# 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 |

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## The essentials in a nutshell

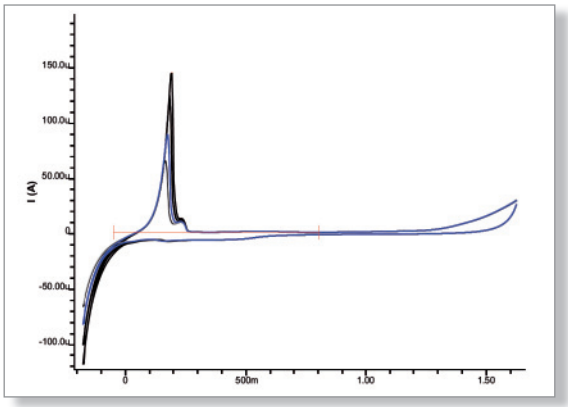
To meet the most demanding requirements for electrochemical measurements on rotating disk electrodes, we have combined high-quality materials. The durable and corrosion-resistant titanium axle in a PTFE holder guarantees high resistance to chemicals and thereby a long life. The resistance-free, wear-free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

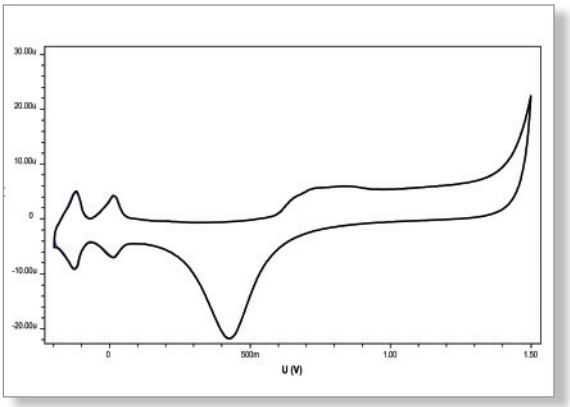
## Applications

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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Layout: Ecknauer+Schoch ASW
8.000.5020EN – 2009-03