



## PLASMA PRO 80 COBRA – Registration and permission form

*Mit der Unterschrift wird bestätigt, dass der Text gelesen, verstanden und akzeptiert wurde.*

*Die gesamte Dokumentation der Prozesse hat auf Englisch zu erfolgen.*

### General Information

TUM's professorship for Quantum Technologies, headed by Prof. Poot, operates the Oxford PlasmaPro 80 Cobra reactive ion etcher located inside the ZNN. It was purchased with support from NIM and TUM-IAS and, in principle, any user of the ZNN can get access to our etcher. Please refer to our group homepage [www.qtech.ph.tum.de](http://www.qtech.ph.tum.de) for more information on the steps for getting access.

### Rules and regulations

Having open-access equipment, means that, unfortunately, there have to be some rules and regulations to make sure that everybody can get the most out of our equipment. These rules are laid out in this document, as well as stated in the operating manual, and are mentioned during the training. Still, not every situation can be captured by rules so we expect users to always use common sense, and to report any irregularities directly to the supervisors.

These rules, including allowed materials and allowed processes, may change, but users will be notified about such changes through emails to all registered users. We also point to the rules and regulations of the WSI and ZNN. Having access to the cleanroom is a first requirement for using the machine. In case such access is revoked, the permission to use the etcher is also automatically suspended.

The required introductory and advanced training is done by the supervisors of the machine. We (and/or ZNN) provide a few standard items that are required for normal operation, but more specific items may have to be provided by the user's research group. We do provide training and may give some hints to improve the etching results, but we will not do any process development unless this is part of a scientific collaboration between the research group and the Quantum Technologies professorship. We may ask users to write a process description as part of a process library for the machine.

Permission to operate the machine is indicated by the signatures on the backside of this document. This permission is at the discretion of the head of the professorship for Quantum Technologies and can be revoked. Normally, this will only happen in exceptional circumstances. Depending on the severeness and history, a revocation of the permission can be either for a fixed time, pending reapproval, or indefinite. We are not responsible for any effects that a revocation of the permission may have. Commercial use of the machine is not allowed without prior written permission, but may be possible within the framework of TUM's guidelines for collaborations. For information on this, first see the information on [www.tum.de](http://www.tum.de), and then contact a supervisor to discuss the options.

The user agrees to abide to all rules, and acknowledges that his/her obedience may be checked via different methods, including viewing of logfiles, logbook entries, and impressions from supervisors and other users. This may also be done without any concrete suspicion of disobeying the rules. In case of damage to person or equipment due to not following the rules, the user and/or his research group can be held accountable for the damage done.



By signing this sheet, the user and group leader agree that personal data will be stored for the purpose of operating the machine in an open access way. A request for removal of personal data may be filed. This automatically means losing permission of using the machine. Due to the nature of its software, it may not be possible to remove all data completely. This includes entries in logfiles and logbooks.

### Registration

First and last name: \_\_\_\_\_

Email: \_\_\_\_\_

Research Group: \_\_\_\_\_

I have read and understood the rules and regulations, and agree with them.  
A copy of this document may be provided for your convenience.

\_\_\_\_\_  
Date and location

\_\_\_\_\_  
Date and location

\_\_\_\_\_  
Signature User

\_\_\_\_\_  
Signature research group leader

### Training and permission

Only after demonstrating the skills and knowledge to independently perform the indicated tasks, the user will receive a signature to operate the machine by him/herself for that task

*To be filled out by the equipment supervisor.*

Username: \_\_\_\_\_ (after permission to operate, usually last name)

Status:      User    Supervisor

Training	Date taken	Permission to operate (signature)
Introduction: Operation with fluorine		
Advanced: Operation with chlorine		
Advanced: Changing temperature		