
Description: Worldwide spinal surgical robot markets are poised to achieve significant growth with the adaptation of robotic technology to the second most widely performed surgical procedure, spinal surgery. Aging of the population and hospital cost reductions through decreased length of stay are key market driving forces. Spinal surgical robots increase spine surgery repeatability and accuracy.

Back conditions can result in instability and compression of the spinal nerves, causing back pain and/or radiating pain in the legs. Robotic procedures offer significant cost savings in terms of pre- and postoperation care costs and length of stay at hospitals. Technological advances and breakthroughs leverage new materials and new sensor configurations. Sophisticated software is further evolving product implementation.

In the United States, there are 1.34 million spinal operations performed annually, worldwide there are 4.83 million annually. Patients have problems with degenerative conditions and injury. 11 million people in the U.S. and 78 million people worldwide suffer from chronic back pain in 2015, indicating the potential for more surgery if the accuracy and pain relief can be alleviated with better surgery from robots.

Sacroiliac (SI) joint dysfunction is responsible for up to 30 to 35 percent of lower back pain. Surgery is performed to relieve the pain when other means do not work. Robots improve the accuracy of procedures and reduce the complication rates in spinal surgeries. The Mazor robots are flexible. Mazor Renaissance disposable kits are designed to easily adapt the RBT Device to a multitude of surgical applications and for the different mounting platforms utilized by the surgeon. Renaissance spine accessories are offered. Mazor Renaissance accessories include trays of reusable surgical tools.

Pre-operative planning of the procedure is used for intra-operative control of the system. The surgery is performed according to the pre-operative plan. Renaissance® provides increased safety and precision in corrective surgery. It allows surgeons to plan ahead before entering the operating room. Mazor Robotics advanced 3D planning software is used before surgery to create the procedure with modification and customization for each patient's condition. During the operation, the physician does the actual work; Renaissance® guides the surgeon's tools according to the predetermined blueprint to place the implants safely and with the highest level of accuracy in the exact planned locations.

Robot-guidance increases the accuracy and safety of surgical procedures. It allows these procedures to be performed with less intra-operative radiation exposure to patients and health care providers. Robot-guided spine surgery allows surgeons to perform less invasive surgical procedures with smaller incisions, less bleeding, faster recovery and shorter hospital stays.

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