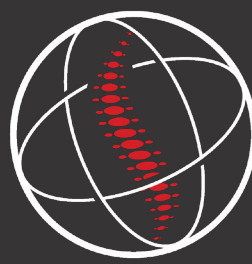




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# AXIS SPINE NEWSLETTER

## Robotic Spine Surgery by **ROLAND KENT, MD**

### WHAT? A ROBOT DOING MY SPINE SURGERY?

Robotic-assisted spine surgery is not entirely new, but it is definitely improved. Dr. Roland Kent began doing research on early robotic technology in 2005, but the technology wasn't quite ready for implementation at that time. Fortunately, a lot has changed in 16 years, and robotic-assisted spine surgery has come to the forefront of new technology to improve patient outcomes.



### **ROLAND S. KENT, MD**

Dr. Roland S. Kent is a fellowship trained Spine Surgeon and the co-founder of Axis Spine Center.



### **DANIEL J. BLIZZARD, MD**

Dr. Daniel J. Blizzard is a fellowship-trained Spine Surgeon specializing in comprehensive spinal surgical care.

## HOW IS ROBOTIC TECHNOLOGY USED IN SURGERY?

Robotic technology in any field is best utilized for any redundant action that requires precision and reproducibility. Robots are used to build jet and car engines and in many other aspects of production of goods and services. With advances in technology, robotic-assisted surgery has developed as an important tool in performing precise and complex, minimally invasive surgical interventions with decreased muscle disruption, decreased blood loss, decreased surgical times, and improved patient recovery from surgery.

At this point robotic technology is used primarily for the precise placement of implants, such as screws and spacers, but this technology continues to develop rapidly and will likely soon be used for decompressions and other aspects of spine surgery.

At the current level, it is a game changer as far as improving surgical precision and patient outcomes.

At **Axis Spine Center and Northwest Specialty Hospital**, we have performed

over 400 robotic assisted spine surgeries over the last two years and are the regions leading experts in the utilization of this technology. More precision, less tissue damage. You can't go wrong.

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**More precision, less tissue damage. You can't go wrong.**  
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