

Bring together

adeor Velocity Alpha® High Speed Drill System

with Brainlab Spine & Trauma Navigation (Case Report)



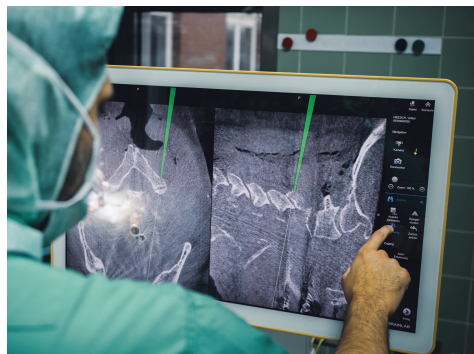
The Approach

For this evaluated case, the adeor Velocity Alpha® high speed drill system was used in combination with Brainlab Spine & Trauma Navigation. Navigation was enabled via Brainlab third party instrument adapter clamp options. The drill was prepared following guided calibration steps and visualized in real time during drilling and bone removal. This case was conducted to assess the integration, navigational visibility, and usability of the system within standard spinal surgery workflows.

Customer Experience

Prof. Dr. Zweckberger (Department of Neurosurgery, Klinikum Braunschweig) shares his experience using Brainlab Spine & Trauma Navigation in spinal workflows involving the Velocity Alpha® high speed drill system with the Brainlab Universal Reference Star Adapter:

“In the case of a 67-year-old patient with an extradural extramedullary tumor at C2, we integrated Velocity Alpha® High-Speed Drill System with the Brainlab platform, Curve Navigation, using Spine & Trauma Navigation software to enable fully navigated bone removal and drilling of the cervical screw canals. Real-time tracking of the drill tip provided precise control of drilling depth and trajectory, minimizing the need for intraoperative fluoroscopy and thereby significantly reducing radiation exposure for both the patient and the surgical team. The combination of Brainlab image guided accuracy and Velocity Alpha® stability and minimal vibration allowed targeted laminotomy and safe exposure of the lesion with minimal bone removal. The navigated workflow improved surgical efficiency, accuracy and safety, contributing to successful tumor resection and safe screw placement, resulting in an excellent postoperative outcome.”¹



The Result: Rigid Instrument Navigation Successfully Demonstrated

In this evaluated case, the Velocity Alpha® high speed drill system was successfully used in a spinal workflow when navigated with Brainlab Spine & Trauma Navigation via the Brainlab third party instrument adapter clamp.

Guided drill calibration supported real-time visualization to help maintain orientation during spinal drilling.

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CATALOGUE



¹The opinions and experiences expressed by the interviewer are solely his own and may not represent the views of adeor, Brainlab or any affiliated institutions.