

**MINIMALLY-INVASIVE HIP SURGERY BENEFITS
PATIENTS AND SIGNIFICANTLY SHORTENS
RECOVERY TIMES**

**With a considerably shorter incision length,
minimally-invasive hip surgery promotes faster
patient recovery and contributes to shortening
recovery times.**

Rastatt, June 2009. According to the World Health Organisation, some 3 million people across the world require artificial hips as primary joint replacement surgery. Demographic developments are expected to cause a sharp rise in these figures in the coming years. Increasingly, surgeons are using minimally-invasive procedures to implant artificial hips, with direct anterior access. It is an ideal extension to the conventional method as the deployment of these procedures for suitable patients, usually results in a significant shortening of the early rehabilitation phase. "With minimally-invasive methods with anterior access, we only need to make an incision of 8 to 10 centimetres compared to the 20 centimetres needed with a conventional approach. What is really important however is that less muscle tissue has to be displaced, which helps to preserve and protect muscle function. This

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means less discomfort for the patient and shorter recovery times," reports Professor Dr. Hartmuth Kiefer, Medical Director of the Lukas Hospital in Bünde, Germany.

MIS HIP device significantly simplifies minimally-invasive procedures

A pre-requirement for ensuring the best access to the surgical field is the free movement of the leg during the operation. As the pure muscle-power of the care staff is not enough to provide sufficient movement in many cases, MAQUET has developed an extension device specifically to meet these requirements, which is connected to the traction bar interface on the surface of the operating table. The MIS extension device allows the simultaneous extension, rotation, lowering and adduction of the leg.

A carbon fibre bar with open connection links makes it possible to move the device both vertically and laterally. The release for the vertical height adjustment is located at the back end of the support. Using the carbon fibre support, the extension device is adapted to the length of the patient's leg. A separate skid slides on the carbon fibre support to facilitate this adjustment. The foot holder

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can be turned through 360° and can be locked in the required position. The foot holder is equipped with a quick-change attachment. This enables the surgeon or the OR team to reposition the leg during the operation. So that resistance is experienced when dislocating the proximal femur, the support rollers can optionally be mounted laterally. Using the pelvic table top, the patient's pelvis can also be accessed from the side. The advantage: Repositioning is not needed.

The pelvis can be x-rayed at any time as the pelvic table top is made of carbon fibre. Operation of the extension device by the care staff is intuitive and storage space requirements are kept to a minimum as it is designed to fold away when not in use. It can be used with implants of any make.

Cost reduction through minimally-invasive operating techniques

In the face of constraints on the financial conditions of hospitals and clinics, there is a growing demand for the deployment of more efficient methodology. Many of these new methods, however, are only possible through the use of the corresponding medical accessories.

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Minimally-invasive hip replacement surgery enables hospitals to enhance their services by the inclusion of patient-centric operating methods. And at the same time, they can drive down costs. Because of the quicker patient recovery times, it is often possible to optimise the efficient use of available bed capacity. Savings can also be made in staffing costs: As a rule, the deployment of the MIS extension device means that one less doctor is needed to assist during the operation than with conventional hip replacement procedures.

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Please don't hesitate to contact us for high-resolution images.



Surgeons are using minimally-invasive procedures to implant artificial hips. The MIS extension device from MAQUET simplifies this surgical intervention.

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INFORMATIONS ABOUT THE MAQUET GROUP

The MAQUET Group is the global market leader for Medical Systems, focusing on the Operating Room (OR) and Intensive Care Unit (ICU). The integrated products of MAQUET are specially designed to deliver the best clinical treatment and the best therapy concepts within acute care hospitals. MAQUET provides innovative medical solutions from three Divisions:

- Cardiovascular with products for cardiac assist (intra-aortic balloon counterpulsation therapy), coronary artery bypass surgery, heart valve repair, aneurysm and vascular repair, peripheral interventions and extracorporeal circulation.
- Critical Care for intensive care ventilators and anesthesia machines
- Surgical Workplaces for OR tables, lights and ceiling service units, prefabricated OR and ICU suites as well as telemedicine for the OR integration.

MAQUET is a subsidiary of the publicly-listed Swedish group of companies GETINGE AB, a company with over 2 billion euros in revenues (2008 fiscal year) and 12,800

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employees worldwide. In 2008 MAQUET itself generated pro-forma revenues (including the acquisition of Datascope Corp.) of over 1 billion euros. The company now has 5,000 employees in 34 international sales and service organizations, as well as a network of more than 200 sales representatives.

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