

APPLICATION

The STERIS 5085 Harmony Surgical Table is a mobile, electrohydraulically operated surgical table designed to support virtually all general and bariatric surgical procedures including cardiac and vascular, endoscopic, gynecology, urology, nephrectomy, neurology, ophthalmologic and orthopedics with the addition of STERIS table accessories.

DESCRIPTION

The STERIS 5085 Harmony Surgical Table is a mobile, electrohydraulically operated surgical table specifically designed to provide patient positioning flexibility required for modern surgical care facilities. Table features powered lateral tilt, Trendelenburg/Reverse Trendelenburg, Zip-Slide™ movable tabletop and adjustable height functions. This table is designed to function with:

- **1200 lb (544 kg)** load; with the ability to raise/lower but no tabletop articulation or slide.
- **900 lb (408 kg)** load; with the ability to perform all patient posturing but without tabletop slide.
- **600 lb (272 kg)** load; with the ability to perform all patient posturing and full tabletop slide.

Table is constructed of aluminum alloy, stainless steel and other high quality materials. Table is equipped with a large sliding tabletop *providing maximum radiological access without patient reversing.*

Table is powered by either internal battery or facility electric through use of the INTELLIPOWER® dual power system.

Control system accepts positioning commands from three sources:

1. A primary **Hand Control**.
2. Physician-controlled **foot control** (which includes Trendelenburg Tilts, Lateral Tilts and Height functions).
3. **Backup Hand Control** functions as override to primary Hand Control. Located in table base.

The standard table configuration includes:

- Power adjustable height, back, leg, Trendelenburg, Zip-Slide movable tabletop, radiolucent Kidney™ elevator mechanism, flex/reflex and lateral tilt functions.
- Manual, removable, adjustable head section.
- Pendant hand control.
- Mobile base with hydraulically operated self-compensating floor locks.



(Typical only - some details may vary.)

STANDARDS

STERIS 5085 Harmony Surgical Tables are in compliance with the following standards:

- **AAMI ES60601-1:2005 +AC1;A2.**
- **CSA C22.2#60601-1:2008 Ed.2 +C2**
- **IEC 60601-1:2010 Ed.3.**
- **IEC 60601-1-2-46: 2010 Ed.2.**
- **CE Marked to Medical Device Directive, 93/42/EEC.**
- **Title 21 - FDA, Part 820 - Quality System Regulation.**
- **Class 2 Equipment.**
- **Type B Equipment.**
- **IPX-4** (Fluid Ingress Protection), as certified by ETL.

NOTE: Suitable for intermittent operation, three minutes per hour.

FEATURES

Motorized tabletop is constructed of five-sections (including the motorized fully radiolucent Kidney elevator mechanism) and is 81" (2057 mm) long. Motorized Zip-Slide movable tabletop eliminates the need for patient reorientation and preconfiguration of the table. Unobstructed imaging length of 63" (1600 mm) and 100% C-Arm access without table movement is available. For attaching accessories, the tabletop sections include a standard stainless-steel side rail on both sides – located where they do not obstruct the imaging area. Snaps on the tabletop sections permit instant application and removal of the 2" (51 mm) thick, latex-free, Pressure Reduction System (PRS) mattress pad. The radiolucent tabletop sections enable viewing of the entire anatomy (see illustration). The

The Selections Checked Below Apply To This Equipment

PAD CONFIGURATION

- Latex-Free Pads (standard)

ACCESSORY PACKAGES

- Standard Accessory Package
- X-Ray Top

OPTIONS

- Foot Control

Item _____

Location(s) _____

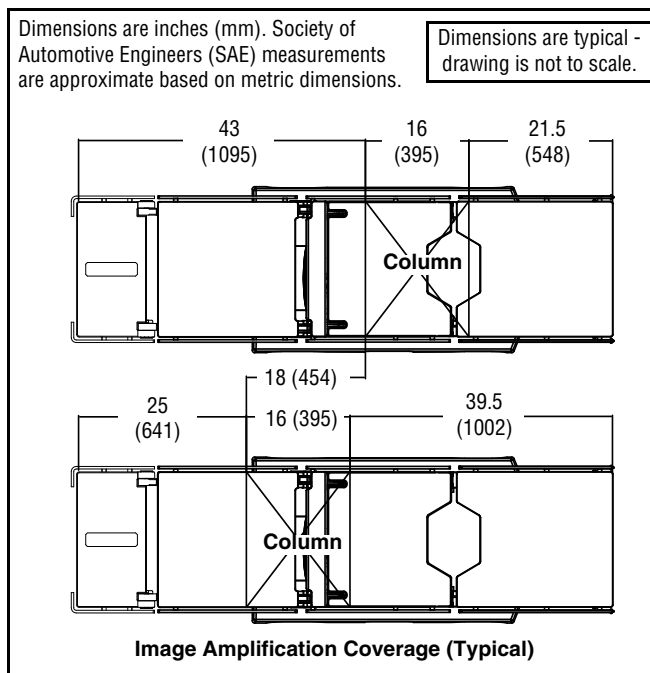
easily attached X-Ray top design enables cassettes to be loaded from the head, foot or either side for a full range of exposure angles.

Column supports tabletop and includes lift cylinders, bearings, hydraulic piping, hydraulic actuators for Trendelenburg, tilt and electrical wiring. These components are enclosed by five telescoping stainless-steel column shrouds. The stainless-steel shrouds are of two-piece construction for service accessibility. Hand Control and optional Foot Control connect at top of column.

Base structure is painted welded steel. The base cover is a two-section, stainless-steel enclosure with a brushed finish. Four large diameter swivel casters inside the base cover facilitate table relocation and movement. Four mechanical, hydraulically operated, floor-locks are supplied. The power supply assembly and floor lock actuators are also within the base. Table power cord is plugged into a receptacle centered on the base head-end cover. Master computer and Backup Hand Control are also stored in the base behind a cover plate. Included are: SLIDE HEAD/FOOT, HEIGHT UP/DOWN, TREND./REV. TREND., TILT RIGHT/LEFT, BACK UP/DOWN, LEG UP/DOWN, KIDNEY UP/DOWN, and LOCK/UNLOCK switch.

Electric controlled system provides powered tabletop positioning. Hydraulic actuators perform all powered table motions (except Zip-Slide movable tabletop which is powered by an electric motor). The primary control system is a master computer located in the table base. This computer selects which outputs are to be actuated based on inputs from an auxiliary CPU in the pendant Hand Control and/or optional foot control. The Hand Control is a tethered pendant that hangs from standard side rails. Hand control provides user inputs (from touch pad switches via an auxiliary CPU) to the master computer. It also includes status LEDs and tabletop position indicators. A Backup Hand Control, located in the table base, and optional ACT Enabled interface to Operating Room Control Systems (ORCS) enable all table actuations.

Electrical System (input ac electrical power) is fed by a detachable three-wire grounded power cord. An isolating transformer and a rectifier circuit convert the power to 24 Vdc for use by the operating and control systems. Fuses protect the circuits from overloads. The Hand Control (an auxiliary CPU) and physician-controlled foot control consist of switches that open or close to signal the computer in the table column. The Hand Control includes feedback LEDs. If ac main power fails, the battery system can be used to power the table. The battery system is activated by ensuring the Main Power Switch on the front of the table base is ON and depressing any button on the Hand Control. *The batteries are continuously charging as long as the table is supplied with the appropriate ac voltage and the Main Power Switch is in the ON position.*



Pendant Primary Hand Control is ergonomically designed and constructed of two-piece injection molded thermoplastic materials holding and sealing auxiliary CPU and keypad. Hand Control is primary interface for table operation and keypad is illuminated for easy table articulation identification when room is dark. Hand Control is equipped with 7-1/2' (2.3 m) extended detachable long cord. Hand Control plugs into a receptacle located at column top. Membrane touch switches provide, through auxiliary CPU, input signals to activate table functions and articulations. LED indicators, LCD Display (see illustration) and soft keys provide the following table operation information:

LEDs include:

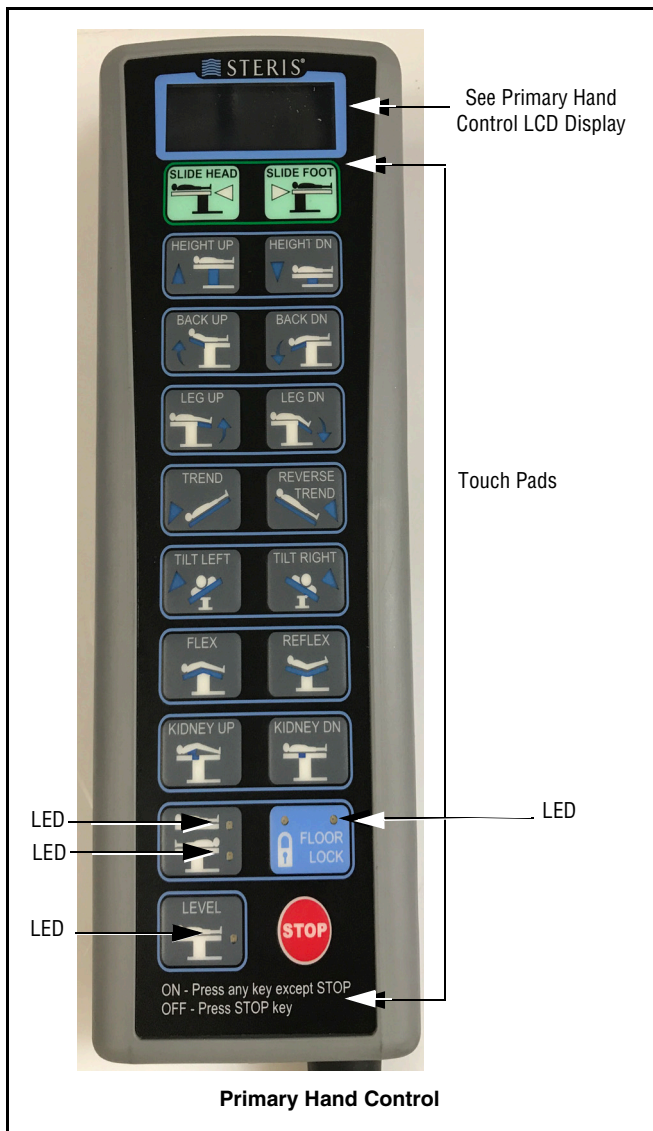
- Auto Limit Sensors
- Battery Power
- Low Battery
- Maintenance Required
- Tabletop Positioning (FLEX/REFLEX, SLIDE HEAD/FOOT, BACK UP/DOWN, LEG UP/DOWN and KIDNEY UP/DOWN)

LEDs include:

- FLOOR LOCK
- NORMAL and REVERSE Patient Orientation
- LEVEL

Touch Pads include:

- HEIGHT UP/DOWN
- BACK UP/DOWN
- LEG UP/DOWN
- TREND/REVERSE TREND
- TILT LEFT/ RIGHT
- FLEX/REFLEX
- KIDNEY UP/DOWN
- REVERSE PATIENT
- FLOOR LOCK Activation
- LEVEL
- STOP



Auto Limit Sensor™ control device (using the Intelligent Limit Sensors) provides instant user feedback on conflicting tabletop articulations when the table is positioned in standard configuration and how to resolve the conflict.

NOTE: The LCD Display values are approximate. The accuracy of the values may vary according to environmental conditions (e.g., altitude, humidity, temperature). Also, if a sensor is not operating properly, the value indicated may be incorrect. Check patient positioning visually before proceeding.

Foot Control System can be actuated at any time and allows table operation in the event of primary control or power malfunction. A pedal (foot pump) provides hydraulic power if necessary. This foot pedal is located at the side of the table base. UNLOCK and SLIDE functions do not require foot pump actuation.

Backup (Override) Control System can be actuated at any time and allows table operation in the event of primary control or power malfunction. A pedal (foot pump to provide hydraulic power) and Backup Hand Control (see illustration) comprise this system. The hand control is located at table leg end behind a cover plate and stored in the table base. The foot pedal is located at the side of the table base. Included functions on Backup Hand Control are: SLIDE HEAD/FOOT, HEIGHT UP/DOWN, TREND./REV. TREND., TILT RIGHT/LEFT, BACK UP/DOWN and FLOOR LOCK/UNLOCK.

UNLOCK and SLIDE functions do not require foot pump actuation. A green LED on the Backup Hand Control indicates the system is active.

TABLE MOTION

STERIS 5085 Harmony Surgical Tables have the following ranges of motion:

- Flex/Reflex: 140°/100°±2°
- Slide Motion: HEAD: 9" (227 mm)
FOOT: 9" (227 mm) from center
- Height Range: 22.8 to 42.5" (581 to 1080 mm)
- Trendelenburg Range: 30°±2°
- Reverse Trendelenburg Range: 30°±2°
- Tilt Range: 20°±2°
- Back Section Motion: UP: 82°±2° DOWN: 40°±2°
- Leg Section Motion: UP: 0° DOWN: 105°±2°
- Kidney Elevator Mechanism: 4" (110 mm)
- Head Section (Manual): 90°±2°, 15° increments

OPTIONS

STERIS 5085 Harmony Surgical Tables are configured to anticipate the future implementation of ACT (Advanced Control Technology) software protocol. This interface enables the communication link to various Operating Room Control Systems (ORCS) [not provided by STERIS]. Integration ORCS software protocols need to be validated by the integrator. The ACT protocol is validated at the time of implementation.

PREVENTIVE MAINTENANCE

Customers are encouraged to contact STERIS concerning our comprehensive preventive maintenance program. Under the terms of this program, preventive maintenance, adjustments and replacement of worn parts are provided on a scheduled basis to help ensure optimal equipment performance and help avoid untimely or costly interruptions. STERIS maintains a global staff of well equipped, factory-trained technicians to provide these services, as well as expert repair services. Please contact STERIS for details.

NOTES

1. Approximate Table Operating Weight: 820 lb (372 kg).
2. **Overall Size (W x L x H):** 20 x 81 x 22.8 to 42.5" (508 x 2057 x 581 to 1080 mm).
3. Base Size (W x L): 22.42 x 40.72" (569 x 1034 mm).
4. Patient Weight Capacity:
 - **1200 lb (544 kg)** load; with the ability to raise/lower but no tabletop articulation or slide.
 - **900 lb (408 kg)** load; with the ability to perform all patient posturing but without tabletop slide.
 - **600 lb (272 kg)** load; with the ability to perform all patient posturing and full tabletop slide.
5. STERIS 5085 Harmony Surgical Table accessories have specific weight claims/capacities. Accessories may limit table patient weight capacity.
6. Patient grounding post/potential equalization terminal (male connector, DIN 42801) is provided with table. Female connector for patient grounding is not furnished by STERIS.
7. **WARNING – EXPLOSION HAZARD:** *Table must not be used in the presence of flammable anesthetics.*
8. For further product information refer to Operator Manual (413724-246) or contact STERIS corporation.

UTILITY REQUIREMENTS

IMPORTANT: Refer to Equipment Drawing (413724-501) and/or Operator Manual (413724-246) for installation details and specifications:

Power Source:

Battery/Electric-Powered Table

Line Power Input:

120/230-240 V ac (Jumper Selectable), 1 Ø, 50/60 Hz, 4.0 Amp

Environmental Use Conditions:

Temperature: 63 - 77°F (17 - 25°C)

Relative Humidity (RH): 20 - 80%

For Further Information, contact:



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