FLEXIBLE FROM HEAD TO FOOT – THE ALPHASTAR MOBILE OPERATING TABLE

MAQUET – THE GOLD STANDARD

Form and function based on experience: As the world’s market leader, MAQUET is fully aware of the high expectations for operating tables. Close co-operation with physicians, surgeons and nursing staff is the basis for products optimized for the needs of practice, products which simplify day-to-day work in the operating room and help to enhance patient safety and comfort.

Proven in thousands of applications: The ALPHASTAR with electrically controlled hydraulic drive for all the table’s essential functions – from table top positioning and autodrive to reverse mode. ALPHASTAR can be modified to suit the needs of any surgical discipline in just a few quick steps – ideal for smooth workflow in the operating room.

FLEXIBLE AND ABLE TO WITHSTAND EVEN EXTREME LOADS
ALPHASTAR: MAXIMUM PERFORMANCE IN FOUR VERSIONS

As flexible as it is reliable: Easy manœuvring using the hand control is just one example of the many convenience features found in the ALPHASTAR; another is the reverse mode used when patients are reversed, head to foot, on the table. With its precisely adjustable table tops and special modules for versatility in use, the ALPHASTAR can be set up for any general surgical discipline with just a few quick actions.

One name, four versions: Three additional versions, in addition to the standard model, have been developed to respond to special requirements. With maximum capacity for 450 kg of patient weight, the ALPHASTAR PLUS is well prepared to handle extreme situations. The ALPHASTAR in its low-height version is highly convincing, since it can be lowered to just 598 mm, ideal for surgery while seated. The ALPHASTAR TOP was developed especially to take account of the needs of ophthalmology, maxillo-facial surgery and ENT use.
ALPHASTAR: Proven thousand of times over in the operating room

ALPHASTAR in the low-height version: adjustable from 598 to 950 mm in height

ALPHASTAR TOP with the patented “anatomy arm” for perfect support of the cervical spine in every phase of every movement. Additional information on page 12

Short reverse back plate for many additional positioning possibilities

Expanded modularity: mounting point for socket-mounted modules

Modular design for ideal adaptation to a wide variety of surgical tasks
ANATOMICALLY CORRECT PATIENT POSITIONING
EXAMPLE: GYNAECOLOGY

The short “reverse” back plate can be lowered down, making it possible to set the ideal working height for the surgeon.

The integrated combination of leg plates and knee crutches offers simple, anatomically correct patient positioning for gynaecological, urological, rectal and MIS procedures.
FREEDOM OF MOVEMENT FOR THE IMAGE INTENSIFIER
EXAMPLE: UROLOGY AND VASCULAR SURGERY

ALPHASTAR with the seat plate extension (TUR drainage set optional). Recommended: the direct placement stirrups with one-hand operation to facilitate putting the patient in the desired position (also possible during a procedure beneath sterile drapes). Great leeway for using the image intensifier across the entire urogenital tract.

Vascular surgery or use of a catheter: X-ray examination of the inguinal region and upwards using the carbon-fibre back plate.
FREEDOM OF ACCESS AND UNIMPEDED IMAGE INTENSIFIER USE
EXAMPLE: ORTHOPAEDICS

Putting the patient in the prone position permits unrestricted access for the C-arm in orthograde X-ray examinations of the affected vertebrae.

The carbon-fibre module permits unrestricted C-arm access through 360° for examining the lower extremities and pelvis.
MODULAR DESIGN FOR VARYING REQUIREMENTS
EXAMPLE: TRAUMATOLOGY

The module specially designed for procedures at the shoulder ensures direct and unrestricted access to the surgical area and eliminates any hindrance of the C-arm. The two side sections in this three-part plate can be removed and, moreover, the head support can be swung to the left and right.

The extension device makes for stable positioning of the injured lower extremities while applying longitudinal traction. It facilitates work by the surgical team and the use of the C-arm. Thanks to simplicity in assembling the traction accessories, any required position can be set up quickly and safely by just a single nurse.
UNIVERSAL IN APPLICATION
MATCHES EVERY OR SITUATION PERFECTLY

Gall bladder: Raising the operating field is easy using the Flex function, with the patient oriented in either direction.

Cholecystectomy, MIS procedure: Stabilizing and positioning the patient with the use of the Maquetmatic accessory provides ready access to the operating field.

Rectal: Position with the patient kneeling for rectal procedures, using the rectal positioning device and the specially designed prone head rest.
WITH MANY CONVENIENT DETAILS
FOR BOTH THE PATIENT AND THE STAFF

Kidneys: Segmented pads make for stable positioning and provide abdominal freedom for percutaneous lithotomies, no matter how tall the patient might be.

Neurosurgery (large illustration): Patient seated for procedures at the head, with extension plate for taller patients.

Ophthalmology: The horseshoe-shaped head rest with its three joints makes for flexible positioning of the head. The adjustable height of the ALPHASTAR low-height version, down to as little as 598 mm, and generous legroom reduce strain when working in a sitting position.
ALPHASTAR TOP
THE RIGHT INNOVATION FOR MAXILLO-FACIAL, OPHTHALMOLOGY
AND ENT PROCEDURES

Perfect support during the operation: ALPHASTAR TOP was developed especially for maxillo-facial, ophthalmology and ENT procedures. An entirely new concept in head support ensures that the spinal column will be supported correctly during every phase of movement. At the same time the low table heights (of from 600 to 950 mm) and generous legroom provide the best working environment for the surgeon.
WHERE TECHNOLOGY FOLLOWS NATURE
PERFECT HEAD POSITIONING WITH THE “ANATOMY ARM”

The perfect curve: Earlier positioning devices moved the head along a simple arc of a circle, which did not correspond to human anatomy. With its patented “anatomy arm” the ALPHASTAR TOP moves the horseshoe-shaped head rest along a more natural line of motion (red line in the illustration). Electric motor power makes for particularly gentle positioning of the head. The result is anatomically correct positioning in every phase of treatment. Compression and extension of the cervical spine (white arrows) are avoided in this way.

The red line shows the natural line of movement described by the new and innovative “anatomy arm” in comparison with conventional positioning along the simple arc of a circle (white line).
ERGONOMICS MEET EFFICIENCY
COMFORT IN EVERY PHASE OF THE OPERATION

The ideal working position for both patient and surgeon:
The reduced height of the ALPHASTAR TOP permits ambula-
tory patients to sit themselves on the table and provides a
comfortable working environment for the surgeon while seated.
The table moves into the desired position under electronic
control, and that position can be committed to electronic me-
mory. The head is positioned to relieve strain on the cervical
spine, using the corded hand control, while fine adjustment is
made manually. Pressing just a single button returns the table
to the pre-programmed 0-position.

The ideal head position is
set, using motor power, with
the corded hand control;
while the screw is used for
fine adjustment.
HEAD POSITIONING THAT MAKES SENSE
PERFECT SUPPORT DURING EVERY PHASE

Positioning exactly as desired, easily set up with the corded hand control

Motor-powered head positioning with the patented "anatomy arm" to relieve strain on the cervical spine
OPEN TO EVERY OPTION
ACCESSORIES AND LEG PLATES

Multifunctional: The modular design of the table top is the basis for the great adaptability to specific surgical disciplines and patient statures. The simple “Easy Click” function permits easy interchanging of the modules. The “reverse mode”, in which the patient position is reversed 180° head-to-foot, permits additional positioning and surgical possibilities. There are no crossbars in the operating table, neither in the head plate, back plate, seat plate nor the leg plates, eliminating any interference with intraoperative fluoroscopy.

Available immediately with all models: Extra thick (80 mm) SFC padding in a multi-layer design boosts patient comfort considerably.

Back element with “anatomy arm”

Shoulder plate with detachable lateral segments

Identical mounting point geometry ensures greater flexibility when positioning the patient. Back plates can be easily interchanged for “reversed” positions.
MOBILE AND SIMPLE TO USE
AUTODRIVE AND OPERATING CONTROLS

Trend-setting: Even when heavily loaded, the ALPHASTAR can be moved effortlessly to any desired location. Four hydraulically actuated double swivel castors raise the operating table gently. An electric autodrive with gentle start-up and safety braking functions make for additional comfort and convenience. Special models such as the ALPHASTAR LOW with its reduced table height and the ALPHASTAR PLUS for heavy-weight patients support strain-free work.

User-friendly: All electrically controlled motions can be conveniently controlled with the IR remote control or the corded hand control. The optional foot switch can be attached to any of the models. All the movements can, of course, also be initiated using the override control panel at the head of the column. The panel indicates the base positions and the charge level for the operating table’s batteries.
ALPHASTAR 1132.11/12/13
ACCESSORIES
**ALPHASTAR TECHNICAL SPECIFICATIONS AND ENGINEERING FEATURES**

### Adjustment options using corded hand control, IR remote control or override panel

<table>
<thead>
<tr>
<th>Option</th>
<th>Range, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height without padding</td>
<td>1132.11</td>
</tr>
<tr>
<td></td>
<td>685 – 1126</td>
</tr>
<tr>
<td></td>
<td>1132.12</td>
</tr>
<tr>
<td></td>
<td>598 – 930</td>
</tr>
<tr>
<td></td>
<td>1132.13</td>
</tr>
<tr>
<td></td>
<td>685 – 1070</td>
</tr>
<tr>
<td>Trendelenburg</td>
<td>+30°/-30°</td>
</tr>
<tr>
<td>Lateral tilt (left/right)</td>
<td>±18°</td>
</tr>
<tr>
<td>NORMAL back plate</td>
<td>±68°/-25°</td>
</tr>
<tr>
<td>Short REVERSE back plate</td>
<td>±80°/-105°</td>
</tr>
<tr>
<td>Leg plates</td>
<td>±80°/-105°</td>
</tr>
<tr>
<td>0-position (resetting adjustments such as Trendelenburg/ reverse Trendelenburg, lateral lift, back plate and leg plates)</td>
<td></td>
</tr>
</tbody>
</table>

### Technical information

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. patient weight</td>
<td>1132.11/12</td>
</tr>
<tr>
<td></td>
<td>270 kg</td>
</tr>
<tr>
<td></td>
<td>1132.13</td>
</tr>
<tr>
<td></td>
<td>450 kg</td>
</tr>
<tr>
<td>Operating table weight</td>
<td>300 kg</td>
</tr>
<tr>
<td>Complies with ” medical device directive ”</td>
<td></td>
</tr>
</tbody>
</table>

### Dimensions

- Length without head plate and extension plates: 1300 mm
- Length with head plate and extension plates: 2095 mm
- Width: 520 mm
- Width across side rails: 590 mm

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(All equipment options in conjunction with the corded hand control)
ALPHASTAR TOP TECHNICAL SPECIFICATIONS
AND ENGINEERING FEATURES

<table>
<thead>
<tr>
<th>Adjustment options using corded hand control, IR remote control or override panel</th>
<th>Technical information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height without padding 690 – 950 mm</td>
<td>Max. patient weight with the “lock” function 225 kg</td>
</tr>
<tr>
<td>Trendelenburg +30°/-30°</td>
<td>with the “unlock” function 135 kg</td>
</tr>
<tr>
<td>Head rest +25°/-25°</td>
<td>Operating table weight 360 kg</td>
</tr>
<tr>
<td>Fine adjustment, head rest longitudinal extension 50 mm</td>
<td>Complies with ĊEE requirements as per 93/42 EEC</td>
</tr>
<tr>
<td>Back plate up 85°</td>
<td>Medical Device Directive</td>
</tr>
<tr>
<td>Back plate, longitudinal extension 100 mm</td>
<td></td>
</tr>
<tr>
<td>Leg plate down -25°</td>
<td></td>
</tr>
</tbody>
</table>

Technical information

Max. patient weight

- with the “lock” function: 225 kg
- with the “unlock” function: 135 kg

Operating table weight: 360 kg

Complies with ĊEE requirements as per 93/42 EEC

Medical Device Directive

<table>
<thead>
<tr>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length without head rest 2070 mm</td>
</tr>
<tr>
<td>Width 650 mm</td>
</tr>
<tr>
<td>Width across side rails 710 mm</td>
</tr>
</tbody>
</table>
ALPHASTAR

GENERAL ENGINEERING FEATURES:

- Rechargeable battery and mains operation (see electrical specifications)
- Initiation of the electrohydraulic autodrive and adjustment functions using the corded hand control or IR remote control
- Stable base construction with four double swivel castors for easy movement and manoeuvring (locking with the control units)
- Additional foot switches optional for all models
- Base cover and cover for the override panel made of GFR composite plastic resistant to impact, breakage and disinfectants. Coloured in the base shade and coated with an additional scratch-resistant enamel.
- Column casing made of chrome-nickel steel
- Seat and back plate supporting arms with disinfectant- and scratch-resistant enamel finish
- Joint covers and side rails made of chrome-nickel steel

FEATURES OF THE OPERATING TABLE TOP:

- Operating table top: Subdivided into six sections with head plate (optional), two extension plates, NORMAL back plate, seat plate, short REVERSE back plate (leg plate)
- Back plates can be fitted with an extension segment to adjust table top length
- Entire table top without crossbars, to permit fluoroscopy during an operation
- With guide rails for the insertion of X-ray cassettes from either the head or foot end
- SFC padding, 80 mm thick
- Operating table tops can be employed for REVERSE patient positioning
- Patient orientation is set with the control units

ELECTRICAL SPECIFICATIONS:

- Special-design, maintenance-free, rechargeable batteries with capacity for about a week’s use in the operating room
- Electronic monitoring of the charge, with optical and acoustic indicators
- Batteries recharged from the line power supply, 100 – 240 V AC (switchable), 50 – 60 Hz, using the line cord
- Safety class II, Type B; the enclosure leakage current meets the requirements of the patient leakage current for CF conditions as per IEC 60601-1

VARIANTS AND TABLE TOP PADDING:

<table>
<thead>
<tr>
<th>Variant Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1132.11A0</td>
<td>ALPHASTAR standard version with short REVERSE back plate, 270 kg max. patient weight. Mobile operating table for general surgery, modular design, electrohydraulic drive, without control units, with 80 mm SFC padding, radiotranslucent and electrically conductive. 10 x 25 mm side rails.</td>
</tr>
<tr>
<td>1132.11A2</td>
<td>See above (1132.11A0), but with electric autodrive in the base</td>
</tr>
<tr>
<td>1132.12A0</td>
<td>ALPHASTAR low-height version with short REVERSE back plate, 270 kg max. patient weight.</td>
</tr>
<tr>
<td>1132.12A2</td>
<td>See above (1132.11A0), but with electric autodrive in the base</td>
</tr>
<tr>
<td>1132.13A2</td>
<td>ALPHASTAR PLUS with short REVERSE back plate and electric autodrive in the base, 450 kg max. patient weight.</td>
</tr>
</tbody>
</table>

REQUIRED ACCESSORIES:

<table>
<thead>
<tr>
<th>Accessory Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1132.90</td>
<td>Corded hand control</td>
</tr>
<tr>
<td>1132.91</td>
<td>Infrared remote control</td>
</tr>
<tr>
<td>3110.26</td>
<td>Charging station (230 V)</td>
</tr>
<tr>
<td>1132.21</td>
<td>Extension segment</td>
</tr>
<tr>
<td>1132.87</td>
<td>Head plate with adjustable slope, incl. padding</td>
</tr>
<tr>
<td>1132.53</td>
<td>Dual-joint head rest with infinite, stabilized slope adjustment, additional IR feature</td>
</tr>
</tbody>
</table>

RECOMMENDED ACCESSORIES:

<table>
<thead>
<tr>
<th>Accessory Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1132.81</td>
<td>Head plate adapter to attach head plates to the lower back section of the operating table</td>
</tr>
<tr>
<td>1001.60</td>
<td>Arm board with bail-and-socket joint adjustment</td>
</tr>
<tr>
<td>1000.91</td>
<td>Horsehoe-shaped head rest, one-piece</td>
</tr>
<tr>
<td>1002.25</td>
<td>Arm protector</td>
</tr>
<tr>
<td>1002.57</td>
<td>Anaesthesia screen with two elongation tubes, 1002.59</td>
</tr>
<tr>
<td>1003.23</td>
<td>Radial setting clamp</td>
</tr>
<tr>
<td>1002.24</td>
<td>Wristlet</td>
</tr>
<tr>
<td>1001.56</td>
<td>Body strap, washable</td>
</tr>
</tbody>
</table>

GYNAECOLOGY AND UROLOGY:

<table>
<thead>
<tr>
<th>Accessory Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1005.86</td>
<td>Direct placement stirrups with gas-strut adjustment, pair, with fully adjustable calf supports</td>
</tr>
<tr>
<td>1001.65</td>
<td>Goepel knee crutches</td>
</tr>
<tr>
<td>1130.65</td>
<td>Leg plate, single-section, lightweight version, 4.7 kg, without side rails, with SFC padding</td>
</tr>
<tr>
<td>1130.70</td>
<td>Maquetmatic, 1 pair</td>
</tr>
<tr>
<td>1132.55</td>
<td>Seat plate extension for attachment to the lower back plate at the operating table, with guide rails for X-ray cassettes and TUR drainage set</td>
</tr>
<tr>
<td>1003.45</td>
<td>TUR drainage set consisting of CrNi steel frame, plastic bowl with CrNi strainer and discharge hose</td>
</tr>
<tr>
<td>1003.46</td>
<td>Mobile frame for TUR drainage set, made of CrNi steel, with water collection bucket</td>
</tr>
<tr>
<td>1009.81</td>
<td>Foot switch with these functions: Table top up/down, Trendelenburg/reverse Trendelenburg adjustment, third adjustment (to be specified)</td>
</tr>
</tbody>
</table>

NEUROSURGERY:

<table>
<thead>
<tr>
<th>Accessory Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1130.54</td>
<td>Connecting bracket for head rest</td>
</tr>
<tr>
<td>1132.81</td>
<td>Head plate adapter</td>
</tr>
<tr>
<td>1005.29</td>
<td>Basic unit</td>
</tr>
<tr>
<td>1005.35</td>
<td>Skull clamp</td>
</tr>
<tr>
<td>1005.23</td>
<td>Crossbar attachment for positioning the seated patient</td>
</tr>
</tbody>
</table>
ALPHASTAR TOP
GENERAL ENGINEERING FEATURES:
- Rechargeable battery and mains operation (see electrical specifications)
- Electrohydraulic drive for these functions: height; Trendelenburg/reverse Trendelenburg; back, leg and head-plate adjustment
- Stable base construction with large, double swivel castors for easy movement and manoeuvring
- Base cover made of GFR composite plastic resistant to impact, breakage and disinfectants
- Column casing made of chrome-nickel steel
- Table top supporting arms made of high-strength aluminium, with disinfectant- and scratch-resistant enamel finish

FEATURES OF THE OPERATING TABLE TOP:
- Features of the operating table top: Subdivided into 5 sections with integrated head positioning unit (horseshoe-shaped head rest optional), back plate with longitudinal extension, seat plate and leg plate
- SFC (special foam core) padding, 80 mm thick

ELECTRICAL SPECIFICATIONS:
- Special-design, maintenance-free, rechargeable batteries with capacity for about a week’s use in the operating room
- Electronic monitoring of the charge, with optical and acoustic indicators
- Batteries recharged from the line power supply, 100 – 240 V AC (switchable), 50 – 60 Hz, using the line cord
- Safety class II, Type B; the enclosure leakage current meets the requirements of the patient leakage current for CF conditions as per IEC 60601-1

VARIANTS AND TABLE TOP PADDING:

| 1132.17A2 | ALPHASTAR TOP with electric drive for these functions: height; Trendelenburg/reverse Trendelenburg; back, leg and head plate adjustment. 225 kg max. patient weight with “Lock” function, 135 kg with “Unlock” function |

REQUIRED ACCESSORIES:

| 1132.90  | Corded hand control |
| 1002.71  | Horseshoe-shaped head rest, one-piece |
| 1002.25  | Arm protector |

OPTIONAL ACCESSORIES (OPHTHALMOLOGY, MAXILLO-FACIAL SURGERY, ENT):

| 1009.81  | Foot switch with these functions: Table top up/down, Trendelenburg/reverse Trendelenburg adjustment, third adjustment (to be specified) |
| 1002.72  | Horseshoe-shaped head rest, two-piece (split) |
| 1002.73  | Horseshoe-shaped head rest, flat |
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