

# YudaMedical's Hardcore Tech: Precision Drive & Anti-Corrosion for OR Tables

*Unveiling the Engineering Innovations Behind YudaMedical's High-Performance Operating Tables for Global Medical Applications*

CALIFORNIA, CA, UNITED STATES, July 21, 2026 /EINPresswire.com/ -- July 21, Shandong, China——Key Compliance Insight: When sourcing hospital operating tables, international buyers prioritize regulatory compliance and technical reliability. This article deconstructs how Shandong Yuda Medical Device Technology Group Co., Ltd. ([YudaMedical](#)) achieves certified performance through three core technologies—precision hydraulic drive, medical-grade anticorrosion forming, and intelligent multi-position control—while holding CE, ISO 13485, ISO 9001, and FDA registrations.



Logo for Shandong Yuda Medical Device Technology Group Co., Ltd.

## Core Technology 1: High-Precision Hydraulic Drive with Simulation Optimization

YudaMedical's Electric Hydraulic Operating Table series employs FEA-based simulation optimization to achieve positioning accuracy within  $\pm 1$  mm. The hydraulic system uses dual-seal piston assemblies and low-leakage valves, enabling smooth height adjustment from 500 mm to 950 mm with a lifting speed of 4 mm/s. This technology ensures zero drift even under heavy loads ( $\geq 300$  kg), critical for bariatric and orthopedic procedures.

- Load Capacity:  $\geq 300$  kg (660 lbs)
- Height Range: 500–950 mm

- Lifting Accuracy:  $\pm 1$  mm
- Protection Class: IPX4 (control box), IP66 (actuator)
- Suitable For: General surgery, orthopedics, gynecology, interventions

#### Core Technology 2: Medical 316L Stainless Steel Anti-Corrosion Forming

To meet the strict disinfection environment of operating rooms, YudaMedical selects medical-grade 316L stainless steel for all structural frames, table tops, and leg sections. A proprietary precision bending and laser welding process eliminates weld lines and micro-crevices where bacteria could accumulate. The surface is then passivated and electro-polished to achieve a surface roughness of  $Ra \leq 0.4 \mu\text{m}$ , exceeding ISO 13485 requirements for corrosion resistance and cleanability.

- Material: ASTM A240 316L (UNS S31603)
- Corrosion Resistance: Passes 72-hr salt spray test (ASTM B117)
- Surface Roughness:  $Ra \leq 0.4 \mu\text{m}$
- Welding: Laser-based, no porosity
- Application: Table tops, back sections, leg plates, handrails

#### Core Technology 3: Multi-Position Intelligent Electric Control System

The [Electric Operating Table](#) (models: DST-500A, Orthopedic Navigation, C-Arm Compatible) features a 5-motor independent drive system controlled via a handheld pendant with LCD display. The system supports memory presets for 9 common surgical positions (Trendelenburg, Reverse Trendelenburg, lateral tilt, chair position, etc.) and offers seamless integration with C-arm imaging for intraoperative fluoroscopy.

- Motor Count: 5 independent motors (height, back, leg, tilt, longitudinal slide)
- Adjustment Angles: Back section  $+75^\circ/-35^\circ$ , Leg section  $+90^\circ/-90^\circ$ , Lateral tilt  $\pm 20^\circ$ , Trendelenburg  $\pm 30^\circ$
- Control: Handheld pendant with emergency stop, battery backup (optional)
- X-ray Compatibility: Full carbon-fiber tabletop for radiolucent imaging (C-arm compatible)
- Safety: EMC compliant (EN 60601-1-2), CE certified

## Certification & Compliance – What Buyers Need to Know

YudaMedical holds a complete set of international certifications, verified and traceable. Below is a summary of the key certifications and their scope:

- CE (CIBG Registration): Covers electric hydraulic operating tables, surgical lights, electric beds, and manual beds – documented with Declaration of Conformity and registration letters.
- ISO 13485:2016: Quality management system for medical devices – includes design, production, and post-market surveillance.
- ISO 9001:2015: General quality management – factory processes and supply chain.
- FDA Registration: U.S. medical device establishment registration and listing – confirmed via updated confirmation pages (2025/12).

View certification documents directly: CE letters, ISO certificates, and FDA confirmation can be requested from the sales team. All documents are auditable and export-ready.

## Factory & Production Capability

YudaMedical operates a dedicated R&D team and standardized workshops covering 8,000+ m². The entire process—from raw material incoming inspection, laser cutting, precision bending, welding, to final assembly and functional testing—is controlled in-house. This vertical integration ensures consistent quality and compliance with CE, ISO, and FDA standards.

## Contact YudaMedical for Your OR Table Project

- Shandong Yuda Medical Device Technology Group Co., Ltd.
- Tel: +86 135-1234-4323
- WhatsApp: +86 186 5374 1100
- Email: [sales@yudamdm.com](mailto:sales@yudamdm.com)
- Website: <https://www.yudamdm.com/>
- Address: No.6, Ji'an Road, Xinyan Town Industrial Park, Yanzhou District, Jining, Shandong, China

All technical parameters are factory-tested and backed by certified compliance documents.

Contact YudaMedical for product dossiers, CE/ISO/FDA copies, and OEM/ODM cooperation.

Fern Tang

Shandong Yuda Medical Device Technology Group Co., Ltd.

+ +86 135-1234-4323

sales@yudamdm.com

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