Refer to compliance chart in this manual.
Product Information

Dealer:

Date of Purchase:

Model / Serial Number:

Midmark Authorized Service Company:

Product Registration

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Important Information

Safety Symbols

WARNING
Indicates a potentially hazardous situation which could result in serious injury.

Caution
Indicates a potentially hazardous situation which may result in minor or moderate injury. It may also be used to alert against unsafe practices.

Equipment Alert
Indicates a potentially hazardous situation which could result in equipment damage.

Note
Amplifies a procedure, practice, or condition.

Duty Cycle (motor run time)
- Domestic: 30 seconds ON, 5 minutes OFF
- Export: 25 seconds ON, 7 minutes OFF

No Pushing

Proper shipping orientation

Keep dry

Fragile

Maximum stacking height (palletted units)

Type B, Applied Part (Upholstery)

Fuse rating specification

Protective earth ground

Dangerous voltage / shock hazard

Patient Weight Limit

Refer to manual
Warnings

**Warning**
To avoid injury, do not put head or extremities under the paper tear strap.

**Warning**
Connecting equipment to the multiple socket outlet effectively leads to creating a Medical Electrical System and the result can be a reduced level of safety.

**Warning**
Table must be positioned in normal use such that the power cords can be easily accessed to unplug.

**Warning**
To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

**WARNING**
Equipment is not suitable for use in the presence of a flammable anesthetic mixture.

---

**Clarification:** Equipment is suitable for use in the presence of oxygen, air, or nitrous oxide.

**Warning**
No modification of this equipment is allowed.

---

Intended Use

This product is intended to be used as a chair/table to provide positioning and support of patients during general examinations and procedures conducted by qualified medical professionals in an office environment.

Electrical Requirements

**Caution**
To completely isolate the table from electrical mains supply, both power cords must be unplugged.

When using high frequency surgical devices or endocardial catheters:
- Use non-conductive material to insulate patient from metal portions of the table.
- Consult operating instructions for the device before using in conjunction with drawer or upholstery heater.

Failure to comply may result in electric shock or burns to patient.
**Electromagnetic Interference**

This product is designed and built to minimize electromagnetic interference with other devices. However, if interference is noticed between another device and this product:

- Remove interfering device from room.
- Plug chair into an isolated circuit.
- Increase separation between chair and interfering device.
- Contact Midmark if interference persists.

**Disposal of Equipment**

At the end of product life, the table, accessories, and other consumable goods may become contaminated from normal use. Consult local codes and ordinances for proper disposal of equipment, accessories and other consumable goods.

**Authorized EU Representative**

Countries in the EU should direct all questions, incidents, and complaints to Midmark’s Authorized EU representative listed below.

Midmark EMEA Ltd
Beech House
First Floor, East Wing
Ancells Business Park
Fleet
Hampshire GU51 2UN
United Kingdom
Tel: + 44 (0) 1252 360 940
Fax: + 44 (0) 1252 360 941

**Transportation / Storage Conditions**

Ambient Temperature Range: +5°C to +38°C (+41°F to 100°F)
Relative Humidity: 10% to 90% (non-condensing)
Atmospheric Pressure: 500hPa to 1060hPa (0.49atm to 1.05atm)

**Operating Conditions**

Ambient Temperature Range: +10°C to +40°C (+50°F to 104°F)
Relative Humidity: 30% to 75% (non-condensing)
Atmospheric Pressure: 700hPa to 1060hPa (0.69atm to 1.05atm)
Safety Instructions

**Caution**
*Be sure that all personnel and equipment are clear of the table before activating any function. Failure to do so could result in personal injury.*

At the table’s lowest height [18 in. (45.7 cm)], the clearance between the bottom of the drawer and the floor is approximately 3.5 in. (9 cm). Make sure patient (esp. feet) and all objects are clear of this area before lowering table.

If the table malfunctions, immediately release foot pedal, unplug the table power cord, and assist the patient from the table. If table continues to malfunction, call for service.

Failure to comply with these instructions may result in injury to patient and/or damage to equipment.
Operation

Table Up / Down Operation

**Note**
The table automatically stops at it’s maximum and minimum height.

To move the table Up or Down...
Press and hold the appropriate button.

Equipment Alert
If the table’s weight limit is exceeded, you will hear a “beep” and the function will be disabled. If the problem occurs with a normal load, contact your service technician.

Max. 37 ± 0.5 in. (94 ± 1.3 cm)
Min. 18 ± 0.5 in. (45.7 ± 1.3 cm)
**Operation - continued**

**Back Up / Down Operation - 222**

*To position the back section...*
A) While holding the back section in place, squeeze the Back Release Handle (either side).
B) Move the back section.
C) Release handle to lock back section in position.

**Range of Motion**
0° (horizontal) to +80° ±5°
**Operation - continued**

**Back Up / Down Operation - 223**

**Note**
The back section automatically stops at the top and bottom of it's travel.

**To position the back section...**
Press and hold the appropriate button.

---

**Equipment Alert**
If the table's weight limit is exceeded, you will hear a "beep" and the function will be disabled. If the problem occurs with a normal load, contact your service technician.

---

**Range of Motion**
0° (horizontal) to +80° ±5°
Exam Assistant® Drawer System

To use the drawer front as a shelf...
Pull drawer front down to release the magnetic latch.

Equipment Alert
The maximum weight the shelf will support is 10 lbs (4.5 kg).

If drawer front folds past horizontal...
Pull drawer front upward until it snaps back into the horizontal position.

Equipment Alert
If drawer front folds past horizontal, do not operate table.
**Paper Roll & Tear Strap**

**Note**
*Up to four paper rolls (max.) may be stored under the back section.*

Paper Roll Size (maximum):
- 222 & 223 (-016) ........................................................................................................ 21 in. wide x 3.5 in. diameter (53.3 cm x 8.9 cm)
- 222 (-017) .................................................................................................................. 19.7 in. wide x 4.7 in. diameter (50 cm x 12 cm)

---

**To install paper roll...**
*Insert rod ends into sockets under head end of upholstery.*

**To install paper tear strap...**
*Attach strap to snaps on each side of table.*
Stirrups

Caution
Be sure the stirrups are locked in place before using. The stirrups will not support the patient’s entire weight.

To position the stirrups...
A) Pull the stirrup out, then unfold.
B) Lift the stirrup slightly, then move it left or right as desired.
C) Release stirrup to lock in position.
Footrest & Treatment Pan

Caution
Do not use footrest to support patient’s entire weight.

To access the treatment pan...
Lift footrest pad slightly, then slide pad back into table.

To extend footrest...
Pull footrest out to desired position.

Drawer Heater (optional)

Note
The drawer heater switch illuminates when heater is ON.

To turn the drawer heater ON / OFF...
Press the heater switch to desired position.

The drawer heater warms the contents of the drawer to approximately 98°F (37°C).
Pelvic Tilt

To return seat section to flat position...
A) Lift seat section slightly.
B) Pivot pelvis support handle upward.
C) Lower seat section.

To elevate seat section...
Lift seat until pelvic support drops into place.
**Duplex Receptacle (not available on 230 volt models)**

The duplex receptacle on the side of the table provides power for accessories used during medical procedures. There are two circuit breakers located under the seat section. If the receptacle’s maximum load is exceeded, the circuit breakers interrupt power to the receptacle.

**Maximum Load:** ................................................................................................. 115 VAC, 5 amps

---

*To reset the circuit breaker(s)...
Push circuit breaker switch.*

---

*Tripped (no power)*

*Reset (power)*
**Maintenance**

**Cleaning**

**Upholstery**

Wash your upholstery weekly with a mild liquid soap and water mixture, rinse with clear water and dry completely to remove disinfection cleaner build-up.

Disinfect your upholstery with a solution of standard bleach and water mixed 1 in 10 (10%) or chlorine based cleaners. Follow this with a clear water rinse and thorough drying of material. See current CDC Guideline for Disinfection & Sterilization in Healthcare Facilities.

To minimize damage caused by disinfectant cleaner residue build-up, do not allow disinfectants to pool on the upholstery surface. Once the approved contact time has been obtained, remove and dry excess liquid remaining on the surface.

Detailed care and maintenance instructions are included with your product. This information is also available on www.midmark.com in the Technical library under the User Information tab for your product.

**Painted Metal / Plastic Surfaces**

Clean the painted metal and plastic surfaces weekly using a clean soft cloth, and mild cleaner. Periodic applications of common furniture wax will ease cleaning, and maintain the finished luster of the surfaces.

**Preventative Maintenance**

Periodically inspect the following areas:

- Power cord should be free of cuts or other visible damage.
- All fasteners should be present and tightened securely.
- All mechanical functions should operate properly.

Periodically lubricate the following areas to maintain quiet, smooth, operation:

- Back hinge (*use light machine oil*).
- Footrest slide (*use household furniture wax*).

To ensure safe use of table, have a qualified service technician inspect your table every six months.

**Calling For Service**

*Note*

Model / serial number information is required when calling for service.

If service is required, contact your authorized Midmark dealer.

To contact Midmark directly:

1-800-MIDMARK (1-800-643-6275)
8:00 am until 5:00 pm Monday - Friday (EST) [excluding standard U.S. holidays]
# Specifications

## Weights & Electrical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Patient Weight</strong> (maximum)</td>
<td>400 lbs (181.4 kg)</td>
</tr>
<tr>
<td><strong>Paper Roll</strong> (maximum size)</td>
<td>(See Paper Roll &amp; Tear Strap page)</td>
</tr>
<tr>
<td><strong>Range of Motion &amp; Dimensions</strong></td>
<td>(See Range of Motion &amp; Dimensions page)</td>
</tr>
<tr>
<td><strong>Weight of Table</strong></td>
<td>[Weights listed are for 115V models. The 230V transformer adds 14.5 lbs (6.5 kg)]</td>
</tr>
<tr>
<td>w/upholstery</td>
<td>325 lbs (147 kg)</td>
</tr>
<tr>
<td>w/packaging &amp; skid (no upholstery)</td>
<td>375 lbs (192.7 kg)</td>
</tr>
<tr>
<td>Upholstery w/packaging (shipped separately)</td>
<td>40 lbs (18.1 kg)</td>
</tr>
<tr>
<td><strong>Power Cord(s)</strong></td>
<td>8 ft. (243.8 cm) long</td>
</tr>
<tr>
<td>[115V models have two cords]</td>
<td></td>
</tr>
<tr>
<td><strong>Electrical Requirements</strong></td>
<td>[See Compliance Chart]</td>
</tr>
<tr>
<td><strong>Foot Control Voltage</strong></td>
<td>14 VAC, SELV (Safety Extra Low Voltage)</td>
</tr>
<tr>
<td><strong>Duplex Receptacle</strong> (maximum load)</td>
<td>115 VAC, 5A, 50/60 Hz</td>
</tr>
<tr>
<td>(not available on 230 volt models)</td>
<td></td>
</tr>
<tr>
<td><strong>Fuses</strong></td>
<td></td>
</tr>
<tr>
<td>222/223 (all)</td>
<td></td>
</tr>
<tr>
<td>F1 &amp; F2 (on main PC board)</td>
<td>10A, 250V, Slo-Blo, 1/4” x 1 1/4”</td>
</tr>
<tr>
<td>F3 (on main PC board)</td>
<td>5A, 250V, Slo-Blo, 1/4” x 1 1/4”</td>
</tr>
<tr>
<td>F4 (on main PC board)</td>
<td>187 mA, 250V, Slo-Blo, 1/4” x 1 1/4”</td>
</tr>
<tr>
<td>223 (only)</td>
<td></td>
</tr>
<tr>
<td>F5 (on main PC board)</td>
<td>4A, 250V, Slo-Blo, 1/4” x 1 1/4”</td>
</tr>
<tr>
<td><strong>Models w/ drawer heater</strong></td>
<td></td>
</tr>
<tr>
<td>distribution board fuses (2)</td>
<td>800 mA, 250V, Slo-Blo, 5 x 20 mm</td>
</tr>
<tr>
<td>222 (-017)</td>
<td></td>
</tr>
<tr>
<td>located next to IEC inlet (2)</td>
<td>4A, 250V, Slo-Blo, 5 x 20 mm</td>
</tr>
<tr>
<td><strong>Duty Cycle</strong></td>
<td></td>
</tr>
<tr>
<td>(Motor Run Time)</td>
<td></td>
</tr>
<tr>
<td><strong>Intermittent Operation</strong></td>
<td></td>
</tr>
<tr>
<td>[Domestic: 30 seconds ON / 5 minutes OFF]</td>
<td></td>
</tr>
<tr>
<td>[Export: 25 seconds ON / 7 minutes OFF]</td>
<td></td>
</tr>
<tr>
<td><strong>Continuous Operation</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Receptacles / Drawer Heater</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Classifications</strong></td>
<td>Class I, Type B Applied Part</td>
</tr>
<tr>
<td><strong>Protection against ingress of fluids</strong></td>
<td>IPXO [Foot Control only: IPX1]</td>
</tr>
<tr>
<td>Model</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------------------------------------</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>222-016</td>
<td>Ritter Basic Table w/ Receptacle, Pelvic Tilt, &amp; Drawer Heater</td>
</tr>
<tr>
<td>222-017</td>
<td>Ritter Basic Table - Export w/ Pelvic Tilt</td>
</tr>
<tr>
<td>223-016</td>
<td>Ritter Power Back Table w/ Receptacle, Pelvic Tilt, &amp; Drawer Heater</td>
</tr>
</tbody>
</table>

**Fire Code Ratings:** All upholstery complies with California Bureau of Home Furnishings Technical Bulletin 117. Optional upholstery is available that complies with California Bureau of Home Furnishing Technical Bulletin 133.
**Range of Motion & Dimensions**

**Pelvic Tilt**
- Max. 7° ± 2°
- Min. 1.5°

**Max. Range**
- 0° (horizontal) to +80° ± 5°

**Dimensions**
- Max. 37 ± 0.5 in. (94 ± 1.3 cm)
- Min. 18 ± 0.5 in. (45.7 ± 1.3 cm)
Range of Motion & Dimensions (continued)

- **Soft Touch Upholstery**: 56.25 in (142.9 cm)
  - Up to: 17.5 in (44.6 cm)
- **Seamless Upholstery**: 59.5 in (151.1 cm)
  - Up to: 16.25 in (41.3 cm)

- **Up to**: 28.5 in (72.4 cm)

- **Soft Touch**: 12 in (30.5 cm)
  - Seamless: 13.5 in (34.3 cm)

- **Range of Motion & Dimensions**:
  - 8 ft. (2.4 m)
  - 40.7 in (103.4 cm)
  - 18.9 in (48 cm)
Warranty Information

SCOPE OF WARRANTY
Midmark Corporation ("Midmark") warrants to the original retail purchaser that it will repair or replace components of the domestic and international medical products manufactured by Midmark (except for components not warranted under “Exclusions”) that are defective in material or workmanship under normal use and service. Midmark’s obligation under this warranty is limited to the repair or replacement, at Midmark’s option, of the applicable components. This limited warranty shall only apply to defects that are reported to Midmark within the applicable warranty period and which, upon examination by Midmark, prove to be defective. This warranty extends only to the first retail purchaser of a product and is not transferable or assignable.

APPLICABLE WARRANTY PERIOD
The applicable warranty period, measured from the date of delivery to the original user, shall be one (1) year for all warranted products and components.

OBTAINING WARRANTY SERVICE
Warranty service must be obtained through either Midmark or an authorized dealer in the Midmark product line for which warranty service is requested. Midmark may be contacted for warranty service inquiries or issues via email at www.midmark.com; by phone at 1-800-MIDMARK; by facsimile at 1-800-365-8631; or by mail to Midmark Corporation, 60 Vista Drive, Versailles, Ohio 45380.

It is the retail purchaser’s obligation to arrange for delivery of a product to Midmark or one of its authorized dealers for warranty service, which delivery shall be at retail purchaser’s expense. It is also the retail purchaser’s obligation to comply with the warranty service instructions provided either by Midmark or its authorized dealer. The retail purchaser must provide Midmark with completed warranty registration information within thirty (30) days after purchase in order to obtain the benefits of this warranty.

EXCLUSIONS
This warranty does not cover, and Midmark shall not be liable, for the following:

(1) defects, damage or other conditions caused, in whole or in part, by misuse, abuse, negligence, alteration, accident, freight damage, tampering or failure to seek and obtain repair or replacement in a timely manner;
(2) products which are not installed, used, and properly cleaned and maintained as required in the Midmark “Installation” and/or “Installation/Operation Manual” for the applicable product;
(3) products considered to be of a consumable nature;
(4) accessories or parts not manufactured by Midmark;
(5) charges by anyone for adjustments, repairs, replacement parts, installation or other work performed upon or in connection with such products which are not expressly authorized in writing in advance by Midmark;
(6) costs and expenses of routine maintenance and cleaning; and
(7) representations and warranties made by any person or entity other than Midmark.
Warranty Information (continued)

EXCLUSIVE REMEDY; CONSEQUENTIAL DAMAGES DISCLAIMER:
MIDMARK’S ONLY OBLIGATION UNDER THIS WARRANTY IS THE REPAIR OR REPLACEMENT
OF DEFECTIVE PARTS. MIDMARK SHALL NOT BE LIABLE FOR AND HEREBY DISCLAIMS ANY
DIRECT, SPECIAL, INDIRECT, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES OR
DELAYS, INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFITS OR INCOME,
LOSS OF USE, DOWNTIME, COVER AND EMPLOYEE OR INDEPENDENT CONTRACTOR
WAGES, PAYMENTS AND BENEFITS.

NO AUTHORIZATION
No person or firm is authorized to create or approve for Midmark any other obligation or liability in
connection with the products.

WARRANTY DISCLAIMER
THIS WARRANTY IS MIDMARK’S ONLY WARRANTY AND IS IN LIEU OF ALL OTHER
WARRANTIES, EXPRESS OR IMPLIED. MIDMARK MAKES NO IMPLIED WARRANTIES OF ANY
KIND INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A
PARTICULAR PURPOSE. THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT
OF DEFECTIVE PARTS.

STATUTE OF LIMITATIONS
No action may be brought against Midmark for breach of this limited warranty, an implied warranty, if
any, or for any other claim arising out of or relating to the products, more than ninety (90) days
following expiration of the limited warranty period.