

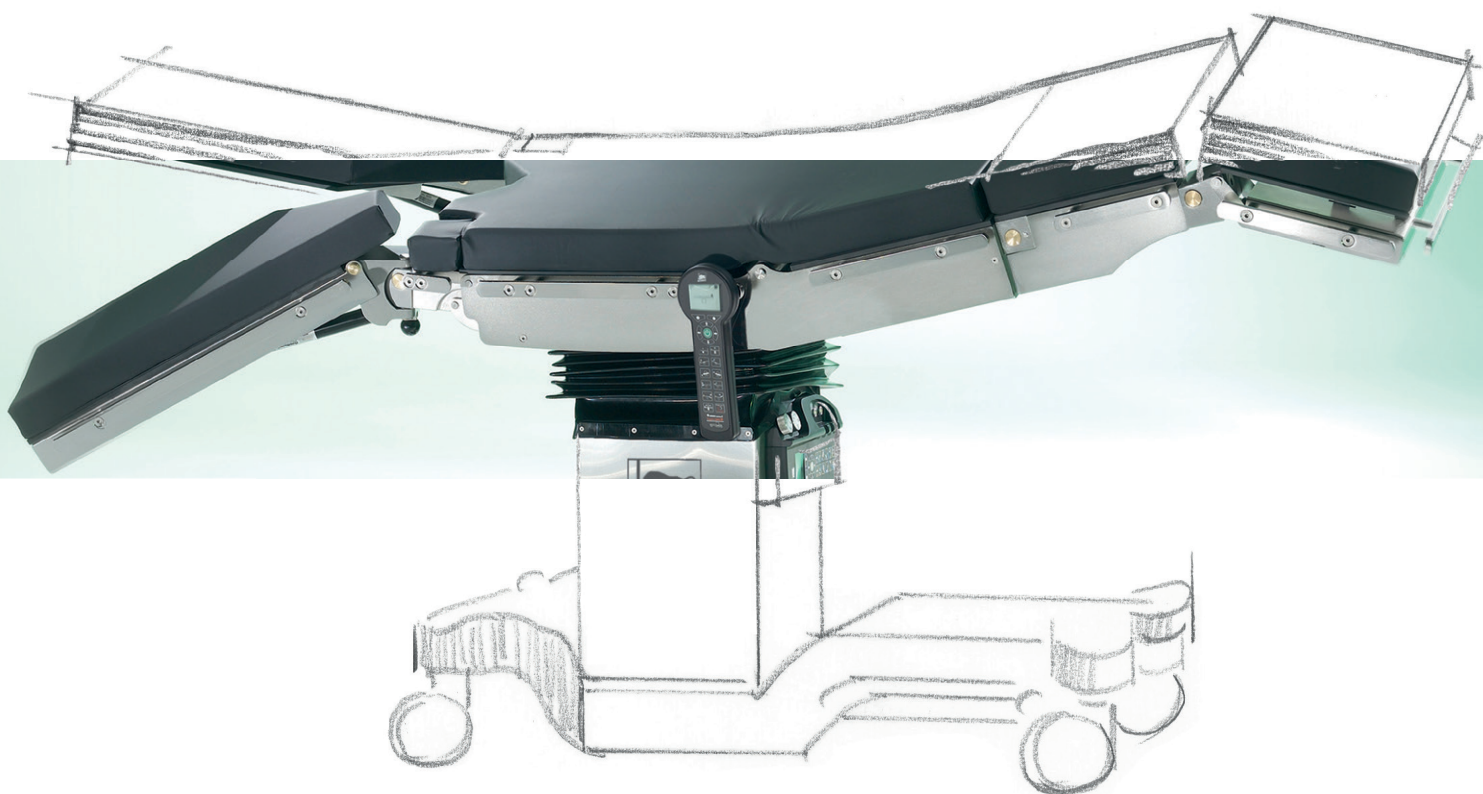


**SCHMITZ**

A SENSE OF CONFIDENCE

# 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



reddot design award

Made in Germany



## 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 ...

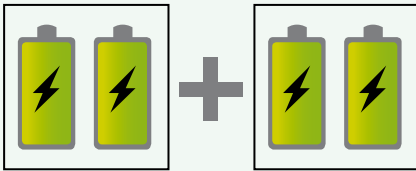
2

... 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





**Dual Energy System**

4



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.



5

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.



6

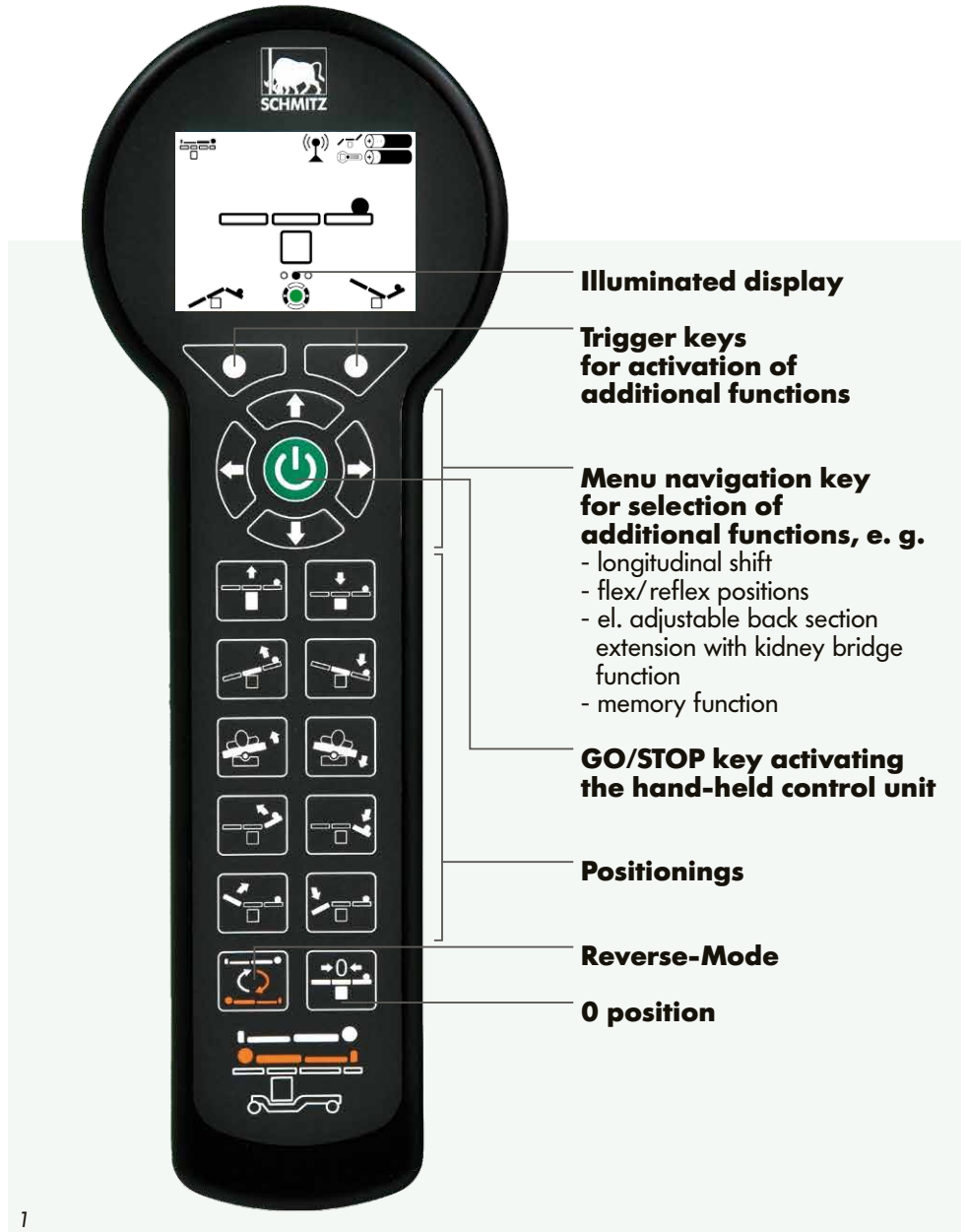
# Security for operational readiness and patient

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 backlit keypad.

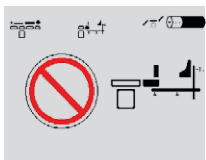
2  
**Foot control**  
 (optionally: wireless foot control unit, transmission of signals via Bluetooth technology)



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

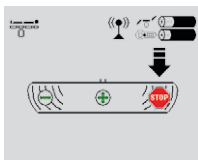
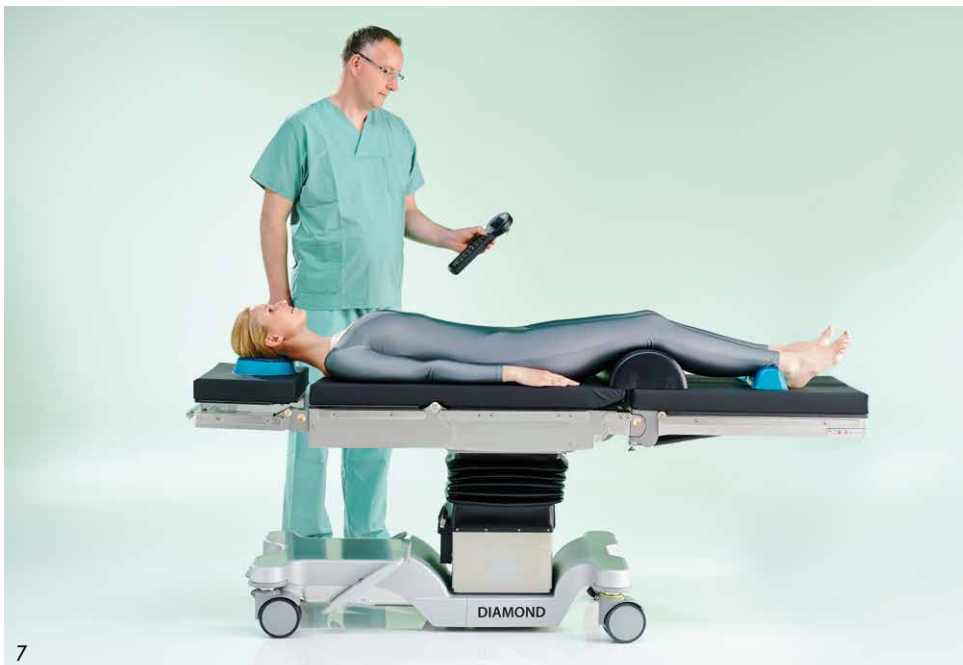
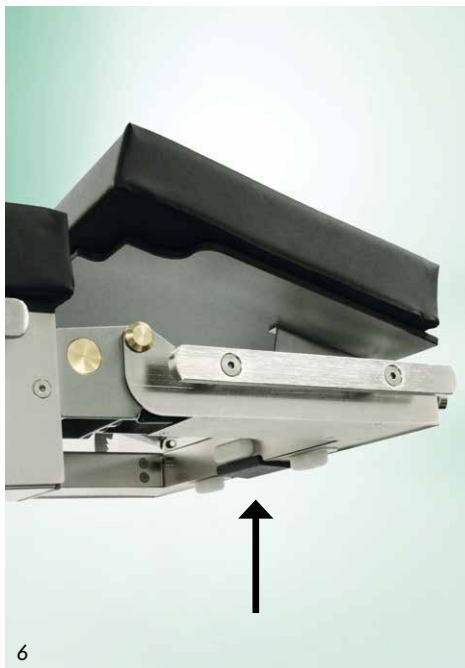
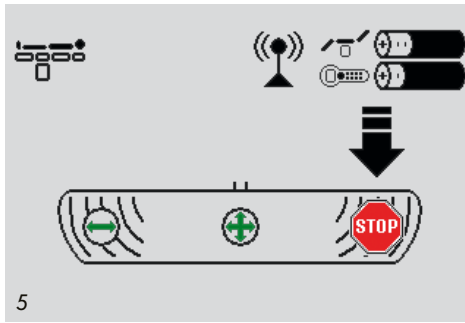


Table locking advice

See page 35 for more control elements.





3 **Memory foam pads** provide an efficient decubitus prophylaxis, reduce body heat loss and provide at the same time an enhanced comfort to the patient.

4 **Integrated sensors** alert the user visually via the display, acoustically by means of a warning beep and tactilely 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).

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

6 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.

7 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.

8 Tested for safety following the **CB scheme according to IEC 60601** by an independent and authorized German testing institute.

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME		Ref. Certif. No. <b>DE1-53353</b>
<b>CB TEST CERTIFICATE / CERTIFICAT D'ESSAI OC</b>		
Product Produit	Operating table	
Name and address of the applicant Nom et adresse du demandeur	Schmitz u. Söhne GmbH & Co. KG Zum Ostentfeld 29, 58739 Wickede (Ruhr) GERMANY	
Name and address of the manufacturer Nom et adresse du fabricant	Schmitz u. Söhne GmbH & Co. KG Zum Ostentfeld 29, 58739 Wickede (Ruhr) GERMANY	
Name and address of the factory Nom et adresse de l'usine	Schmitz & Söhne GmbH & Co. KG Werk Boenen Rieshoff-Diesel-Straße 5, 59159 Boenen GERMANY	
Note: When every plus plus entry, please report on page 2 Note: Lorsque chaque plus plus entrée, veuillez indiquer sur la page 2	<input type="checkbox"/> Additional information on page 2	
Rating and principal characteristics Valeurs nominales et caractéristiques principales	AC 110 - 120 V, AC 220 - 240 V, 50/60 Hz, max. 2 A	
Trademark (if any) Marque de fabrication (si elle existe)		
Type of Manufacturer's Testing Laboratories used Type de programme de laboratoires d'essais constructeur	<input type="checkbox"/> Additional information on page 2	
Model / Type Ref. Ref. De type	diamond 40, diamond 50, diamond 60	
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiquées sur la 2 <sup>ème</sup> page)	<input type="checkbox"/> Additional information on page 2	
A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à	IEC 60601-1 (ed.3) am1 IEC 60601-2-46 (Ed.2)	
As shown in the Test Report Ref. No. which forms part of this Certificate Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat	193934-AS2-1	
This CB Test Certificate is issued by the National Certification Body Ce Certificat d'essai OC est établi par l'Organisme National de Certification		
VDE Prüf- und Zertifizierungsinstitut GmbH VDE Testing and Certification Institute Zertifizierung Produkte / Certification Products		Signature:
IEC 2014-12-03		

# 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)



2

8





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.



6

# Hygiene

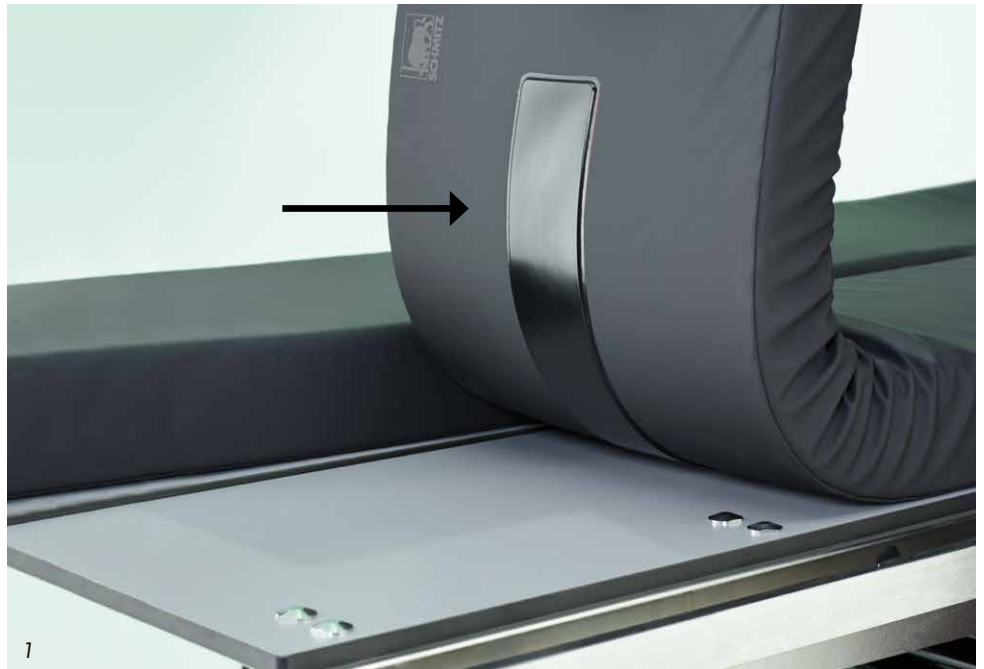
1  
**A fixation of the pads by means of adhesive gel strips** provides optimal retention of the pads. The adhesive gel strips are **disinfection-proof** creating optimised hygienic conditions inside the OR theatre.

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.



# Mobility



5



5



5+6

5  
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.

5+6  
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



MIS



Positioning of bariatric patients using extension pads no. 101.0194.0



High weight capacity up to 454 kg

# Longitudinal adjustment





**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.







**Generous height adjustment range**

Optimal access to the surgical field in both standing and sitting surgery. Fatigue-free and ergonomic surgical work.



**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.



# Positionings



Thoracic surgery/kidney position



Gall bladder surgery



Breast surgery



Breast surgery



Vascular surgery



Ophthalmology



ENT



OMFS

# 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



Neurosurgery/ Spinal surgery



Neurosurgery

# Positionings



Shoulder arthroscopy

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







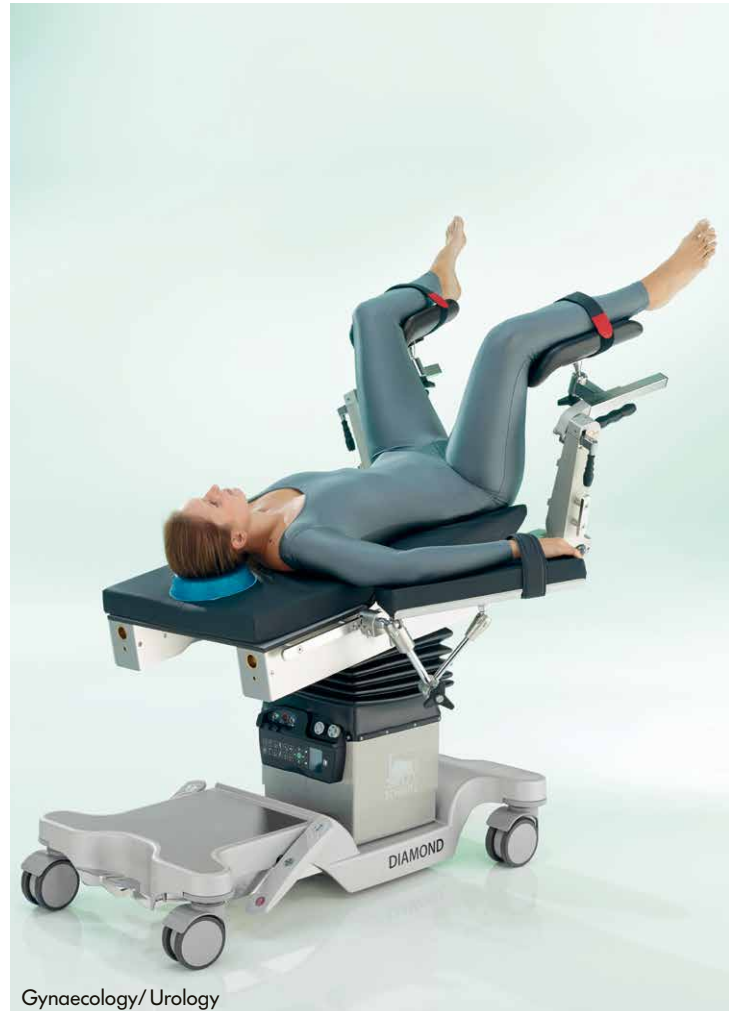
Positioning for gynaecology/urology using the leg section ModuLeg



Patient preparation Gynaecology/Urology

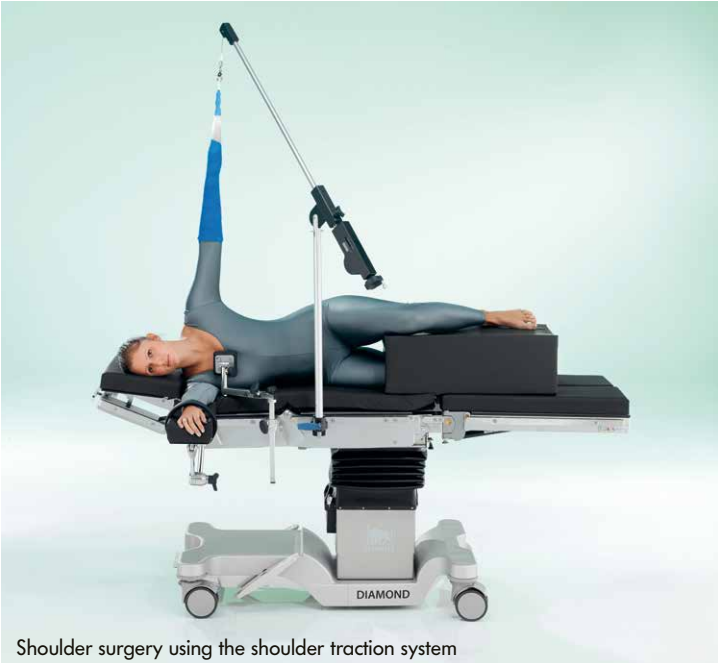


Removable thigh plates



Gynaecology/Urology

# Positionings





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<sup>®</sup> RotexTable



# Positionings for spinal surgery using Allen® Spine System



# Recommended accessories for DIAMOND operating tables

## 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 w/o gyn. cutout

alternatively:

- 101.0218.0 Transfer leg plates

- 2x 101.0115.0 Göpel-type leg support

- 2x 101.0146.0 Clamp

alternatively:

- 101.0217.0 Göpel-type leg support
- Cysto-Lift (pair)

- 101.0019.0 Arm rest
- 101.0123.0 Wristlet
- 101.0012.0 Anaesthetic frame
- 101.0111.0 Anaesthetic frame extension

## Urology/TUR

- DIAMOND 60 BLK/40 LK with gyn. cutout
- 101.0017.1 Head plate
- 101.0116.1 Leg section
- alternatively:
- 101.0218.0 Transfer leg plates
- 101.0204.0 Gyn. adaptor
- 101.0593.0 Rinsing basin with outlet
- 101.0191.0 TUR sieve
- 2x 101.0115.0 Göpel-type leg
- 2x 101.0146.0 Clamp
- 101.0129.0 Elbow rests (pair)
- alternatively for TUR:
- 101.0584.0 Gyro flushing basin
- 101.0588.0 TUR sieve

- 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
- alternatively:
- 101.0218.0 Transfer leg plates
- optionally:
- 101.0019.0 Arm rest
- 101.0123.0 Wristlet
- 2x 101.0164.0 Leg restraint strap
- 101.0012.0 Anaesthetic frame
- 101.0111.0 Anaesthetic frame extension

- 2x 101.0115.0 Göpel-type leg support
- 2x 101.0146.0 Clamp



General surgery



Gynaecology



Urology/TUR



MIS/Laparoscopy



ENT/OMFS



Ophthalmology



Rectum surgery



Kidney surgery/Thoracic surgery

## 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

## 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
- 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  
w/o gyn. cutout

alternatively:

- 101.0159.0 Back section extension,  
inclined
- 101.0352.0 Gel lateral leg positioner
- 3x 101.0121.0 Support
- 2x 101.0162.0 Back/ Buttock support
- 101.0175.0 Pubis support
- 2x 101.0192.0 Arm rest
- 101.0177.0 Body restraint strap
- 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

alternatively:

- 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
- 101.0368.0 Foot plate (pair)
- 101.0010.0 Shoulder support (pair)
- 101.0185.0 Leg restraint strap

as an alternative to the variants  
using leg sections:

- 101.0219.0 Göpel-type leg support  
heavy-duty (pair)

- 2x 101.0147.0 Clamp

- 101.0012.0 Anaesthetic frame
- 101.0111.0 Anaesthetic frame  
extension

## 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

alternatively:

- 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

## 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

## Neurosurgery

DIAMOND 50 BK or 60 BLK

w/o gyn. cutout

- 101.0116.1 Leg section  
w/o gyn. cutout

in supine/prone position:

- 101.0131.0 Back section extension

- 101.0141.0 Universal adaptor

- 101.0113.0 Doro Skull Clamp  
adaptor

- 101.0142.0 Doro Universal basic unit

- 101.0127.0 Doro Skull Clamp

in beach chair position:

- 101.0210.0 Shoulder plate

- 101.0014.0 Cross-bar attachment

- 2x 101.0018.0 Clamp

- 101.0113.0 Doro Skull Clamp  
adaptor

- 101.0142.0 Doro Universal basic unit

- 101.0127.0 Doro Skull Clamp

- 2x 101.0019.0 Arm rest

as an alternative to the shoulder plate:

- 2x 101.0131.0 Back section extension

alternatively: Accessories for  
head positioning in radiolucent material



Bariatric surgery



Spinal surgery



Vascular surgery



Neurosurgery





Lower limb trauma surgery



Upper limb trauma surgery



Knee arthroscopy



Shoulder arthroscopy

### 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  
 101.0290.0 Transport trolley  
 or  
 101.0221.0 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  
 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  
 101.0165.0 Kirschner wire device  
 101.0254.0 Condyle fixation  
 101.0115.0 Göpel-type leg support  
 101.0146.0 Clamp  
 101.0193.0 Side rail extension  
 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  
 101.0171.0 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  
 2x 101.0019.0 Arm rest  
 101.0177.0 Body restraint strap  
 in lateral position:  
 101.0253.0 Shoulder traction device  
 101.0265.0 Sterile arm trap

# DIAMOND

## Overview of models

Model No.

Description



**170.4001.1**

**DIAMOND 40 K**

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.**

**101.0227.0**

**5<sup>th</sup> directional castor**

additional spring-loaded fifth directional castor for DIAMOND models, activated by dual-side foot pedal, not retrofittable.

**101.0430.0**

**Double table top**

for X-ray cassette insertion, for DIAMOND OR tables with gyn. cutout. (w/o ill.)

**101.0361.0**

**Emergency control DIAMOND 40**

detachable, cable-connected hand control for all adjustment functions of the table acc. to its hand/foot control, attached to the table column.



**170.4002.1**

**DIAMOND 40 LK**

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.**

**101.0227.0**

**5<sup>th</sup> directional castor**

additional spring-loaded fifth directional castor for DIAMOND models, activated by dual-side foot pedal, not retrofittable.

**101.0430.0**

**Double table top**

for X-ray cassette insertion, for DIAMOND OR tables with gyn. cutout. (w/o ill.)

**101.0361.0**

**Emergency control DIAMOND 40**

detachable, cable-connected hand control for all adjustment functions of the table acc. to its hand/foot control, attached to the table column.



**170.5500.1**

**DIAMOND 50 BK**

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.**

**101.0227.0**

**5<sup>th</sup> directional castor**

additional spring-loaded fifth directional castor for DIAMOND models, activated by dual-side foot pedal, not retrofittable.

**101.0430.0**

**Double table top**

for X-ray cassette insertion, for DIAMOND OR tables with gyn. cutout. (w/o ill.)



**170.6000.1**

**DIAMOND 60 BLK**

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.**

**101.0227.0**

**5<sup>th</sup> directional castor**

additional spring-loaded fifth directional castor for DIAMOND models, activated by dual-side foot pedal, not retrofittable.

**101.0430.0**

**Double table top**

for X-ray cassette insertion, for DIAMOND OR tables with gyn. cutout. (w/o ill.)

**101.0213.0**

**Surcharge for 80 mm pads**

for all DIAMOND models. (w/o ill.)

# Control elements

Model No.

Description



**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.**

# Control elements



**Please provide an appropriate charging cradle for your Bluetooth hand control!**

Model No. Description

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**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.

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**101.0357.0** **Charging cradle, wall mount**  
same as charging cradle 101.0356.0, but wall-mounted version.

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**101.0358.0** **Charging cradle, side rail**  
same as charging cradle 101.0356.0, but version for attaching to side rail.

# Basic equipment

	Model No.	Description
	<b>101.0017.1</b>	<b>Head plate</b> double-adjustment, automatic latching of pad inclination, integrated gas spring for weight compensation, detachable.
	<b>101.0480.0</b>	<b>Double table top</b> for X-ray cassette insertion, for head plate 101.0017.1. (w/o ill.)
	<b>101.0145.1</b>	<b>Leg section</b> one-section type, additional manual folding with gas spring assistance, detachable.
	<b>101.0490.0</b>	<b>Double table top</b> for X-ray cassette insertion, for leg plate 101.0145.1. (w/o ill.)
	<b>101.0116.1</b>	<b>Leg section</b> split type, fold-down, swivelling via latching mechanism, sealed against fluids, integrated gas spring for weight compensation, detachable, with carrying handles.
	<b>101.0500.0</b>	<b>Optionally without gyn. cutout.</b> <b>Double table top</b> for X-ray cassette insertion, for leg plates 101.0116.1. (w/o ill.)
	<b>101.0131.0</b>	<b>Back section extension, fixed</b> to be attached to the short back section, length 280 mm.
	<b>101.0510.0</b>	<b>Double table top</b> for X-ray cassette insertion, for back section extension, fixed 101.0131.0. (w/o ill.)
	<b>101.0159.0</b>	<b>Back section extension, inclinable</b> 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.
	<b>101.0238.0</b>	<b>Preparation for electr. adj. accessory</b> Preparation of DIAMOND operating table for electrically adjustable accessory. (w/o ill.)
	<b>101.0580.0</b>	<b>Double table top</b> for X-ray cassette insertion, for back section extension, inclinable 101.0159.0. (w/o ill.)



Front section foldable down to 155°



Closed construction

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



Safety lever

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



Safety handle

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

Model No.

Description

**101.0171.0**

**Leg section**

four-part, front part foldable down to 155°, swivelling via latching mechanism, detachable.

**Optionally without gyn. cutout.**

**101.0540.0**

**Double table top**

for X-ray cassette insertion, for leg plates 101.0171.0. (w/o ill.)

**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	
- with head & leg sections and back section extension, totally	2,260 mm
- with carbon plate (see image on page 14)	1,760 mm
Back section, electrohydraulic	- 40°/+ 70°
- with shoulder surgery plate	- 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 equipment

#### 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](http://www.schmitz-soehne.com)!

#### 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:

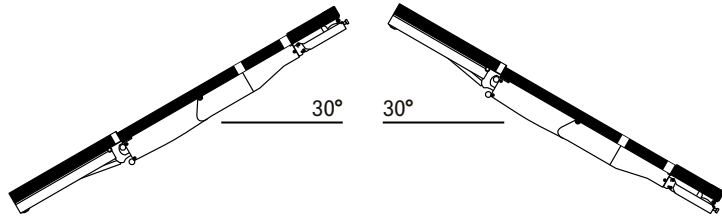
- High/Low
- Trendelenburg/ Reverse Trendelenburg
- Lateral tilt
- Back section
- Leg plates (DIAMOND 50 BK and DIAMOND 60 BLK)
- Longitudinal shift function (DIAMOND 40 LK and DIAMOND 60 BLK)

#### Override systems:

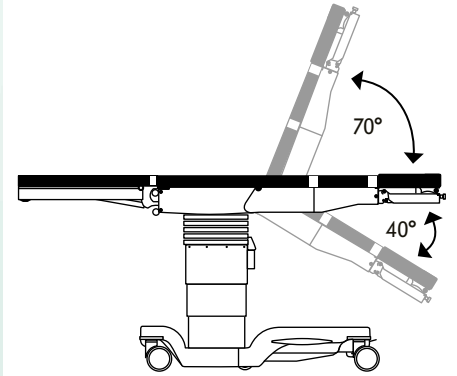
Independent adjustment of table functions by means of detachable emergency control panel (for DIAMOND 40 models: available as an option), electrohydraulic and emergency control handwheels at the column and foot pump (hydraulic).

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.

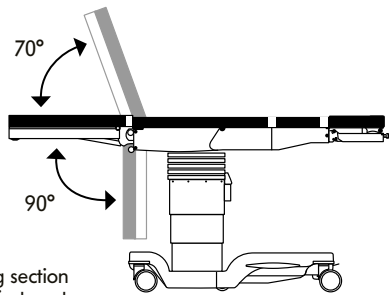




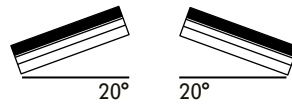
Trendelenburg/Reverse Trendelenburg



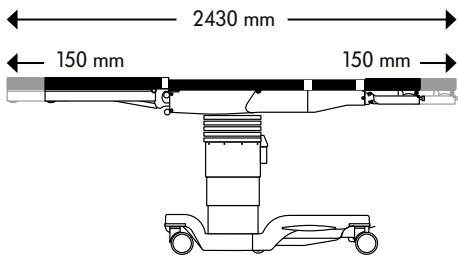
Back section adjustment



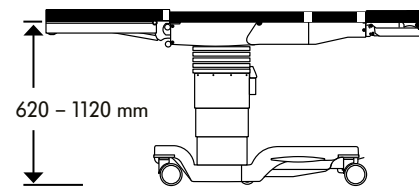
Leg section adjustment



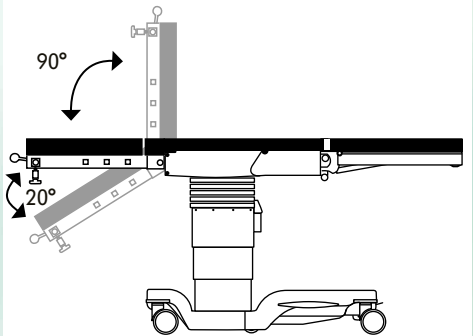
Lateral



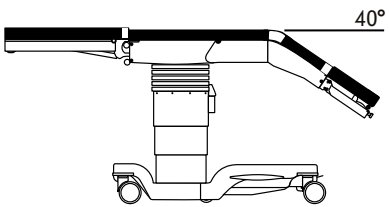
Longitudinal shift and radiolucent area



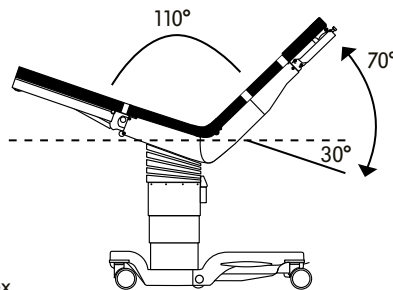
Height adjustment range (e.g. DIAMOND 50 BK)



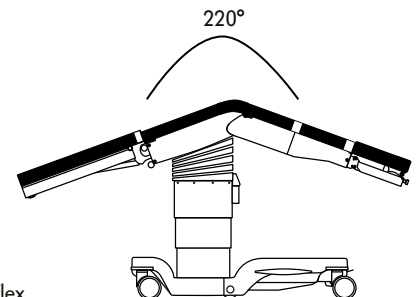
Back section adjustment with shoulder surgery plate



Back section extension, inclinable



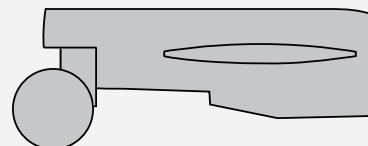
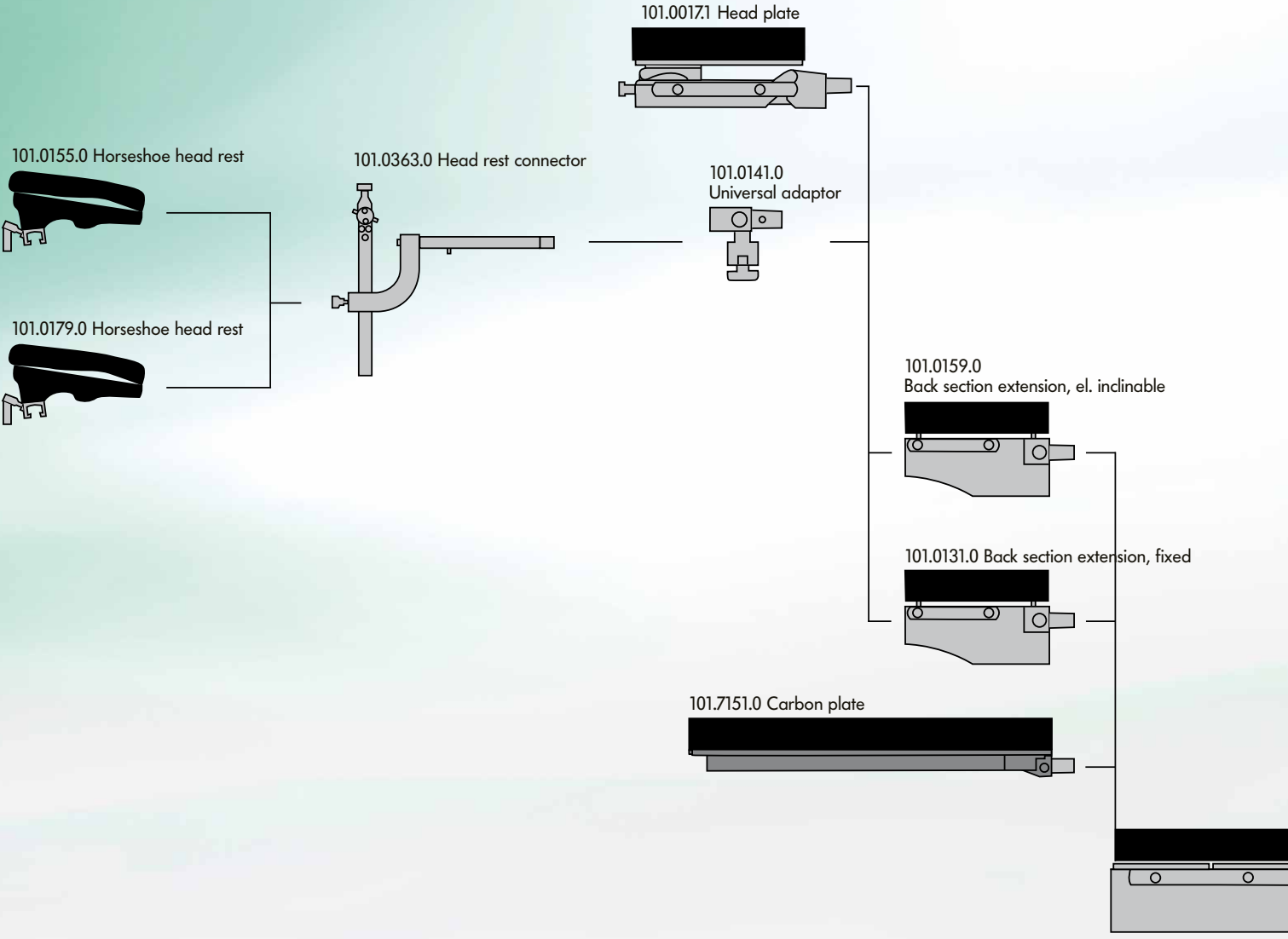
Reflex

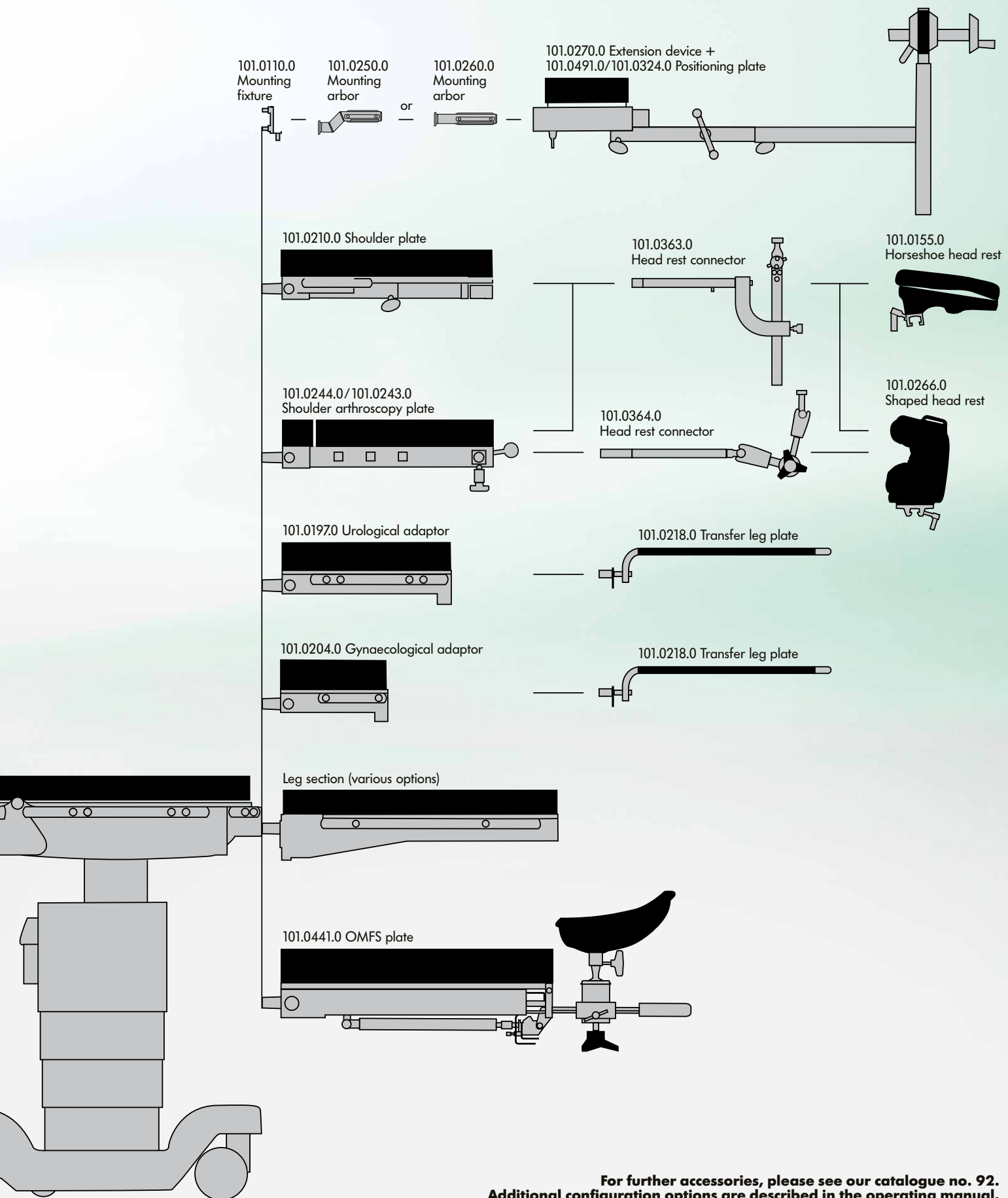


Flex

# DIAMOND

## Recommended Configuration Options





**For further accessories, please see our catalogue no. 92.  
Additional configuration options are described in the operating manual.**

**SCHMITZ u. Söhne  
GmbH & Co. KG**

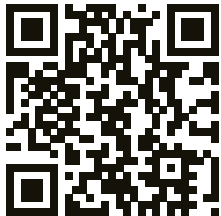
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service@schmitz-soehne.de

All articles including correspond-  
ing accessories marked with  
the CE label meet the standards  
for medical devices acc. to  
MPG and the EC regulation  
93/42/EEC.



The products may only be used  
for their intended purpose of use.  
Please also observe our operating  
manual!

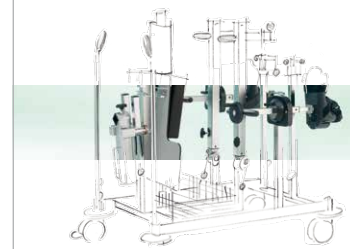


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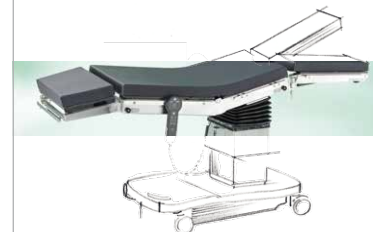


**Information on  
our establishments  
worldwide can be found  
on our website.**

Accessories for  
DIAMOND and OPX mobilis®  
operating tables



OPX mobilis® Operating Tables  
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Unique Flexibility and Reliability



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