



ALD Vacuum Technologies High Tech is our Business

ALD EXPERT GRID

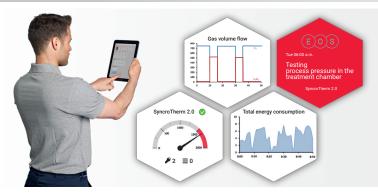
Worldwide & mobile access to your system data



ALD EXPERT GRID

Worldwide & mobile access

to your system data



ALD EXPERT GRID - getting to grips with your production data. ALD systems are deployed in complex production environments and are embedded in complex material flows and the associated business processes (Production Grid).

In order to integrate your system into an existing industrial environment digitally, as well as physically, the appropriate connection is required that allows it to interact with its environment. This is enabled by the Digital Production Grid Integrator (DPGI) developed by ALD, or simply: *ALD EXPERT GRID*.

This allows you to view and access all data relevant for the production process on your notebook, tablet or smartphone.

ALD EXPERT GRID - keeping the overview

Fully exploit the existing potential of your systems. ALD EXPERT GRID supports you in communicating with the production environment and in providing all information. You can plan and initiate the required measures.

For instance, you can request a mechanic for a specific time for a certain maintenance activity with the required spare part.



ALD EXPERT GRID - the advantages at a glance

- Enhanced system availability
- Optimization of business processes
- Resource optimization
- Improvement of maintenance planning and execution
- Continuous improvement of the ALD system
- Dashboard for comprehensive overview of system data

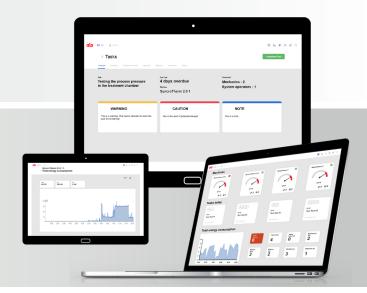
ALD EXPERT GRID - the prerequisites

Local use of the ALD EXPERT GRID:

- Network connection at the deployment site of the system for communication with the server
- Integration of the server in your infrastructure
- Mobile terminal devices for display either a notebook, tablet or smartphone

Worldwide use of the ALD EXPERT GRID:

 Same prerequisites as for local use, plus a customer-supplied VPN-connection



ALD EXPERT GRID - available products and features

Basic package: ALD EXPERT GRID

Capability of recording system data and networking systems, i.e. making the ALD systems I4.0-capable (Digital Empowerment). The system is equipped with a I4.0 platform PC and the necessary basic software.

I4.0 Platform PC

Running environment for all necessary software to allow I4.0-integration of your system.

■ Machine Language Secure Connect

Provision of your ALD system with the relevant software and network to connect conventional automation equipment with the I4.0 platform PC in accordance with current safety standards.

■ Embedded Machine

Necessary software to integrate your system in the digitalized production environment.

Surface Level

Serves as HMI and offers the possibility of accessing your system via web browser and calling up the required information (Dashboard).

■ ERP Interaction Level (future vision)

Level for communication with the digital production environment. For example, this allows your machine to communicate directly with your ERP system.







Add-Ons: Digital Empowerment Toolbox

Building upon the basic package, the following software products are available which are a type of "digital toolbox of software packages" serving to generate content and facilitate access to the required information.

- Condition Monitoring Dashboard for condition monitoring of the systems.
- Digital Maintenance Manual

 Maintenance tasks, incl. instructions, are compiled and displayed role-specifically (e.g. supervisor, system operator etc.) in digital form. Maintenance tasks and work previously performed can be stored to enhance the operator's learning effect.
- Predictive Maintenance
 Wear and the failure of key system components is forecast allowing digitalized planning of system availability.
- Resource Management Accurate recording of resource consumption and comparison with process parameters. Calculation of future requirements based on product information and thus pre-optimization of the available resources.
- Easy Access: ALD Expert Webshop & Digital Twin
 System components are provided with QR codes to find the digital
 image of the relevant component by simply scanning and enable
 direct access to the ALD Expert Webshop. The digital image (Digital
 Twin) represents system components with information such as
 operating instructions, CAD data, circuit schematics details etc.





Further information on ALD EXPERT GRID is available from:

ALD Vacuum Technologies GmbH

Otto-von-Guericke-Platz 1 63457 Hanau, Germany Tel: +49 6181 307-0 Fax: +49 6181 307-3290

E-Mail: info@ald-vt.de www.ald-vt.com



ALD EXPERT GRID

Webpage

You can find the addresses of all our subsidiaries on: www.ald-vt.com/contact-sales-partners



ALD Subsidiaries

Webpage