DIAMOND
A class of its own
DIAMOND
Comfort and reliability in surgery
The table meeting your standards

Reliable in its tasks
Security → page 4 ff

Stable for a secure intervention
Stability → page 12

Mobile and flexible
Mobility → page 11
Resilient to extreme demands
Bariatric surgery → page 13

Easy to clean and hygienic
Hygiene → page 10

Optimal access to the surgical area
Foot space → page 12
Security for operational readiness and patient
A multilevel security system ensures uninterrupted surgical proceedings

1. **Dual-level security system for all table functions**
   Detachable manual control for a continuously convenient table adjustment (for DIAMOND 40 models: available as an option).
   Additional manual adjustment with pre-selection dials.
   First choose the desired function …

2. … then trigger the adjustment movement via the foot pedals.

3. Foot pedal on both sides for central locking and activation of the optional directional castor.
4 Four battery modules in total, grouped in two independent battery blocks, supply sufficient energy for well over 100 surgical interventions. By this means, two energy sources ensure operational readiness of the table and warrant a mains-independent electrohydraulic adjustment of all table functions.

5 The DIAMOND operating table can be operated even when the mains cable is plugged in. Integrated charging unit, additional selector button at the central delivery point for mains power and battery mode, potential equalization terminal and mains switch. All connections and buttons are splash-proof.

6 A Soft-Start function that can be switched on and off guarantees an accurate table movement in e.g. spine surgery or in neurosurgery.
Security for operational readiness and patient

1 **Hand control** (optionally: wireless hand control unit, transmission of signals via Bluetooth technology) **Illuminated display** indicating status information of the OR table, e.g. currently chosen position, Reverse-Mode function and status of battery charge. 

2 **Foot control** (optionally: wireless foot control unit, transmission of signals via Bluetooth technology) 

**Bluetooth**

Bluetooth technology allows a *continuous operation* of the OR table, regardless of sterile covers or the like that may come in between the control unit and the OR table. The Bluetooth control unit communicates exclusively with its assigned operating table, there is no danger of unintentionally activating a different device.

**Examples for status information on the display**

- Warning in case chosen table function is not compatible with attached extension device
- Table locking advice

See page 35 for more control elements.
Memory foam pads provide an efficient decubitus prophylaxis, reduce body heat loss and provide at the same time an enhanced comfort to the patient.

Integrated sensors alert the user visually via the display, acoustically by means of a warning beep and tactiley via vibrating alert to an imminent collision and stop the table movements automatically, e.g., in case the leg section is swivelled down with the table-top too much lowered, or the table-top is being lowered with an object between the table column and the foot cladding (model-dependent equipment feature).

For security reasons, table movements via the control elements are only carried out provided the castor brake is activated.

An unintentional table movement is prevented by the automatic switch-off function of the hand control unit after 60 seconds (adjustable). In addition, the adjustment mechanisms of the head and leg sections are secured against an unintentional triggering.

Adjustment of the individual table segments is carried out step by step and therefore gently on the patient. There is no risk-incurring simultaneous adjustment of several elements.

Tested for safety following the CB scheme according to IEC 60601 by an independent and authorized German testing institute.
Future-proof software and electronics

Thanks to our **in-house-developed** electronic parts and software, the DIAMOND OR table is well-prepared for future requirements. Regular updates for new software functions are thus assured.

1 **Charging cradle**
Inductive charging of Bluetooth hand controls in charging cradle. Choose from an upright version, a charging cradle for the side rail or practical wall mounting. The right storage solution for your Bluetooth hand controls, no more random cabling!

2 **Activation by Motion**
Automatic activation of hand control upon lifting it. No more searching for the on/off button during operations in darkened theatres.

3 **Memory positions**
Up to eight individually selectable positions can be stored and quickly and easily accessed at the touch of a button. The stored position is depicted graphically on the display.

**Custom 0 position**
Saving a custom height setting using the 0 position button allows you to easily transfer the patient to a bed or transporter.

(performance features depending on model)
4 Backlit control unit
Backlit control panel for a safe and easy handling even in the darkened operating room.

5 Hand control vibration
The vibration alarm on the hand control, e.g. to warn of a collision, allows medical personnel to concentrate on the patient.

6 Soft-start function
When it comes down to millimetres! DIAMOND operating tables feature a soft-start function for fine-tuning. This allows a millimetre-precise adjustment thanks to the soft start-up of the motors.
1 A fixation of the pads by means of adhesive gel strips provides optimal retention of the pads. The adhesive gel strips are disinfection-proof creating optimised hygienic conditions inside the OR theatre.

2 Easy cleaning of the adhesive gel strips using a damp cloth.

3 The optional splash guard for the central delivery point at the foot of the DIAMOND operating table serves as a protection in fluid-intensive surgeries, e.g., in urology or obstetrics. The cleaning effort for the DIAMOND operating table is reduced significantly.

4 Even the underside of the DIAMOND operating table, so often a critical issue from the point of view of hygiene, can be conveniently cleaned by means of the cleaning shuttle.

The DIAMOND Operating table is moved into the device with the table top in its highest position, the frame of the cleaning shuttle is positioned under the seat section of the table. Lowering the table top then lifts the table base off the floor and gives access to its underside for cleaning.
High degree of directional stability and manoeuvrability thanks to an optional 5th castor and large swivel castors with a diameter of 125 mm. Moving patients around tight corners or down long corridors can be done with minimum effort. DIAMOND can also be moved easily inside the operating theatre according to the requirements of the surgical intervention.

Triple-function brake pedals on both sides of the table base for:
- Straight run with activation of the 5th castor for moving down long corridors or turning on the spot. The DIAMOND table retains its directional stability, even with a patient lying on top.
- Free manoeuvring with disabled 5th castor, e.g. inside the operating theatre in order to meet a change in positioning requirement during a surgical intervention.
- Brake function with locking of all castors providing high stability
(5th castor available as an optional accessory)
Foot space and stability

1. Thanks to the Reverse Mode function, the DIAMOND offers excellent leg space to the surgical team and at the same time an improved intraoperative fluoroscopy.

2. The table base is shaped to offer optimal foot space to the surgeon.

3. A high stability against traction and compression forces allows challenging positions using the extension device.
Bariatric surgery

Gastric Banding

Positioning of bariatric patients using extension pads no. 101.0194.0

MIS

High weight capacity up to 454 kg
Longitudinal adjustment of tabletop by totally 300 mm
(DIAMOND 40 LK and DIAMOND 60 BLK)
Unrestricted X-raying of the patient, the longitudinal shift function creates a radiolucent area of 2,260 mm length.
Improved access to surgical field. Optimised leg and foot space.
Examples for the use of a table with longitudinal shift

An optimized positioning of the patient can be achieved by using a table with longitudinal shift. Enlargement of the radiolucent area, improved access to the surgical area.
Performance features

1 Electrically adjustable back section extension with kidney bridge functionality enhancing the flexibility of DIAMOND as an operating table suitable for all surgical disciplines. This element is not fixed to the table, but can be attached or removed as required.

2 Optional double panels in the DIAMOND OR table top allow the use of all common X-ray cassettes.

3 Electrohydraulic leg section and leg support adjustment function, also serving as back section adjustment function in Reverse Mode, allows a precise patient position and intraoperative corrections of position. (model-dependent equipment feature)

4 Head and leg plates removable at the push of a button Patient positioning in reverse mode thanks to an easy exchange of head and leg plate. The interlocking adaptors allow an easy attachment of the table elements and plug-in accessories.
Multilevel telescopic lifting column – Made by SCHMITZ
with a lift of 500 mm and an initial height of up to 615 mm (depending on the model).
The low-maintenance design of the telescopic lifting column guarantees a long service life.

SIM integration module
for an optional integration of the DIAMOND operating table into the Storz OR1™ NEO and Richard Wolf Core central control system, secure bidirectional data transfer. Please let our experts advise you.

Generous height adjustment range
Optimal access to the surgical field in both standing and sitting surgery. Fatigue-free and ergonomic surgical work.
Positionings

Thoracic surgery/kidney position

Gall bladder surgery

Breast surgery

Breast surgery
Positionings

Gynaecology

Gynaecology

Urology

Urology

Urology/TUR
Fractures of the shaft of the femur

Fractures of the neck of femur

Tibial shaft fractures

Hip arthroscopy
Positionings

Hip surgery

Spinal surgery

Spinal surgery

Neurosurgery

Neurosurgery
Positionings

Flexible adjustment of patient’s head to right and left

Foldable and detachable pad segments

Body supports for lateral patient support, can be attached in different heights

Shoulder arthroscopy
Patient preparation Gynaecology/Urology

Positioning for gynaecology/urology using the leg section ModuLeg

Removable thigh plates

Gynaecology/ Urology
Positionings

Knee arthroscopy

Hand surgery

Shoulder surgery using the shoulder traction system

Humeral nailing
Secure positioning in minimally invasive surgery by means of vacuum mattress

Secure positioning in thoracic surgery by means of vacuum mattress

Optional handles for ergonomic moving of the table
Positionings for minimally invasive hip replacement and hip arthroscopy using Condor® RotexTable
Positionings for spinal surgery using Allen® Spine System
Recommended accessories for DIAMOND operating tables

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**General surgery**
- 101.0017.1 Head plate
- 101.0116.1 Leg section
- 101.0019.0 Arm rest
- 101.0123.0 Wristlet
- 101.0177.0 Body restraint strap
- 101.0012.0 Anaesthetic frame
- 101.0111.0 Anaesthetic frame extension

**Gynaecology**
- DIAMOND 60 BLK with gyn. cutout
- 101.0017.1 Head plate
- 101.0116.1 Leg section
- 101.0019.0 Arm rest
- 101.0123.0 Wristlet
- 101.0012.0 Anaesthetic frame
- 101.0111.0 Anaesthetic frame extension

**Minimally invasive surgery/ Laparoscopy**
- DIAMOND 60 BLK with gyn. cutout
- 101.0017.1 Head plate
- 101.0116.1 Leg section
- 101.0019.0 Arm rest
- 101.0123.0 Wristlet
- 2x 101.0164.0 Leg restraint strap
- 101.0111.0 Anaesthetic frame extension
- 2x 101.0115.0 Göpel-type leg support
- 2x 101.0146.0 Clamp
**Rectum surgery**

OR table model with gyn. cutout
variant 1 in lithotomy position

- 101.0017.1 Head plate
- 2x 101.0115.0 Göpel-type leg support
- 2x 101.0146.0 Clamp
- 2x 101.0019.0 Arm rest
- 101.0010.0 Shoulder support (pair)
as an alternative to

- 101.0115.0/101.0146.0:
- 101.0570.0 Leg section ModuLeg

variant 2 in prone position

- 101.0017.1 Head section
- 101.0116.1 Leg section with gyn. cutout

- 2x 101.0019.0 Arm rest
- 101.0186.0 Knee/foot rest
- 2x 101.0190.0 Lateral support pad
- 2x 101.0146.0 Clamp

- 101.0012.0 Anaesthetic frame
- 101.0111.0 Anaesthetic frame extension

**ENT/OMFS**

DIAMOND 50 BK or 60 BLK
OR table model w/o gyn. cutout

variant 1

- 101.0017.1 Head plate
- 101.0332.0 Gel head ring
- 101.0116.1 Leg section

variant 2 - Reverse patient position
instead of the leg section

- 101.0441.0 OMFS plate

alternatively:

- 101.0141.0 Universal adaptor
- 101.0155.0 Horseshoe head rest
- 101.0363.0 Head rest connector
- 101.0116.1 Leg section

additionally, for all variants

- 2x 101.0019.0 Arm rest
- 101.0177.0 Body restraint strap

optionally foot control

**Ophthalmology**

Reverse patient position
DIAMOND 50 BK or 60 BLK
w/o gyn. cutout

variant 1

- 101.0131.0 Back section extension
- 101.0116.1 Leg section
- 101.0019.0 Arm rest
- 101.0141.0 Universal adaptor
- 101.0256.0 Horseshoe head rest with one-hand operation

variant 2

- 101.0441.0 OMFS plate
- 2x 101.0019.0 Arm rest

optionally foot control

**Kidney surgery/Thoracic surgery**

DIAMOND 50 BK or 60 BLK
with gyn. cutout

- 101.0017.1 Head plate
- 101.0116.1 Leg section
- 101.0010.0 Shoulder support (pair)
as an alternative to

- 101.0115.0/101.0146.0:
- 101.0570.0 Leg section ModuLeg

variant 2 in prone position

- 101.0017.1 Head section
- 101.0116.1 Leg section
- 101.0177.0 Body restraint strap
- 101.0363.0 Head rest connector

- 101.0116.1 Leg section

- 2x 101.0019.0 Arm rest

**Kidney surgery/Thoracic surgery**

DIAMOND 50 BK or 60 BLK
with gyn. cutout

- 101.0017.1 Head plate
- 101.0116.1 Leg section
- 101.0010.0 Shoulder support (pair)
as an alternative to

- 101.0115.0/101.0146.0:
- 101.0570.0 Leg section ModuLeg

variant 2 in prone position

- 101.0017.1 Head section
- 101.0116.1 Leg section
- 101.0177.0 Body restraint strap

- 101.0116.1 Leg section

- 2x 101.0019.0 Arm rest
- 101.0190.0 Lateral support pad
- 101.0178.0 Rectoscopy/Buttocks support
- 2x 101.0146.0 Clamp

- 101.0012.0 Anaesthetic frame
- 101.0111.0 Anaesthetic frame extension

**Kidney surgery/Thoracic surgery**

DIAMOND 50 BK or 60 BLK
with gyn. cutout

- 101.0017.1 Head plate
- 101.0116.1 Leg section
- 101.0010.0 Shoulder support (pair)
as an alternative to

- 101.0115.0/101.0146.0:
- 101.0570.0 Leg section ModuLeg

variant 2 in prone position

- 101.0017.1 Head section
- 101.0116.1 Leg section
- 101.0177.0 Body restraint strap

- 101.0116.1 Leg section

- 2x 101.0019.0 Arm rest
- 101.0190.0 Lateral support pad
- 101.0178.0 Rectoscopy/Buttocks support
- 2x 101.0146.0 Clamp

- 101.0012.0 Anaesthetic frame
- 101.0111.0 Anaesthetic frame extension
## Recommended accessories for DIAMOND operating tables

### Bariatric surgery
- OR table model with gyn. cutout
  - 101.0017.1 Head plate
  - 101.0116.1 Leg section with gyn. cutout
  - 101.0570.0 Leg section ModuLeg
  - 101.0194.0 Set of extension pads, 500 mm long (set of 2)
  - 101.0200.0 Set of extension pads, 300 mm long (set of 2)
- 2x 101.0019.0 Arm rest
- 101.0455.0 Body restraint strap
- 101.0012.0 Anaesthetic frame

### Vascular surgery
- DIAMOND 60 BLK w/o gyn. cutout
  - 101.0017.1 Head plate
  - 101.0116.1 Leg section
  - 101.0131.0 Back section extension, fixed
  - 2x 101.0019.0 Arm rest
  - 101.7151.0 Carbon plate
  - 2x 101.7152.0 Side rail for carbon plate

### Neurosurgery
- DIAMOND 50 BK or 60 BLK w/o gyn. cutout
  - 101.0116.1 Leg section w/o gyn. cutout
  - 101.0131.0 Back section extension
  - 101.0141.0 Universal adaptor
  - 101.0210.0 Shoulder plate
  - 101.0014.0 Cross-bar attachment
  - 2x 101.0131.0 Back section extension
  - optionally: Accessories for head positioning in radiolucent material

### Spinal surgery
- DIAMOND 60 BLK/40 LK w/o gyn. cutout
  - 101.0017.1 Head plate
  - 101.0116.1 Leg section
  - 101.0131.0 Back section extension, fixed
  - 101.7151.0 Carbon plate
  - 2x 101.7152.0 Side rail for carbon plate
  - 101.0355.0 Gel large prone positioner
  - 2x 101.0019.0 Arm rest
  - 101.0012.0 Anaesthetic frame
  - in knee-elbow position:
    - 101.0150.0 Knee-elbow positioning device
    - 2x 101.0190.0 Lateral support pad
    - 101.0178.0 Rectoscopy/buttocks support
    - 2x 101.0146.0 Clamps

### Recommended accessories for DIAMOND operating tables

#### Spinal surgery
- DIAMOND 60 BLK/40 LK w/o gyn. cutout
  - 101.0017.1 Head plate
  - 101.0116.1 Leg section
  - 101.0131.0 Back section extension, fixed
  - 101.7151.0 Carbon plate
  - 2x 101.7152.0 Side rail for carbon plate
  - optionally:
    - 101.0355.0 Gel large prone positioner
    - 2x 101.0019.0 Arm rest
    - 101.0012.0 Anaesthetic frame
    - in knee-elbow position:
      - 101.0150.0 Knee-elbow positioning device
      - 2x 101.0190.0 Lateral support pad
      - 101.0178.0 Rectoscopy/buttocks support
      - 2x 101.0146.0 Clamps

#### Neurosurgery
- DIAMOND 50 BK or 60 BLK w/o gyn. cutout
  - 101.0116.1 Leg section w/o gyn. cutout
  - 101.0131.0 Back section extension
  - 101.0141.0 Universal adaptor
  - 101.0210.0 Shoulder plate
  - 101.0014.0 Cross-bar attachment
  - 2x 101.0131.0 Back section extension
  - optionally: Accessories for head positioning in radiolucent material

#### Vascular surgery
- DIAMOND 60 BLK w/o gyn. cutout
  - 101.0017.1 Head plate
  - 101.0116.1 Leg section
  - 101.0131.0 Back section extension, fixed
  - 2x 101.0019.0 Arm rest
  - as an alternative to 101.0116.1:
    - 101.7151.0 Carbon plate
    - 2x 101.7152.0 Side rail for carbon plate

#### Spinal surgery
- DIAMOND 60 BLK/40 LK w/o gyn. cutout
  - 101.0017.1 Head plate
  - 101.0116.1 Leg section
  - 101.0131.0 Back section extension, fixed
  - 101.7151.0 Carbon plate
  - 2x 101.7152.0 Side rail for carbon plate
  - optionally:
    - 101.0355.0 Gel large prone positioner
    - 2x 101.0019.0 Arm rest
    - 101.0012.0 Anaesthetic frame
    - in knee-elbow position:
      - 101.0150.0 Knee-elbow positioning device
      - 2x 101.0190.0 Lateral support pad
      - 101.0178.0 Rectoscopy/buttocks support
      - 2x 101.0146.0 Clamps

#### Neurosurgery
- DIAMOND 50 BK or 60 BLK w/o gyn. cutout
  - 101.0116.1 Leg section w/o gyn. cutout
  - 101.0131.0 Back section extension
  - 101.0141.0 Universal adaptor
  - 101.0210.0 Shoulder plate
  - 101.0014.0 Cross-bar attachment
  - 2x 101.0131.0 Back section extension
  - optionally: Accessories for head positioning in radiolucent material

#### Vascular surgery
- DIAMOND 60 BLK w/o gyn. cutout
  - 101.0017.1 Head plate
  - 101.0116.1 Leg section
  - 101.0131.0 Back section extension, fixed
  - 2x 101.0019.0 Arm rest
  - as an alternative to 101.0116.1:
    - 101.7151.0 Carbon plate
    - 2x 101.7152.0 Side rail for carbon plate
**Lower limb trauma surgery**

OR table model w/o gyn. cutout

- 101.0017.1 Head plate
- 101.0270.0 Extension device with basic accessories:
  - 2 extension bar supports,
  - 2 foot plates for adults,
  - 2 traction boots for adults,
  - 1 countertraction post for dorsal position
- 101.0110.0 Mounting fixture
- 101.0250.0 Mounting arbor or 101.0260.0 Mounting arbor
- 101.0221.0 Transport trolley or 101.0250.0 Transport trolley
- 101.0491.0 Positioning plate for dorsal position
- 101.0324.0 Positioning plate for lateral position
- 101.0350.0 Countertraction post for lateral position
- 101.0218.0 Transfer leg plates
- 101.0019.0 Arm rest
- 101.0012.0 Anaesthetic frame
- 101.0137.0 Wristlet
- 101.0330.0 Disposable inner shoe

Add. for treatment of femur/neck of femur:

- 101.0115.0 Göpel-type leg support
- 101.0146.0 Clamp
- 101.0193.0 Side rail extension

Add. for treatment of tibial fracture:

- 101.0280.0 Traction device for tibial fractures

Add.: for hip arthroscopy:

- 101.0320.0 Pad
- 101.0310.0 Special shoe
- 101.0330.0 Disposable inner shoe

**Upper limb trauma surgery**

OR table model w/o gyn. cutout

- 101.0017.1 Head plate
- 101.0116.1 Leg section
- 101.0136.0 Humerus positioning device
- 101.0146.0 Clamp
- 101.0152.0 Humerus countertraction post
- 101.0146.0 Clamp
- 101.0163.1 Weinberger hand traction device
- 101.0122.0 Upper arm positioning device
- 101.0117.0 Clamp
- 101.0257.0 Axilla support
- 101.0258.0 Elbow support
- 101.0105.0 Traction unit
- 101.0123.0 Wristlet
- 101.0177.0 Body restraint strap

**Knee arthroscopy**

OR table model w/o gyn. cutout

- 101.0017.1 Head plate
- 101.0116.1 Leg section
- 101.0212.0 Knee positioning device
- 101.0146.0 Clamp

Alternatively:

- 101.0583.0 Knee arthroscopy support
- 101.0019.0 Arm rest
- 101.0012.0 Anaesthetic frame
- 101.0137.0 Wristlet

**Shoulder arthroscopy**

DIAMOND 50 BK or 60 BLK w/o gyn. cutout, beach chair position:

- 101.0244.0 Shoulder surgery plate
- 101.0116.1 Leg section
- 101.0266.0 Shaped head rest for shoulder surgery
- 101.0364.0 Head rest connector
- 101.0019.0 Arm rest
- 101.0177.0 Body restraint strap

Add.: for hip arthroscopy:

- 101.0320.0 Pad
- 101.0310.0 Special shoe
- 101.0330.0 Disposable inner shoe

In lateral position:

- 101.0253.0 Shoulder traction device
- 101.0265.0 Sterile arm trap
### DIAMOND Overview of models

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>170.4001.1</td>
<td><strong>DIAMOND 40 K</strong>&lt;br&gt;Universal operating table with electrohydraulic adjustment by means of optional hand-held control unit of 4 table functions: Raise/Lower, Lateral, Trendelenburg/Reverse Trendelenburg, Back section. Additional adjustment of these functions by means of optional detachable emergency control (electrohydraulic) model no. 101.0361.0 or emergency handwheels and foot pump (hydraulic). Optionally with or without gyn. cutout. Rechargeable batteries. Integrated battery charger with mains cable. Mobile on 4 double castors with central lock, 2 of which antistatic. 1 of the 4 castors with directional lock. Without head and leg plates, back section extension and hand control unit.</td>
</tr>
<tr>
<td>101.0227.0</td>
<td>5th directional caster&lt;br&gt;additional spring-loaded fifth directional caster for DIAMOND models, activated by dual-side foot pedal, not retrofittable.</td>
</tr>
<tr>
<td>101.0430.0</td>
<td>Double table top&lt;br&gt;for X-ray cassette insertion, for DIAMOND OR tables with gyn. cutout. (w/o ill.)</td>
</tr>
<tr>
<td>101.0361.0</td>
<td>Emergency control DIAMOND 40&lt;br&gt;detachable, cable-connected hand control for all adjustment functions of the table acc. to its hand/foot control, attached to the table column.</td>
</tr>
<tr>
<td>170.4002.1</td>
<td><strong>DIAMOND 40 LK</strong>&lt;br&gt;similar to DIAMOND 40 K model, but in addition: electrohydraulic longitudinal shift function of table-top by totally 300 mm for optimal use of image intensifier. Without head and leg plates, back section extension and hand control unit.</td>
</tr>
<tr>
<td>101.0227.0</td>
<td>5th directional caster&lt;br&gt;additional spring-loaded fifth directional caster for DIAMOND models, activated by dual-side foot pedal, not retrofittable.</td>
</tr>
<tr>
<td>101.0430.0</td>
<td>Double table top&lt;br&gt;for X-ray cassette insertion, for DIAMOND OR tables with gyn. cutout. (w/o ill.)</td>
</tr>
<tr>
<td>101.0361.0</td>
<td>Emergency control DIAMOND 40&lt;br&gt;detachable, cable-connected hand control for all adjustment functions of the table acc. to its hand/foot control, attached to the table column.</td>
</tr>
<tr>
<td>170.5500.1</td>
<td><strong>DIAMOND 50 BK</strong>&lt;br&gt;Universal operating table with electrohydraulic adjustment by means of optional hand-held control unit of 5 table functions: Raise/Lower, Lateral, Trendelenburg/Reverse Trendelenburg, Back section, Leg section. Additional adjustment of these functions by means of detachable emergency control (electrohydraulic) or emergency handwheels and foot pump (hydraulic). With memory function for 8 freely selectable positions and custom 0 position. Optionally with or without gyn. cutout. Rechargeable batteries. Integrated battery charger with mains cable. Mobile on 4 double castors with central lock, 2 of which antistatic. 1 of the 4 castors with directional lock. Without head and leg plates, back section extension and hand control unit.</td>
</tr>
<tr>
<td>101.0227.0</td>
<td>5th directional caster&lt;br&gt;additional spring-loaded fifth directional caster for DIAMOND models, activated by dual-side foot pedal, not retrofittable.</td>
</tr>
<tr>
<td>101.0430.0</td>
<td>Double table top&lt;br&gt;for X-ray cassette insertion, for DIAMOND OR tables with gyn. cutout. (w/o ill.)</td>
</tr>
<tr>
<td>101.0361.0</td>
<td>Emergency control DIAMOND 40&lt;br&gt;detachable, cable-connected hand control for all adjustment functions of the table acc. to its hand/foot control, attached to the table column.</td>
</tr>
<tr>
<td>170.6000.1</td>
<td><strong>DIAMOND 60 BLK</strong>&lt;br&gt;Similar to DIAMOND 50 BK, but in addition: Electro-hydraulic longitudinal shift function of table-top by totally 300 mm for optimal use of image intensifier. Without head and leg sections, back section extension and hand control unit.</td>
</tr>
<tr>
<td>101.0227.0</td>
<td>5th directional caster&lt;br&gt;additional spring-loaded fifth directional caster for DIAMOND models, activated by dual-side foot pedal, not retrofittable.</td>
</tr>
<tr>
<td>101.0430.0</td>
<td>Double table top&lt;br&gt;for X-ray cassette insertion, for DIAMOND OR tables with gyn. cutout. (w/o ill.)</td>
</tr>
<tr>
<td>101.0213.0</td>
<td>Surcharge for 80 mm pads&lt;br&gt;for all DIAMOND models. (w/o ill.)</td>
</tr>
</tbody>
</table>
### Control elements

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
</table>
| 101.0380.1    | **Hand control unit, cable-connected**  
Plastic casing, sealed against ingress of fluids, cable-connected.  
Illuminated TFT display indicating all status information of the table.  
Backlit keyboard for all adjustment functions.  
For DIAMOND 50/60 models. |
| 101.0590.1    | **Hand control unit, cable-connected**  
Similar to 101.0380.1, but for DIAMOND 40 models, without buttons for movement of electrohydraulic leg section joint. (w/o ill.) |
| 101.0214.1    | **Hand control unit, Bluetooth**  
Plastic casing, sealed against ingress of fluids, wireless Bluetooth connection.  
Illuminated TFT display indicating all status information of the table.  
Backlit keyboard for all adjustment functions.  
Requires Bluetooth preparation 101.0391.1 and charging cradle 101.0356.0, 101.0357.0 or 101.0358.0!  
For DIAMOND 50/60 models. |
| 101.0591.1    | **Hand control unit, Bluetooth**  
Similar to 101.0214.1, but for DIAMOND 40 models, without buttons for movement of electrohydraulic leg section joint.  
Requires Bluetooth preparation 101.0391.1 and charging cradle 101.0356.0, 101.0357.0 or 101.0358.0! (w/o ill.) |
| 101.0206.1    | **Foot control, cable-connected**  
Cast aluminium casing, sealed against ingress of fluids, antiskid, cable-connected.  
For all table adjustment functions analogous to its hand-held control.  
Backlit TFT display for easy navigation, control panel illuminated by LEDs in the foot bar (for MIS).  
Activation key and “Return to zero” key. Can be connected to the table at the same time as the hand-held control unit. Requires preparation for foot control 101.0397.0.  
For DIAMOND 50/60 models. |
| 101.0359.0    | **Foot control, cable-connected**  
For DIAMOND 40 models, similar to 101.0206.1, without electrohydraulic leg section adjustment function. Requires preparation for foot control 101.0397.0! (w/o ill.) |
| 101.0397.0    | **Preparation for cable-connected foot control**  
Preparation of DIAMOND operating table for use of a cable-connected foot control unit.  
(w/o ill.) |
| 101.0216.1    | **Foot control, Bluetooth**  
Cast aluminium casing, sealed against ingress of fluids, antiskid, wireless Bluetooth connection.  
For all table adjustment functions analogous to its hand-held control.  
Backlit TFT display for easy navigation, control panel illuminated by LEDs in the foot bar (for MIS).  
Activation key and “Return to zero” key.  
Can be connected to the table at the same time as the hand-held control unit.  
Incl. power supply unit for recharging the control unit.  
Requires Bluetooth preparation 101.0391.1!  
For DIAMOND 50/60 models. |
| 101.0360.0    | **Foot control, Bluetooth**  
For DIAMOND 40 models, similar to 101.0216.1, however without electrohydraulic leg section adjustment function (w/o ill.) |
| 101.0391.1    | **Bluetooth preparation**  
Preparation of DIAMOND operating table for use of Bluetooth hand and foot control unit. (w/o ill.) |

We recommend to always have the table equipped with the Bluetooth preparation in order to be able to profit from the advantages of the Bluetooth system even at a later date.

The Bluetooth control units for DIAMOND 40 models are only available in conjunction with a cable-connected control unit! Please take this into account when placing your order.
Please provide an appropriate charging cradle for your Bluetooth hand control!
<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
</table>
| 101.0356.0 | **Charging cradle, pedestal version**  
for DIAMOND operating tables, pedestal version, charging cradle for inductive charging of Bluetooth hand control unit, with LED status display, incl. mains adaptor. You can continue using the hand control while it is charging in the charging cradle. |
| 101.0357.0 | **Charging cradle, wall mount**  
same as charging cradle 101.0356.0, but wall-mounted version. |
| 101.0358.0 | **Charging cradle, side rail**  
same as charging cradle 101.0356.0, but version for attaching to side rail. |
### Basic equipment

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>101.0017.1</td>
<td><strong>Head plate</strong>&lt;br&gt;double-adjustment, automatic latching of pad inclination, integrated gas spring for weight compensation, detachable.</td>
</tr>
<tr>
<td>101.0480.0</td>
<td><strong>Double table top</strong>&lt;br&gt;for X-ray cassette insertion, for head plate 101.0017.1. (w/o ill.)</td>
</tr>
<tr>
<td>101.0145.1</td>
<td><strong>Leg section</strong>&lt;br&gt;one-section type, additional manual folding with gas spring assistance, detachable.</td>
</tr>
<tr>
<td>101.0490.0</td>
<td><strong>Double table top</strong>&lt;br&gt;for X-ray cassette insertion, for leg plate 101.0145.1. (w/o ill.)</td>
</tr>
<tr>
<td>101.0116.1</td>
<td><strong>Leg section</strong>&lt;br&gt;split type, fold-down, swivelling via latching mechanism, sealed against fluids, integrated gas spring for weight compensation, detachable, with carrying handles. <strong>Optionally without gyn. cutout.</strong></td>
</tr>
<tr>
<td>101.0500.0</td>
<td><strong>Double table top</strong>&lt;br&gt;for X-ray cassette insertion, for leg plates 101.0116.1. (w/o ill.)</td>
</tr>
<tr>
<td>101.0131.0</td>
<td><strong>Back section extension, fixed</strong>&lt;br&gt;to be attached to the short back section, length 280 mm.</td>
</tr>
<tr>
<td>101.0510.0</td>
<td><strong>Double table top</strong>&lt;br&gt;for X-ray cassette insertion, for back section extension, fixed 101.0131.0. (w/o ill.)</td>
</tr>
<tr>
<td>101.0159.0</td>
<td><strong>Back section extension, inclinable</strong>&lt;br&gt;to be attached to the short back section, for stretching patient’s upper body in thoracic surgery and abdominal interventions, electromotive downward tilt up to 40°, length 300 mm including adapted pad for head section.</td>
</tr>
<tr>
<td>101.0238.0</td>
<td><strong>Preparation for electr. adj. accessory</strong>&lt;br&gt;Preparation of DIAMOND operating table for electrically adjustable accessory. (w/o ill.)</td>
</tr>
<tr>
<td>101.0580.0</td>
<td><strong>Double table top</strong>&lt;br&gt;for X-ray cassette insertion, for back section extension, inclinable 101.0159.0. (w/o ill.)</td>
</tr>
<tr>
<td>Model No.</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>101.0171.0</td>
<td><strong>Leg section</strong>&lt;br&gt;four-part, front part foldable down to 155°, swivelling via latching mechanism, detachable.&lt;br&gt;<strong>Optionally without gyn. cutout.</strong></td>
</tr>
<tr>
<td>101.0540.0</td>
<td><strong>Double table top</strong>&lt;br&gt;for X-ray cassette insertion, for leg plates 101.0171.0.&lt;br&gt;(w/o ill.)</td>
</tr>
</tbody>
</table>

A closed construction allows easy cleaning, thus meeting the highest demands of hygiene.

A dual safety system for adjusting the leg plate prevents an accidental folding of the lower segment.

The folding function can only be carried out after releasing the safety lever and triggering the safety handle.

For further accessories, see catalogue no. 92.
DIAMOND
Technical data

Configuration

- Length of table-top: 960 mm
- Length of head section: 300 mm
- Length of leg section: 700 mm
- Width of table-top: 550 mm
- Overall width: 600 mm
- Table footprint (length x width): 1,140 mm x 705 mm
- Diameter of double castors: 125 mm
- Height adjustment range (w/o pads):
  - DIAMOND 40 K: 615 mm - 1,115 mm
  - DIAMOND 50 BK: 620 mm - 1,120 mm
- Incl. longitudinal shift function:
  - DIAMOND 40 LK: 665 mm - 1,165 mm
  - DIAMOND 60 BLK: 680 mm - 1,180 mm
- Trendelenburg, electrohydraulic: 30°
- Reverse Trendelenburg, electrohydraulic: 30°
- Lateral adjustment, electrohydraulic: +/- 20°
- Longitudinal shift (DIAMOND 40 LK and DIAMOND 60 BLK): approx. 300 mm
- Radiolucent area, DIAMOND 60 BLK/40 LK:
  - with longitudinal shift: 2,260 mm
  - with head & leg sections and back section extension, totally: 1,760 mm
- Back section, electrohydraulic:
  - with head & leg sections and back section extension, totally:
    - with carbon plate (see image on page 14)
    - 40°/+ 70°
    - 20°/+ 90°
- Electrohydraulic inclination of leg section (DIAMOND 50 BK and 60 BLK):
  - -90°/+ 70°
- Manual inclination of leg section, gas spring assisted:
  - -90°/+ 10°
- Spread angle of leg plates: 120°
- Inclination of head section, gas spring assisted:
  - -45°/+ 25°
- Tilt angle of head section pad: 25°
- Total weight incl. head and leg sections: approx. 280 kg
- Total weight capacity: up to 454 kg
- Safe working load: up to 360 kg
- Battery operation
- Integrated battery charger/mains adaptor
- Emergency operation via mains power supply
- Mechanical emergency override of all hydraulic functions
- Voltage range of mains adaptor: 115 V/230 V, 50/60 Hz

Standard configuration:
- Two-section, radiolucent table-top composed of:
  - Back section
  - Seat section with cutout for gynaecology (optionally also without gyn. cutout)
- Electrohydraulic adjustment functions:
  - High/Low
  - Trendelenburg/Reverse Trendelenburg
  - Lateral tilt
  - Back section
  - Leg plates (DIAMOND 50 BK and DIAMOND 60 BLK)
  - Longitudinal shift function (DIAMOND 40 LK and DIAMOND 60 BLK)
- Override systems:
  - Independent adjustment of table functions by means of detachable emergency control panel (for DIAMOND 40 models: available as an option), electrohydraulic and emergency control handwheels at the column and foot pump (hydraulic).
- Radiolucent table-top, SAF mattress, 60 mm thick, antistatic. Stainless steel table frame construction, sandblasted and electropolished, disinfection-proof.
- Stainless steel side rails 25 x 10 mm on both sides of the table-top for attachment of accessories, telescopic height adjustment column with stainless steel cover.
- Table base cover of impact-proof ABS, colour silver-grey, with two inlaid SST plates to protect the cover, SST floor pan. All SST elements are made of high-grade material, EN steel number 1.4301. Chassis with 4 double castors, with central lock, 2 of which antistatic. 1 of the 4 castors with directional lock. 5th spring-loaded directional castor, activated by foot pedal on both sides (optional accessory). Table with return-to-zero function and crash detection (performance features depending on model). Memory function and individual setting of 0 position (DIAMOND 50 and 60 models). Input voltage at power supply: 115 V/230 V, 50/60 Hz.

Note!
We recommend an annual service check and maintenance of the operating tables.

For further information on DIAMOND please visit our website www.schmitz-soehne.com!
Trendelenburg/Reverse Trendelenburg

Leg section adjustment

Longitudinal shift and radiolucent area

Height adjustment range (e.g. DIAMOND 50 BK)

Back section extension, inclinable

Reflex

Flex

Back section adjustment

Lateral

Back section adjustment with shoulder surgery plate

90° 30° 70°

150 mm

2430 mm

150 mm

620 – 1120 mm

40° 20° 20° 40° 70° 220°
DIAMOND
Recommended Configuration Options

101.0155.0 Horseshoe head rest
101.0179.0 Horseshoe head rest
101.0363.0 Head rest connector
101.0017.1 Head plate
101.0141.0 Universal adaptor
101.0159.0 Back section extension, el. inclinable
101.0131.0 Back section extension, fixed
101.7151.0 Carbon plate
For further accessories, please see our catalogue no. 92. Additional configuration options are described in the operating manual.
We have been certified acc. to DIN EN ISO 9001:2008

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