



LUXOR^C Carbon Coater

Introduction

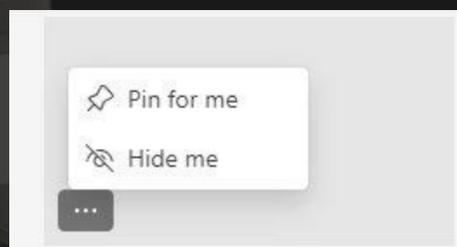
COMPACT

SAFE

AUTOMATED

Rules

- Your audio and video are disabled. Please additionally hide yourself by clicking the ... (3 dots) and choose 'Hide me'



- This session will be recorded
- Questions
 - Please ask them in the Q&A. We have foreseen extra time afterwards to answer questions live.
 - Additional questions can be send to info@luxor-tech.com with title 'after webinar questions'

Numbers

Since Luxor's founding in 2019

40+
Countries

3
Models

475+
Units

Introduction

LUXOR

 APTCOTECHNOLOGIES Aptco Group

At LUXOR, we engineer and manufacture sample preparation tools for SEM, with focus on plasma sputter coating.

www.luxor-tech.com

LUXOR is a brand of Aptco Technologies, a manufacturer of measurement instruments and testing equipment.

www.aplco-technologies.com

Aptco Technologies is part of the Aptco Group - an international group of companies active in the distribution, manufacturing, and servicing of scientific instruments.

www.aplco-group.com

LUXOR

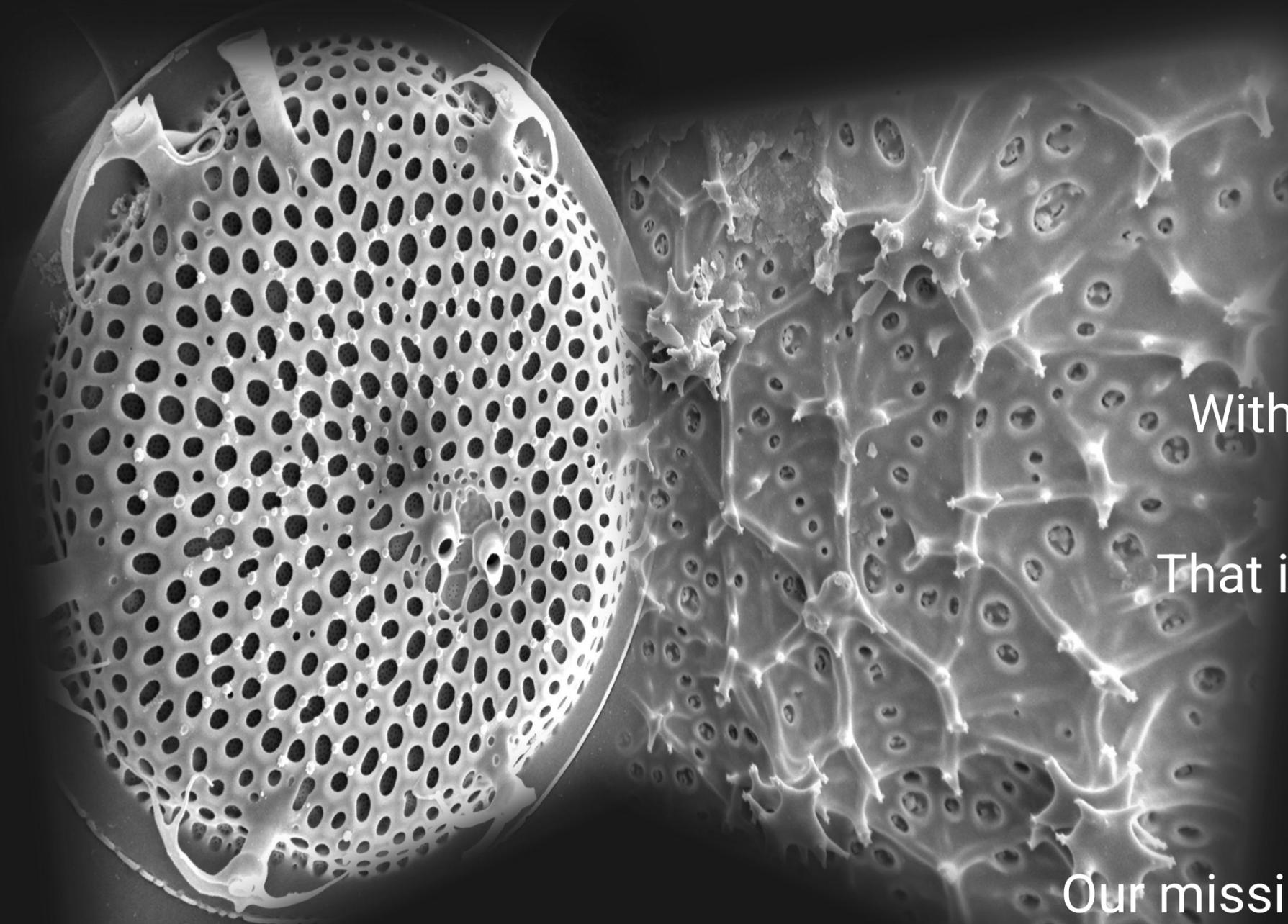
Our mission

At LUXOR, we believe that coating
can be done differently.

With **smart technology** and **innovative design**.

That is why we developed a series of **smart** and
innovative, fully automated coaters for
EM sample preparation.

Our mission is to make EM coating **smart** and **easy**.
For every user.



Product range

- LUXOR^{Au}

- LUXOR^{Pt}

- LUXOR^C



LUXOR^C features

LUXOR^C

The carbon coater is primarily used for EDS (elemental analysis) and BSE imaging techniques.

Fully automated coater

Coats samples with carbon (C) in air

Average coating time: 3 minutes

Utilizes a Bradley-type carbon rod evaporation source

Capable of simultaneously coating up to 7 x 12 mm stubs

Double functionality – coating & vacuuming



LUXOR carbon coater

LUXOR



LUXOR carbon coater

LUXOR

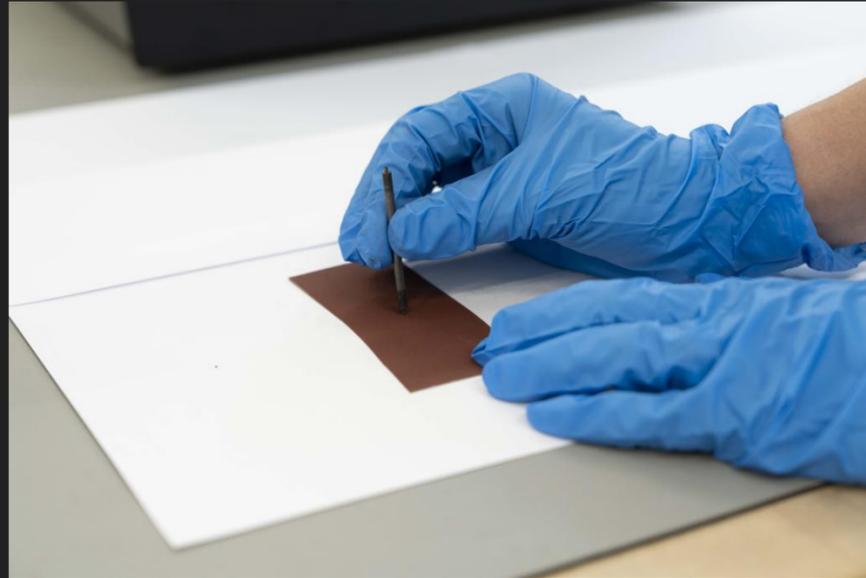
Component Setup



LUXOR carbon coater

LUXOR

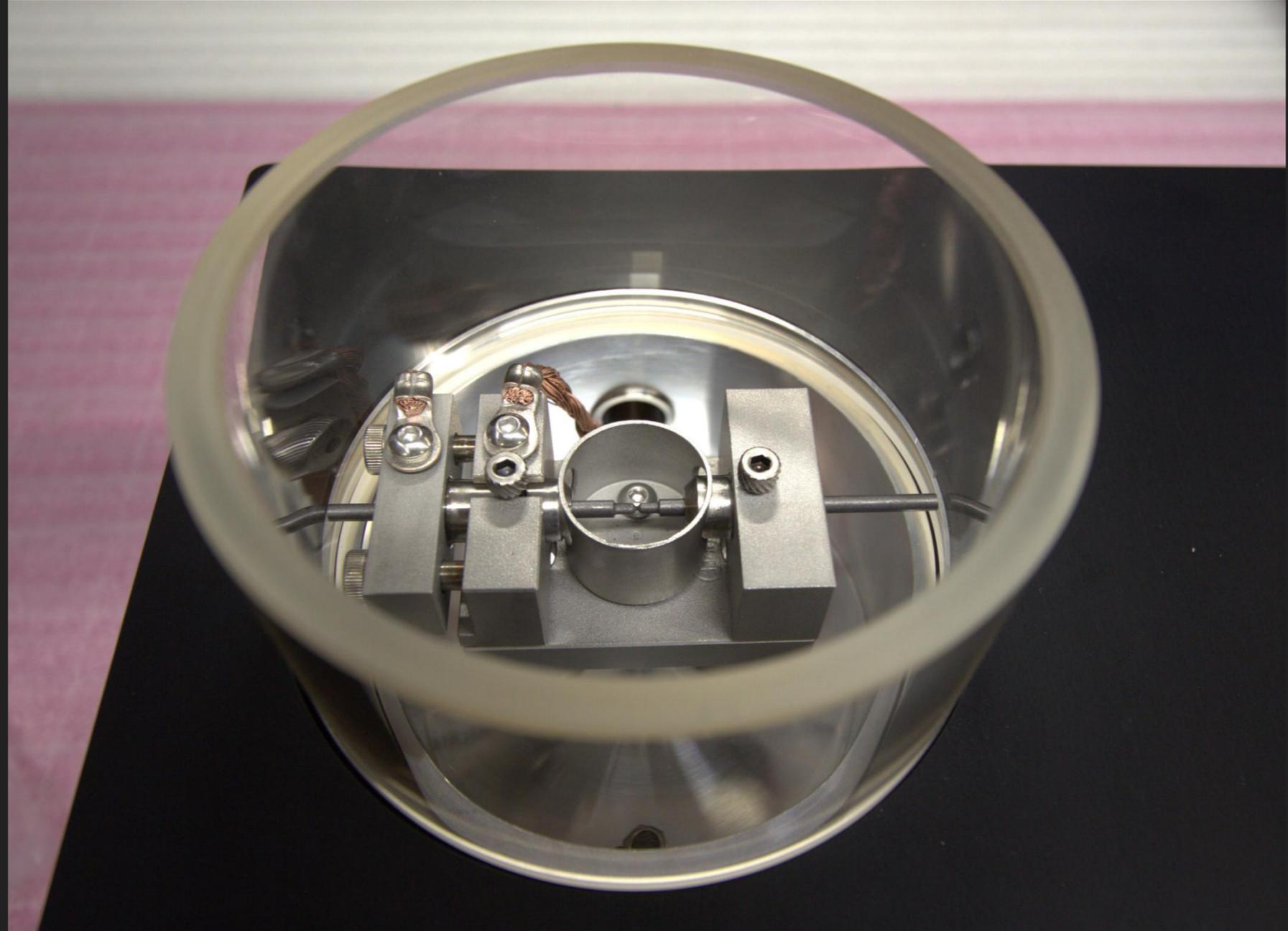
Component Setup



LUXOR carbon coater

LUXOR

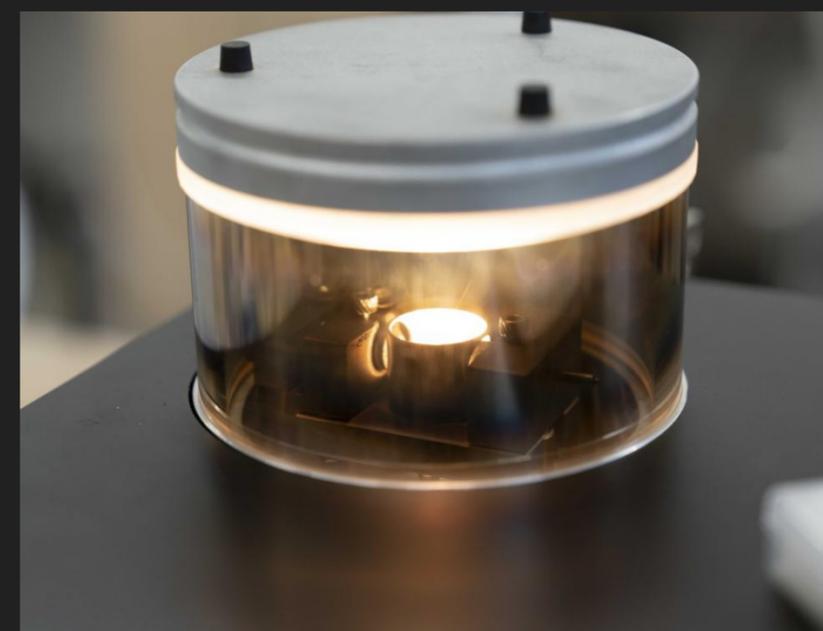
Component Setup



LUXOR carbon coater

Load the samples—press start

LUXOR



Unique selling points

Compact footprint

LAXOR

USP

Optimized for lab space – standalone and compact



340 x 340 x 290 mm (W x D x H*)

*200 mm without chamber



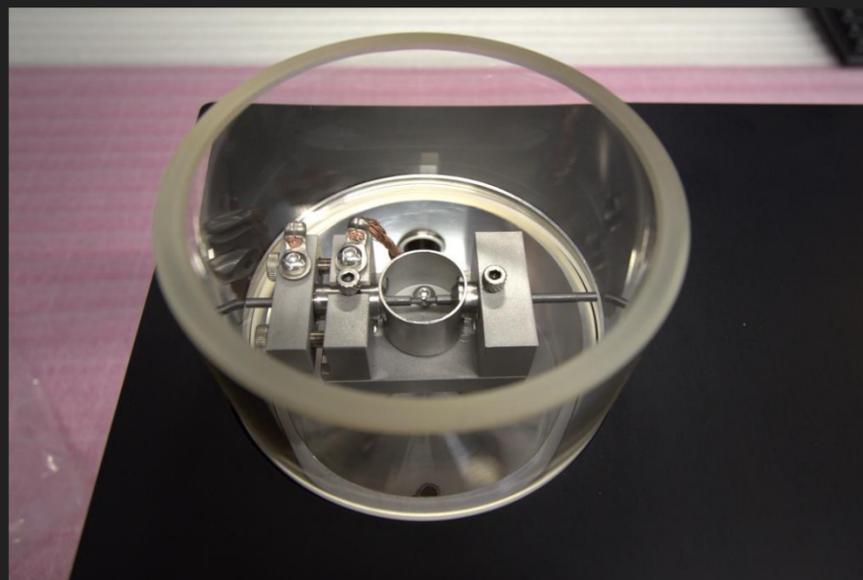
Signature up-side down design

LNXOR



Maximum safety for users — high-voltage wires are completely hidden and secured.

This design also removes loose particles during coating, keeping your SEM column well protected.



Achieve 3D coating without complexity — the upside-down design eliminates the need for any rotating or tilting stage.

Engineered for reliability

LUXOR

USP



No rotating or tilting parts, reducing potential breakdowns & downtime.



LUXOR features

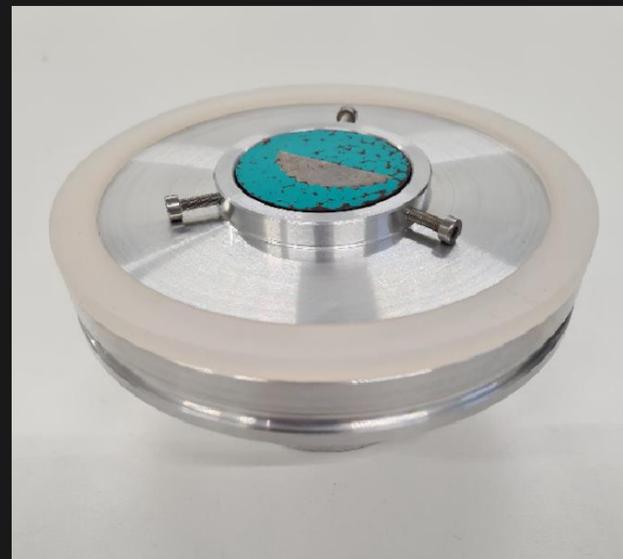
Simplified sample mounting & removal

LUXOR

Quick and straightforward sample handling — No need to use tweezers or other special tools

Alternative sample holders are available, compatible with pin stubs, cylindrical stubs, and mounted or embedded specimens, making the system adaptable to virtually any sample type or electron microscope.

100% interchangeable sample holders between Luxor Au, Pt and C



Simple & Intuitive

LNXOR



Select the coating time and press start — the entire coating process is then fully automated.



Stand-alone units

Compared to combined systems, the stand-alone design of the Luxor carbon coater offers several advantages:

- Carbon contamination-free operation for sputter coaters

- No need to switch between heads & methods for different coatings

- Time-saving – 3 min for entire coating process

- More flexibility



Product & Application Comparison

LUXOR



LUXOR^{Au}

Ideal for SE detectors and is mostly used for topography and surface imaging at lower magnifications – typically recommended up to around 50,000x.



LUXOR^{Pt}

Similar to gold, ideal for SE detectors and it is mostly recommended for topography and surface imaging at moderate to high magnifications – typically from 50,000x and beyond.



LUXOR^C

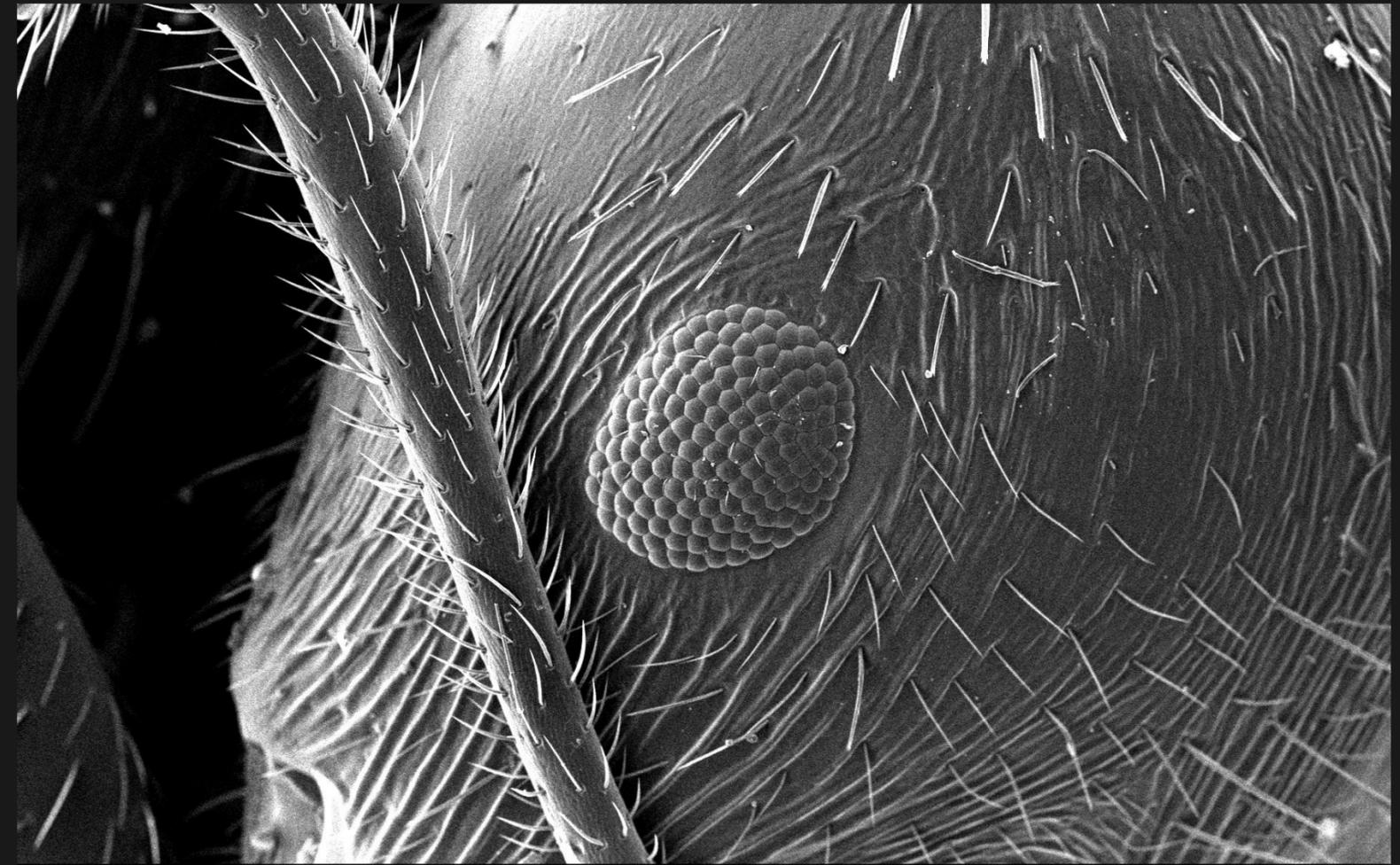
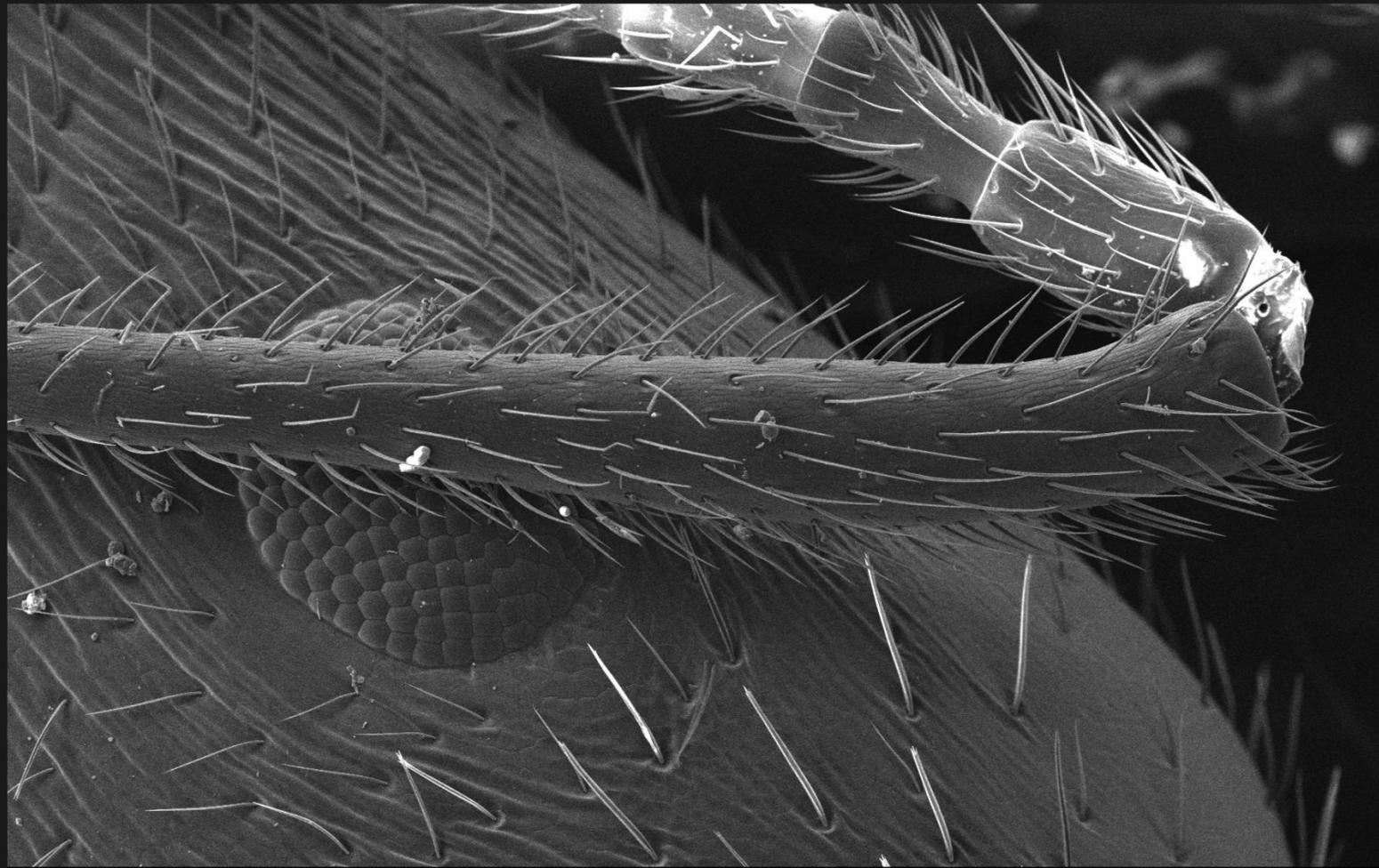
The carbon coater is primarily recommended for compositional and elemental analyses, especially when using BSE and EDS detectors, as it provides conductivity to the sample without reducing the signal of the elements to be analysed.

LUXOR^C in action

LUXOR^C in action

Ant Head- 25-30 nm carbon coating
(Observe the superb resolution, even on sensitive biological structures.)

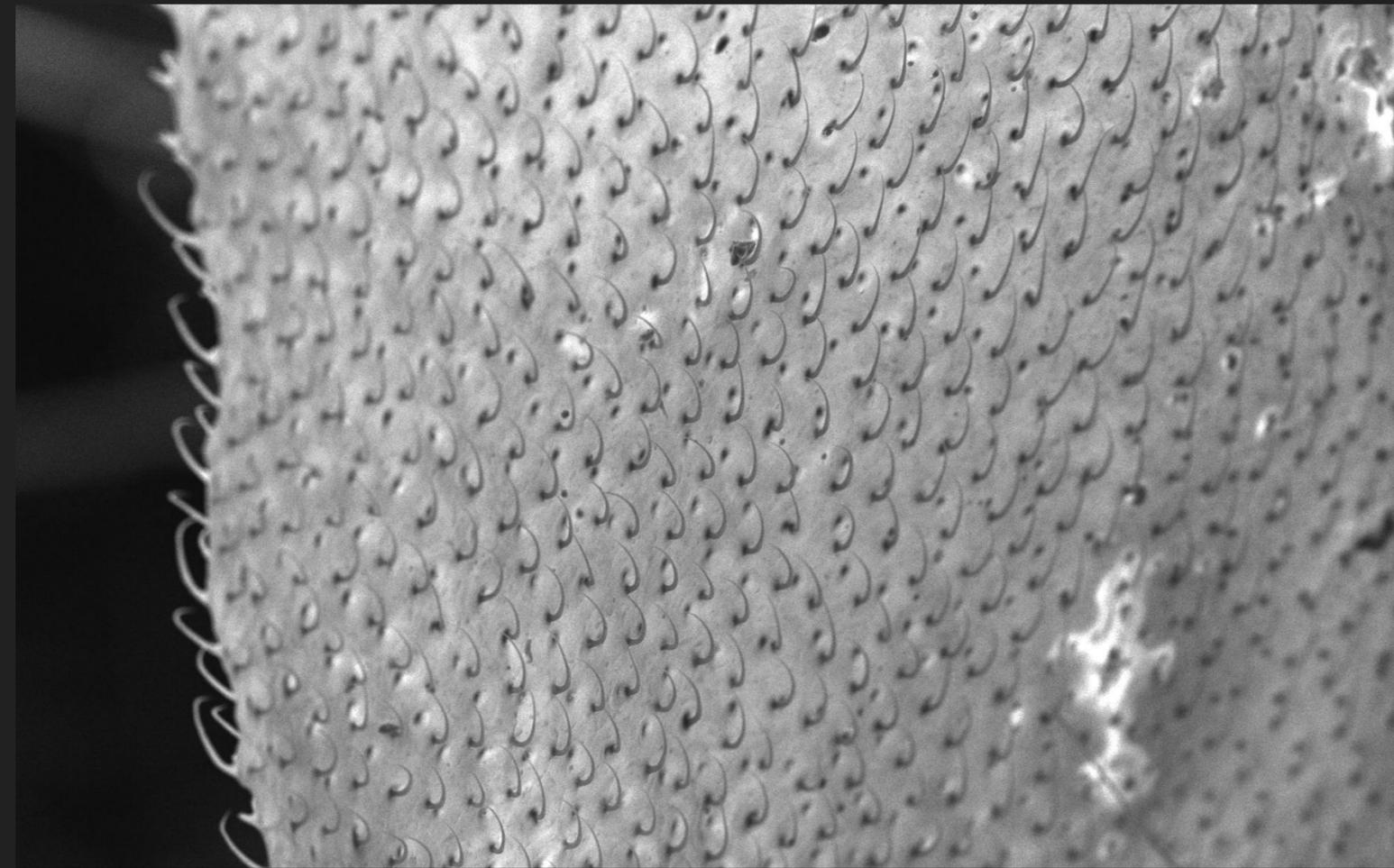
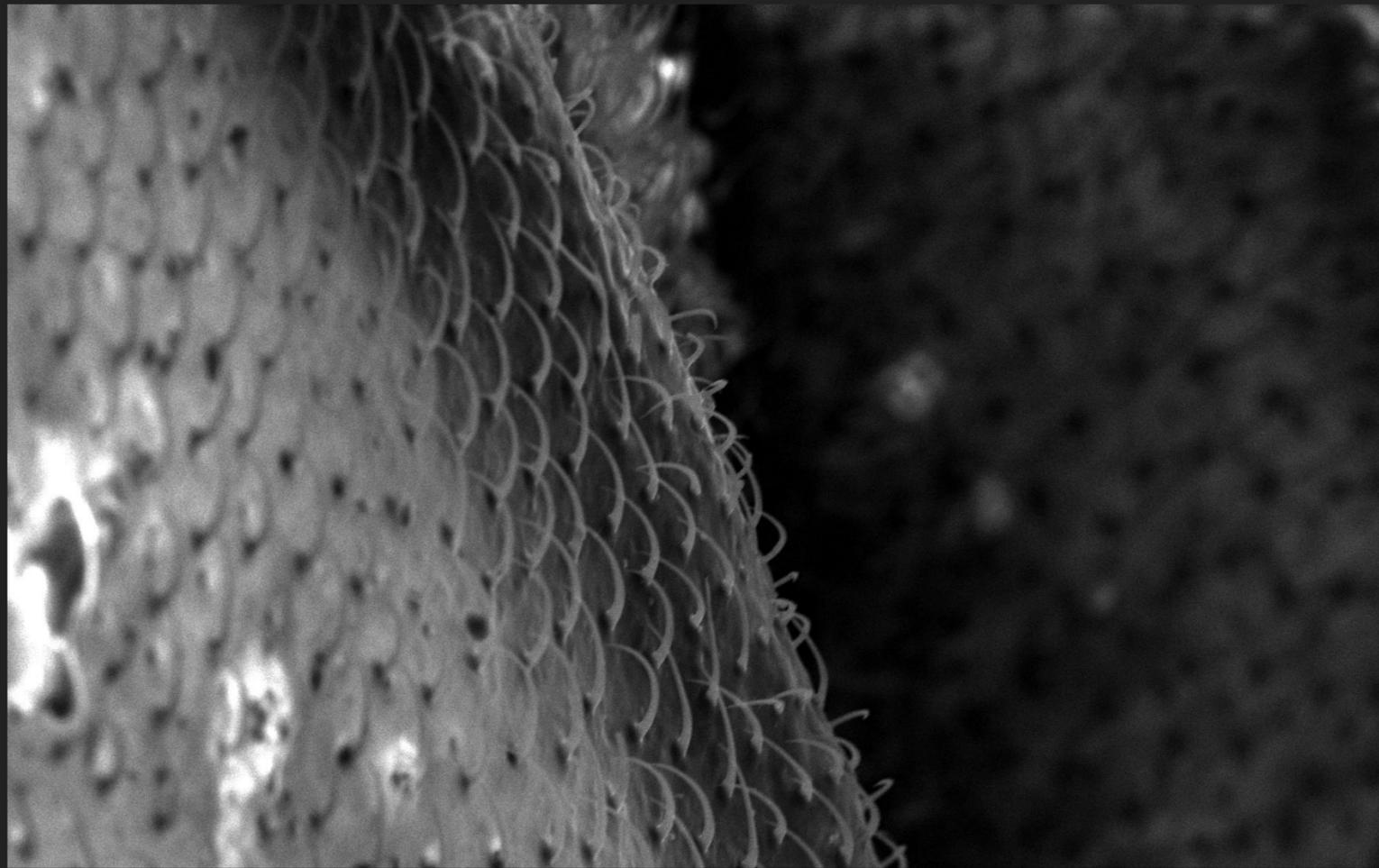
LUXOR



LUXOR^C in action

LUXOR

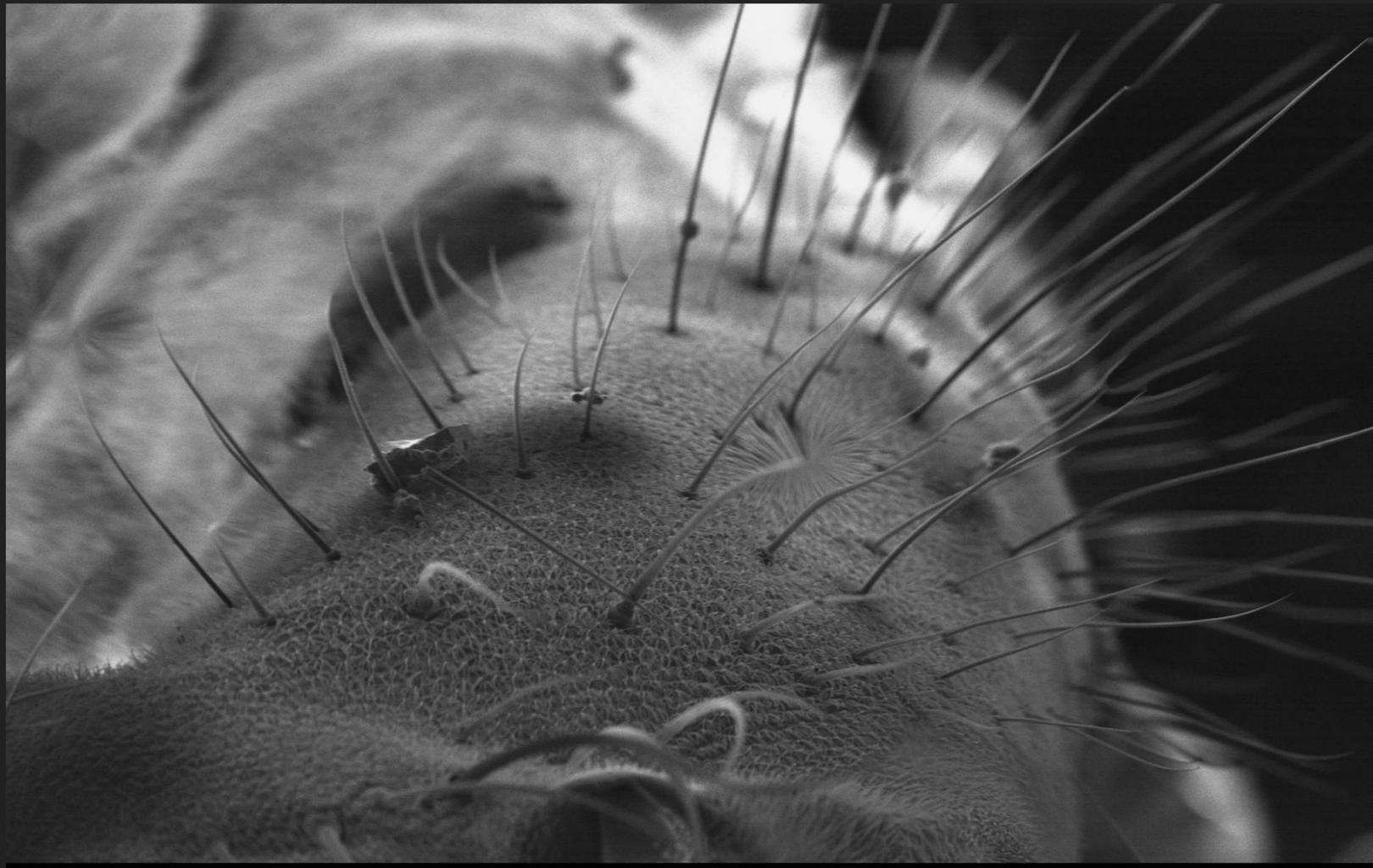
Fly Wing- 25-30 nm carbon coating



LUXOR^C in action

LUXOR

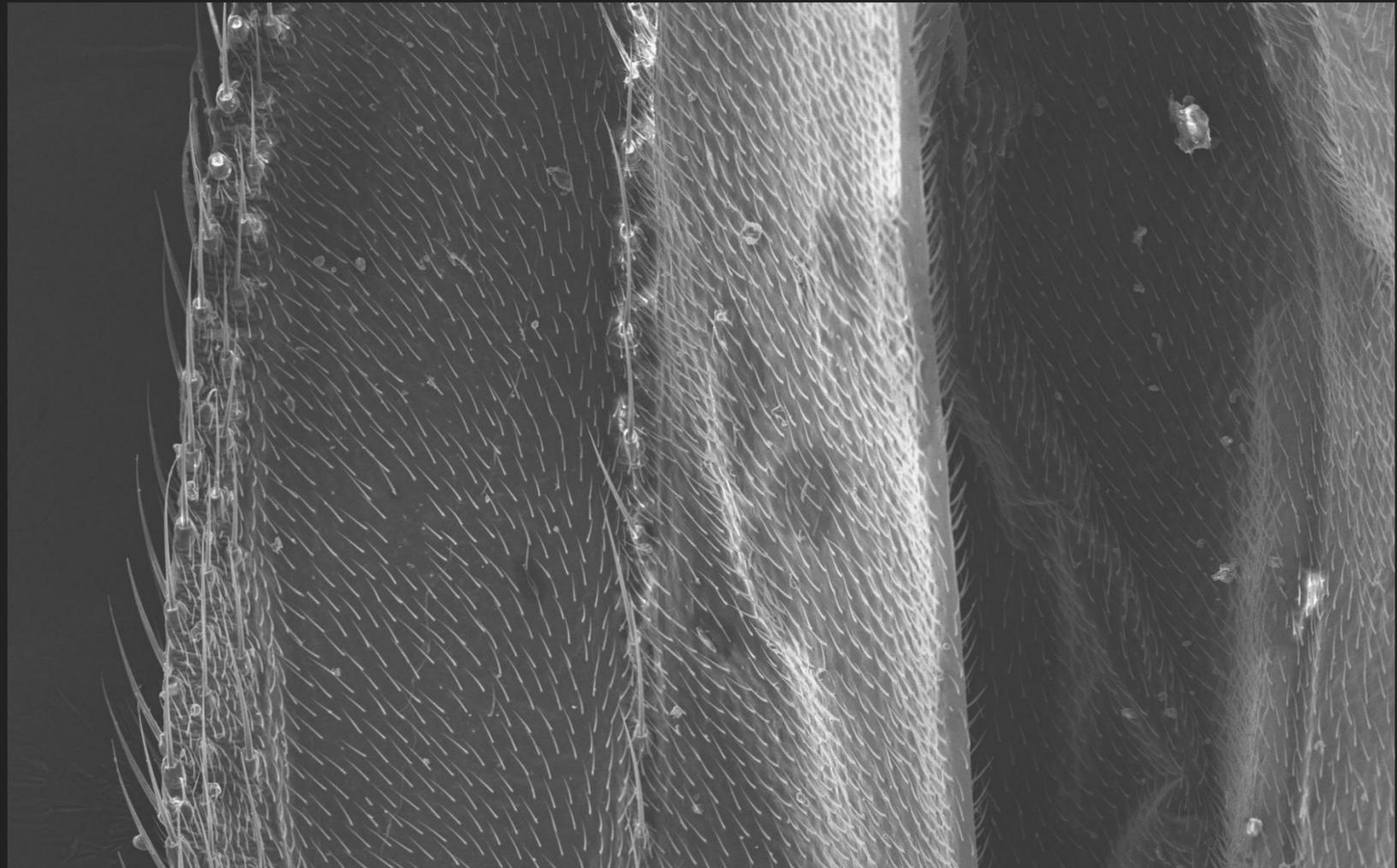
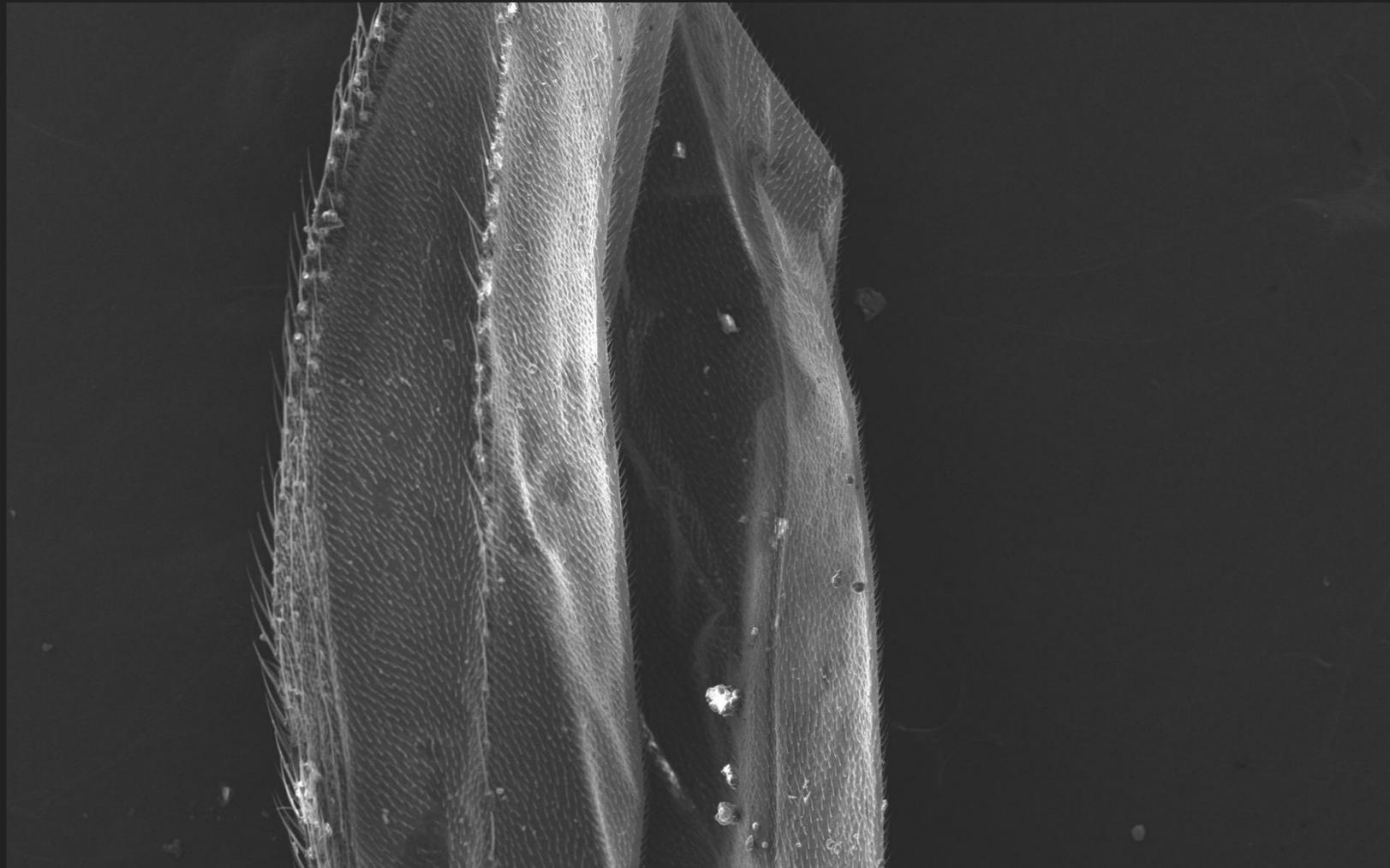
Insect Body- 25-30 nm carbon coating



LUXOR^C in action

LUXOR

Mosquito - 25-30 nm carbon coating



What is next?

Why LUXOR[®]?

LUXOR



Enhanced safety features

Enhanced operator safety - All high-voltage wires and electrical connections are safely enclosed within the unit.



Automated operation

This feature reduces the risk of human error and minimizes the need for extensive operator training. Simply select the desired coating thickness and press "Start."



Small footprint

With a footprint of just 340mm x 340mm (13.5" x 13.5"), the LUXOR[®] coater fits seamlessly into any lab.



Upside-down design

The upside-down configuration allows for easy sample mounting and removal of loose particles, helping to protect the SEM column.



LUXOR[®]



Avoid cross-contamination

The LUXOR[®] is designed as a stand-alone carbon coater to avoid cross-contamination from metal sputter coating.



Increased speed and efficiency

The LUXOR[®] can process up to 7 samples simultaneously. While the carbon coating process is highly precise, it is also very fast.



Intuitive Touch-Screen Interface

The easy-to-use interface facilitates quick, comfortable, and efficient operation with modes for: - Coating mode - High vacuum for sample outgassing

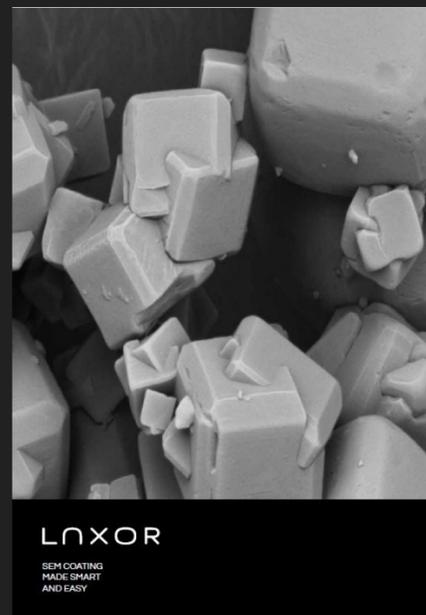
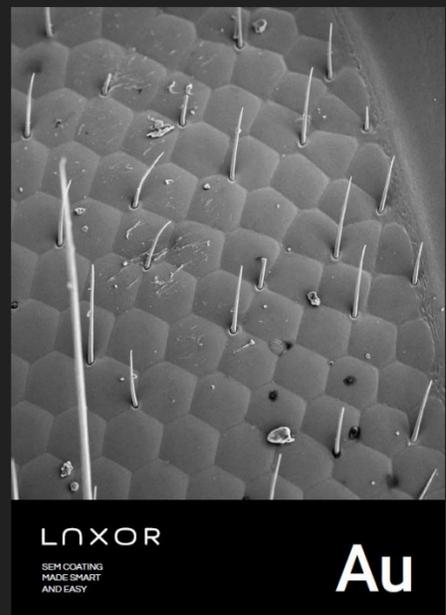
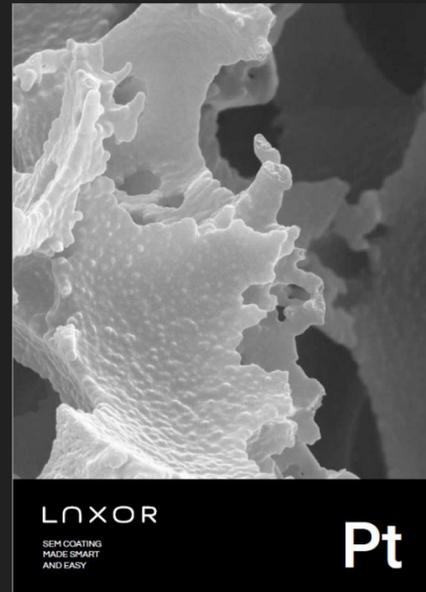
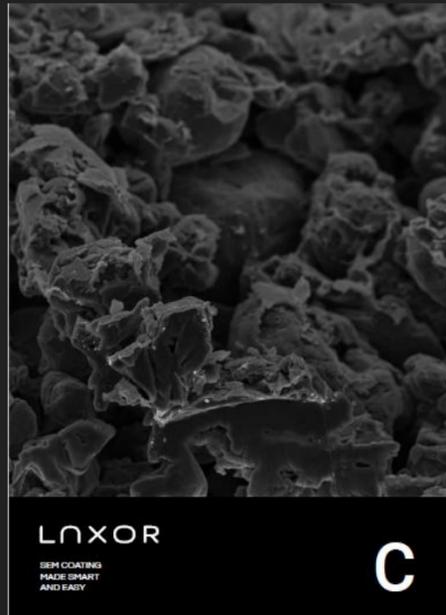


Double functionality

- Coating mode
- High vacuum mode for sample outgassing

Marketing materials

LUXOR



Administration and logistics

LNXOR



Orders via orders@aptco-technologies.com

End user details required

Shipment Incoterm

Ex Works

Distribution network

LUXOR



THANK YOU

LUXOR is available worldwide

We only work with distributors.

No direct sales from LUXOR

Non-exclusive co-operations due to the nature of the business

Demo equipment is highly encouraged

Q&A



Thank you !

More information? Reach out to
tayfun.ozmen@luxor-tech.com

www.luxor-tech.com