

hm ds processing.

amv 200 for large-lot production

amv 200 has been specially developed by amcross for HMDS processing in volume production – which is outstanding in the market. Where conventional HMDS coating equipment will already meet their technical and quantitative limits, doing only individual substrates at a time, amv 200 is the alternative, being able to work on up to a maximum of 125 substrates at the same time, depending on the size of the wafers.

Product highlights_

// Efficiency & increased output

The possibility of simultaneous processing of a large number of substrates in several carriers shortens process time and increases efficiency of amcross machines considerably in comparison to single wafer handling.

// Increased security

HMDS vaporizer with controlled N₂-flow as well as automatic control of HMDS concentration and exhaust, pressure control, low process temperatures and other safety devices guarantee absolute command of the process at all times.

// Favourable cost-of-ownership

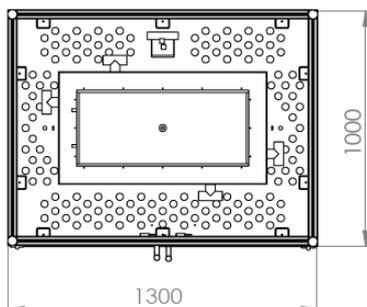
Compared to HMDS ovens, process times are 5 to 10 times shorter and demand for expensive, high-maintenance components is considerably lower. No expensive special carriers are necessary. All this results in attractive investment and service costs.

// Simple, reliable process control

With our approved ams pilot software processes can be comfortably controlled, and easy recipe writing is made possible.



VOLUME PRODUCTION



// The amv 200 machine has compact dimensions: 1300mm x 1000mm x 1600mm (L x W x H)



Carrier size	Max. no. of carriers	Max. loaded wafers
3"	5	125
100 mm	4	200
150 mm	3	75
200 mm	2	50

// The carrier station can hold 2 to 5 carriers with a large number of wafers, depending on their size. The number of carriers is automatically being registered by the two detectors for lot-control.

Clever equipment features_

Many sophisticated product features make amv 200 an especially efficient, safe, and easy-to-handle equipment on which the running processes can be easily controlled at any time.

// Controlled exhaust

The covered loading station, as well as the machine cabinet is equipped with controlled exhaust.

// Pressure tanks with pressure control

The pressure tank for automatic HMDS refill has got integrated pressure control and is equipped with HMDS concentration control.

// Leakage control

The tank sits within an overflow tray and is equipped with leakage control.

// Safety precautions

For operator safety you will find a security switch on the doors: if the equipment is being opened during operation, the HMDS process is being stopped immediately. Furthermore, all important parts are explosion-prove installations to make the equipment safe.



// Within the HMDS process chamber all processes can be mastered and controlled at any time thanks to clever product features:

- Integrated HMDS vaporizer with controlled N2 flow
- HMDS-concentration control
- Controlled HMDS exhaust
- Drain valve for the HMDS tank



// Our intelligent amS pilot software also controls processes in the amv 200 and is being used to write recipes. As standard, a rotatable industrial PC with touchscreen and SECS/GEM interface is used to operate the machine.



// With our well-proven amS pilot software we can reliably handle and control all processes by using stored recipes. Within the recipe management recipes can be easily edited or new ones created – even without any programming skills. On the main screen all process functions are being displayed clearly. Moreover, the actual status of the machine as well as the filling level of the HMDS medium within the process chamber and the tank is being visualized and can be seen at a glance.

EFFICIENCY

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