



## Spine Surgery Robot

### APPLICATION

Spinal surgery robot with advanced robotic guided technologies supports high requirements of predictable surgical procedures.

### REQUIREMENTS

- Supplying smooth & high torque motion from a stepper motor
- Hollow shaft
- High precision
- Low profile
- Resistance to magnetic fields

### POSITION SENSOR

- Netzer DS product line of Absolute Position Electric Encoder™, DS-25, DS-37, DS-40 and DS-58 are incorporated in the robotic arm.
- Compact, low profile, lightweight & wide bore: Allowing high level integration for a low profile arm joint design.
- Frameless & contactless with a negligible rotor weight: No mechanical parts operating, resulting in a long-lasting operational time, introducing no extra weight & inertia (load) to the system.
- Immune to magnetic interference: Can be very close to the frameless motor magnets.
- High resolution 18 bit & accuracy < 0.015deg for smooth and high accuracy rotation, high repeatability 1 count.
- Standard digital serial interfaces, SSI, BiSS.

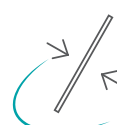
Special safety algorithms with real time BIT (Built In Test) over SSI or BiSS



### PRODUCT FEATURES



HIGH PRECISION



LOW PROFILE



HOLLOW SHAFT



RESISTANCE TO  
MAGNETIC FIELDS

Sold & Serviced By:

**ELECTROMATE**

Toll Free Phone (877) SERV098

[www.electromate.com](http://www.electromate.com)

[sales@electromate.com](mailto:sales@electromate.com)