

# Simply ingenious starts here



The new Atlan family



## Safety to back you up while driving clinical outcomes

The new Atlan family combines robust, everyday reliability with state-of-the-art ventilation technology for increased patient safety and user ease. Anesthesia care providers can look forward to a wide range of innovative features focusing on patient care and intuitive functionality.

- Flexible screen layouts in combination with Dräger patient monitoring for an effective overview of patient conditions
- Intuitive decision support tools can help to make quick and informed decisions even in stressful situations
- Smart safety back-ups allow for continued ventilation even in case of gas or power supply failure
- RFID-based safety features that help monitor exchange intervals of accessories

## We make life easier for biomed, technicians, and clinical staff

The Atlan family was designed around simplifying working procedures for biomed, technicians, and clinical staff to help them master every challenge. Built upon one brand new system architecture, Atlan is an innovative and flexible system that offers maximum efficiency both in terms of performance and cost.

- **All-round workstations** suitable for challenging patient categories, surgical procedures, and spatial conditions
- Unified “**know one, know them all**” user interfaces that let staff easily operate all devices across the OR and beyond
- **Tailored workstations** with highly flexible configurations, incorporating patient monitoring, IT, and third-party components
- **High level of standardization** with Dräger accessories, anesthesia machines, patient monitors, and ICU ventilators eases fleet management, training, and support efforts
- **Quick upgrades** with features that address changing needs and current budget



# Built-in lung protection

Atlan incorporates a system that protects the patient's lungs from unintentionally high tidal volumes and inspiratory pressures as well as other potentially harmful conditions.

# Informed decision-making

Anesthesia workstations tend to be overloaded with information, which can complicate making quick decisions, especially in stressful situations. Dräger decision support tools simplify the interpretation of complex data via easy-to-understand visualizations.

## ICU-like ventilation performance

Uncompromising ventilation quality that helps reduce lung complications, supporting shorter hospital stays\*.

- Active PEEP to maintain pressure during spontaneous breathing or if there is a leakage to keep lungs recruited
- Excellent trigger sensitivity to ease spontaneous breathing
- Electronic piston ventilator to deliver highly precise Vt, even for neonates
- Vt delivery independent of fresh-gas flow to help protect the patient from injury

## Effective low-flow anesthesia helps protect lungs and budgets

Low- and minimal-flow anesthesia humidifies and warms breathing gas to further protect lungs, while helping to provide substantial savings in volatile agents and protect the environment.

- Low Flow Wizard provides visualization of fresh-gas flow efficiency
- Active heating prevents condensation and warms breathing gas
- Leak-tight breathing system reduces gas losses to a minimum
- Sample-gas recirculation eliminates gas loss found in traditional systems

## Lung protective ventilation consistency and transparency

Today, much emphasis is placed on quality of care. Whether you've already implemented a lung protective ventilation strategy or considering doing so, the Atlan is here to support you.

- Start protective tidal volumes based on calculated predicted body weight
- Patient compliance trended with PEEP to visualize action/impact
- Large loops display to assess and improve respiratory mechanics
- Smart therapy settings link and transition to optimize therapy

## Native decision support

Instead of displaying raw, complex data, Atlan supports clinical decisions in various situations to help improve outcomes using data calculation, interpretation, and easy visualization.

- Provides clear indication of fresh gas flow efficiency to drive cost reduction
- Facilitates user education for improved patient care with exportable trends/events for analysis
- Ensure best practices are followed with the display of gas consumption
- Helps users identify and resolve patient-side leaks before they're an issue

\* Fernandez-Bustamante A et al., Postoperative Pulmonary Complications, Early Mortality, and Hospital Stay Following Noncardiothoracic Surgery: A Multicenter Study by the Perioperative Research Network Investigators., JAMA Surg. 2017 Feb 1;152(2):157-166. doi: 10.1001/jamasurg.2016.4065.



## Bringing more efficiency and satisfaction to the table

Less hassle, more help – that's the motto behind the technology that went into the creation of Atlan. That's why clinical staff can expect convenient, intuitive, and secure handling, which will allow you to dedicate more time to the care of your patients.

## Breaking the chain of infection

Breaking the chain of infection is an important step in preventing nosocomial infections. Each infected patient can result in substantial costs. Medical technology needs to support care providers in their goal of effectively reducing infections rates.

### Free up your mind and time

Testing anesthesia devices according to the manufacturer's instructions is crucial in helping prevent critical incidents. But frequently, lengthy and cumbersome procedures eat into valuable time. Atlan is different:

- Pre-test checklist enhanced by easy-to-understand illustrations
- Self-test procedure complies with guidelines of national anesthesia societies (e.g. ASA)
- Ready to go when finished. Automatic self-test includes all relevant components
- No time-consuming checklists in instructions for use to run through after test

### Know one, know them all

In an ideal world, anesthesia devices across ORs and even ICU ventilators would have the same operating concept. With Atlan we'll get there:

- Adopts the standardized user interface implemented into many Dräger devices across the OR and ICU, including patient monitors
- Helps to reduce the risk of human error
- Helps reduce training time & provides quick access to information
- Streamlines the management of accessories such as flow sensors, water traps, and soda lime across the anesthesia portfolio through consistency

### Effective reprocessing by design

Striving to make standard cleaning processes effective is an attribute that is firmly anchored in Dräger's R&D. The result: reprocessing-friendly device components.

- Tool-free and quick disassembly of breathing system for increased compliance with hygiene SOPs
- Parts and materials designed to be cleaned and disinfected effectively
- Highly durable materials\* to guard against breakdown from cleaning agents
- Smooth and rounded surfaces ease frequent cleaning/wipe disinfection

### Dräger single-use consumables

Single-use consumables are the gold standard in preventing nosocomial infections. On the other hand, device performance also needs to be protected.

- Broad range of Dräger consumables helps to minimize the risk of infections
- Dräger consumables are tested to ensure optimal performance of Dräger devices
- Anesthesia circuit kits bundle single-patient use accessories into a one tidy solution
- RFID-enabled accessories help you comply with change intervals



# Digitalization that connects people and possibilities

Connected technologies enable communication between devices while enhancing clinical efficiency and seamless patient data integration. The Atlan anesthesia system provides full workstation capabilities with Dräger hemodynamic monitoring for immediate access to real-time and historical data, as well as hospital-wide information from networked clinical systems\*.

## Continuous, networked patient monitoring

Atlan workstations with IACS patient monitoring provide seamless data availability and continuous patient monitoring.

- The mobile Dräger M540 patient monitor allows for uninterrupted monitoring, even during transport
- Continuous datastream from the IACS patient monitor into the hospital information system
- Dräger IACS cockpit provides a customized, well-organized view of patient monitoring parameters and can be the central information hub

## Your workstation can do more with RFID technology and IT

Improved data availability and patient safety:

- RFID accessories keep track of expiration dates so parts will be replaced on time, supporting patient safety and budget control
- IT-applications and hospital information system data on widescreen displays deliver information directly to the point-of-care, optimizing anesthesia care

## Cybersecurity guiding principles

We have implemented a secure development lifecycle to ensure security principles are included throughout all stages of development and maintenance. Our products:

- Are not shipped nor do they rely upon discontinued, unsupported, or vulnerable components
- Have no hidden backdoors, debug ports, or unnecessary software
- Are designed to receive security patches
- Protect critical functions from unauthorized access



# Secure systems start with secure medical devices

Computer-based, networked medical technology is becoming an integral part of overall clinical care. As a result, hospital networks are increasingly becoming targets for dangerous and damaging cyber attacks. To combat this, the Atlan anesthesia workstation was designed with absolute security in mind.

## Comprehensive security testing

To detect vulnerabilities throughout the R&D process:

- We partner with industry experts, conduct independent penetration tests, threat analyses and vulnerability assessments
- We are transparent with product security information to support your risk management processes
- We are committed to a Rapid Response Policy whereby we assess emerging threats and publish a service advisory in a timely manner



## 360° Services

We at Dräger are committed to providing services tailored to the specific needs of your hospital in order to best support your efforts to drive clinical outcomes and to achieve your business goals. Therefore, our offering goes way beyond classical device maintenance and encompasses comprehensive services prior, during and after the installation of your devices.

### Customized workplaces

via Pre-Installation Services:

- Consulting and planning lead to individualized, ergonomic, hygienic, and process-optimized workplaces
- ProfessionalService helps you to integrate patient monitoring and IT solutions optimally
- Workstations configured with Dräger monitors have monitor components, mounts, and system cables pre-installed to minimize set-up time and waste material

### Empowered users and ready-to-run workplaces

via Installation Services:

- In-service and training provide a solid knowledge base to use the system to its fullest potential
- On-site installation by qualified service technicians turns single components into a ready-to-run system
- System setups can be cloned from device to device to streamline installation and promote consistent use across all operating rooms

### Scalable workplaces with maximized uptime

via Post-Installation Services:

- ProductService (Inspection, Preventive Maintenance, and Repair) from the manufacturer enlarges system availability and ensures regulatory compliant workplaces including service reports
- RemoteService allows quicker root-cause analysis to further increase uptime
- Upgrades and modifications allow scalability along the product lifecycle according to changing requirements

### Intelligent aggregation of data for fact-based improvements

via 24/7 network-connected workstations and Network-Based Services

- Data analytics leverage the enormous treasure of aggregated clinical and device data, allowing you to identify areas for technical and commercial improvements
- Anesthetic gas consumption reports can identify potential anesthetic gas savings to reduce costs and protect the environment
- Device utilization reports provide increased transparency on fleet status, device utilization, and device history

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