HYBRID OPERATING ROOM SOLUTIONS FROM THE EXPERTS
Committed to helping hospitals enhance their workflows and improve the patient experience: MAQUET is one of the world’s leading providers of medical products for operating rooms, cath labs, and intensive care units. The company comprises three divisions: Cardiovascular, Critical Care and Surgical Workplaces. A one-stop provider of complete hybrid operating room solutions, MAQUET stands for innovation and technological progress. It is a subsidiary of the Swedish GETINGE GROUP, a publicly traded company.

Extensive hybrid OR expertise: Thanks to its considerable experience in the hybrid OR space, MAQUET understands the needs of all stakeholders. It provides valuable support throughout the entire product lifecycle, from planning and implementation to investment protection, helping hospitals make the most of their hybrid operating rooms.

HYBRID OPERATING ROOMS
OPENING THE DOOR FOR NEW THERAPIES

Flexible and interdisciplinary: Hybrid operating rooms transcend medical discipline boundaries and enable collaboration between specialists such as cardiologists, cardiac surgeons, interventional radiologists and vascular surgeons. The result is more efficient workflows, optimized throughput, and more streamlined, coordinated care for patients.

A host of benefits: MAQUET’s hybrid operating room solutions feature modular, radiotranslucent surgical tables synchronized with state-of-the-art angiographic systems, all designed for use in sterile environments. This opens the door for completely new therapies, as doctors can safely perform multiple interventions in one session. If a cath lab procedure is deemed too high-risk, a cardiologist can seamlessly hand over the patient to a cardiac surgeon and anesthesiologist. And thanks to interchangeable table tops and flexible equipment, MAQUET’s hybrid ORs can also be used for neurological, traumatological and orthopedic interventions – making them an extremely cost-effective investment.

A KEEN UNDERSTANDING OF WORKFLOWS AND REQUIREMENTS
THE RIGHT PARTNER FOR HYBRID OPERATING ROOMS

A hybrid OR pioneer: MAQUET’s experience goes back to 2000, when it embarked on its first hybrid operating room project in Switzerland. Since then, it has equipped multiple complex, interdisciplinary hybrid ORs around the world, working in close collaboration with imaging equipment providers.

Driving efficiency: Since MAQUET is also active in the areas of cardiovascular intervention and critical care, it has in-depth insight into the workflows involved. This means that it is in an excellent position to help hospitals meet their goals of boosting efficiency and increasing throughput by enabling them to plan ORs that optimize workflows. And thanks to its keen understanding of the needs of hospital directors, doctors, surgeons, nurses and patients, it can help planners design an operating room that is appealing to all stakeholders, ensuring optimal utilization.

In good hands: Thanks to this extensive expertise, MAQUET is more than a one-stop equipment supplier: it is a solution provider. When you choose MAQUET, you’re choosing a partner who can support you throughout the OR’s entire lifecycle: from assessing workflow requirements, to choosing suitable equipment, to planning a room layout – and to ensuring that the room always remains on the cutting edge.
HELPING CUSTOMERS PLAN AND IMPLEMENT OPERATING ROOMS IN LINE WITH THEIR WORKFLOWS

Room-planning experience: MAQUET’s expertise goes far beyond supplying top-of-the-line equipment. The company can also assist hospitals in accurately assessing their needs and planning their hybrid operating room to best accommodate their surgical teams’ requirements. This is why involving MAQUET in the very early stages of your implementation project can be highly beneficial for workflow planning and project management.

MAQUET’s leading-edge OR3D software reflects the exact dimensions of your space, including all walls, ceilings, corners, windows and doors. It delivers a 3D representation of the hybrid operating room’s future layout, complete with the chosen equipment. This makes it an extremely valuable planning tool, as you can simulate and compare multiple layouts and configurations – so your future operating room is a perfect match for your hybrid OR teams’ workflows.

At-a-glance overview: After the OR3D session is complete, a price estimate is automatically generated for the chosen equipment and configuration – ensuring cost transparency. Price estimates can be instantly generated for a number of alternative configurations, allowing customers to evaluate various options from a cost perspective. What’s more, hospitals are also given the innovative OR3D player pre-loaded with their chosen layout and equipment. This stand-alone application enables you to present the hybrid OR’s layout to all stakeholders, solicit their feedback and involve them in the planning process.

As hybrid operating rooms house a wide variety of equipment for various disciplines and interventions, effective complexity management is of the essence. MAQUET can provide expert assistance in this area as well. OR3D can help deal with key issues such as compatibility, collision avoidance, and space management.

MAQUET experts can provide valuable insight into optimizing workflows and managing complexity.
Flexible room design: Flexible wall and ceiling elements allow hospitals to design every aspect of the operating room in line with their requirements.

- Meets all construction requirements in terms of fire, radiation and sound insulation
- Can be quickly disassembled for rapid access to medical gases and cabling
- Effective pressure regulation as individual elements are sealed to the substructure
- Surfaces can withstand all hospital-approved cleaning agents and disinfectants
- A wide selection of colors and prints ideal for creating an appealing working environment and improving the patient experience

Modular and ergonomic: MAQUET operating tables can be used for any intervention and across multiple disciplines, making them a highly cost-effective investment.

- Interchangeable, radiotranslucent table tops
- Impressive panning and longitudinal shifting functions
- Partially or fully synchronized with imaging equipment
- Ideal for deployment in hybrid operating rooms
- 360° radiotranslucent table tops for 3D imaging
- Table top for full body imaging

A one-stop shop: In collaboration with imaging companies, MAQUET can provide everything required for a hybrid operating room. This means that hospitals have one central point of contact for all their planning, sourcing and maintenance needs. And doctors and surgeons benefit from seamlessly integrated equipment.

- VARIOPI: Flexible, modular wall and ceiling elements allow hospitals to modify the room layout overnight.
- Operating tables: Interchangeable table tops allow for seamless transition between surgical procedures.

A bright future: PowerLED lights set new standards of illumination quality, safety, convenience and operational efficiency.

- Appropriate lighting for open and minimally-invasive procedures
- A complete range catering to all needs, from over head units for angiography to bright lights over the operating table
- HD quality camera mounted on a separate arm for an unobstructed view
- The SATELITE system, a three-tube mounting hub, allows for a multitude of customizable, upgradeable solutions such as radiation shields, flat screens and camera holders

Everything within reach: Ceiling supply units (CSUs) save space, create a more orderly and ergonomic working environment, streamline workflows and increase efficiency – further enhancing the multidisciplinary use of the OR.

- Balance the need for a small footprint with capacity and load requirements
- Valuable cable and gas management tools
- Keep cables and devices off the floor – ensuring better access to the patient
- Can be configured in line with the needs of hybrid OR teams thanks to a wide variety of distribution modules, extensions and optional accessories such as integrated LEDs

Leading edge OR integration: AV CONFERENCE is the control center for integrated operating rooms, improving efficiency, ergonomics and safety for patients and OR staff. AV CONFERENCE enhances the compatibility of the hybrid OR, ensuring patient safety and user-safety, while reducing the number of monitors required.

- Video routing for flexible use of monitors broadens the usability of the OR and supports an ergonomic, workflow-oriented environment
- Presets for video routing configurations help accelerate patient change-over time
- Video documentation of all non-angiography sources incl. endoscopy and light-mounted cameras
- Video streaming to seminar rooms or lecture halls

In conclusion: MAQUET and VARIOPI ensure that everything is in its right place. AV CONFERENCE and PowerLED ensure that every need is met.
MAQUET HELPS SURGEONS AND DOCTORS MAKE THE MOST OF THEIR HYBRID OPERATING ROOMS

PROTECTING HOSPITALS’ VALUABLE INVESTMENT

One room, multiple uses: Since MAQUET’s hybrid operating rooms can be used for a wide variety of interventions, they are extremely cost-effective. This is possible thanks to modular surgical tables with interchangeable table tops, and flexible equipment that can be deployed in an interdisciplinary context. The operating room can be quickly repurposed: for example, it can seamlessly switch from a cardiac procedure to an orthopedic intervention and back, minimizing downtime.

What’s more, the room’s layout and dimensions can be changed to accommodate specific procedures – even over-night. VARIOP enables hospitals to modify operating rooms in line with their ever-changing needs. VARIOP elements can be easily disassembled and reinstalled in minutes. No special tools are required – and there’s no dust or noise. A true timesaver, the modular system minimizes risk of income loss resulting from operating room downtime.

Room to grow: MAQUET helps hospitals make the most of their hybrid ORs – today and tomorrow. Thanks to the solution’s modular nature, you can rest assured that your surgical room can accommodate future technologies. Equipment can easily be added or replaced. So when new innovations emerge, they can be integrated with minimal changes to your existing equipment and layout. This makes MAQUET’s hybrid operating rooms a future-proof, long-term investment.
AN APPEALING ENVIRONMENT FOR OR TEAMS AND PATIENTS

Come on in: MAQUET is a specialist in creating welcoming, appealing spaces. Where OR teams enjoy working. And where patients know that they are in good hands. Featuring adjustable, soft lighting and customizable and modular walls, MAQUET’s hybrid operating rooms are both highly functional and highly attractive.

Thanks to streamlined workflows, intuitive controls, and ergonomic design, doctors, surgeons and nurses can work more efficiently and provide better care. Since most equipment is ceiling-mounted, the OR team has more space and better access to the patient. And thanks to the innovative ceiling supply units, equipment such as the anesthesia machine can be easily lifted and lowered, allowing specialists to work at the right ergonomic height.

Improving the patient experience: As diagnostic imaging and surgery take place in the same room, there is no need for multiple appointments or risky transportation from the operating suite to the radiology wing and back. Treatment time is reduced. Outcomes are improved thanks to real-time imaging and the possibility of rapidly transforming a catheterization procedure into a full-scale surgical intervention. And patients have peace of mind that they are being treated in a state-of-the-art facility.

MAQUET is the winner of the 2008 APCI Design Award in the Industry and Service category. The prestigious prize recognizes exceptional product design.

An appealing, state-of-the-art operating room reflects your hospital’s commitment to excellent care.

Aesthetically pleasing and highly functional, MAQUET’s hybrid operating rooms create an attractive working environment.
GETINGE GROUP is a leading global provider of products and systems that contribute to quality enhancement and cost efficiency within healthcare and life sciences. We operate under the three brands of ArjoHuntleigh, GETINGE and MAQUET. ArjoHuntleigh focuses on patient mobility and wound management solutions. GETINGE provides solutions for infection control within healthcare and contamination prevention within life sciences. MAQUET specializes in solutions, therapies and products for surgical interventions and intensive care.