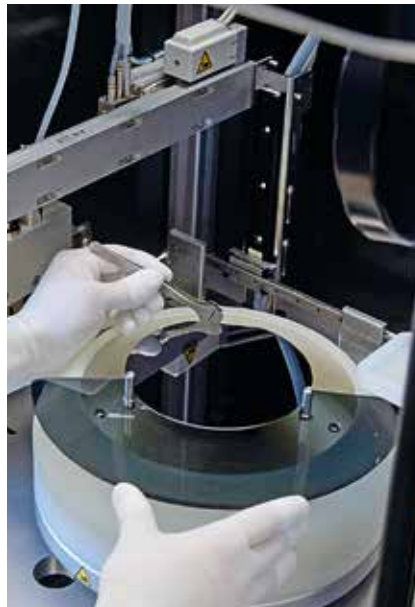


SINGLE WAFER PROCESSING TOOLS



amcross
systems





„amcoSS will grant you high-end equipment perfectly suiting your individual process- and end product requirements. We are not into mass production. Therefore, we have got the flexibility to realize individual solutions.“

David Erne



Sophisticated single wafer processing

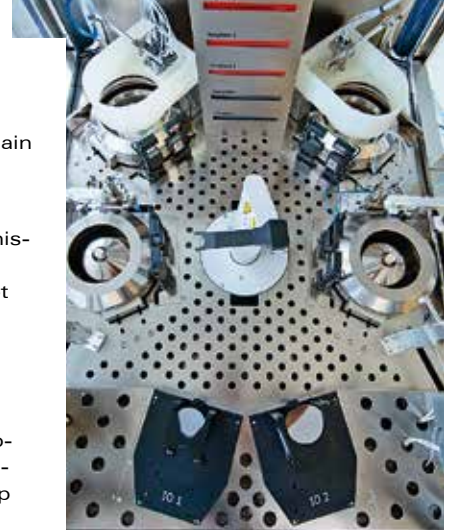
amcoss produces compact, fully- and semi-automatic single wafer processing equipment for coating, developing, cleaning, etching, lift-off and cooling/heating of wafers, masks and other substrates. In every equipment, configured according to individual customer needs, various processes can run simultaneously. To do so – even for our individual engineering solutions – we use high-quality and functionally proven standard components for highest quality and repeatability.

Your sustainability goals have top priority

We are aware of your ambition to produce final goods of highest quality within an optimized, efficient production chain characterized by high throughput, reduced reject rates and lowest possible downtimes.

With smart and well-thought-out features as e.g., our sophisticated dispense system, media re-use or recycling of dissolved metals in lift-off processes – just to name a few – not only resists and media but also energy are being saved. Waste materials are being reduced and therefore also the ecological footprint of our equipment.

With attractive purchasing- and low running costs, flexible processing solutions, short retrofitting times, low consumption of production area and optimized processes, our equipment will considerably reduce your Total Cost of Ownership and improve your Return on Investment at the same time.



Functionality and exceptional design

The modern industrial design of our equipment is also exceptional. It unites appealing visual appearance with a sophisticated handling concept that comes up to highest standards in functionality, operability, ergonomics, convenience as well as safety and so facilitates operator handling.



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amcoss equipment-highlights

- // **Modular construction:** flexible machine adjustments and extensions
- // **Reduced number of parts:** advantages through reduction of control- and other components
- // **Unrivalled coating technology:** single-nozzle-grip at linear, 3-axle positioning arm
- // **Large substrate variety:** flexible processing without technical retrofit or adjustments
- // **Modern industrial design:** more functionality and ergonomics
- // **Easy handling:** high handling convenience and intuitive use

A matching tool model for every demand

amc machine series – fully-automatic and variable

Our variety of fully-automatic **amc** machine models absolutely meet customer needs as far as processing- or combination possibilities and throughput are concerned. Thanks to the platform concept of our tools the number of processing modules can be individually adjusted and combined. There is no standard configuration. Every tool can so be optimized for either variable single processes or high throughput. Moreover, every **amc** equipment is a veritable bridge tool because various substrates in different carriers may be processed simultaneously. In terms of highest flexibility, no technical adjustments or retrofits must be made when changing from one substrate size to another. A great variety of resists and chemicals of varying viscosities can be dispensed.

A great number of sophisticated **amcoss** standard features makes comfortable tool handling as well as optimized, high-precision processing possible. Furthermore, special configurations are optionally available.



Selectable options:

- // Automatic change of end-effectors
- // Smart chuck identification
- // Inline resist thickness measuring
- // Media-temperature control system
- // Innovative drain turnout and many others...

amr machine series – semi-automatic and individually combinable

Our semi-automatic **amr** series has been designed to meet the needs of single- and small-lot production. Laboratories, research institutions, development departments and prototype productions highly profit from our extremely compact processing units with low need of space and very attractive cost calculation. All proven **amcoss** processing modules and technologies can be found in our **amr** equipment and they will be as reliable in precision, efficiency and profitability as our fully-automatic tools. The only feature missing is automatic wafer handling.

One or more processing units (600 x 600 mm) with one processing module each, will be flexibly combined with a control unit (450 x 600 mm or 200 x 600 mm) fitted with our **ams PILOT** control software. So, an individually configured, compact tool that can be extended if needed, is being created. Depending on the substrate size you want to process you may choose from two different models of processing modules used (**amr 200** or **amr 300**).



ams PILOT software for smooth and convenient process control

Reliable, accurate and intelligent process control is as important to smooth machine operation as the processing modules themselves. Our **ams PILOT** control software displays the complex processes on a modern user interface, controls all processes precisely and so contributes to process optimization. This again enhances sustainability because throughput, as well as repeatability are being increased, waste is being reduced and downtimes are being avoided.

With its ergonomic, self-explanatory as well as comfortably and intuitively operable user interface **ams PILOT** software ideally serves as work platform on screen and interface between man and machine. It makes handling of the whole system considerably easier. So, for example, all service and maintenance functions are displayed in a well-arranged manner and all parts to be serviced can be found easily. If necessary, also 200 mm or 300 mm standard SECS/GEM communication will be supported.



**ams
PILOT**



ams PILOT – many intelligent, smart functions meet the ever increasing requirements of wafer processing.



// **Energy Save Mode:** considerably reduces energy- and media consumption and, therefore, operational costs

// **One single source code for all machines:** software maintenance becomes easy, comprehensible and sustainable

// **ams PILOT replaces existing machine software:** so even old IOS-tools and equipment from other manufacturers may profit from its advantages

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