

amc - fully automatic single wafer processing equipment

With its amc series amcoss offers fully automatic single wafer processing equipment for coating, developing, heating/cooling and lift-off of wafers and other substrates. Every customer individually sets up their equipment according to their requirements as far as throughput and desired processing options are concerned.

Customer specific processes fit for future

Especially in microsystems technology the requirements to production processes and product quality, as well as cost pressure in wafer processing are high. That's where amcoss with its wafer processing equipment comes in: we focus on our customers' needs and on attractive cost-performance calculation. Therefore, every tool may be optimized either for flexible single processes or high throughput. Besides, amc pilot software independently controls processes in every equipment and therefore supports the operator and optimizes all processes. So, with our equipment you will receive solutions for substrate coating, developing, cleaning, heating/cooling, and lift-off that contribute to reaching your goals.



Machine Types

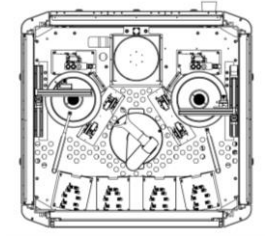
Modular, flexible, individual – amc machine series

All 3 amc models have been designed as adaptable platforms, so that individual configurations, process solutions and combinations are standard with amcoss. The footprints, however, are very compact and room saving. With, e.g. amc 1000+ you will find 3 processes, 1 wafer-handling-station and up to 4 I/O stations on about 1 m² and you may flexibly process wafer sizes between 2" and 8".

amc 1000 - minimum machine space – optimally used

Flexible machine configuration and processing of different wafer sizes:

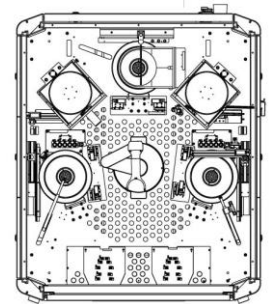
- // Wafer diameters: 2" to 8"
- // Up to 4 I/O stations for 2" to 6" (max. 4x open carriers or 2x SMIF) or
- // Up to 2 I/O stations for 8" (open carriers or SMIF)
- // Max. 3 individually selectable process modules
- // 1 two-link wafer handler
- // Outer dimension L x W: 1140 mm x 1215 mm



amc 2000 - five processes on just about 2 m²

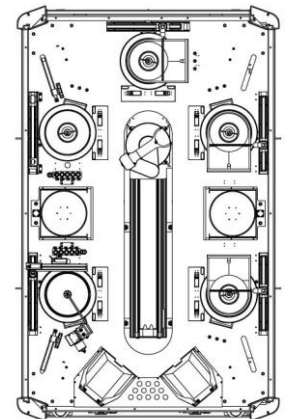
Highly flexible machine configuration and processing of different wafer sizes:

- // Wafer diameters: 2" to 8"
- // Up to 4 I/O Stations for substrates 2" to 8" (max. 4x open carriers or 2x SMIF) or
- // Max. 5 individually selectable process modules
- // 1 two-link wafer handler
- // Outer dimension L x W: 1595 mm x 1360 mm



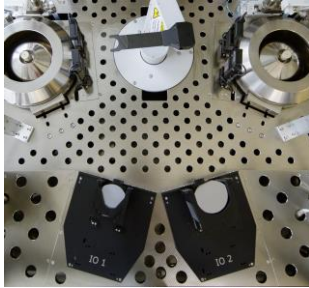
amc 2500 - compact service package for high throughput

- // Wafer diameters: 2" bis 8"
- // According to configuration of wafer handling up to 4 I/O-stations (max. 4 x open carriers or 3 x SMIF)
- // Max. 7 individually selectable process modules
- // 2 two-link wafer handlers or
- // 1 two-link wafer handler on linear track
- // Outer dimension: L x W: 2156 mm x 1502 mm



Highlights

Added value through perfected technical details



Substrate variety: every amc equipment is a genuine Bridgetool, which means that different substrate sizes may be processed simultaneously. When changing wafer size, no technical adjustments and retrofits are necessary. So, utmost flexibility is guaranteed. With the help of laser sensors our intelligent carrier scanner identifies substrate size, carrier type, substrate bow and thickness, mixed or double loaded slots and wafer protrusion.

Genuine through-the-wall installation: Because the process chamber has been realized as a HTU with particle filter, which ensures a fully climatized process atmosphere (temperature, humidity) a genuine Through-the-Wall installation with all its advantages is possible.



Easy access to all components: All doors and the windows on the sides and the back of the equipment can be easily removed and put aside space-savingly. Especially the frameless side windows are very lightweight. So, comfortable access to all modules and controls during machine conversion and maintenance is guaranteed.

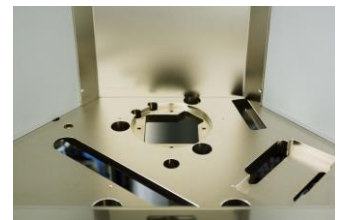
Unique machine design: During development of the classy design by an industrial designer our focus was not only on modern appearance, but especially on user-friendliness, functionality and ergonomics: the large windows allow good insight and access to the machine, all operating elements are in favourable positions and both integrated LED status lights can be seen well from any direction. The anthracite coloured surface coating is on the one hand insensitive towards chemical cleaning agents and on the other hand absorbs the amber light in the cleanroom which is relaxing on the eye.





Reduction of controls: Due to intelligent designs, advantageous machine layout and the use of standardized industrial components, the number of control parts as well as other components could be substantially reduced. As a result, error rate decreases, material costs can be saved, service is being facilitated and costs as well as labour input are reduced in general.

Flexible machine adjustments: Its modular setup and adaptable software ensure that the amc equipment can be easily adjusted or extended directly at the customers' site. Also, the installation of another process module can be simply realized by means of an integrated conversion mechanism. Hot- and coolplates may be added. So, whenever their process requirements change, our customers can be offered uncomplicated solutions.



Easy maintenance: the whole electronic system can be easily accessed at the back of machine. It has been placed above the media system and is therefore totally separated from it. Use of long living, proven standard components, easy installation, and removal of bowls as well as hotplates and many other of the already mentioned highlights make maintenance simpler and reduce its requirements, as well as machine downtime. In addition, the whole system is being supported by the comfortable service functions of ams pilot software.

Unique operating concept: ams pilot control software as well as the overall equipment layout have been designed to offer best possible user-friendliness, ergonomics, and comfortable handling. Our modern software can be intuitively operated and supports even unexperienced users. Furthermore, operating- and service personnel will be able to comfortably and safely handle all machine units.

