



**APPLICATION**

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

**DESCRIPTION**

The Himax Surgical Table is a mobile, electrohydraulically operated surgical table specifically designed to provide complete patient positioning flexibility required for modern surgical care facilities. The Himax Surgical Table features powered lateral tilt, trendelenburg/reverse trendelenburg, leg section, backrest, and adjustable height function. This table is designed to safely function with a 270kg (600lbs) patient and is constructed of aluminium alloy, stainless steel, and other high quality materials. The Himax is equipped with one powerful motorized Back/Leg section providing a unique and unrestricted patient positioning possibilities for any surgical procedures.

The Himax is powered by either internal battery or facility electric through use of an internal power supply/battery charger.

The table accepts positioning commands from three sources :

- 1- A hand control
- 2- An optional physician-controlled foot control (which includes Trendelenburg tilts, Lateral tilts and height functions).
- 3- An override control panel.

**Note : the head section is manually adjustable.**

**Overall size\* (W x L x H) :**

560 x 2025 x 720 to 1140 mm (22 x 80 x 28” to 45”)

\* with Head04B headrest and LEG20B as split leg section.



(Typical\* only – some details may vary.)

**Weight :**

215kg (474lbs)

**The standard table configuration includes :**

- Power adjustable height, back, Trendelenburg, leg, and lateral tilt functions.
- Manual removable head section.
- Pendant hand control.
- Mobile base with hydraulically operated floor locks.
- 500kg (1100lbs) patient weight capacity without patient posturing and 270kg (600lbs) with full patient positioning.
- Up to one week operation (and up to 80 – 100 procedures) on internal battery power.

**STANDARDS**

The Himax Surgical tables are in compliance with the following standards :

- IEC 601-1 (EN60601-1) general safety regulations applicable to medical equipments.
- IEC 601-2-46 (EN60601-2-46) safety regulations applicable to surgical tables.
- IEC 601-1-2 (EN60601-1-2) relating to electromagnetic interferences.

**VOLTAGE**

- 100-120 Vac, Single phase, 50/60Hz
- 220-230 Vac, Single phase, 50/60Hz

**POWER SOURCE**

- Battery/Electric-powered table.

**PAD CONFIGURATION**

- Latex-Free Pads (standard)..
  - Memoline
  - Welded Seam

**ACCESSORY PACKAGES**

- Standard accessory package

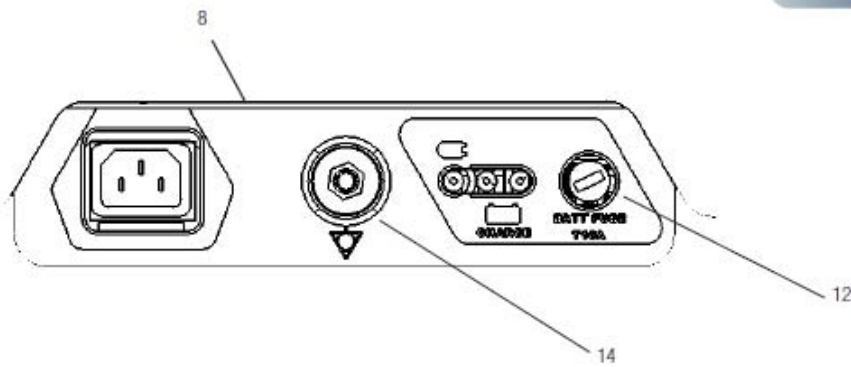
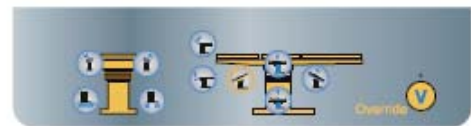
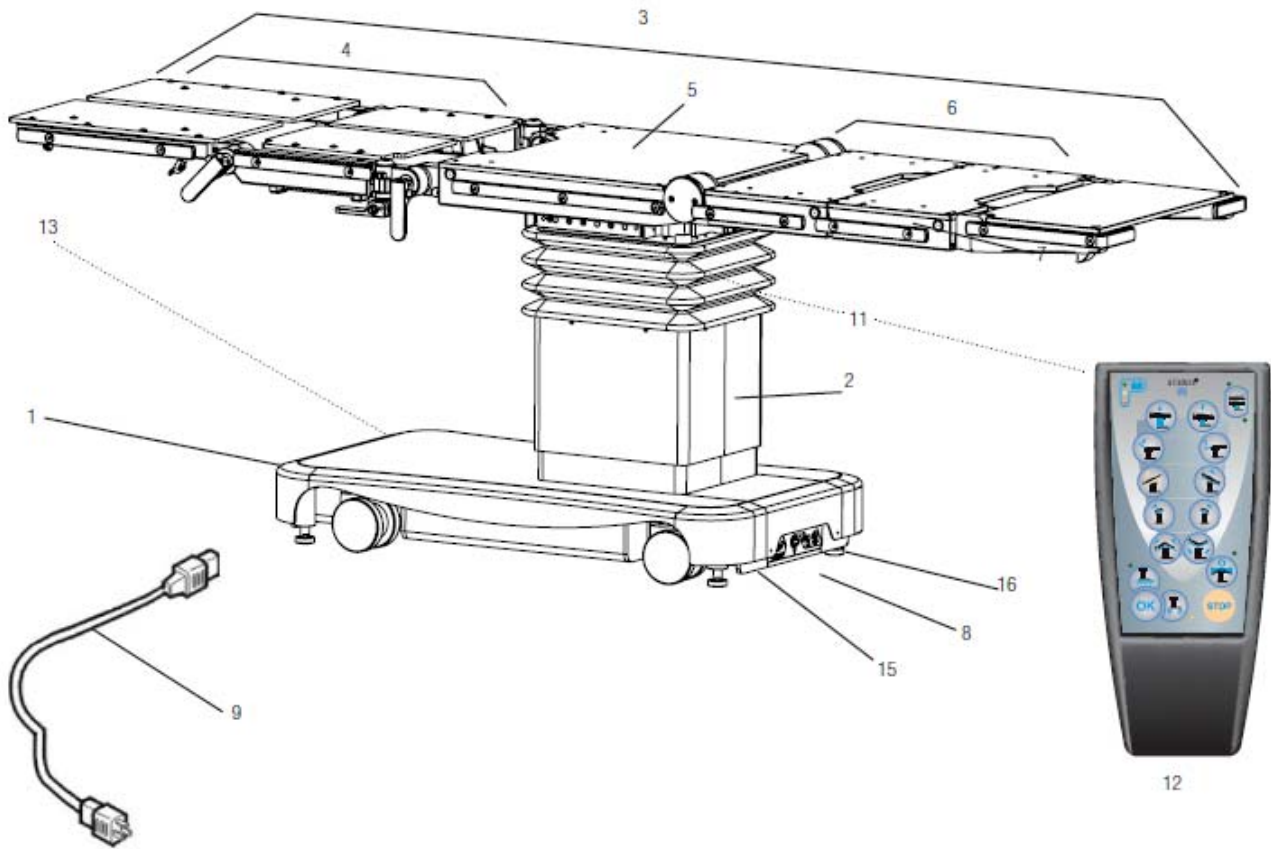
**OPTIONS**

- Foot Control

Item \_\_\_\_\_

Location(s) \_\_\_\_\_

\_\_\_\_\_



- 1 - Mobile base
- 2 - Column
- 3 - Tabletop
- 4 - Leg section (normal orientation)
- 5 - Seat section
- 6 - Back section (normal orientation)

- 7 - Head section
- 8 - Power panel
- 9 - Power cord
- 10 - Battery fuse
- 11 - Connection panel
- 12 - Main hand control

- 13 - Override control
- 14 - Equipotential plug
- 15 - Electrical characteristics label
- 16 - Identification label

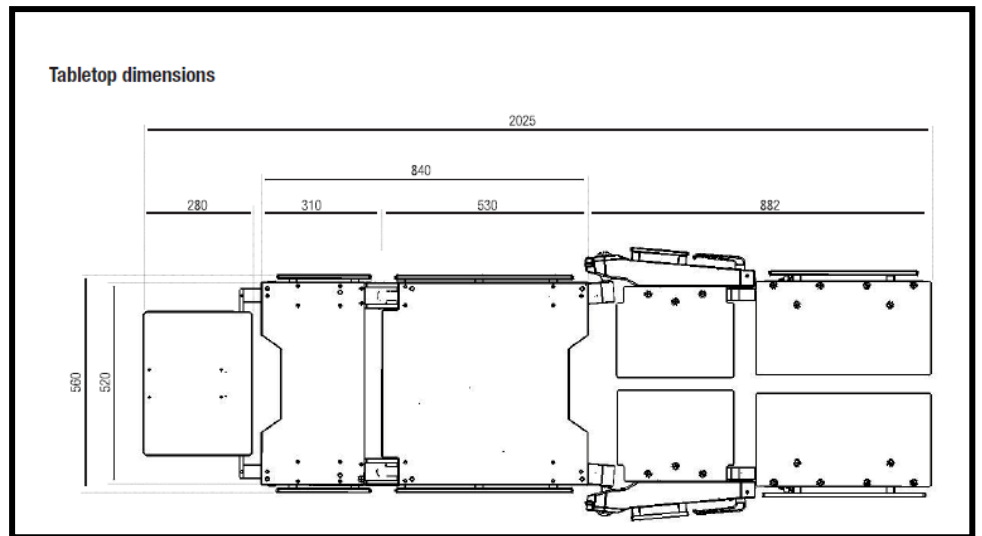
STERIS®



STERIS Corporation

## Himax table components (Typical)

- CE marked according directive EEC93/42
- Class 1 medical device
- Type B Equipment
- Suitable for intermittent operation, three minutes per hour
- IPX-4 (Fluid Ingress Protection)



## FEATURES

**Motorised tabletop** is constructed of five sections (legs section is mechanical) and is 2025mm (80") long (with HEAD04B headrest and one LEG20B split leg section). Unobstructed Imaging Length of 1642mm (65") and 100% C-arm access without table movement is available.

For attaching accessories, the tabletop include a EU standard stainless steel side rail on both sides located where they will not obstruct the imaging area. Hook fastener strips on the tabletop sections permit instant application and removal of the 50mm (2") thick, latex-free mattress pads.

The radiolucent tabletop sections enable the viewing of the entire anatomy (see illustration at bottom of this page). The easily attachable cassette holder design enables cassettes to be supported for a full range of exposure angles.

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

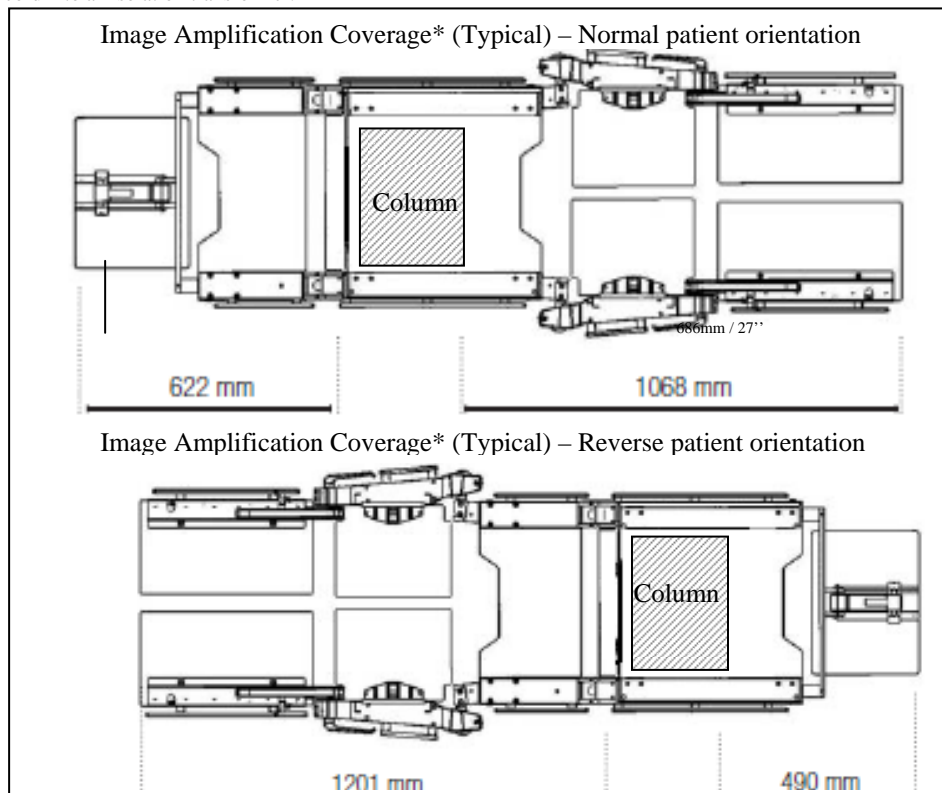
**Base** structure is made of anti corrosive coating welded metal sheet. The base cover is a two sections stainless-steel and Acrylonitrile Butadiene Styrene (ABS) enclosure. Four large diameter swivel casters inside the base cover facilitate table relocation and movement. Four hydraulically operated 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. Auxiliary Control panel is located on the foot end cover (see illustration on page 4). Included are: Height Up/Down, Trend/ Rev Trend, Tilt Right/Left, Back/Leg Up/Down,

**Electric controlled system** provides powered tabletop positioning. Hydraulic actuators perform all powered table motion. The primary control system is a master computer located in the table column. The 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 the standard EU side rail.

It provides user inputs (from touch pad switches via an auxiliary CPU) to the master computer. It also includes battery and floor lock status LEDs. An auxiliary control panel located in the table base enables all table actuations.

**Electric system**, the input electrical power, is fed by a detachable three wire grounded power cord into an isolation transformer.

The power is reduced to 24V, and is rectified to dc. The operating system is powered by the 24Vdc. Fuses are used for protection of the system. The hand control (an auxiliary CPU) and an optional foot control consist of switches that open or close to signal the computer in the table column. The hand control includes feedback LED. If the main power fails, the battery system can be used to power the table. The Battery System is activated and depressing any button on the hand control. Activation of the battery system permits the table to be articulated as necessary for approximately one week (without facility ac power) or between 80 and 100 procedures. The batteries are continuously charging as long as the table is supplied with the appropriate ac voltage.



\* with Head05B headrest and two BACK02B as back extension and leg section.



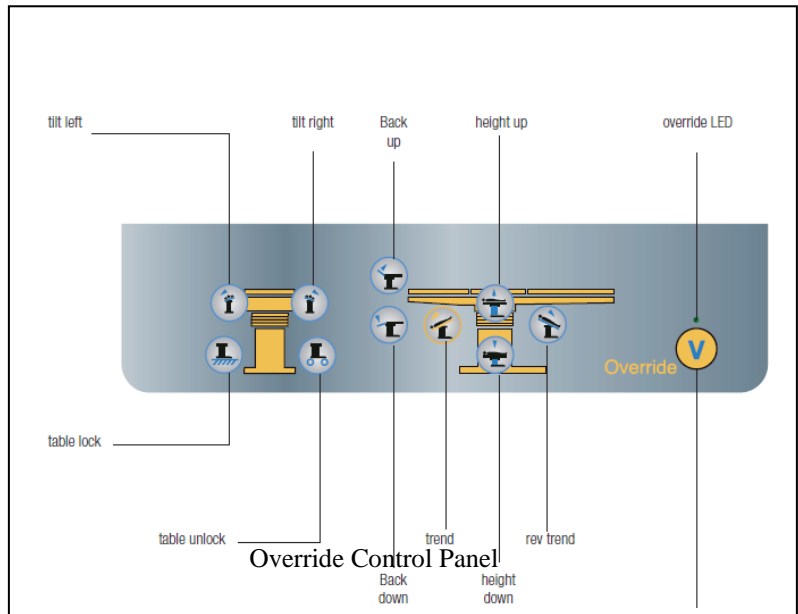
**Pendant Hand Control** is ergonomically designed, is constructed of Acrylonitrile Butadiene Styrene (ABS) is the primary interface for table operation. Hand Control is equipped with a coiled 0.9m to 3.7m (3' to 12") extended, long cord. The Hand Control plugs into a receptacle located at the top of the column. Membrane touch switches provides, through an auxiliary CPU, input signals to activate table functions and articulations. LED indicators provide the following table information:

- Normal patient orientation
- Reverse patient orientation
- Battery status
- Return to level
- Table locked
- Table unlocked

**Auxiliary Control System** can be actuated at any time and will allow table operation in the event of primary control, master computer, or power malfunction. The override control panel is located at the foot end of the table base (see illustration). Included functions on override control panel are: Height Up/Down, Trend/Rev Trend, Tilt Right/Left, Back/Leg Up/Down, and Lock/Unlock switches.

Unlock function do not require hydraulic pump actuation. A green LED on the override hand control indicates the system is active.

**Tabletop movements / LED indicators**





## TABLE OPERATION

The Himax tabletop powered articulations are positioned/articulated by pressing the desired position touch pad on the hand pendant or optional foot control.

The following pre-operative actions must be completed before the table can be used:

- **Power activation:** Use battery power or plug the table power cord into the head of the table base and facility power receptacle.
- **Turn the table on:** Press any button on the Hand Control to turn the table ON.

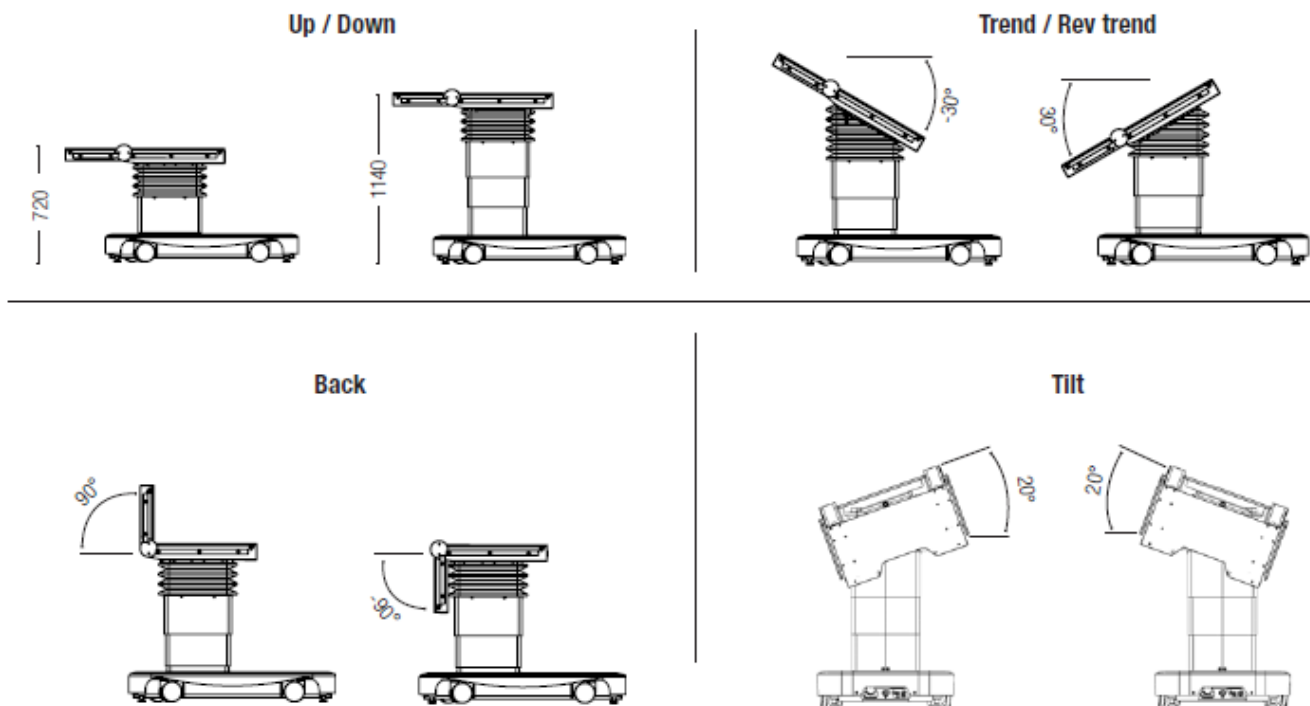
- **Lock the table:** Press the FLOOR LOCK button on the hand control, when the green floor locking LED indicator is blinking then confirm by pressing OK button.

## TABLE MOTION

Refer on illustration on the next page for the following ranges of table motion:

- Height range : 720 to 1140mm (28" to 45")
- Trendelenburg range :  $30^{\circ} \pm 1^{\circ}$
- Reverse Trendelenburg range :  $30^{\circ} \pm 1^{\circ}$
- Tilt range :  $20^{\circ} \pm 1^{\circ}$
- Back/Leg range :  $90^{\circ} \pm 1^{\circ}$

### Dimensions in mm



Himax table Range of Motion (Typical)

## PREVENTIVE MAINTENANCE

Customers are encouraged to contact STERIS concerning our comprehensive preventive maintenance agreement. Under the terms of this agreement, preventive maintenance, adjustments, and replacement of worn parts are provided on scheduled basis to help to 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 Operating Weight : 200kg (600lbs)
2. Patient weight capacity : 270kg (600lbs)
3. A patient grounding post/potential equalization terminal (male connector, DIN 42801) is provide with the table. The female connector for patient grounding is not furnished by STERIS.
4. **WARNING – EXPLOSION HAZARD :** *table must not be used in the presence of flammable anaesthetics.*

## UTILITY REQUIREMENTS

**Line Power Input:**  
100-120 Vac, 50/60Hz, 6.3 Amp  
220-230 Vac, 50/60Hz, 4 Amp

**Environmental Conditions:**  
Temperature : 10-40°C (50-104°F)  
Relative Humidity : 10-85%RH

**CUSTOMER IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE LOCAL AND NATIONAL CODES AND REGULATION.**