

DSA LAB



Rediscover space and movement

Analytical technologies limited Healthcare have developed a new solution that combines Analytical technologies limited's powerful angiography system with versatile table system. By merging the capabilities of two major flexible platforms, you can expand your clinical opportunities. The combined solution expands the clinical breadth of the hybrid to fit the needs of virtually any surgery and interventional specialty.

The Analytical technologies limited brings both extremely high-quality imaging and complete workspace freedom

- Rethink your possibilities with predictable motion and patient access
- Reinvent the way your work with high-precision imaging
- Re-evaluate your options to expand your procedure mix while securing your utilization

Rethink your possibilities

With the Analytical technologies limited gantry, nothing on the floor or ceiling obstructs your work or limits your mobility-your freedom is nearly absolute. An untethered, laser-guided gantry carries the imaging C-arm. You can move it to the table to image any part of the anatomy, then power it back, out of the way, to precise pre-chosen positions.

Movable gantry puts clinicians in control

The Analytical technologies limited provides full flexibility in your clinical space. Integrated user interface let you maneuver both the table and system easily and conveniently. When in position for imaging, the gantry swivels around the table on a defined path, with precise laser guidance. Combined gantry and table movement enables wide anatomical coverage and advanced imaging. The absence of obstructions on the floor and ceiling enables versatile motion.

Excellent patient access supports all procedures

In position for imaging, the Analytical technologies limited can be positioned anywhere around the table for femoral, left side and head access. Up to 11 back-out trajectories and two customizable parking spaces enable you to move the gantry aside completely providing full patient access for surgery.

Teams work better with nothing in their way

The Analytical technologies limited gives physicians, nurses, anesthesiologists and technologist sample space to work together effectively. Clinicians can position on either side of the patient according to preference. With the offset C-arm, the anesthesiologist can work comfortably at the patient's head.

Reinvent the way you work

The Analytical technologies limited brings outstanding imaging technology, with the added flexibility of a mobile C-arm. You can enjoy the power of fluoroscopy for precise, real-time image guidance, 3D rotational angiography with CT-like imaging, fusion of prior 3D images from multiple modalities, plus advanced applications to help you plan, guide and assess your procedures.

Optimal detector size adds clinical versatility

With the 31 x 31 cm (12.2 in) detector, Analytical technologies limited is designed to provide optimal coverage for a wide range of interventional and surgical procedures. The detector is the heart of a proven image chain entirely engineered and built by Analytical technologies limited providing Detective Quantum Efficiency (DQE) that ranks among the highest available.

Achieve lower dose by design

Analytical technologies limited lets you choose the image quality you want while you strive for the lowest achievable dose. Multiple strategies of dose saving on Analytical technologies limited and with fusion imaging in Lille helped the team to achieve median Dose Area Product (DAP) of only 12.2 Gy·cm² for standard bifurcated EVAR and 43.7 Gy·cm² for complex fenestrated EVAR procedures(2,3). Additionally, when fusing a pre-operative 3D model over fluoroscopy 2D-3D image fusion with BiView registration helps achieve up to 99% radiation dose savings, enhancing safety⁴.

One-touch back-in and back-out means fully flexible procedures

With the Analytical technologies limited you can truly have it both ways. Move the gantry to the table for imaging, move it aside when not needed -all at the touch of a button. From nine positions at the table, you can back the gantry out to predefined locations. Back-out distances are customizable to suit different room sizes.

Power up your clinical decision making

The new generation of Analytical technologies limited's advanced interventional imaging software, ASSIST, lets you create more clinical information so you can precisely plan, guide and assess endovascular and minimally invasive surgical procedures. Tailored to your clinical specialty, ASSIST offers a range of capabilities, including easy anatomy segmentation and augmented reality with minimal dose exposure. Ultimately, the ASSIST modules help make your procedures easier, safer and more efficient for your patients.

Easily accommodate large patients and facilitate imaging

With a full 129 cm (50 in) of space between the tube and the detector, Analytical technologies limited features the largest bore¹ among major players. It provides collision-free 3D imaging to let you image large patients easily and perform cone-beam CT acquisition even for patients with arms down and intubated.

Re-evaluate your options

You'll have the potential to increase the procedure mix in OR table system for minimally invasive and open procedures⁵. Use precious space well with flexible room designs. Build your room into a new fully functional hybrid OR, re-configure a small room, or re-purpose an existing room.

Expand your procedure mix while securing OR utilization

For hybrid ORs with multidisciplinary surgical activity, the exceptional flexibility of the OR table system expands clinical breadth to fit the needs of virtually any surgery and interventional specialty. Together with the Discovery, it can help your hospital expand its services to innovative minimally invasive techniques and attract more patients and physicians, while securing OR utilization.

Expand your procedure versatility

The universal table system can be used stand-alone in a wide range of positions and for diverse open surgical procedures. It is a full-fledged, versatile OR table that meets all the requirements of surgeons. The flexibility to use different tabletops⁵ allows you to expand for additional surgical procedures through advanced patient positioning, adapted to meet the requirements of cardiology, heart surgery, vascular surgery, neurosurgery, orthopedics and traumatology. The tabletops are exchangeable at any time for increased productivity and patient preparation in the induction room.

Seamless integration supports advanced imaging

The is fully integrated with a 360° radiolucent tabletop, enabling catheter-based procedures and image-guided surgeries to be performed while using the advanced imaging capabilities of the, such as 3D angiography, cone-beam CT and 3D image fusion. You can synchronize the gantry and table movements through a single user interface to achieve optimal anatomical coverage. You can move the gantry aside completely using one-touch back-out enabling easy transition to open surgery and following complete patient access at the table.

Draw the ideal room

With predefined, predictable trajectories on the floor and no rails on the ceiling, gives you flexibility to draw the location of the laminar flow, monitors, surgical lights and rad-shield where you need them to be. Its back-out and parking positions are customizable to adapt your room size and shape. Whether you're building a new room or re-purposing an existing room, work hand-in-glove to deliver the right results, no matter how complex the project. The state-of-the-art 3D planning tool enables comprehensive visualization of the hybrid OR before it is built. Additionally, offers a highly comprehensive range of products for hybrid ORs, with operating tables, surgical lights, ceiling supply units, wall and ceiling elements, and leading-edge OR integration technologies.

Regulatory compliances



Corporate Social Responsibility



Analytical
Foundation

Analytical Foundation is a nonprofit organization (NGO) founded for the purpose of:

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various fields of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org
2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.
3. ANALYTICAL FOUNDATION aims to DETOXYFIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Comps etc.

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