Electrode tips (RRDE 11.6 mm \varnothing)	5 mm active area disc in Pt, Au or GC and 750 μm ring in Pt

