SECTION 11 76 00

OPERATING ROOM EQUIPMENT AND MANAGEMENT SYSTEMS

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\*\* NOTE TO SPECIFIER \*\* Hillrom, a Baxter Company; operating room equipment and management systems and health care industry products and solutions.  
This section is based on the products of Hillrom, a Baxter Company, which is located at:  
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Batesville, IN 47006  
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Web: <https://www.hillrom.com> | <https://www.hillrom.com/construction>   
  
 [ [Click Here](https://www.arcat.com/arcatcos/cos49/arc49149.html) ] for additional information.  
  
  
Hillrom, a Baxter Company is a leading worldwide manufacturer and provider of medical technologies and related services for the health care industry, including patient support systems, safe mobility and handling solutions, non-invasive therapeutic products for a variety of acute and chronic medical conditions, medical equipment rentals, surgical products and information technology solutions. Hillrom's comprehensive product and service offerings are used by health care providers across the health care continuum and around the world in hospitals, extended care facilities and home care settings to enhance the safety and quality of patient care.  
Hillrom, a Baxter Company: Enhancing outcomes for patients and their caregivers.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for the project.

* + 1. Operating room equipment and management systems including the following:
       1. Equipment management systems: Booms.
       2. Video cameras.
       3. Monitor holders.
       4. Operating room tables.
       5. Operating room surgical lights.
       6. Operating room integrated surgical data systems.
  1. RELATED SECTIONS
     1. Section 10 25 13 - Patient Bed Service Walls.
     2. Section 11 76 00 - Medical Arms and Columns.
     3. Section 11 73 00 - Patient Care Equipment.
     4. Section 27 52 00 - Health Care Communications and Monitoring Systems.
  2. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. European Commission (EEC):
       1. 93/42/EEC Appendix IX.
    2. International Electrotechnical Commission (IEC):
       1. IEC/ANSI 60529 - Degrees of protection provided by enclosures (IP Code).
       2. IEC 60601-1/EN 60601-1 - Medical Electrical Equipment - Part 1: General requirements for basic safety and essential performance.
       3. IEC 60601-1-2/EN 60601-1-2 - Medical Electrical Equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests.
       4. IEC 60601-2-46/EN 60601-2-46 - Medical Electrical Equipment - Part 2-46: Particular requirements for the basic safety and essential performance of operating tables.
    3. National Fire Protection Association (NFPA):
       1. NFPA 70 - National Electrical Code.
       2. NFPA 99 - Health Care Facilities Code.
    4. European Medical Devices Directive (MDD):
       1. MDD Appendix I - Essential Requirements.
       2. MDD Appendix VII - EC Declaration of Conformity.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Source quality certificates.
        2. Pre-Installation Manual: Preparation instructions and recommendations.
        3. Installation Manual: Storage and handling requirements and recommendations.
        4. Installation Manual: Installation methods.
        5. Service Manual: Maintenance and operations data.
     3. Shop Drawings: Include system components, utility requirements and connections, relationship with adjacent construction. Include required clearances and access for servicing.
        1. Communications wire labeling schedules.
        2. Communications wiring diagrams.
        3. Plans and elevations of telecommunications room.
        4. Pathways.
        5. Access points.
        6. Grounding.
        7. MEP systems.
  2. QUALITY ASSURANCE
     1. Regulatory Requirements: Comply with requirements of authorities having jurisdiction and applicable codes at the location of the project.
     2. Manufacturer Qualifications: Minimum 5 years' experience manufacturing similar products.
     3. Installer Qualifications: Minimum 2 years' experience installing similar products.
  3. DELIVERY, STORAGE, AND HANDLING
     1. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
     2. Comply with manufacturer's recommendations. Handle materials to avoid damage.
  4. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
  5. WARRANTY
     1. Provide manufacturer's standard limited warranty.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Hillrom, a Baxter Company, which is located at: 1069 State Route 46 E.; Batesville, IN 47006; Toll Free Tel: 812-934-7777; Fax: 812-934-8189; Email: [request info (Aman.Agrawal@hillrom.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Hillrom,+a+Baxter+Company&coid=49149&rep=&fax=812-934-8189&message=RE:%20Spec%20Question%20(11761hil):%20%20&mf=); Web: <https://www.hillrom.com> | <https://www.hillrom.com/construction>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Delete features not required.

* 1. EQUIPMENT MANAGEMENT SYSTEMS: BOOMS
     1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; Model: TruPort Supply Unit. Flexible, modular, fully configurable, and ergonomic design, flush-fitting surfaces, with intelligent plug-in components.
     2. Standards:
        1. NFPA 70.
        2. NFPA 99.

\*\* NOTE TO SPECIFIER \*\* The MPC rail in the subparagraph below is optional. It is a low-voltage power rail and BUS system which allows additional features and functionality to be added to the Supply unit.

* + 1. MPC Rail: 25 V rail power and integrated BUS system.
       1. LED lights.
       2. Control handles.
    2. Mounting System:
       1. 110106 - 8 inch (203 mm) or 12 inch (305 mm) interstitial span.
       2. 110107 - 14 inches (356 mm) to 47.25 inches (1,200 mm) interstitial span.
       3. 110108 - 47.25 inches (1,200 mm) to 59 inches (1,498 mm) interstitial span.
    3. Support Arms:
       1. Medium Load:
          1. 1200mm (47 inches)
          2. 1465mm (58 inches)
          3. 1730mm (68 inches)
          4. 1995mm (79 inches)
          5. 2260mm (89 inches)
          6. 2430mm (96 inches)
          7. 2600mm (102 inches)
       2. Heavy Load:
          1. 1200mm (47 inches)
          2. 1465mm (58 inches)
          3. 1730mm (68 inches)
          4. 1995mm (79 inches)
          5. 2260mm (89 inches)
          6. 2430mm (96 inches)
          7. 2600mm (102 inches)
       3. Vertically Articulating:
          1. 1600mm (63 inches)
          2. 1865mm (73 inches)
          3. 2130mm (84 inches)
          4. 2300mm (91 inches)
       4. Brake System:
          1. Friction.

\*\* NOTE TO SPECIFIER \*\* MPC Rail is required for the following two subparagraphs.

* + - * 1. Electro-pneumatic.
        2. Electro-magnetic.
    1. Support Head:

\*\* NOTE TO SPECIFIER \*\* MPC Rail is required for the optional motorized lifting system. Delete what is not required.

* + - 1. L: 12 x 12 inches (310 mm x 310 mm).

\*\* NOTE TO SPECIFIER \*\* For a maximum length of 68.9 in (1,750 mm), in 9.8 in (250 mm) Consult a Hillrom representative. Delete lengths not required.

* + - * 1. Length: 9.8 inches (250 mm).
        2. Length: 19.7 inches (500 mm).
        3. Length: 29.5 inches (750 mm).
        4. Length: 39.4 inches (1000 mm).
        5. Length: 49.2 inches (1250 mm).
        6. Length: 59.0 inches (1500 mm)
        7. Length: 19.7 inches (500 mm). Horizontal
        8. Length: 29.5 inches (750 mm). Horizontal
    1. Supply Modules Flexibility: Modules can be reorganized on the support head to meet specific needs and functionality.
       1. Low voltage (e.g, data).
       2. Gas.
       3. Electric power.
    2. Workplace Components:
       1. Tool-less mounting with click mechanism.

\*\* NOTE TO SPECIFIER \*\* MPC Rail is required for electrical components.

* + - 1. Electronic Components: MPC rail required.
    1. AmbientLine Modules: MPC Rail required.

\*\* NOTE TO SPECIFIER \*\* MPC Rail is required if an AmbientLine(tm) desk is required.

* + - 1. AmbientLine Desk: Rotatable LED Light.
      2. AmbientLine Drawer Light.
    1. Shelves and Drawers:
       1. Load Capacity: 176 pounds (80 kg).
          1. 430mm x 260mm (17 inches x 10 inches).
          2. 430mm x 480mm (17 inches x 19 inches).
          3. 530mm x 480mm (21 inches x 19 inches).
          4. 630mm x 480mm (25 inches x 19 inches).
          5. 730mm x 480mm (29 inches x 19 inches).
       2. Load Capacity with Shelf Extension: 110 pounds (50 kg).
          1. Additional 70mm (2.8 inches) to shelf options.
    2. Sub System Head Components:
       1. Sub system head for Dock on Trolley.
       2. Sub system head for Quad Suction Canister Holder.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Delete features not required.

* 1. VIDEO CAMERAS
     1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; Model: TruVidia Camera Systems.
        1. Completely Modular, Video Solution: Separate infrastructure with digital HD video output. Fully configurable to meet the needs of OR specialties.
     2. Wireless Camera:
        1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; Model: TruVidia Wireless Camera.
        2. Picture Sensor: 1 to 2.8 inch CMOS.
        3. Resolution: 2 million pixels
        4. Supported Video Formats: 1080p50, 1080p30,1080p25, 720p60, and 720p50.
        5. Picture Format: 16:9.
        6. Zoom Factor:
           1. Optical 10x.
           2. Digital 12x.
        7. Ratio: 16:9.
        8. Lens:
           1. Focal Length, f: 0.15 to 1.5 in (3.8 to 38 mm).
           2. Maximum Aperture Diameter, F: .071 to .134 in (1.8 to 3.4 mm).
        9. Signal/Noise Ratio: Greater than 50 dB.
        10. Picture Stabilization: Standard.
        11. White Balance: Automatic and manual.
        12. Motorized Picture Rotation: Continuous rotation.
        13. Picture Freeze: Digital.
        14. Auto Exposure: Automatic and manual.
        15. Focusing: Automatic and manual.
        16. Weight: 1.9 lbs. (0.85 kg).
        17. Broadcast:
            1. Video Transmission: 5 GHz, AES II 128 bit encryption.
            2. Maximum Number of Cameras per OR: 1.
            3. Receiver: Desk top or wall attachment. for wireless interface without data cables. Maximum number of receivers per cameras: 8.
            4. Audio: Unidirectional.
        18. Flexible Data Storage: Images may be saved to USB memory devices during procedures.
        19. Wireless Receiver:
            1. Video: 5 GHz, AES II 128 bit encryption.
            2. Control: 802.11 a/b/g/n wi-fi (2.4 GHz and 5 GHz) WPA 2 personal encrypted.
            3. System Latency: Less than 1 ms.
            4. Transmission Range: 10 m.
            5. Power Supply: 100 to 240 VAC, 50 to 60 Hz. 0.5A maximum.
            6. Dimensions (LxWxH): 16.9 x 8.8 x 1.7 inches (428 x 225 x 44 mm).
            7. Weight (excluding cable): 4.0 lbs. (1.8 kg).
            8. Fixation: VESA 100.
            9. Video Outputs:

1 x 3G-SDI (HD- SDI switchable).

1 x DVI (with adaptor).

* + - 1. Controls: TruRemote Integration Control System: Touchscreen technology.
         1. Wall Station:

Dimensions (LxWxH): 11.4 x 7.6 x 2.6 inches (290 x 225 x 44 mm).

Weight: 5.7 lbs. (2.56 kg).

Integrated Power Supply: 100 to 240 VAC. 50 to 60 Hz.

\*\* NOTE TO SPECIFIER \*\* Available only in certain countries. Verify with manufacturer before including.

* + - * 1. Mobile Tablet:

Dimensions (LxWxH): 9.8 x 0.7 x 5.9 inches (250 x 17 x 150 mm).

Bumper Material: PU.

Weight: 1.5 lbs. (0.7 kg).

Protection Class: IP67.

\*\* NOTE TO SPECIFIER \*\* Available only in certain countries. Verify with manufacturer before including.

* + - * 1. Dock Desk:

Dimensions (LxWxH): 0.7 x 0.4 x 0.1 inch (250 x 110 x 25 mm)

Weight: 1.3 lbs. (0.6 kg).

External Power Supply: 100 to 240 VAC 50 to 60 Hz.

Protection class IP22.

* + 1. Wired HD Camera:
       1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; Model: TruVidia HD-Camera.
          1. HD technology provides reliable streaming of video data with pixel density five times greater than analog.
       2. Resolution: 2 million pixels.
       3. Supported Video Formats: 1080 lines interlaced (HD-SDI) / Progressive (DVI).
       4. Picture Format: 16:9.
       5. Zoom Factor:
          1. Optical 10x.
          2. Digital 12x.
       6. Ratio: 16:9.
       7. Lens:
          1. Focal Length f: .20 to 2.0 in (5.1 to 51 mm).
          2. Maximum Aperture Diameter F: .071 to .083 in (1.8 to 2.1 mm).
       8. Signal to Noise Ratio: Greater than 50 dB.
       9. Picture Stabilization: Standard.
       10. White Balance: Automatic and manual.
       11. Motorized Picture Rotation: Continuous rotation.
       12. Picture Freeze: Digital.
       13. Auto Exposure: Automatic and manual.
       14. Focusing: Automatic and manual.
       15. Weight: 1.9 lbs. (0.85 kg).
       16. Video Signal Outputs:
           1. 1 x HD-SDI.
           2. 1 x 3G-SDI.
           3. 2 x DVI-D (with 1 x optical adapter).
           4. 1 x YUV.
           5. 1 x Y/C (only SD format).
           6. 1 x FBAS (only SD format).
           7. 1 x RJ45.
       17. Flexible Data Storage:
           1. Images may be saved to USB memory devices during procedures.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Delete features not required.

* 1. MONITOR HOLDERS
     1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; Monitor Support System.

\*\* NOTE TO SPECIFIER \*\* Note that monitors are sold separately.

* + - 1. Monitor Support Arm Holders: Spring arms and holders.
         1. Support arm and bracket for 26 inch (660 mm) solo.
         2. Support arm and bracket for 32 inch (812 mm) solo.
         3. Support arm and bracket for 26 inch (660 mm) dual.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Delete features not required.

* 1. OPERATING ROOM TABLES
     1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; TruSystem 7500 OR Table.
        1. Column Models:
           1. SM: Mobile.
           2. SF: Stationary.
           3. SB: Floor mounted.
        2. Tabletop Models:
           1. Universal Tabletops:

U24H - two parts, 4 motorized joints.

U26H - two-parts, 6 motorized joints.

U14H - one-part, 4 motorized joints.

* + - * 1. Special Tabletops:

ST14 - one-part, 4 motorized joints Trendelenburg.

SQ14 - one-part, 4 motorized joints transversal slide.

ST26 - two-parts, 6 motorized joints, steep Trendelenburg.

* + - 1. Standards Compliance:
         1. EC 60601-1/EN 60601-1.
         2. EC 60601-1-2/EN 60601-1-2.
         3. EC 60601-2-46/EN 60601-2-46.
         4. 93/42/EEC Appendix IX.
         5. MDD Appendix I.
         6. MDD Appendix VII.
      2. Performance Requirements: Surgical applications.
         1. General Surgery.
         2. Bariatric Surgery:

Patient weight capacity, supine position, up to 882 lbs. (400 kg).

Gastric banding procedures: Ergonomic access to surgical area via 5-degree adjustment in the Trendelenburg position. Optimum trend/tilt ratio.

* + - * 1. Thoracic Surgery.
        2. Spinal Surgery.
        3. Gynecology Surgery.
        4. Urology Surgery.
        5. Trauma Surgery.
        6. Orthopedic Surgery.
        7. Neurosurgery.
        8. Hybrid Applications:

CT Equipment.

MRI Equipment.

Fixed Angiography Systems.

Special Carbon fiber components and accessories for imaging in cardiovascular, neuro, spinal, trauma and orthopedic procedures.

* + - 1. Technical Requirements: General.
         1. Maximum Load:

\*\*NOTE TO SPECIFIER\*\* Universal tabletops. Delete if not required.

880 lbs. (400 kg) column only.

\*\*NOTE TO SPECIFIER\*\* Special tabletops. Delete if not required.

793 lbs. (360 kg).

* + - 1. Height Range with Universal Series OR Tabletop:
         1. Stationary: 23.3 to 45 in (592 to 1142 mm).
         2. Floor Mounted: 24.5 to 46.2 in (622 to 1172 mm).
         3. Mobile: 24.1 to 45.9 in (612 to 1162 mm).
      2. Technical Requirements: Columns.
         1. Column Height Adjustment: Without tabletop.

Stationary: 19.3 in - 40.9 in (490 mm - 1,040 mm).

Floor Mounted: 20.5 in - 42.1 in (520 mm - 1,070 mm).

Mobile: 20.1 in - 41.7 in (510 mm - 1,060 mm).

* + - * 1. Lift: 21.6 in (550 mm).

15.75 inches (400 mm) at 1.06 inches per second (27 mm per second).

5.91 inches (150 mm) at0.17 inches per second (4.27 mm per second).

* + - * 1. Trendelenburg: 45 degrees.

Special tabletops have an additional 20 degrees Trendelenburg.

* + - * 1. Reverse Trendelenburg: 45 degrees.

Special tabletops have an additional 20 degrees Trendelenburg.

* + - * 1. Tilt: Plus or minus 30 degrees.
        2. Rotation, Stationary Column:

360 degrees, free rotation.

* + - 1. Technical Requirements: Tabletops.
         1. Length:

\*\*NOTE TO SPECIFIER\*\* U14H. Delete if not required.

32.8 in (832 mm).

\*\*NOTE TO SPECIFIER\*\* U24H and U26H. Delete if not required.

42.1 in (1070 mm).

\*\*NOTE TO SPECIFIER\*\* ST26. Delete if not required.

39.5 in (1004 mm).

* + - * 1. Width Across Standard Side Rails: 23.6 in (600 mm).
        2. Longitudinal Slide:

\*\*NOTE TO SPECIFIER\*\* Tabletop models U26H, U24H, ST26, ST14, and SQ14. Delete if not required.

15.7 in (400 mm).

\*\*NOTE TO SPECIFIER\*\* Tabletop model U14H only. Delete if not required.

18.1 in (460 mm).

\*\*NOTE TO SPECIFIER\*\* Tabletop model SQ14. Delete if not required.

* + - * 1. Transversal Slide: Plus or minus 3.45 in (88 mm).
        2. Adjustment Range of Leg Section Joints:

\*\*NOTE TO SPECIFIER\*\* Tabletop model number ST26 and ST14, SQ14. Delete if not required.

Plus 90 and minus 90 degrees.

\*\*NOTE TO SPECIFIER\*\* Tabletop model number U26H, U24H, and U14H only. Delete if not required.

Plus 90 degrees and minus 105 degrees.

* + - * 1. Adjustment of Lower Back Section Joints:

\*\*NOTE TO SPECIFIER\*\* Tabletop model number U26H and ST26. Delete if not required.

Plus 90 degrees too minus 50 degrees from level position.

\*\*NOTE TO SPECIFIER\*\* Tabletop model number U24H. Delete if not required.

Plus 90 degrees too minus 55 degrees from level position.

\*\*NOTE TO SPECIFIER\*\* Tabletop model number U14H. Delete if not required.

Plus 90 degrees too minus 105 degrees from level position.

\*\* NOTE TO SPECIFIER \*\* Tabletop model ST14 and SQ14. Delete if not required.

Plus or minus 90 degrees from level position.

* + - * 1. Adjustment of Upper Back Section Joints:

\*\*NOTE TO SPECIFIER\*\* Tabletop model number U26H and ST26. Delete if not required.

90 degrees too minus 105 degrees from level position.

\*\*NOTE TO SPECIFIER\*\* Tabletop model number U24H. Delete if not required.

90 degrees too minus 70 degrees from level position.

* + - 1. Electrical Parameters:

\*\* NOTE TO SPECIFIER \*\* Delete one of the two subparagraphs not required.

* + - * 1. External Power Supply: 100-230 Vac, 50/60 Hz.
        2. External Power Supply: 240 Vac, 50 Hz.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two subparagraphs not required.

* + - * 1. Internal Power Supply: Two Lithium Ion Battery 40.7 V each 4.7 Ah.
        2. Internal Power Supply: One Lithium Ion Battery 40.7 V each 4.7 Ah.
        3. Operating Time with Fully Charged Accumulator (mobile column): One day (10 surgeries per day).
        4. Charging Time: 3 hours.
        5. Operating Mode: Continuous operation with intermittent loading (2 min on, 8 min off).
        6. Class of Protection: Class I, device with internal power supply, I.P.S.
        7. Power Consumption: 700 VA maximum.
        8. Level of Protection Against Electrical Shock: type B application part; patient leakage current against electrical shock according to CF as per EN 60601-1/
        9. Level of Protection Against Water Penetration: IP X4.
        10. Heat Emission: 540kJ/h maximum.
      1. Controls Interface:
         1. Connector Socket for the Control Units: Both sides of column head.
         2. Power Supply Socket: Mobile operating table column only.
         3. Service Connector: Column head (USB, Ethernet).
         4. Ethernet: Column head.
      2. Operation:
         1. Controls:

Cable: 27 functions in addition to zero position and "OFF."

Wireless: 27 functions in addition to zero position and "OFF."

Column Control: 19 functions in addition to zero position and "OFF."

Foot Control: three functions (combinations of height, tilt, angle, leg section, back section are possible).

* + - * 1. Main Menu Remote Display: Status bar, table position, and submenu, and position.

Submenu Functions: Flex, reflex, operation, speed, patient direction, service.

\*\* NOTE TO SPECIFIER \*\* The SensorLine controls options adds additional functionality to the TruSystem 7500 series OR tables.

* + - 1. SensorLine: Optional Controls Package:
         1. Fully Customizable: Flexible choice of features to meet specific needs.

Basic package.

Full version.

* + - * 1. Collision Monitoring: Integrated collision avoidance and recognition.

Increased patient safety during surgery.

* + - * 1. Overload Protection: Issues automatic warning of overload situations.

Load capacity Exceeded.

Load not properly distributed on the column.

* + - * 1. Isocentric Tilting for Carbon FloatLine tabletop: In combination with conventional C-arms and C-arms in Hybrid models.
        2. Faster Adjustment Time: Customizable adjustment speeds, e.g. the emergency Trendelenburg position.
        3. Extended Adjustment Areas: The combination of 25 degrees tilting with simultaneous 30 degrees Trendelenburg position optimizes laparoscopic surgery.
        4. Beach Chair Transfer: You can adapt patient transfer individually to the patient via the beach chair position.
        5. Keylock of Tabletop Functions Available.
    1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; TruSystem 7500 Hybrid OR Table.
       1. Column Models:
          1. MC: Mobile.
          2. SC: Stationary.
          3. FC: Floor mounted.
       2. Tabletop Models:
          1. Carbon Tabletops:

Carbon Floatline tabletop.

Carbon X-TRA 7500.

Carbon X-TRA 7500 short.

SQ14 X-TRA.

* + - 1. Standards Compliance:
         1. EC 60601-1/EN 60601-1.
         2. EC 60601-1-2/EN 60601-1-2.
         3. EC 60601-2-46/EN 60601-2-46.
         4. 93/42/EEC Appendix IX.
         5. MDD Appendix I.
         6. MDD Appendix VII.
      2. Performance Requirements: Surgical applications.
         1. General Surgery.
         2. Bariatric Surgery:

Patient weight capacity, supine position, up to 882 lbs. (400 kg).

Gastric banding procedures: Ergonomic access to surgical area via 5-degree adjustment in the Trendelenburg position. Optimum trend/tilt ratio.

* + - * 1. Thoracic Surgery.
        2. Spinal Surgery.
        3. Gynecology Surgery.
        4. Urology Surgery.
        5. Trauma Surgery.
        6. Orthopedic Surgery.
        7. Neurosurgery.
        8. Hybrid Applications:

CT Equipment.

MRI Equipment.

Fixed Angiography Systems.

Special Carbon fiber components and accessories for imaging in cardiovascular, neuro, spinal, trauma and orthopedic procedures.

* + - 1. Technical Requirements: General.
         1. Maximum Load:

Column: 880 lbs. (400 kg) (column only).

\*\*NOTE TO SPECIFIER\*\* For tabletop Carbon Floatline tabletop. Delete if not required.

Tabletop: 496 lbs. (225 kg).

\*\*NOTE TO SPECIFIER\*\* For tabletops Carbon X-TRA 7500, Carbon X-TRA 7500 short, and SQ14-X-TRA. Delete if not required.

Tabletop: 397 lbs. (180 kg).

* + - 1. Technical Requirements: Columns.
         1. Column Height Adjustment: Without tabletop.

Stationary: 19.3 in - 40.9 in (490 mm - 1,040 mm).

Floor Mounted: 20.5 in - 42.1 in (520 mm - 1,070 mm).

Mobile: 20.1 in - 41.7 in (510 mm - 1,060 mm).

* + - * 1. Lift: 21.7 in (550 mm).

15.75 inches (400 mm) at 1.06 inches per second (27 mm per second).

5.91 inches (150 mm) at0.17 inches per second (4.27 mm per second).

* + - * 1. Trendelenburg: 45 degrees.
        2. Reverse Trendelenburg: 45 degrees.
        3. Tilt: Plus or minus 30 degrees.
        4. Rotation, Stationary Column: 350 degrees.
      1. Technical Requirements: Tabletops.
         1. Length:

\*\*NOTE TO SPECIFIER\*\* Carbon Floatline tabletop(tm). Delete if not required.

87.8 in (2229 mm).

\*\*NOTE TO SPECIFIER\*\* Carbon Floatline tabletop(tm). Delete if not required.

* + - * 1. Width Across Standard Side Rails: 20.5 in (520 mm).
        2. Longitudinal Slide:

\*\*NOTE TO SPECIFIER\*\* Tabletop model Carbon FloatLine tabletop(tm) stationary and floor mounted columns.

31.4 in (800 mm).

\*\*NOTE TO SPECIFIER\*\* Tabletop model Carbon FloatLine tabletop(tm) mobile columns. Delete if not required.

25.6 in (650 mm).

\*\*NOTE TO SPECIFIER\*\* Tabletop model Carbon X-TRA 7500 and X-TRA 7500 short. Delete if not required.

17.9 in (455 mm).

\*\*NOTE TO SPECIFIER\*\* Tabletop model SQ14 X-TRA. Delete if not required.

13.8 in (350 mm).

\*\*NOTE TO SPECIFIER\*\* Tabletop model Carbon Floatline tabletop(tm). Delete if not required.

* + - * 1. Transversal Slide: plus or minus 4.9 in (125 mm).

\*\*NOTE TO SPECIFIER\*\* Tabletop model Carbon X-TRA 7500 and X-TRA 7500 short. Delete if not required.

* + - * 1. Transversal Slide: plus or minus 3.35 in (85 mm).

\*\*NOTE TO SPECIFIER\*\* Tabletop model SQ14 X-TRA. Delete if not required.

* + - * 1. Transversal Slide: plus or minus 3.45 in (88 mm).

\*\*NOTE TO SPECIFIER\*\* Tabletop model number SQ14 X-TRA. Delete if not required.

* + - * 1. Adjustment Range of Leg Section Joints:

Plus 90 and minus 90 degrees.

\*\*NOTE TO SPECIFIER\*\* Tabletop model number SQ14 X-TRA. Delete if not required.

* + - * 1. Adjustment of Lower Back Section Joints:

Plus 90 degrees too minus 55 degrees from level position.

* + - 1. Electrical Parameters:

\*\* NOTE TO SPECIFIER \*\* Delete one of the two subparagraphs not required.

* + - * 1. External Power Supply: 100-230 Vac, 50/60 Hz.
        2. External Power Supply: 240 Vac, 50 Hz.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two subparagraphs not required.

* + - * 1. Internal Power Supply: Two Lithium Ion Battery 40.7 V each 4.7 Ah.
        2. Internal Power Supply: One Lithium Ion Battery 40.7 V each 4.7 Ah.
        3. Operating Time with Fully Charged Accumulator (mobile column): One day (10 surgeries per day).
        4. Charging Time: 3 hours.
        5. Operating Mode: Continuous operation with intermittent loading (2 min on, 8 min off).
        6. Class of Protection: Class I, device with internal power supply, I.P.S.
        7. Power Consumption: 700 VA maximum.
        8. Level of Protection Against Electrical Shock: type B application part; patient leakage current against electrical shock according to CF as per EN 60601-1/
        9. Level of Protection Against Water Penetration: IP X4.
        10. Heat Emission: 540kJ/h maximum.
      1. Controls Interface:
         1. Connector Socket for the Control Units: Both sides of column head.
         2. Power Supply Socket: Mobile operating table column only.
         3. Service Connector: Column head (USB, Ethernet).
         4. Ethernet: Column head.
      2. Operation:
         1. Controls:

Cable: 27 functions in addition to zero position and "OFF."

Wireless: 27 functions in addition to zero position and "OFF."

Column Control: 19 functions in addition to zero position and "OFF."

Foot Control: three functions (combinations of height, tilt, angle, leg section, back section are possible).

* + - * 1. Main Menu Remote Display: Status bar, table position, and submenu, and position.

Submenu Functions: Flex, reflex, operation, speed, patient direction, service.

\*\* NOTE TO SPECIFIER \*\* The Sensorline controls options adds additional functionality to the TruSystem 7500 series OR tables.

* + - 1. SensorLine: Optional Controls Package:
         1. Fully Customizable: Flexible choice of features to meet specific needs.

Basic package.

Full version.

* + - * 1. Collision Monitoring: Integrated collision avoidance and recognition.

Increased patient safety during surgery.

* + - * 1. Overload Protection: Issues automatic warning of overload situations.

Load capacity Exceeded.

Load not properly distributed on the column.

* + - * 1. Isocentric Tilting for Carbon FloatLine tabletop: In combination with conventional C-arms and C-arms in Hybrid models.
        2. Faster Adjustment Time: Customizable adjustment speeds, e.g. the emergency Trendelenburg position.
        3. Extended Adjustment Areas: The combination of 25 degrees tilting with simultaneous 30 degrees Trendelenburg position optimizes laparoscopic surgery.
        4. Beach Chair Transfer: You can adapt patient transfer individually to the patient via the beach chair position.
        5. Keylock of Tabletop Functions Available.

\*\* NOTE TO SPECIFIER \*\* The Power Shuttle is for patient transportation and used to move the tabletop to and from the OR table column. Compatible with all Trumpf Medical OR table systems, TruSystem 7500, 5500, JUPITER and SATURN systems.

* + 1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; Power Shuttle:
       1. Motorized and battery operated.
       2. Maximum Load: 794 lbs. (360 kg).
       3. Dimensions (L x W): 61.4 x 30.0 in (1,560 x 762 mm).
       4. Height Adjustment: 22.0 to 30.3 in (559 to 770 mm).
       5. Lift: 8.2 in (210 mm).
       6. Diameter of the Wheels: 5.9 in (150 mm).
       7. Steering Handles: ergonomic design.
          1. Stepless acceleration controls.
          2. Emergency brake.
    2. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; TruSystem 7000 Series OR Table.
       1. TruSystem Table Models:
          1. 7000: Standard.
          2. 7000 (MBW): With motorized base and wireless interface.
       2. Standards Compliance:
          1. EC 60601-1/EN 60601-1.
          2. EC 60601-1-2/EN 60601-1-2.
          3. EC 60601-2-46/EN 60601-2-46.
          4. 93/42/EEC Appendix IX.
          5. MDD Appendix I.
          6. MDD Appendix VII.
       3. Performance Requirements: Surgical applications.
          1. Gynecology/urology:

Lithotomy position.

Patient preparation and recovery.

* + - * 1. General Surgery:

Renal positioning.

* + - * 1. Neurosurgery:

Craniotomy in supine position.

360-degree radiolucent skull clamp.

* + - * 1. Ophthalmology and ENT Applications: Headrest system.
        2. Collision Monitoring: Integrated collision avoidance with the floor and OR table.
        3. Overload Protection: Automatic warning of overload situation.
        4. Optimum Access:

Longitudinal adjustment of up to 18.11 inches plus or minus 0.39 inches (460 mm plus or minus 10 mm).

Radiolucence up to 5 ft. (1.53 m).

Continuous x-ray channel.

* + - * 1. Simple Coupling Point System: The new hook coupling point for rapid replacement of components with an automatic locking system.
        2. Lightweight construction.
        3. Built-in carrying handles on larger components.
        4. Table articulation feedback upon every adjustment.
        5. Operating Conditions:

Temperature Range:

Operating: 50 to 104 degrees F (10 to 40 degrees C).

Storage: minus 4 to 158 degrees F (minus 20 to 70 degrees C).

Air Humidity:

Operating: 20 to 80 percent.

Storage and Transport: 5 to 95 percent.

Air Pressure: 700 to 1.06 mbar.

* + - 1. Technical Requirements:
         1. Maximum Load: 1000 lbs. (453.6 kg).
         2. Height Adjustment: 23.0 to 45.0 in plus or minus 0.2 in (584 to 1143 mm plus or minus 5 mm)
         3. Trendelenburg and Reverse Trendelenburg: Plus 45 degrees / Minus 45 degrees
         4. Tilt: Plus 30 degrees / Minus 30 degrees
         5. Zero Positioning: Simultaneous leveling of all sections.
         6. Longitudinal Slide: 18 in plus or minus 0.39 in (460 mm plus or minus 10 mm).

Head End: 7.0 inches (175 mm).

Foot End: 11.0 inches (282 mm):

* + - * 1. Adjustment Range of Leg Section Joints: Plus 90 degrees to Minus 105 degrees from level.
        2. Adjustment of Lower Back Section Joints: Plus 90 degrees to Minus 45 degrees from level.
        3. Adjustment Range Single Joint Head Section: Minus 45 degrees from level.
        4. Net Weight: 661 lbs. (300 kg).
        5. Dimensions of Overall Tabletop with Side Rails (L x W): 79.3 x 23.6 in (2,015 x 600 mm).
        6. Dimensions: Tabletop segments (L x W):

Tabletop: 46.1 x 23.6 inches (1,170 x 600 mm).

Head Rest: 12.6 x 23.6 inches (320 x 600 mm).

Leg Section Part One: 20.7 x 23.6 inches (525 x 600 mm).

Leg Section Two-Part Spread Point: 9.1 x 23.6 inches (740 x 600 mm).

Leg Section One-Part Light: 34.8 x 23.6 inch (885 x 600 mm).

Tabletop Segment Carbon 600: 27.1 x 23.6 inches (690 x 600 mm).

Tabletop Segment Carbon 1200: 48.0 x 21.8 inches (1220 x 545 mm).

Pelvic Extension: 12.0 x 23.6 inches (306 x 600 mm).

Upper Back Section: 12.0 x 23.6 inches (306 x 600 mm).

* + - * 1. Dimensions of Base (L x W x H): 43.9 x 22.7 x 6.45 inches (1,115 x 557 x 165 mm).
        2. Wheels: Four, swivel, electro-conductive; 4 inches (102 mm) diameter.
        3. Brakes: Floor looks, self-leveling.
        4. Motorized, Speed Adjustable Fifth Wheel: Optional.
      1. Electrical Parameters:

\*\* NOTE TO SPECIFIER \*\* Delete one of the two subparagraphs not required.

* + - * 1. External Power Supply: 100-230 Vac, 50/60 Hz.
        2. External Power Supply: 240 Vac, 50 Hz.
        3. Power Supply Fuse: 10 At (H).
        4. Internal Power Supply: Two Lithium Ion Battery 40.7 V each 4.7 Ah.
        5. Charging Time: 3 hours.
        6. Battery Life After Charging: Continuous use for 2 hours.
        7. Operating Mode: Continuous operation with intermittent loading (2 min on, 8 min off).
        8. Class of Protection: Class I, device with internal power supply, I.P.S.
        9. Power Consumption: 700 VA maximum.
        10. Level of Protection Against Electrical Shock: type B application part.
        11. Level of Protection Against Water Penetration: IP X4.
        12. Heat Emission: 540 kJ per hour maximum.
      1. Control Interface:
         1. Connector Socket for the Control Units: Head and foot side; column head.
         2. Power Supply Socket: Head side.
         3. Service Connector: Column head; USB and Ethernet.
         4. Additional Control Units: Foot pedal.
    1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; TruSystem 7000dV Series OR Table. Patient Positioning for da Vinci Surgery
       1. Dynamically positions patients while surgeons operate allowing surgical team to efficiently manage patient and utilize gravity for optimal exposure and access to the target anatomy.
       2. Standards Compliance:
          1. EC 60601-1/EN 60601-1.
          2. EC 60601-1-2/EN 60601-1-2.
          3. EC 60601-2-46/EN 60601-2-46.
          4. 93/42/EEC Appendix IX.
          5. MDD Appendix I.
          6. MDD Appendix VII.
       3. Performance Requirements:
          1. Operating Conditions:

Temperature Range:

Operating: 50 to 104 degrees F (10 to 40 degrees C).

Storage: minus 4 to 158 degrees F (minus 20 to 70 degrees C).

Air Humidity:

Operating: 20 to 80 percent.

Storage and Transport: 5 to 95 percent.

Air Pressure: 700 to 1060 mbar.

* + - 1. Features:
         1. Double joint head section.
         2. Two part leg section; spreadable.
         3. dV Cable remote control.
         4. dV Connection cable.
         5. Universal arm supports.
         6. Patient restraint strap.
         7. Wireless connectivity.
         8. Remote control.
      2. Technical Requirements:
         1. Patient Weight: 1,000 lbs (450 kg).
         2. Side Rail Loading:

Longitudinal Axis: 73.75 ft-lbs (100 Nm).

Transverse Axis: 110.63 ft-lbs (150 Nm).

* + - * 1. Height Adjustment: 23 to 45 inch; plus or minus 0.4 inches (584 to 1143 mm; plus or minus 10 mm).
        2. Lift: 22 inches (559 mm); plus or minus 0.4 inches (10 mm).

Adjustment Speed: 20 mm per sec.

* + - * 1. Trendelenburg: Plus or minus 45 degrees.
        2. Tilt: Plus or minus 30 degrees. Inclination about the longitudinal axis.
        3. Longitudinal Slide: 18 inches (457 mm); plus or minus 0.4 inches (plus or minus 10 mm).
        4. Longitudinal Travel: 18 inches (457 mm); plus or minus 0.4 inches (plus or minus 10 mm).

Head End: 7.09 inch (180 mm); plus or minus 0.4 inches (plus or minus 10 mm).

Foot End: 11.02 inch (280 mm); plus or minus 0.4 inches (plus or minus 10 mm).

Adjustment Speed: 6.5 ft per min (30 mm per sec).

* + - * 1. Leg Section Joints Adjustment: Plus 90 to minus 105 degrees.
        2. Lower Back Section Joints Adjustment: Plus 90 to minus 45 degrees.
        3. Dimensions:

Tabletop Length: 49.13 inch (1248 mm).

Tabletop Width: 26-5/8 inch (600 mm).

Pad (LxWxH): 45 x 21.5 x 3.5 inch (1143 x 545 x 90 mm).

* + - 1. Electrical Parameters:
         1. Internal Power Supply: IPA, 2 rechargeable batteries, 40.7 V/4.8 Ah.
         2. External Power Supply: 100 V 50 to 60 Hz, 200 V 50 to 60 Hz, 240 V to 50Hz.
         3. Power Consumption: 700 VA max.
         4. Power Plug: Typical for the country, 118 inches(3 m) connection cable.
         5. Radio Transmission, Operating Table:

Transmission Frequency Band: 2.405 GHz to 2.480 GHz.

Modulation Type: O-QPSK; Offest Quadrature Phase Shift Keying.

HF Bandwidth: 2 Mhz; IEEE 802.15.4.

Output Power (Watt EIRP): 0.000603.

Emission Designation: 1M67G1D.

* + 1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; PST 500 Surgical Tables.
       1. Standards Compliance:
          1. Safety Class: Class I medical device with internal power supply, IPS.
          2. Level of Protection Against Electrical Shock: Applied part type B; Patient leakage current according to CF pursuant to IEC 60601-1.
          3. Level of Protection Against Water Penetration: IPX 4.
          4. Mode of Operation: Continuous running with intermittent loading (DBAB); 2 min ON, 8 min OFF.
       2. Conditions for Operation
          1. Operation Temperature Range: 50 F to 104 degrees F (10 to 40 degrees C).
          2. Temperature for storage and transport: Minus 4 to 140 degrees F (Minus 20 to 60 degrees C).
          3. Air humidity for operations: 20 to 80 percent.
          4. Air humidity for storage and transport: 10 to 95 percent.
          5. Atmospheric pressure: 540 to 1060 mbar (54 to 106 kPa).
       3. Physical Parameters:
          1. Tabletop Length; PST 500 ROW: 42.1 inches (1069 mm).
          2. Tabletop Length; PST 500 US: 46.5 inches (1181 mm).
          3. Tabletop Width (with standard rails): 23.6 inches (600 mm).
          4. Tabletop Height(without pad): 23.5 to 45.2 inches (597 to 1148 mm), plus or minus 0.2 inches (5 mm).
          5. Table Column: (L x W): 12.7 x 12.7 inches (323 x 323 mm).
          6. Table Base (L x W x H): 44.65 x 22.6 x 6.3 inches (1134 x 574 x 160 mm) plus or minus 0.2 inches (5 mm). Height from floor to top of table base.
          7. Pad Dimensions:

PST 500 ROW: 38 x 21.5 x 3.5 inches (965 x 546 x 89 mm).

PST 5500 US: 42 x 21.5 x 3.5 inches (1066 x 546 x 89 mm).

* + - * 1. Weight: 551.2 lbs (250 kg).
        2. Maximum load: 1000 lbs (454 kg).
        3. Standard siderail load capacity:

Longitudinal and Transverse Axis: 73.75 ft-lbs(100 Nm).

* + - * 1. Depending on the operating table equipment and the patient's weight.
        2. Brake: Floor locks - self leveling system.
        3. Wheels: 4 rotatable, electoral conductive wheels.

Wheel diameter: 3-15/16 inches (100 mm).

* + - * 1. Foot Clearance: 3.5 inch (89 mm) height.
        2. Point Load; Wheels: 535.7 lbs (2383 N).
        3. Point load; Stamps: 402 lbs (1788 N).
        4. Surface pressure per wheel: 1338 lbf per sq inch (9.5 N per sq mm).
        5. Surface pressure per stamp: 522 lbf per sq inch (3.6 N per sq mm).
        6. Cleaning Agent: Incidin Plus, or Manufacturer approved equivalent.
      1. Dimensions: Tabletop segments (LxW).
      2. Electrical Parameters:
         1. External Power Supply: 100 V - 240 V at 50 / 60 Hz.
         2. Main Power Plug: IEC connection (C14 Plug).
         3. Length of Main Power Cable: 16.4 ft (5 m).
         4. Internal Power Supply: 3 rechargeable batteries 12 V / 12 Ah.
         5. Charging Time: 5 hours.
         6. Battery Duration After Charging: 5 working days with 8 hours per day.
         7. Power Consumption: Max. 600 VA.
         8. Heat Emission: ca. 100 kJ/h.
      3. Control Interface:
         1. Wired Remote Control:

Remote control PST 500 U: 2070307.

Remote control PST 500 D U: 2072218.

* + - * 1. Foot switch PST 500: 2072450.
        2. Socket for wired remote control and foot switch: Head and foot direction of column head.
        3. Wireless remote control: 2070308. Remote control PST 500 W U.
        4. Receiver for wireless remote control: Infrared.
        5. Power supply socket: Head direction of table base.
      1. Adjustment Ranges:
         1. Lift: 23.5 to 45.2 inches, (599 to 1148 mm), plus or minus 0.2 inches (0.5 mm). Speed: 0.8 inches (20 mm) per sec.
         2. Trendelenburg / Reverse Trendelenburg: Plus or minus 32 degrees, within plus or minus 2 degrees. Speed: 1.7 degrees per sec.
         3. Tilt: Plus or minus 25 degrees, within plus or minus 2 degrees. Speed: 1.5 degrees per sec.
         4. Trend / Tilt Ratio: 30 / 25 degrees, within plus or minus 2 degrees.
         5. Longitudinal Slide: Speed: 1.02 inches per sec (26 mm per sec).

Overall: 15.75 inches (400 mm), plus or minus 0.2 inches (5 mm).

Head End: 7.9 inches (200 mm).

Foot End: 7.9 inches (200 mm).

* + - * 1. Joint Back Section: Angles relative to seat section. Plus 90 to minus degrees. Speed: 4.5 degrees per sec.
        2. Joint Leg Section: Angles relative to seat section. Plus 90 to minus 105 degrees. Speed: 4.5 degrees per sec.
        3. Zero Position: Simultaneous leveling of all sections.
      1. Sounds:
         1. Ascending Tone Sequence: Operating table is switched on.
         2. Descending Tone Sequence: Operating table is switched off.
         3. Single Tone:

Parking brake on operating table is being released.

Parking brake on operating table is being activated.

End position of function in question has been reached.

Level position of function in question has been reached.

A blocked key has been pressed.

* + - * 1. Double tone:

End position of level position function has been reached.

End position of a saved position has been reached

Key has been released.

* + - * 1. Two Pulsing Tone Sequences Intermittently Repeating: At intervals of several minutes.

Batteries need to be charged.

* + - * 1. Three Pulsing Tone Sequences Intermittently Repeating: At intervals of several minutes.

Batteries are empty. Table will soon automatically switch off.

* + - * 1. Shrill Triple Tone: Error has occurred.
        2. Shrill Single Tone: During movement, the warning tone sounds repeatedly at intervals of one second.

The left and right leg are traveling towards each other.

Emergency mode is being activated.

Movement is taking place in table's emergency mode.

Movement is taking place during an error state.

* + - 1. Radiolucent Areas:
         1. Foot End:

Leg Section one-part light with Pelvic Extension: 62.2 inches (1580 mm).

Leg Section two-parts spreadable with Pelvic Extension: 55 inches (1397 mm).

Leg Section four-parts with Pelvic Extension: 58.1 inches (1476 mm).

Leg Section one-part with Pelvic Extension: 45.7 inches (1161 mm).

Leg Section one-part: 37.8 inches (961 mm).

Universal Section: 39.5 inches (1004 mm).

Pelvic Extension: 24.6 inches (624 mm).

Tabletop segment carbon 1200: 61.5 inches (1561 mm).

Tabletop segment carbon 600: 36.6 inches (929 mm).

* + - * 1. Head End:

Head section: 41.8 inches (1062 mm).

* + - 1. LED Light Messaging System: The LED strips on the running gear.
         1. Flash Green:

Meaning: Parking brake on table has been activated and jack props on wheels are extended. After completing function, LED strip lights up green for a further 3 seconds, then goes out.

Action: No action required.

* + - * 1. Flash Yellow:

Meaning: Parking brake on table has been released and jack props on wheels are retracted. After completing the function, LED strip lights up yellow for a further 3 seconds, then goes out.

Action: No action required.

* + - * 1. Flash Red and Sound 6 Heard:

Meaning: Batteries are empty, and table will soon switch off automatically. Electrical functions are severely limited.

Action: Connect table to external power supply to charge batteries.

* + - * 1. Light Up Red for 3 Seconds and Sound 7 is Heard:

Meaning: Error has occurred. Table can only be used to a limited degree.

Action: Notify technical costumer service.

* + - * 1. Flash Yellow 3 Time and Sound 7 is Heard:

Meaning: Table is not braked and any function key has been pressed.

Action: Some of the table's functions are blocked when table is not braked. First enable parking brake on table, then press the function key. Table must only be used for surgical interventions when it is braked.

* + - * 1. Light Up Solid White:

Meaning: the floor lighting is switched on.

Action: No action required. Turn floor lighting off when not required.

* + - 1. Compatible Components and Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete accessories not required.

* + - * 1. PST 500 U: 4080300.
        2. Pad PST 500 H B U: 2072451.
        3. Remote Control PST 500 U: 2070307.
        4. Remote Control PST 500 W U: 2070308.
        5. Remote Control PST 500 D U: 2072218.
        6. Charging unit mobile AC TS7500: 1557243.
        7. Access Line C7 for charging unit: 1836117.
        8. Footswitch PST 500: 2072450.
        9. Head section double joint H U V: 1853828.

LxWxH: 15.3 x 24.6 x 3.7 inches (389 x 625 x 95 mm).

Weight: 15.4 lb (7 kg).

* + - * 1. Head section single joint H U V: 1769761.

LxWxH: 15.1 x 24.6 x 3.6 inches (385 x 625 x 92 mm).

Weight: 11.0 lb (5 kg).

* + - * 1. Pad head section H B: 1764878.

LxWxH: 12.8 x 21.4 x 3.5 inches (325 x 545 x 90 mm).

* + - * 1. Adapter for head positioning: 1739994.

LxWxH: 5.1 x 24.4 x 6.3 inches (130 x 620 x 160 mm).

Weight: 6.6 lb (3 kg).

* + - * 1. Upper back section H V U: 1909813.

LxWxH: 12.0 x 23.6 x 3.9 inches (306 x 601 x 100 mm).

Weight: 11.0 lb (5 kg).

* + - * 1. Pad for upper back section H B: 1909831.

LxWxH: 7.28 x 21.46 x 3.54 inches (185 x 545 x 90 mm)

* + - * 1. Pelvic extension H V U: 1909820.

LxWxH: 12.0 x 23.6 x 3.9 inches (306 x 601 x 100 mm)

Weight: 11.0 lb (5 kg).

* + - * 1. Pad pelvic extension H B U: 1909819.

LxWxH: 9.2 x 21.4 x 3.5 inches (235 x 545 x 89 mm).

* + - * 1. Leg section one-part H U V: 1739969.

LxWxH: 24.2 x 23.6 x 3.5 inches (615 x 600 x 89 cm)

Weight: 13.2 lb (6 kg).

* + - * 1. Pad Leg Section One Part:

LxWxH: 20.5 x 21.4 x 3.5 inches (522 x 545 x 89 mm)

* + - * 1. Leg Section One Part Light:

LxWxH: 40.1 x 22.0 x 3.3 inches (1019 x 559 x 84 mm)

Weight: 13.2 lb (6 kg).

* + - * 1. Pad Leg Section One Part Light:

LxWxH: 34.8 x 21.4 x 3.5 inches (884 x 544 x 89 mm)

* + - * 1. Leg section four parts H U V: 1853829.

Swivel Section:

LxWxH: 15.9 x 11.0 x 6.3 inches (404 x 279 x 160 mm).

Weight: 21.1 lb (5.5 kg).

Lower Leg Segment:

LxWxH: 18.4 x 11.0 x 3.5 inches (468 x 280 x 89 mm).

Weight: 7.7 lb (3.5 kg).

* + - * 1. Pad Leg Section Four Parts:

Swivel Section:

LxWxH: 11.8 x 10.1 x 3.5 inches (300 x 258 x 89 mm).

Lower Leg Segment:

LxWxH: 16.8 x 10.1 x 3.5 inches (428 x 258 x 89 mm).

* + - * 1. Universal section H V U: 2072445.

LxWxH: 20.7 x 23.6 x 3.5 inches (525 x 600 x 89 mm).

Weight: 17.6 lb (8 kg).

* + - * 1. Pad universal section H B: 2072448.

LxWxH: 19.9 x 21.4 x 3.5 inches (505 x 545 x 89 cm)

* + - * 1. Leg section two parts spreadable H U V: 1739991.

LxW: 32.2 x 11.5 inches (818 x 292 mm).

Weight: 13.0 lb (5.9 kg) per side.

* + - * 1. Pad leg section two parts H B: 1809671.

LxWxH: 29.0 x 9.9 x 35.7 inches (737 x 251 x 907 mm) per side.

* + - * 1. Tabletop segment Carbon 1200 H V: 1850989.

LxWxH: 51.1 x 24.4 x 3.5 inches (1298 x 620 x 89 mm).

Weight: 20.2 lb (9.2 kg).

* + - * 1. Pad TTS Carbon one-part B: 1873466.

LxWxH: 47.9 x 21.4 x 3.5 inches (1217 x 544 x 89 mm).

* + - * 1. Tabletop segment Carbon 600 H V: 1739992.

LxWxH: 27.1 x 24.4 x 3.5 inches (688 x 620 x 89 mm).

Weight: 17.8 lb (8.1 kg).

* + - * 1. Pad TTS Carbon 600 H B: 1770133.

LxWxH: 23.2 x 21.4 x 3.5 inches (589 x 545 x 89 mm).

* + - * 1. Shoulder Chair H: 2009875.

LxWxH: 38 x 26 x 9 inches (965 x 660 x 229 mm) plus or minus 0.5 inches (13 mm).

Weight: 25 lb (11.3 kg) plus or minus 0.5 lb (0.2 kg).

* + - * 1. Shoulder Chair H with connection holder: 2065800.
        2. X-Ray Top Set PST 500 U: 2072443.
        3. Pad PST 500 H B U: 2072451.
        4. Pad two-part tabletop H B: 1909814.
        5. Pad seat section H B: 2072452
        6. Pad back section H B: 2072453.
        7. Docking Trolley Extension Unit: 1867129.
        8. Extension Adapter TS7000: 1850992.
        9. Universal Support: 1876707.
        10. Supporting pad hip B: 1880218.
        11. Supporting pad universal B: 1880217.
        12. Angle pad TS7000 B: 886332
        13. Counter traction post 150: 1612706.
        14. Transfer leg section: 1876708.

LxWxH: 34.8 x 21.3 x 2.6 (886 x 542 x 68 mm).

Weight: 12.7 lb (5.8 kg).

* + - * 1. Pad transfer leg section B: 1880219.

LxWxH: 30.5 x 19.6 x 3.5 (775 x 500 x 89 mm).

* + - * 1. Double joint strut, pair: 1574734.
        2. Extension strut medium: 1597668.
        3. Extension strut long: 1597669.
        4. Adapter spindle traction mechanism: 1593159.
        5. Spindle traction mechanism FR: 1881967.
        6. Traction boot: 1574733.
        7. Traction boot children: 1610541.
        8. Docking trolley MIS hip device: 1867128.
        9. MIS-Hip-Aggregate: 1574732.
        10. Extension joint strut X-RAY, pair: 1574735.
        11. Adapter extension strut X-RAY: 1593158.
        12. Counter traction post X-RAY: 1574731.
    1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; PST 300+ Surgical Table.
       1. PST300+ Table Models:

\*\* NOTE TO SPECIFIER \*\* Delete model option not required.

* + - * 1. PST 300L+ longer back section, 47.4 inch (1204 mm) tabletop length.
        2. PST 300S+ shorter back section, 40.9 inch (1038 mm) tabletop length.
      1. Standards Compliance:
         1. Safety Class: Class I medical device with internal power supply, IPS.
         2. Level of Protection Against Electrical Shock: Applied part type B; Patient leakage current according to CF pursuant to IEC 60601-1.
         3. Level of Protection Against Water Penetration: IPX 4.
         4. Mode of Operation: Continuous running with intermittent loading (DBAB); 2 min ON, 8 min OFF.
      2. Conditions for Operation, Storage, Transport:
         1. Temperature Range for Operation: 50 to 104 degrees F (10 to 40 degrees C).
         2. Temperature Range for Storage and Transport: Minus 4 to 140 degrees F (Minus 20 to 60 degrees C).
         3. Air Humidity for Operation: 20 to 80 percent.
         4. Air Humidity for Storage and Transport: 5 to 95 percent.
         5. Atmospheric Pressure: 7.25 to 13.37 psi (50 to 106 kPa).
      3. Electrical Parameters:
         1. External Power Supply: 120 VAC, 50 Hz/60 Hz.
         2. Main Power Plug: Ground plug with dual grounding system.
         3. Length of the Main Power Cable: 16.4 ft (5 m).
         4. Internal Power Supply: IPS, 2 rechargeable batteries, 12 V/14 Ah.
         5. Charging Time: Less than 10 hours.
         6. Battery Duration After Charging: Up to 5 working days.
         7. Power Consumption: Max. 300 VA.
         8. Heat Emission: max. 540 kJ/h.
      4. Physical Parameters: PST300L+.
         1. Tabletop Length: 47.4 inches (1204 mm).
         2. Tabletop Width with Standard Siderails: 24.05 inches (611 mm).
         3. Tabletop Width without Standard Siderails: 21.7 inches (550 mm).
         4. Tabletop Height without Pad: 25.9 to 40.6 inches (660 to 1030 mm).
         5. Table Column (LxW): 11.8 x 14.2 inches (300 x 360 mm).
         6. Table Base (LxWxH): 43.7 x 23.2 x 7.8 inches (1110 x 590 x 197 mm).
         7. Pad Dimensions: 43.1 x 21.5 x 3.5 inches (1094 x 545 x 90 mm).
         8. Weight: 539 lbs (245 kg).
         9. Maximum Load: 1000 lbs (454 kg).
         10. Standard Siderail Load Capacity both Longitudinal Axis and Transverse Axis: 73.75 ft-lbs (100 Nm).
         11. Brake: Electro-Motor Driven Floor Lock with Manual Emergency Release.
         12. Wheels: 4 swivel, dual castor, conductive wheels.
         13. Wheel Diameter: 3.9 inches (100 mm).
         14. Foot Clearance; Floor to Bottom of Table Base: 4.5 inches (115 mm).
         15. Point Load, Wheels: 540 lbs (2400 N).
         16. Point Load Stamps: 405 lbs (1800 N).
         17. Surface Pressure per Wheel: 580 psi with 1000 lbs (4 N per sq mm with 454 kg) maximum load).
         18. Surface Pressure per Stamp: 290 lbs with 1000 lbd (2 N per sq mm with 454 kg) maximum load.
         19. Cleaning: PH neutral or mildly alkaline cleaner.
      5. Physical Parameters: PST300S+.
         1. Tabletop Length: 40.9 inches (1038 mm).
         2. Tabletop Width (with standard siderails): 24.05 inches (611 mm).
         3. Tabletop Width (without standard siderails): 21.7 inches (550 mm).
         4. Tabletop Height (without pad): 25.9 to 40.6 inches (660 to 1030 mm).
         5. Table Column (LxW): 11.8 x 14.2 inches (300 x 360 mm).
         6. Table Base (LxWxH): 43.7 x 23.2 x 7.8 inches (1110 x 590 x 197 mm).
         7. Pad Dimensions: 36.5 x 21.5 x 3.5 inches (928 x 545 x 90 mm).
         8. Weight: 528 lbs (240 kg).
         9. Maximum Load: 1000 lbs (454 kg).
         10. Standard Siderail Load Capacity (both longitudinal axis and transverse axis): 73.75 ft-lbs (100 Nm).
         11. Brake: Electro-Motor Driven Floor Lock with Manual Emergency Release.
         12. Wheels: 4 swivel, dual castor, conductive wheels.
         13. Wheel Diameter: 3.9 inches (100 mm).
         14. Foot Clearance; Floor to Bottom of Table Base: 4.5 inches (115 mm).
         15. Point Load (wheels): 540 lbs (2400 N).
         16. Point Load (stamps): 405 lbs (1800 N).
         17. Surface Pressure per Wheel: 580 psi with 1000 lbs (4 N per sq mm with 454 kg) maximum load.
         18. Surface Pressure per Stamp: 290 psi with 1000 lbs (2 N per sq mm with 454 kg) maximum load.
         19. Cleaning: PH neutral or mildly alkaline cleaner.
      6. Control Interface:
         1. Wired Remote Control: 2080131.

\*\* NOTE TO SPECIFIER \*\* Delete foot switch option not required.

* + - * 1. Foot Switch Pedal: Foot switch HKN: 1258883.
        2. Foot Switch Pedal: Foot switch HBN: 1258884.
        3. Foot Switch Pedal: Foot switch HRN: 1258885.
        4. Foot Switch Pedal: Foot switch HLN: 1258887.
        5. Foot Switch Pedal: Foot switch LBR: 1258888.
        6. Foot Switch Pedal: Foot switch HBK: 1364476.
        7. Foot Switch Pedal: Foot switch HRK: 136447.
        8. Foot Switch Control Functions: 3 functions (combinations of height, tilt, Trendelenburg, leg section, back section).
        9. Socket for Wired Remote Control and Foot Switch: Head direction of column head, RS485.
        10. Wireless Remote Control: Wireless PST 300+: 2080132.

Charging Unit, Mobile AC TS7500: 1557243.

* + - * 1. Receiver for Wireless Remote Control: Infrared.
        2. Range for Wireless Remote Control: Within operating theatre.
        3. Column Control Functions: Up to 16 functions; in addition to level, standard and emergency override.
        4. Indicators of Remote Control: Battery state of remote control (wireless remote control only), remote control ON.
        5. Indicators of Column Control: Emergency operation, patient orientation, battery state, external power supply, floor locks engaged, service, power.
      1. Power Interface: Power Supply Socket: Head end of table base.
      2. Adjustment Ranges:
         1. Lift: 14.6 inches, plus or minus 0.4 inches (37 cm, plus or minus 1 cm)
         2. Trendelenburg/Reverse Trendelenburg: Positive and negative 30 degrees; plus or minus 2 degrees.
         3. Trendelenburg Motion: 811.3 ft-lbs (1100 Nm).
         4. Tilt: Positive and negative 25 degrees (Plus or minus 2 degrees).
         5. Tilt Motion: 265.5 ft-lb (360 Nm).
         6. Longitudinal Slide:

Overall: 13.4 inches plus or minus 0.4 inches (34 cm plus or minus 1 cm).

Head End: 7.7 inches plus or minus 0.4 inches (19.5 cm plus or minus 1 cm).

Foot End: 5.7 inches plus or minus 0.4 inches (14.5 cm plus or minus 1 cm).

* + - * 1. Joint Back Section, Angles Relative to Seat Section: Positive 80 to negative 60 degrees, plus or minus 2 degrees.
        2. Joint Leg Section Angles Relative to Seat Section: Positive 80 to negative 92 degrees, plus or minus 2 degrees.
        3. Flex/Reflex (Flex down/Flex Up): 240/100 degrees, plus or minus 2 degrees.

These are the maximum reachable flex/reflex angles, which are possible with the additional manual adjustment of the back and leg section motors after the flex/reflex position.

* + - * 1. Zero Position: Motorized leveling of all sections.
      1. Adjustment Ranges Speed:
         1. Lift: 0.3 inches per sec (8 mm per sec).
         2. Trendelenburg/Reverse Trendelenburg: 2.2 degrees per sec.
         3. Tilt: 2 degrees per sec.
         4. Longitudinal Slide: 0.6 inches per sec (15 mm per sec).
         5. Joint Back Section Relative to Seat Section: 2.3 degrees per sec.
         6. Joint Leg Section Relative to Seat Section: 2.3 degrees per sec.
         7. Flex/Reflex (flex down/flex up): 2 degrees per sec.
         8. Zero Position: Motorized leveling of all sections.
      2. Compatible Components and Accessories:
         1. PST 300L+ and PST 300S+:

Tabletop segment Carbon 1200.

Tabletop segment Carbon 600.

Leg section one-part light.

Leg section four parts spreadable.

Leg section two parts spreadable.

Leg section one part.

Head section single joint.

Head section double joint.

Pelvis extension.

Adapter head positioning.

Upper back section.

Shoulder chair H SchureMed.

Extension adapter PST 300+/300 CN.

Adapter head positioning.

Spindle traction mechanism.

MIS-Hip-Aggregate.

Universal support.

Adapter spindle traction mechanism.

Extension joint strut (Carbon).

* + - 1. X-Ray Channel:
         1. X-ray Cassette Channel (HxW): 0.8 x 15.9 inches (21 x 406 mm)
         2. Distance Between Struts: 14.8 inches (375 mm).
         3. Rails for X-ray cassette mount to insides of seat and back section struts. X-ray cassette can be inserted beneath the seat/back section.
      2. Radiolucent Areas: PST 300L+.
         1. Foot End:

Leg Section with Pelvic Extension:

One-Part Light: 58.3 inches (1480 mm).

Two Parts Spreadable: 51.3 inches (1303 mm).

Four part: 54.4 inches (1383 mm).

One-part: 42.1 inches (1070 mm).

Pelvic Extension: 20.9 inches (530 mm).

Tabletop Segment Carbon 1200: 57.3 inches (1455 mm).

Tabletop Segment Carbon 600: 38.4 inches (975 mm).

* + - * 1. Head End: Head Section: 39.4 inches (1000 mm).
      1. Radiolucent Areas: PST 300S+.
         1. Foot End:

Leg Section with Pelvic Extension:

One-Part Light: 58.3 inches (1480 mm).

Two Parts Spreadable: 51.3 inches (1303 mm).

Leg Section Four Part: 54.4 inches (1383 mm).

Leg Section One-Part: 42.1 inches (1070 mm).

Pelvic Extension: 20.9 inches (530 mm).

Tabletop Segment Carbon 1200: 57.3 inches (1455 mm).

Tabletop Segment Carbon 600: 38.4 inches (975 mm).

* + - * 1. Head End:

Head and Upper Back Section: 42.9 inches (1090 mm).

Reverse with Leg Section Two Parts Spreadable: 52.2 inches (1325 mm).

Reverse with Leg Section One-Part Light: 59.1 inches (1500 mm).

Reverse with Leg Section Four Parts: 55.3 inches (1405 mm).

* + - * 1. Tabletop is radiolucent between the struts.

X-ray Region on Operating Tabletop: Between the struts at end of the section segment to cladding of operating table column.

Tabletop Over Column Area: Can be moved with longitudinal slide to the X-ray region.

* + 1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; Allen Surgical Base (ASB).
       1. Supports patients on a variety of support surfaces.
          1. Positioning of Surfaces: Adjustable via electromechanical control system. Using the control pendant, an operator may elevate, tilt, and/or trend the support surface.
          2. Powered Braking System: Locking casters may be locked and unlocked from control pendant. Emergency manual caster lock release.
          3. Backup Power System: Allows base to function in emergency situations where power is lost.
          4. Cervical Traction System: In foot end column. May be retracted when not in use.
          5. Accessory Storage Locations: Integrated into the base.
          6. The two columns are connected by a sliding cross tube, allowing system to collapse for storage and shipping.
          7. Support Surfaces: Attached to base with H-Brackets and cross pins.

Two floating joints allow ASB to tilt and trend simultaneously.

May be positioned for both maximum Trendelenburg angle of 10 degrees and a maximum Tilt angle of 25 degrees simultaneously.

Travel in foot end section of 3.0 inches (76 mm) accommodates changes in geometry while tilting and trending table.

Two support surfaces may be used together to sandwich a patient for a manual flip, rotating patient between prone and supine positions.

* + - 1. Standards Compliance:
         1. UL60601-1 Ed. 3.0
         2. EN60601-1 Ed. 3.0
         3. IEC60601-1 Ed. 3.0
         4. IEC 60601-2-46 Ed. 2.0
         5. IEC 60601-2
         6. IPX 4
         7. Table is ETL certified
         8. Table is PSE marked (Japanese Only)

\*\* NOTE TO SPECIFIER \*\* Delete model options not required.

* + - 1. Model A-71100-D
         1. Mains Voltage and Fuses: 110 VAC 60 Hz
         2. Fuse: 250V IEC SLO 5X20MM 6.3A
         3. Patient Capacity: 350 lbs (158.8 kg)
         4. Safe Working Load: 455 lbs (206.4 kg) applied to rail top
      2. Model A-71100
         1. Mains Voltage and Fuses: 110 VAC 60 Hz
         2. Fuse: 250V IEC SLO 5X20MM 6.3A
         3. Patient Capacity: 600 lbs (272.2 kg)
         4. Safe Working Load: 705 lbs (319.8 kg) applied to rail top
      3. Model A-71101
         1. Mains Voltage and Fuses: 230 VAC 50 Hz
         2. Fuse: 250V IEC SLO 5X20MM 3.15A
         3. Patient Capacity: 600 lbs (272.2 kg)
         4. Safe Working Load: 705 lbs (319.8 kg) applied to rail top
      4. Model A-71100-US
         1. Mains Voltage and Fuses: 110 VAC 60 Hz
         2. Fuse: 250V IEC SLO 5X20MM 6.3A
         3. Patient Capacity: 600 lbs (272.2 kg)
         4. Safe Working Load: 705 lbs (319.8 kg) applied to rail top
      5. Model A-71101-UK
         1. Mains Voltage and Fuses: 230 VAC 50 Hz
         2. Fuse: 250V IEC SLO 5X20MM 3.15A
         3. Patient Capacity: 600 lbs (272.2 kg)
         4. Safe Working Load: 705 lbs (319.8 kg) applied to rail top
      6. Model A-71101-EU
         1. Mains Voltage and Fuses: 230 VAC 50 Hz
         2. Fuse: 250V IEC SLO 5X20MM 3.15A
         3. Patient Capacity: 600 lbs (272.2 kg)
         4. Safe Working Load: 705 lbs (319.8 kg) applied to rail top
      7. Model A-71101-AUS
         1. Mains Voltage and Fuses: 230 VAC 50 Hz
         2. Fuse: 250V IEC SLO 5X20MM 3.15A
         3. Patient Capacity: 600 lbs (272.2 kg)
         4. Safe Working Load: 705 lbs (319.8 kg) applied to rail top
      8. Model A-71101-THA
         1. Mains Voltage and Fuses: 230 VAC 50 Hz
         2. Fuse: 250V IEC SLO 5X20MM 3.15A
         3. Patient Capacity: 600 lbs (272.2 kg)
         4. Safe Working Load: 705 lbs (319.8 kg) applied to rail top
      9. Model A-71101-IND
         1. Mains Voltage and Fuses: 230 VAC 50 Hz
         2. Fuse: 250V IEC SLO 5X20MM 3.15A
         3. Patient Capacity: 600 lbs (272.2 kg)
         4. Safe Working Load: 705 lbs (319.8 kg) applied to rail top
      10. Model A-71101-SA
          1. Mains Voltage and Fuses: 230 VAC 50 Hz
          2. Fuse: 250V IEC SLO 5X20MM 3.15A
          3. Patient Capacity: 600 lbs (272.2 kg)
          4. Safe Working Load: 705 lbs (319.8 kg) applied to rail top
      11. Model A-71100-CA
          1. Mains Voltage and Fuses: 110 VAC 60 Hz
          2. Fuse: 250V IEC SLO 5X20MM 6.3A
          3. Patient Capacity: 600 lbs (272.2 kg)
          4. Safe Working Load: 705 lbs (319.8 kg) applied to rail top
      12. Model A-71102-JP
          1. Mains Voltage and Fuses: AC 100 VAC 50/60 Hz
          2. Fuse: 250V IEC SLO 5X20MM 6.3A
          3. Patient Capacity: 600 lbs (272.2 kg)
          4. Safe Working Load: 705 lbs (319.8 kg) applied to rail top
      13. Model A-71101-SCH
          1. Mains Voltage and Fuses: 230 VAC 50 Hz
          2. Fuse: 250V IEC SLO 5X20MM 3.15A
          3. Patient Capacity: 600 lbs (272.2 kg)
          4. Safe Working Load: 705 lbs (319.8 kg) applied to rail top
      14. Model A-71101-SK
          1. Mains Voltage and Fuses: 220/240 VAC 50/60 Hz
          2. Fuse: 250V IEC SLO 5X20MM 3.15A
      15. Backup Power: 24 VDC, 1.2 Ah
      16. Duty Cycle: 2 minutes On / 18 minutes Off.
      17. Dimensions:
          1. Overall Length: 109 inches (2769 mm). Normal operation mode.
          2. Overall Length: 82-1/4 inches (2089 mm). Transport and Storage Position.
          3. Overall Width: 32-1/2 inch (825.5 mm).
          4. Overall Height: 39.5 to 55.3 inches (1004 to 1404 mm). Stroke: 15.8 inch (400 mm).
          5. Tilt: Plus and minus 25 degrees.
          6. Trendelenburg Angle: Plus and minus 10 degrees.
          7. Overall Weight: 325 lbs (147 kg). No H-brackets or pins.
      18. H-Bracket: Model A-71402. Features 8 selectable cross pin holes spaced 1 inch (25 mm) apart providing a range of height adjustment.
          1. Material: 300 series stainless steel.
          2. Weight: 5.8 lbs (2.6 kg) each.
          3. Dimensions:

Overall Width: 11.4 inch (289 mm).

Overall Height: 10.9 inch (277 mm).

* + - 1. Cross Pin: Model A-71401. Spring loaded detent preventing pin from falling out of place.
         1. Material: 300 series stainless steel.
         2. Weight: 0.6 lbs (0.27 kg) each.
         3. Dimensions:

Length: 15.3 in (389 mm).

Pin Diameter: 0.44 inch (11 mmm).

Handle: 2.3 inch (57 mm).

* + - 1. Cervical Traction Bar: Model A-71404
         1. Material: 300 series stainless steel.
         2. Weight: 1.0 lbs (0.45 kg) each.
         3. Dimensions:

Length: 11.75 inches (298.5 mm).

Pin Diameter: 0.44 inch (11 mmm).

Handle: 2.3 inch (57 mm).

* + - 1. Power Cord:

\*\* NOTE TO SPECIFIER \*\* Delete model options not required.

* + - * 1. Model: A-71405. USA.

Length: 12 ft. (3.66 m). Table Plug Orientation: 90 degrees.

* + - * 1. Model: A-71406. UK.

Length: 8.2 ft (2.5 m). Table Plug Orientation: Straight.

* + - * 1. Model: A-71407. EU.

Length: 8.2 ft (2.5 m). Table Plug Orientation: Straight.

* + - * 1. Model: A-71408. SA-INDIA.

Length: 8.2 ft (2.5 m). Table Plug Orientation: 90 degrees.

* + - * 1. Model: A-71409. AUSTRALIA.

Length: 8.2 ft (2.5 m). Table Plug Orientation: 90 degrees.

* + - * 1. Model: A-71412. CHINA.

Length: 8.2 ft (2.5 m). Table Plug Orientation: Straight.

* + - * 1. Model: C-007564-A1. Japan.

Length: 8.2 ft (2.5 m). Table Plug Orientation: Straight.

* + - * 1. Standards Compliance:

CE marked.

PSE marked; For Japanese Power cord.

IEC 60320.

CEE 7/7.

* + - * 1. Materials:

PVC and Copper

* + - * 1. Overal Weight: 0.8 lbs (0.36 kg)
      1. Pendant Control: Model A-71403.
         1. Material: ABS Plastic, Rubber, PVC, Electronics.
         2. Total length of Pendant and cord, not stretched: 48 inch (1220 mm)
         3. Weight: 0.5 lbsd (0.23 kg) each
         4. Electrical Standards Compliance:

UL60601-1 Ed. 3.0

EN60601-1 Ed. 3.0

IEC60601-1 Ed. 3.0

IEC 60601-2-46 Ed. 2.0

IEC 60601-2

IPX 4

Base is ETL Certified

* + - 1. Safety Strap: A-71411
         1. Belting: Black neoprene coated heavy duty nylon.

Buckle Attachment: Heavy Duty Nylon Box Stitch.

* + - * 1. Buckle: Airplane cam style.
        2. Dimensions:

Overall Length: 96.5 inch (2451 mm).

Width: 2.0 inch (51 mm).

Weight: 1.2 lbs (0.54 kg).

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Delete features not required.

* 1. OPERATING ROOM SURGICAL LIGHTS
     1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; Model: Helux Pro Surgical Light.
        1. Features:
           1. Adaptive Light Control Plus (ALC Plus).
           2. Sterile Light Control (SLC).
           3. Automatic Light Condition and Shadow Management.
           4. Adjustable Color Temperature and Pattern Size.
           5. Preparation for 4K Camera.
        2. Registration Data:
           1. Classification (MDR): I.
           2. Classification (FDA): 2 (510 (k) exempt).
           3. Mark of Conformity: CE, UL.
        3. Depth of Illumination:
           1. EN ISO 60601-2-41 2nd Edition: Depth of Illumination (L1 + L2) at 20 percent Ec / 2nd Edition: 76 inches (193 cm) with ALC Plus.
           2. EN ISO 60601-2-41 3rd Edition: Depth of Illumination (L1 + L2) at 60 percent Ec / 3rd Edition (sq cm).
           3. Average Service Life of the LEDs: Greater than 60,000 hours.
        4. Lighting Data:
           1. Illumination Level at 0.8 m: 160,000 lux.
           2. Illumination Level at 1.0 m: 160,000 lux.
           3. Illumination Level at 1.3 m: 160,000 lux.
           4. Automatic Adjustment of Illumination Level When Adjusting:

Pattern size.

Working distance.

Color temperature.

* + - * 1. Dimmable: From 100 to 30 percent; less than 10 percent endo.
        2. Pattern Size (d10) at 1.0 m (cm): 6.3 to 9.8 inches (16 to 25 cm).
        3. Pattern Size: 6.3 to 11.8 inches (16 to 30 cm).
        4. Ratio d50 / d10: Greater than or equal to 0.5.
        5. Color Temperature (K): 3,500 / 4,000 / 4,500 / 5,000.
        6. Color Rendering Index Ra: max. 97.
        7. Color Rendering Index R9: max. 98.
        8. Color Rendering Index R13: max. 98.
        9. Irradiance: 615 W/sq m.
      1. Remaining Illumination with Shadow Management:
         1. With 1 Mask: 92 percent 147,200 lux.
         2. With 2 Masks: 68 percent 108,800 lux.
         3. With Tube: 98 percent 156,800 lux.
         4. With Tube and 1 Mask: 91 percent 145,600 lux.
         5. With Tube and 2 Masks: 66 percent - 105,600 lux.
      2. Electrical Data:
         1. Power Pack Supply Voltage: 100 to 240 V AC - 50/60 Hz.
         2. Power Pack Supply Voltage DC-Dc Box: 22 to 32 V DC - 22 to 28 V AC - 50/60 Hz.
         3. Maximum Power Consumption; Total System (VA): Less than 160.
         4. Voltage at Ceiling Mounting Point: 48 V
      3. Mechanical Data:
         1. Light Emitting Surface: 302 sq in (1949 sq cm).
         2. Laminar Flow Surface: 561 sq in (3617 sq cm).
         3. Light Head Size: 29 inches (742 mm).
         4. Weight of Light Head (Incl. Cardanic and 4K Camera): 37.5 lbs (17.0 kg).
      4. Control Units:
         1. Wall Control:

Dimensions (L x W x H):

Flush: 10.2 x 7.2 x 2.5 inches (258 x 184 x 63 mm).

Surface: 10.3 x 7.4 x 2.5 inches (263 x 188 x 64 mm).

Power Supply: Powered by Control Board Plate. Input: 48 VDC.

Wall Cut Out for Flush Version (L x W x H): 9.4 x 6.5 inches (240 x 166 mm).

Corner radius in glass panel: 0.38 inches (10 mm).

Protection Class: IP54.

* + 1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; Model: Helux Pro Surgical Light - 4K Camera.
       1. Equipment Options:
          1. Functionality:

Zoom, Optical and Digital.

Auto Exposure: AE, Focal and Aperture.

Manual Exposure: AE, Focal, Aperture.

White Balance: Automatic and Manual.

Autofocus.

Picture Freeze.

Motorized Picture Rotation.

* + - * 1. Communication:

Control of Camera Functions via Wall Control Panel.

Control of Camera Functions via IR Remote Control.

* + - 1. Specifications 4K Camera Module:
         1. Picture Sensor: 1/2,5 Exmor RTM CMOS Sensor.
         2. Resolution: 3840 x 2160 Pixels.
         3. Supported Video Formats: 2160p30, 2160p25.
         4. Picture Format: 16:9.
         5. Zoom: 20 x Optical, 12 x Digital.
         6. Lens: f = 4,4 mm (wide) to 88 mm (tele), F2.0 to F3.8.
         7. Signal to Noise Ratio: 50 dB.
         8. Shutter: 1/1 to 1/10000 seconds, 28 steps.
         9. Minimum. Illumination: 0,4 lux.

Shutter Speed: 1/30 seconds.

* + - * 1. Minimum. Illumination: 0,06 lux.

Shutter Speed: 1/4 seconds or 1/3 seconds.

* + - * 1. White Balance: Automatic / Manual.
        2. Motorized Picture Rotation: Continuous Rotation.
        3. Picture Freeze: Digital.
        4. Auto Exposure (AE): Automatic / Manual.
        5. Focusing: Automatic / Manual.
        6. Camera Weight: 1.59 lbs (720 grams).
      1. Specifications 4K Camera Refreshing Unit:
         1. System Latency: Less than 1 ms.
         2. Power Supply: 100-240 V AC 50/60 Hz, 0.5 A max.
         3. Dimensions (W/H/D): 7.0 x 6.8 x 2.3 inches (178 x 173 x 58 mm)
         4. Weight (Excluding Cable): 1.06 lbs (480 grams).
         5. Fixation: Screw in lugs.
         6. Video Outputs: 1 x 6G-SDI, 1 x HDMI 2.0.

\*\* NOTE TO SPECIFIER \*\* The IR remote is optional. Delete if not required.

* + - 1. IR Remote:
         1. Battery: 3 x AA Cells. Not Included.
         2. Dimensions (WxHxD): 6.3 x 3.1 x 1.3 inches (160 x 78 x 34 mm).
         3. Weight (Including Batteries): 0.51 lbs (230 grams).

\*\* NOTE TO SPECIFIER \*\* Theexternal power suppply is optional. Delete if not required.

* + - 1. External Power Supply:
         1. Input Power: 100 V AC to 240 V AC (50 / 60 Hz).
         2. Dimensions (WxHxD): 5.0 x 2 x 1.25 inches (125 x 50 x 31.5 mm).
         3. Cable Length: 59 inches (1500 mm).
         4. Weight: 0.57 lbs (260 grams).
    1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; Model: iLED 7 Surgical Light.
       1. Consistent Illumination: LED sensor control. Light quality and brightness to remain consistent at varying working distances, color temperatures, and light field sizes.
          1. Illumination Level at 31.50 in (800mm): 160,000 lux.
          2. Illumination Level at 39.37 in (1000 mm): 160,000 lux.
          3. Illumination Level at 51.18 in (1300 mm): 160,000 lux.
       2. Pattern Size (d10) 6.3 to 9.8 in (160 to 250 mm): Consistent light field pattern size for all three field size options at a standard working distance of 31.5 to 51.18 inches (800 to 1,300 mm).
       3. Color Temperature (K): 3,500 / 4,000 / 4,500 / 5,000; adjustable.
       4. Color Rendering Index, Ra: 97 maximum.
       5. Color Rendering Index, R9 (blood): 96 maximum.
       6. Color Rendering Index, R13 (skin): 99 maximum.
       7. Average Service Life of LEDs: 60,000 hours.
       8. Adaptive Light Control Plus (ALC Plus): Automatic site focus keeping the surgical site lit regardless of a change in light positioning.

\*\*NOTE TO SPECIFIER\*\* The subparagraph below is optional.

* + - 1. Sterile Light Control (SLC).

\*\*NOTE TO SPECIFIER\*\* The subparagraph below is standard.

* + - 1. Active Light Management:
         1. Sterile disposable handles.
         2. Sterile non-disposable handles.
      2. Controls:
         1. Wall Controls: Primary.
         2. Light-Head Controls: Directly on light; strictly for backup use if there is wall control failure.

\*\* NOTE TO SPECIFIER \*\* Primarily used for trial periods and on mobile lights. Not recommended for typical OR use but is available if the customer insists.

* + - * 1. Mobile Controls: Tablet or smart phone device.

\*\*NOTE TO SPECIFIER\*\* The subparagraph below is optional.

* + - * 1. Sterile Light Control (SLC): Optional in light head handle.
    1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; TruLight 5000 Surgical Light Series.
       1. Models:

\*\* NOTE TO SPECIFIER \*\* Delete Models not required.

* + - * 1. 5500.
        2. 5510.
        3. 5520.
        4. 5300.
        5. 5310.
        6. 5320.
      1. Mounting Types:

\*\*NOTE TO SPECIFIER\*\* Delete mounting types not required.

* + - * 1. Ceiling.
        2. Wall.
        3. Mobile.

\*\*NOTE TO SPECIFIER\*\* Models 5500, 5510, and 5520. Delete if not required.

* + - 1. Illumination Level at 39.37 in (1000 mm): 160,000 lux.

\*\*NOTE TO SPECIFIER\*\* Models 5300, 5310, and 5320. Delete if not required.

* + - 1. Illumination Level at 39.37 in (1000 mm): 160,000 lux.
      2. Pattern Size (d10): 6.3 to 9.8 in (160 to 250 mm).
      3. Pattern Size Change - Distance Variation: 6.3 to 11.8 in (160 to 300 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color temperature option not required.

* + - 1. Color Temperature (K): Adjustable at the control panel.
      2. Color Temperature (K):

\*\* NOTE TO SPECIFIER \*\* Color temperature is only adjustable during the initial installation. Delete temperatures not required.

* + - * 1. 3,500.
        2. 4,000.
        3. 4,500.
        4. 5,000.
      1. Color Rendering Index Ra: 96 maximum.
      2. Average Service Life of LEDs: Greater than 60,000 hours.

\*\* NOTE TO SPECIFIER \*\* ALC Plus is standard on models 5520 and 5320.  
ALC Plus is available on models 5510 and 5310 with a camera module installed.

* + - 1. Adaptive Light Control Plus (ALC plus): Automatic site focus keeping the surgical site lit regardless of a change in light positioning.

\*\*NOTE TO SPECIFIER \*\* Subparagraph below applies to models 5510 and 5310.

* + - 1. Camera Preparation: Prewired and ready to interface with various SD, and HD cameras.

\*\*NOTE TO SPECIFIER \*\* Subparagraph below applies to models 5520 and 5320.

* + - 1. Sterile Light Control (SLC).

\*\* NOTE TO SPECIFIER \*\* Delete one of the following control options. Mobile tablet is available only in certain countries.

* + - * 1. Mobile tablet.
        2. Wall control panel.
    1. Basis of Design: Hillrom Surgical Solutions, Surgical Workflow and Precision Positioning; Model TruLight 1000 Examination Light.
       1. Mounting Type: Mobile.
       2. Positioning: Manual.
       3. Illumination Level Ec at 1 m (lx): 80,000.
       4. Pattern Size (d10) at 39.37 in (1 m): 6.3 in (160 mm).
       5. Color Temperature (K): 4,500.
       6. Color Rendering Index Ra: 95.
       7. Average Service Life of LEDs: 40,000 hours.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. OPERATING ROOM VIDEO INTEGRATION SYSTEM
     1. Basis of Design: Helion Integrated Surgical System as manufactured by Hillrom, a Baxter Company. The Helion system allows you to route, record and share any video source from any vendor using any video standard, up to 4K with full 3D support and 8K ready. User-centered design with intuitive interfaces to controls and help you effectively manage your surgical suite with the flow of patient information. Flexible display and recording options including split views, simultaneous two-channel recording and on-screen room controls allow surgical teams to quickly customize and adjust preferences.
        1. Performance Options:

\*\* NOTE TO SPECIFIER \*\* Delete any of the three options not required.

* + - * 1. Plug and play setup, easy-to-navigate user interface, drag and drop capability, and quick access functions.
        2. Vendor neutral with multiple network communications options and full connection with hospital systems like PACS, HIS and EMR.
        3. Powerful, 8K ready, ultra-high definition video routing with zero latency.
      1. Supported Functionalities:

\*\* NOTE TO SPECIFIER \*\* Delete any of the functionalities not required.

* + - * 1. Routing.
        2. Recording.
        3. Conferencing.
        4. Streaming.
        5. Device and Room Control.
        6. Surgical Checklist.
        7. Presets Management.
        8. Multiview.
        9. Patient ID Manager.
        10. Media Editing.
        11. Audio Management.
      1. Main with 4K Unit:
         1. Video Channels Managed: Input: 24. Output: 24.
         2. Supported Resolutions: Up to 4k with full 3D support.
         3. Cabling Technology: CAT 7 or optic fiber.
         4. Touchscreen: 24 inch (610 mm) , capacitive, resolution 1920 x 1080p,
         5. Touchscreen: 27 inch (686 mm) , capacitive, resolution 1920 x 1080p,
         6. Aspect ratio: 16:9.
         7. Touchscreen Native Resolution: 1920 x 1080.
         8. Audio Input: 3 Mic, 2 Aux Stereo, 1 Videoconference.
         9. Audio Output:

Stereo amplified: 2.

Stereo non-amplified: 2.

Video conference: 1.

* + - * 1. RS232 Port for Control of Devices: 12.
        2. Recording Channels: 2 simultaneous recording channels.
        3. Protocols: DICOM. Synchronization: HL7.
        4. Special Recording Functions: Time Shift Recording, MATS.
        5. Streaming HW: Full HD 1080 60 fps with talkback function.
        6. Main Unit Dimensions: 5.24 x 16.93 x 17.72 inches (133 x 430 x 450 mm).

Power: 100 to 240 VAC 50 to 60 Hz. EN 60601-1

Weight: 29.76 lbs (13.5 kg).

* + - * 1. UHD Unit Dimensions: 1.73 x 16.93 x 17.72 inches (44 x 430 x 450 mm).

Power: 100 to 240 VAC 50 to 60 Hz. 4K/UHD Unit. EN 60601-1.

Weight: 17.64 lbs (8 kg).

* + - * 1. USB ports: 3x USB 3.0, 2x USB 2.0.
      1. Conference Unit Specs:
         1. Standard Video: H.263, H.263+, H.263++, H.264, H.264 High Profile, H.264 SVC. Encoding up to 1920 x 1080p, 60fps.
         2. Input Video: 2 Input: 2 x HD video in (1080p60/720p60).
         3. Video Output: 2 Output: 2 x HD Video Digital out (1080p60).
         4. HD Audio: MicPod 100 Hz fino a 16 kHz, MicPod 100 Hz up to 16 kHz mute button.
         5. Dimensions: 1.73 x 16.93 x 17.72 inches (44 x 430 x 450 mm).
         6. Weight: 17.64 lbs (8 kg).
         7. Power: 100 to 240 VAC 50 to 60 Hz medical grade EN 60601-1.

1. EXECUTION
   1. EXAMINATION
      1. Verification of Conditions: Examine areas and conditions under which Work is to be performed and identify conditions that may be detrimental to proper or timely completion.
      2. Do not proceed until unsatisfactory conditions have been corrected.
   2. INSTALLATION
      1. General: Install per manufacturer's written instructions and in proper relationship with adjacent construction.
      2. Testing: Test per manufacturer's written instructions. Adjust until satisfactory results are obtained. If satisfactory results cannot be obtained, replace unit at no additional cost to the Owner.
   3. CLEANING AND PROTECTION
      1. Protect from damage during construction operations. Promptly repair any damaged surfaces. Remove and replace work which cannot be satisfactorily repaired.
      2. Clean products, prior to Substantial Completion, using materials recommended by the manufacturer.

END OF SECTION