Carbon fibre elements

Operating tables and accessories for intraoperative X-ray diagnosis

INNOVATIONS FOR PATIENT CARE

TRUMPF

Fully radiolucent in all disciplines – TRUMPF operating tables and accessories of carbon fibre

Operations with simultaneous radiolucence of the operating field: Surgeons are increasingly using modern imaging technologies to gain a picture of the various layers of the tissue during an operation. Intraoperative diagnosis is the key to successful and efficient operating. The TRUMPF carbon fibre elements were developed for all types of operation and allow unobstructed imaging where the surgeon needs it most.

Universal applications
TRUMPF carbon fibre operating tables, table tops, components and accessories offer an ideal and economically feasible solution for every type of operation

Unrestricted X-ray image
Imaging without any obstructing articles thanks to 100 % radiolucence, excellent C-shaped frame freedom and optimum width adjustment for CT scanners and 3-D C-shaped frames

360° radiolucence
thanks to projecting table tops and components, extreme angles of inclination, removable side rails and special headrest systems of carbon fibre

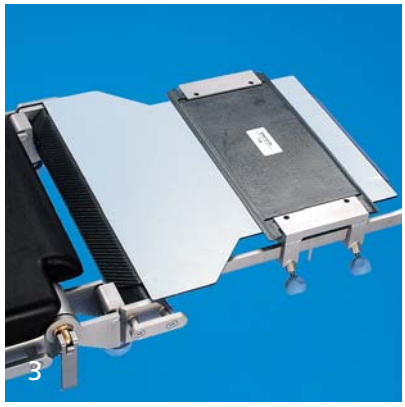
Accurate positioning to the millimetre
of the table tops and components of the operating table JUPITER under the C-shaped frame – thanks to newly developed joystick operation even for extreme Trendelenburg or tilting

Efficiency thanks to modularity
All TRUMPF carbon fibre surgical components are designed for modular application and to extend the functionality of the operating tables TITAN, JUPITER, MARS and SATURN

Safety and hygiene
Table tops, components, accessories and upholstery are resistant to disinfecting agent, electrically conductive and possess a high degree of torsion resistance

Ergonomic
The TRUMPF Carbon fibre elements are easily and quickly coupled on thanks to the specially developed suspension mechanism

Intelligent solutions in the detail



1 *TRUMPF table top segment Carbon 450 – ideal for operations on hip*
2 *Easy attachment thanks to the newly developed suspension mechanism*
3 *Side rails – adaptable for every situation without restricting radiolucence*
4 *Multi-talent TRUMPF table top segment Carbon three-part – suitable for CT scans as well as paediatric surgery thanks to the detachable side elements*
5 *Optimum radiolucence – TRUMPF table top Carbon X-tra*
6 *Mobile operating table JUPITER Universal Carbon X-tra with joystick*
7 *Resting comfortably with the Head section X-Ray and Adapter X-Ray Double Joint*
8 *Operating table Carbon X-tra – a complement to the JUPITER exchangeable tabletop system*

Operating table top Carbon X-tra – optimum radiolucence

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Adjustable in length and width, the Carbon X-tra operating table top for the JUPITER exchangeable tabletop system represents the optimum combination of operating table applications in the operating theatre / room with intraoperative radiology and angiography. Heart and vascular surgery, orthopaedics and traumatology, neurosurgery and minimal invasive surgery all profit from maximum X-ray transparency and unrestricted access for C-shaped frames.

3-dimensional positioning
Thanks to the length and width adjustment of the table top, patients up to 180 kg in weight can be positioned precisely under the C-shaped frame. The table top can be tilted and inclined at extreme angles and is thus suitable for every surgeon and every surgical application.

Wide range of accessories
On the head side of the table tops a special carbon fibre coupling point is added in which the extensive headrest accessories can be fitted with the aid of the X-ray adapter. Adjustable side rails allow all the necessary accessories and supports to be fitted as required without restricting radiolucence.

Also available as a mobile operating table
As well as the exchangeable table top for the JUPITER operating table system, a mobile version is also available with the same table top functions: JUPITER Universal Carbon X-tra.

1 Carbon X-tra serves not only to support patients during the operation but can also be used for patient transport with the shuttle to the operating table column
2 Carbon X-tra is radiolucent up to 495 mm length on the head side
3 Extension by a further 200 mm with the Head section X-Ray on the Adapter X-Ray
4 Radiolucent up to 1,400 mm on the foot side even in the Trendelenburg position
5 JUPITER Universal Carbon X-tra for mobile applications
6 Positioning with JUPITER Universal Carbon X-tra
7 Millimetre-accurate, two-dimensional positioning under the C-shaped frame with the aid of the joystick


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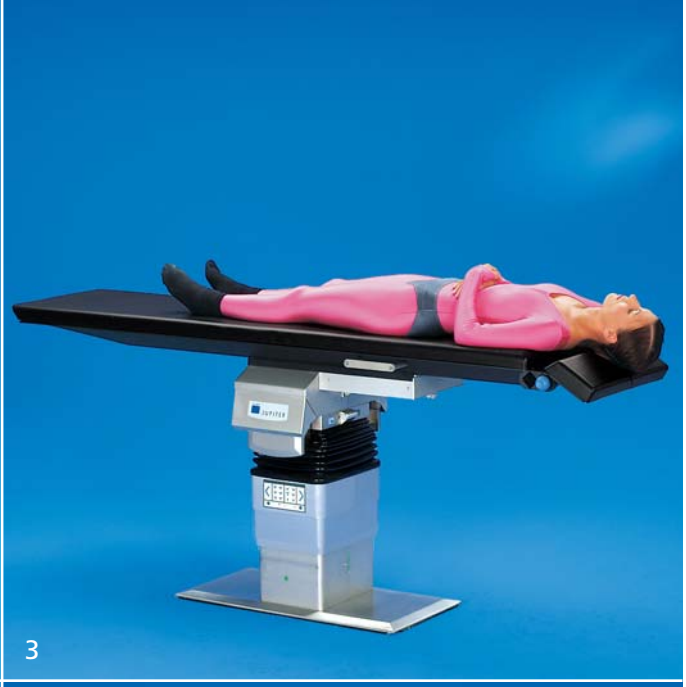
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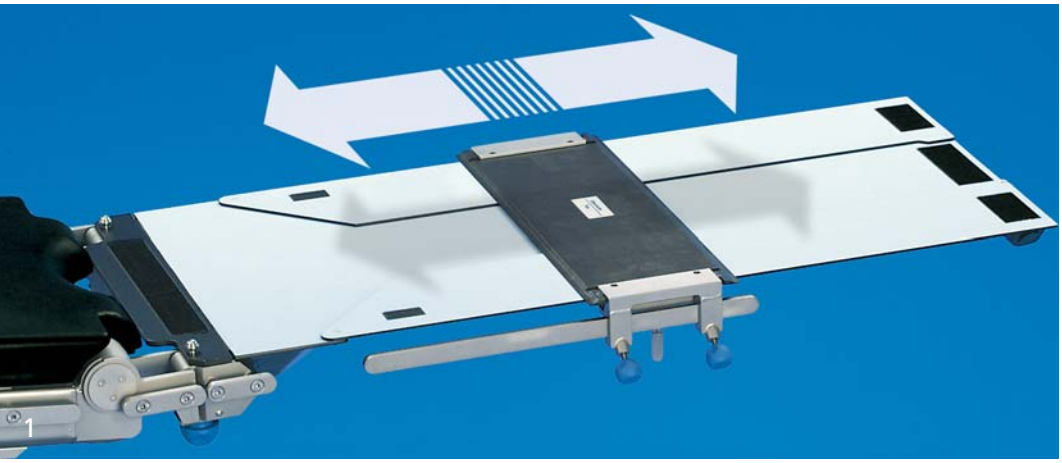
Carbon fibre table top components for every surgical application



1 Patent pending: Table top segment Carbon three-part with freely adjustable side rail adapter Carbon 520

The TRUMPF carbon fibre table top components allow surgeons in all disciplines to work with imaging diagnostic techniques during the operation. Thanks to the design of the table top segment Carbon three-part and the table top segment Carbon narrow, unobstructed CT scanning is possible. All components are linked to the operating tables by means of the modular coupling system.

Table top segment Carbon three-part

The unique table top segment Carbon three-part consists of a central element and two dock-on side elements. It is radiolucent over a length of 1,050 mm. The width of the support area is reduced by removing the side elements. This makes the table top segment ideal for applications in neurosurgery, paediatrics, head and shoulder surgery and for traumatology/orthopaedics.

Table top segment Carbon 450

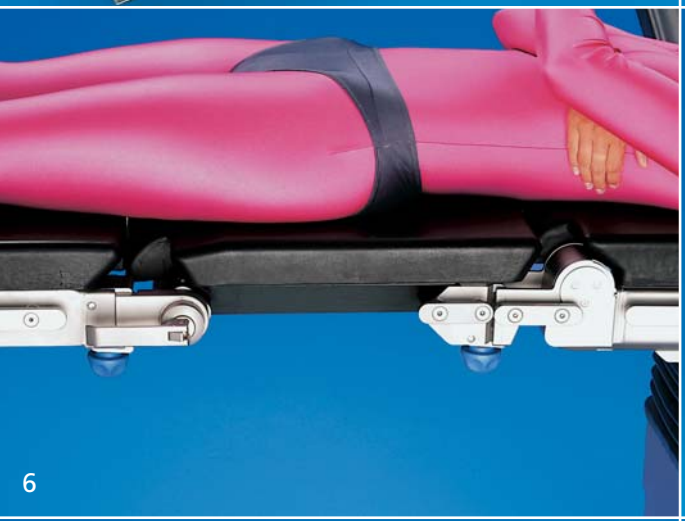
Unique special segment for use in traumatology/orthopaedics for operations in the hip area and for gynaecology. It can be extended using all TRUMPF leg sections.

Table top segments Carbon 600 and Carbon narrow

The single-part table top segments Carbon 600 and Carbon narrow are ideal for operations on the head, spine or thorax area. Both table top segments have a carbon fibre coupling point for the Adapter X-ray to attach the headrest accessories.

2 Table top segment Carbon three-part for hip surgery
3 Table top segment Carbon three-part for pelvic surgery

4 Table top segment Carbon three-part in vascular surgery
5 Table top segment Carbon 450 with leg sections for hip surgery



6 Table top segment Carbon 450 for pelvic surgery
7 Table top segment Carbon 450 for hysterosalpingography

8 Table top segment Carbon 600 with Head section X-Ray
9 Table top segment Carbon narrow for CT scans of the head and jaw

Radiolucent patient-positioning accessories

1 Skull cap X-Ray with Adapter X-Ray, variable positioning and fully radiolucent

By means of the Adapter X-Ray or X-Ray Double Joint developed by TRUMPF, various head-positioning accessories can be attached to the table tops and components with added special carbon fibre coupling points.

- Head section X-Ray
- Head section X-Ray narrow
- Skull cap X-Ray
- Helmet X-Ray
- Skull clamp X-Ray.

The adapters have the following advantages:

- Unobstructed a.-p.-radiolucence thanks to the lateral holding system
- Perfect precision of the head positioning thanks to the double-joint system
- Maximum stability thanks to the double-bar system
- Optimum patient positioning thanks to 120 mm length adjustment.

Side rail adapters for all carbon fibre elements
Side rail adapters can be fitted to all operating tables and carbon fibre components without affecting radiolucence.

The side rail adapter Carbon Vario slides on at the front and can be adjusted for the various widths of the carbon fibre elements.

The side rail adapter Carbon 520 can be fitted on at any point of the carbon fibre elements. It slides along the whole length without restricting the longitudinal adjustment range of the operating table top. With the connection plates Carbon 220 and 370 it can be adjusted to the various carbon fibre elements.

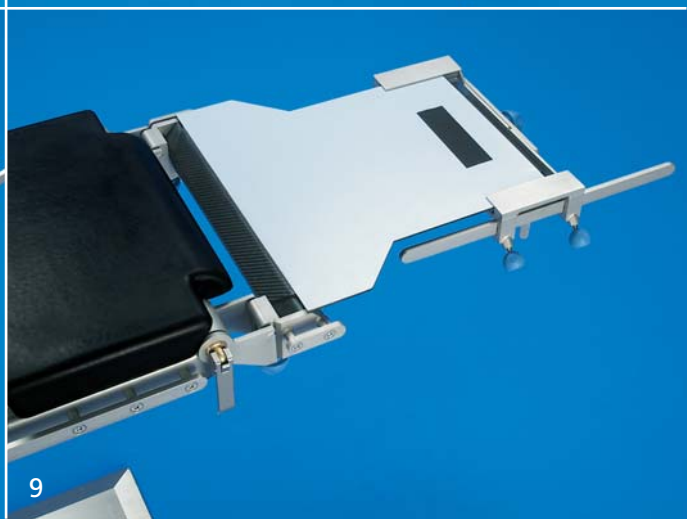
Both side rail adapters can accommodate side rails of any dimensions and shapes.

Hand operating table Carbon
A carbon fibre hand operating table is available for X-ray-aided operations on the hand and arm. With detachable side rail on the front to accommodate accessories as well as variable support rod for use with heavy patients.

2 Head section X-Ray with Adapter X-Ray Double Joint
3 Adjustment options of the Head section X-Ray

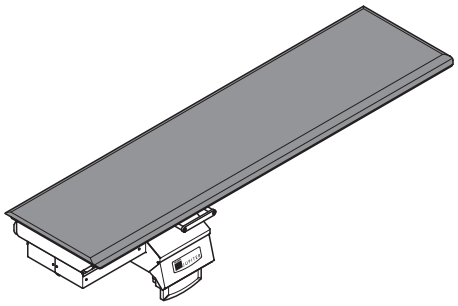
4 Helmet X-Ray
5 Skull clamp X-Ray

6 Maximum stability thanks to the double bar system
7 Hand operating table Carbon with variable support and side rail extension



8 Side rail adapter Carbon 520
9 Side rail adapter Carbon Vario

Technical data
Carbon fibre operating tables and carbon fibre elements



Operating table top Carbon X-tra · Operating table JUPITER Universal Carbon X-tra	**Material-No. 1257392 / 1302594 · 1257393 / 1306852**
Length of the table top	2,085 mm
Radiolucence at the head	1,400 mm x 520 mm (360°)
Radiolucence at the feet	495 mm x 520 mm (360°)
Width of pad	530 mm
Width icluding side rails	560 mm
Height of lying area (without pad)	240 mm
Type of drive	motor-driven
Length adjustment	460 mm
Adjustment speed LA	start-up 18 mm/s, switchable to 38 mm/s
Width adjustment	± 85 mm
Adjustment speed WA	15 mm/s, switchable to 28 mm/s
Maximum patient weight	180 kg
Dead weight	120 kg / 280 kg
Table column: height adjustment	500 mm
Trendelenburg/Anti-Trendelenburg position	± 40°
Tilt	± 25

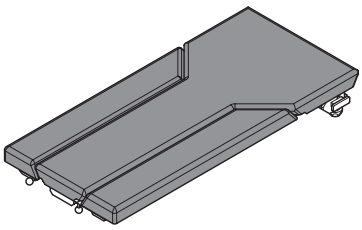


Table top segment Carbon, three-part	**Material-No. 1227688 / 1260265**
Length	1,220 mm
Width of pad	530 mm / 370 mm / 220 mm
Maximum patient weight	160 kg
Radiolucence 360° radiolucent	1,050 mm
a.-p.-radiolucent	1,200 mm plus the area between coupling point and the column

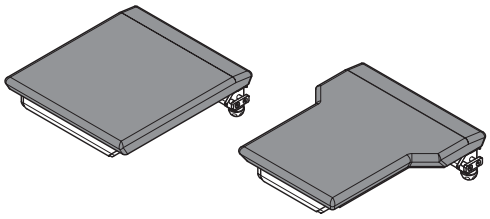


Table top segment Carbon 600 · Table top segment Carbon narrow	**Material-No. 1277922 / 1277923 · 1300589 / 1300590**
Length	600 mm
Width of pad	530 mm / 530 mm / 370 mm
Maximum patient weight	160 kg
Radiolucence 360° radiolucent	480 mm
a.-p.-radiolucent	600 mm plus the area between coupling point and the column

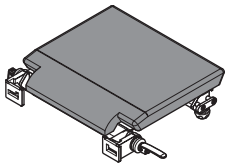
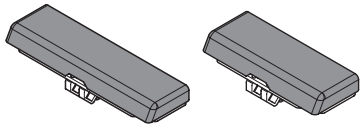
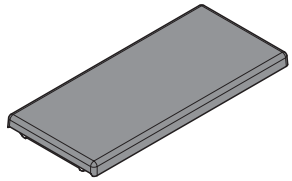


Table top segment Carbon 450	**Material-No. 1277921 / 1298613**
Length	485 mm
Width of pad	530 mm
Maximum patient weight	180 kg
Radiolucence 360° radiolucent	250 mm
a.-p.-radiolucent	beyond the coupling points and joints 450 mm
Adjustment range of joints	+90° / -105°



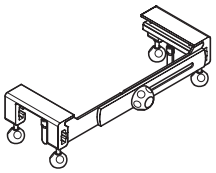
Head section X-Ray narrow · Head section X-Ray wide	**Material-No. 1297207 · 1300664**
Length	180 mm
Width of pad	380 mm / 530 mm
Maximum patient weight	225 kg

Hand operating table Carbon — **Material-No. 1227687**



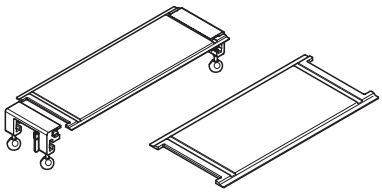
Length	890 mm
Width of pad	400 mm
Accessories	side rail extension
	support rod
Maximum patient weight	with support rod up to 450 kg

Side rail adapter Carbon Vario — **Material-No. 1266933**



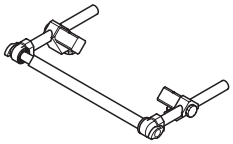
Length	200 mm
Width	420 mm – 580 mm
Side rail W x H	9.4 mm x 28.5 mm (USA)
	10 mm x 25 mm (EU)

Connection section Carbon 520 · 370 · 220 — **Material-No. 1266934 · 1279867 · 1229593**
Clamp pair of connection section Carbon · Bag for connection sections Carbon — **Material-No. 1272324 · 1324258**



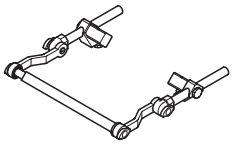
Length	200 mm
Width	250 mm / 400 mm / 530 mm
Side rail W x H	9.4 mm x 28.5 mm (USA)
	10 mm x 25 mm (EU)
Operating area	along the operating surface up to a maximum plate thickness of 80 mm

Adapter X-Ray narrow · Adapter X-Ray wide — **Material-No. 1297206 · 1312733**



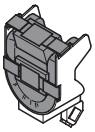
Length	250 mm
Width	400 mm / 550 mm
Height	100 mm
Maximum patient weight	225 kg
Adjustment range of the joint	360°
Length adjustment	120 mm

Adapter X-Ray Double Joint narrow · Adapter X-Ray Double Joint wide — **Material-No. 1312734 · 1312735**



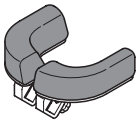
Length	400 mm
Width	400 mm / 550 mm
Height	100 mm
Maximum patient weight	225 kg
Adjustment range of the joint	rotating: 360° / swivelling ± 45°
Length adjustment	120 mm

Helmet X-Ray — **Material-No. 1300663**



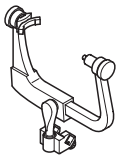
Pad dimension (W x H x L)	275 mm x 260 mm x 150 mm
Maximum patient weight	225 kg
Adjustment range	+10°/-105°

Skull cap X-Ray — **Material-No. 1300662**



Dimensions (W x H x L)	200 mm x 250 mm x 100 mm
Maximum patient weight	225 kg
Adjustment range	± 45°

Skull clamp X-Ray / Skull clamp adapter X-Ray / X-Ray mount — **Material-No. 1317569 / 1317570 / 1345749**



Dimension (W x H x L)	302 mm – 410 mm x 140 mm x 360 mm
Maximum patient weight	225 kg
Adjustment range around the vertical and longitudinal axis	360°
Adjustment range mandrel	rotation: 360° / swivel: 60°

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