

Driving axle for RDE with mercury contact



The most important advantages at a glance

- Practically resistance-free current transfer
- Low-noise measurement of very low currents
- Suitable for static and hydrodynamic measurements
- Long life due to wear-free contact
- Corrosion-resistant titanium axle
- High reproducibility of measurements
- Can be combined with all existing electrode tips with M3 thread
- Fits all Metrohm VA stands

Technical specifications

Shaft material	PTFE, black
Axle material	Titanium
Electrical contact	Encapsulated mercury contact
Length	85 mm
Thread	M3

The essentials in a nutshell

To meet the most demanding requirements for electrochemical measurements on rotating disk electrodes, we have combined high-quality materials. The durable and corrosion-resistant titanium axle in a PTFE holder guarantees high resistance to chemicals and thereby a long life. The resistance-free, wear-free mercury contact used enables even very low currents to be measured precisely and with little noise. This is especially important for measure-

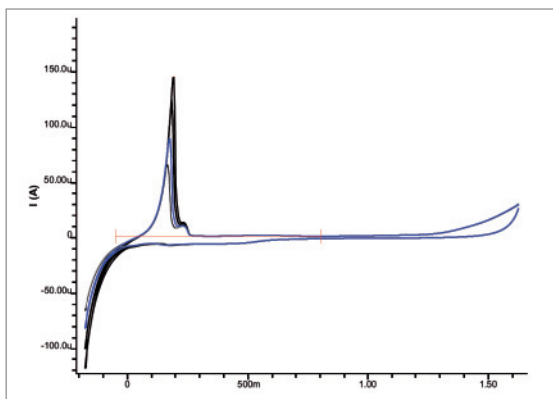
ments carried out under rotation (hydrodynamically). The mercury in the contact is, of course, safely encapsulated.

The drive for rotating disk electrodes with mercury contact can be used without any problem instead of the existing drive with friction contact. All existing RDE tips can also continue to be used without any restrictions.

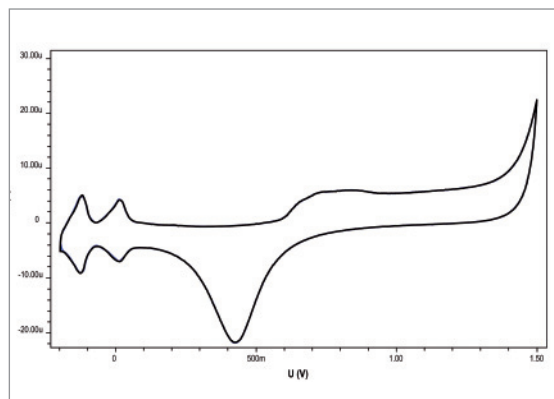
Applications

Determination of organic additives with CVS (Cyclic Voltammetric Stripping), for example in acidic copper baths, tin baths or tin-lead baths.

Cyclovoltammetric experiments in research and development, especially under rotation (hydrodynamic measurements).



Determination of an organic additive in an acidic copper bath by means of CVS (Cyclic Voltammetric Stripping)



Cyclic voltammogram in 0.5 mol/L sulfuric acid

Ordering information

6.1204.220 Driving axle for rotating disk electrode (RDE) with mercury contact

Appropriate electrode tips

Order number	Description	Shaft material	Diameter of active area
6.1204.110	Glassy carbon electrode tip	PEEK	2 mm
6.1204.120	Platinum electrode tip, unpolished	PEEK	2 mm
6.1204.130	Silver electrode tip	PEEK	2 mm
6.1204.140	Gold electrode tip for Hg determination	PEEK	2 mm
6.1204.150	Lateral gold electrode tip for As determination	PEEK	3 mm
6.1204.160	Platinum electrode tip for CVS, polished	PEEK	2 mm
6.1204.170	Platinum electrode tip for CVS, polished	PEEK	3 mm
6.1204.180	Ultra Trace electrode tip	PEEK	2 mm
6.1204.190	Platinum electrode tip for CVS, polished	Glass	1 mm

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