DORO®
Cranial Stabilization & Retractor Systems
Because we share your sense for precision, quality is in everything we do. The Black Forest Medical Group proudly stands behind its state-of-the-art solutions which are designed to support you in your daily tasks.

The Black Forest Medical team is committed to excellence in the field of neuroscience. We are devoted to improving surgical performance and patient care by delivering high-value products and services that make a difference.

Matthias Schüle  Roman Maier  Patrick Lux  
Owner & Managing Director  Managing Director  Managing Director

Thank you for your interest in our products!

Get connected
## CONTENTS

### Rigid & Non-invasive Headrest Systems

- **DORO® QR3 Headrest System**  [page 6]
- **DORO® QR3 Skull Clamp**  [page 7]
- **DORO® Swivel Adaptors and Base Units**  [page 8]
- **DORO® Base Unit Parkbench**  [page 9]
- **DORO® Crossbar Adaptor**  [page 9]
- **DORO® OR Table Adaptors**  [page 10]
- **DORO® Easy Connect Navigation Adaptors**  [page 10]
- **DORO® Skull Pins**  [page 11]
- **DORO® QR3 Headrest System Teflon®**  [page 12]
- **DORO® Aluminum Horseshoe Headrests**  [page 13]
- **DORO® Accessories**  [page 13]
- **DORO® Multi-Purpose Skull Clamp**  [page 14]

### Imaging Solutions

- **DORO LUCENT® Headrest System**  [page 20]
- **DORO® Skull Clamp Radiolucent**  [page 21]
- **DORO® Skull Clamp for Spinal Frames**  [page 22]
- **DORO® Mix & Match**  [page 23]
- **DORO® Radiolucent Horseshoe Headrests**  [page 24]
- **DORO LUCENT® Horseshoe Headrest ENT**  [page 25]
- **DORO LUCENT® Navigation Adaptors**  [page 26]
- **DORO LUCENT® Accessories**  [page 26]
- **DORO® Radiolucent OR Table Adaptors**  [page 27]
- **DORO LUCENT® iMRI Headrest Systems**  [page 28]
- **DORO LUCENT® iXI Headrest System**  [page 30]
- **DORO LUCENT® iMRI & iXI Training**  [page 31]
- **DORO LUCENT® iMRI & iXI Accessories**  [page 31]

### Retractor Systems

- **DORO LUNA® Retractor System**  [page 34]
- **DORO COBRA® Retractor System**  [page 36]
- **DORO® Mix & Match**  [page 37]
- **DORO® Flexible Rotary Arms**  [page 38]
- **DORO® Quick-Clamp with Starburst**  [page 39]
- **DORO® Halo Brain Retractor System**  [page 40]
- **DORO® Retractor Accessories**  [page 41]
- **DORO® Sterilization Trays**  [page 41]
- **DORO® Micro Blades**  [page 42]
- **DORO® Blades**  [page 43]
Cranial Stabilization
Rigid & Non-Invasive Headrest Systems

Firm positioning of the cranium is essential during neurosurgical procedures for patient safety and the overall outcome of the surgical approach, especially when using technologies like microscopes or navigation. We are driven to create solutions which ensure stability and safety, and provide the strength and flexibility to perform at your very best - whatever your next case might be.
The DORO® QR3 Headrest System is developed for daily use in non-imaging neurosurgical applications. Features like built-in navigation adaptor interfaces and Mix & Match compatibility with DORO® Radiolucent products make it a time-saving and versatile device.

### Versatile
With the DORO® QR3 Skull Clamp as a basis, you are free to enhance the set-up to what suits you best. Retractor arms, entire retractor systems or navigation adaptors – It all fits.

### Intuitive
Fast and easy mounting frees up resources for the rest of your surgery preparations.

### Compatible
Can directly be attached to an OR table via the neuro interface or mounted to its side-rails by means of the DORO® Side Rail Adaptors (page 10). You can also Mix & Match it with radiolucent DORO® products (page 23).

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**Included Items**

<table>
<thead>
<tr>
<th>Item</th>
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<td>DORO® QR3 Skull Clamp</td>
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<tr>
<td>DORO® Swivel Adaptor Aluminum</td>
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</tr>
<tr>
<td>DORO® Base Unit Aluminum</td>
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</table>

**DORO® Storage Case**

Item no. 1001.030 (optionally available).
Quick-Rail® - An Innovative Interface

The term QR3 refers to the 3rd generation of our innovative Quick-Rail® technology which is directly implemented in the extension arms of our aluminum skull clamps. Due to its unique shape it can easily be located, even when covered by multiple layers of sterile drape. The Quick-Rail® serves as a form-fitting interface, ensuring reliable attachment of DORO® Retractor Systems and accessories.
**DORO® Swivel Adaptors**

DORO® Swivel Adaptors are the connecting elements between DORO® Skull Clamps and DORO® Base Units. Versions offering additional height, pivoting features and additional starbursts are available.

**DORO® Swivel Adaptor**
Item no. 3002-00

Provides 360° rotation for optimum flexibility in patient positioning.

**DORO® Ball Pivot Adaptor**
Item no. 3002-50

Provides 360° rotation, additional height, pivoting and unique horizontal inclination up to 90° for maximum flexibility in patient positioning.

**DORO® Swivel Adaptor Navigation**
Item no. 3002-60

Provides 360° rotation and two additional starbursts for increased options in mounting navigational or similar devices.

**DORO® Aluminum Base Units**

DORO® Base Units are individually designed for specific OR tables. Additionally, you can attach DORO® Base Units to almost all common OR tables with DORO® Side Rail OR Table Adaptors (page 10).

**DORO® Adjustable Base Unit**
Item no. 3001-00

**DORO® Adjustable Base Unit**
Item no. 3001-001

**DORO® Adjustable Base Unit**
Item no. 3001-002

**DORO® Adjustable Base Unit**
Item no. 1001.023

**DORO® Adjustable Base Unit**
Item no. 3001-003

**DORO® Adjustable Base Unit**
Item no. 3001-010

**DORO® Adjustable Base Unit**
Item no. 3001-008
**DORO® Base Unit Parkbench**

The DORO® Base Unit Parkbench is the perfect solution for lateral patient positioning. Its design allows the safe and comfortable positioning of the patient’s arm, resulting in a reduced risk of hematomas. The Base Unit Parkbench is adjustable in width and attaches to almost all standard side-rails.

**DORO® Base Unit Parkbench**
Item no. 3001-006

**Trumpf Universal Side Rail Fitting**
Item no. 3007-50

Connects the Armrest Parkbench to the DORO® Base Unit Parkbench.

**Stryker Armrest Parkbench**
Item no. 3001-007

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**DORO® Crossbar Adaptor**

The DORO® Crossbar Adaptor is the perfect solution for all approaches requiring a patient in sitting position. It can be mounted to the side-rails of almost all standard OR tables and provides a stable interface for the DORO® QR3 Headrest System.

**DORO® Crossbar Adaptor**
Item no. 3007-00

Needs 2x Universal Side Rail Fittings (Item no. 3007-50, see above).
DORO® Aluminum OR Table Adaptors

DORO® Table Adaptor
Item no. 3010-00
Mounted on square receptacle of OR table.

DORO® Side Rail OR Table Adaptor
Item no. 3011-00
Width-adjustable universal neuro interface, fitting OR tables with bars up to 70 mm.

DORO® Side Rail OR Table Adaptor AMSCO®
Item no. 3011-10
Width-adjustable universal neuro interface, fitting OR tables with bars up to 125 mm.

AMSCO® Headrest Adaptor
Item no. 3011-11
Fits 3080 & 3085 series.

DORO® Easy Connect Navigation Adaptors

DORO® Easy Connect Navigation Adaptors connect directly to the integrated navigation starburst on the Quick-Rail® of the DORO® QR3 Skull Clamp, DORO® Multi-Purpose Skull Clamp and DORO® Skull Clamp Teflon®. This provides a very stable and secure connection and allows positioning the navigation reference array close to the surgical target.

DORO® Easy Connect Navigation Adaptor Stryker®
Item no. 1204.001
(Shown with Stryker navigation reference array).

DORO® Easy Connect Navigation Adaptor Brainlab
Item no. 1204.002
(Shown with Brainlab navigation reference array).

DORO® Easy Connect Navigation Adaptor Medtronic
Item no. 1204.003
(Shown with Medtronic navigation reference array).
DORO® Disposable Skull Pins

DORO® Disposable Skull Pins
Stainless Steel
Adult
Color: Blue
Item no. 3006-00 (36 pins), sterile

DORO® Disposable Skull Pins
Stainless Steel
Pediatric
Color: Yellow
Item no. 3006-10 (36 pins), sterile

DORO® Disposable Skull Pins
Titanium
Adult
Color: Turquoise
Item no. 3006-20 (36 pins), sterile

DORO® Disposable Skull Pins
Titanium
Pediatric
Color: Green
Item no. 3006-30 (36 pins), sterile

DORO® Disposable Skull Pins
Stainless Steel
Adult
Color: Black
Item no. 1106.003 (3 pins)
Item no. 1106.103 (9 pins)

High-End Imaging

Perfect balance of imaging quality and pin stability. The DORO LUCENT® Disposable Skull Pin is specifically designed for intra-operative imaging applications using CT, MRI, X-Ray and Fluoroscopy. Imaging artifacts are reduced to a minimum while the composition of a titanium tip and high-performance reinforced polymer ensures a precise, secure and rigid fixation of the patient’s head.
The DORO® QR3 Headrest System Teflon® is the sterilizable counterpart of our well-established DORO® Headrest System Aluminum. Its autoclavability is a major plus when you are treating highly infectious patients.

### DORO® QR3 Headrest System Teflon®

<table>
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<tr>
<th>Included Items</th>
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<tbody>
<tr>
<td>DORO® Skull Clamp Teflon®</td>
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<td>DORO® Swivel Adaptor Teflon®</td>
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<tr>
<td>DORO® Adjustable Base Unit Teflon®</td>
<td>3001-009</td>
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### Precise Navigation

Navigation tracking device adaptors (page 10) can easily be attached in close proximity to the surgical field.

### Easy, Safe and Stable Connection

Attach DORO LUNA®, DORO COBRA® or Quick-Clamp products to the form-fitting Quick-Rail® interface.

### Autoclavable

The Teflon® coated surface of DORO® QR3 Headrest System Teflon® makes it machine-washable and autoclavable. It conforms to World Health Organization (WHO) Infection Control Guidelines for cleaning and sterilization.
**DORO® Alumimum**

**Swivel Horseshoe Headrests**

**Skeletal Traction Option**
An extension bar is optionally available.

**Proper Patient Positioning**
All DORO® Horseshoe Headrests are adjustable in width.

**One Base Fits All**
Mount adult or pediatric gel pads to the same horseshoe base.

### Adult versions

<table>
<thead>
<tr>
<th>DORO® Swivel Horseshoe Headrest System, Adult with Extension Bar</th>
<th>Item no. 3009-00</th>
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<tbody>
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<td>Included Items</td>
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<td>DORO® Horseshoe Pad, Adult, right</td>
<td>3009-10</td>
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<tr>
<td>DORO® Horseshoe Pad, Adult, left</td>
<td>3009-11</td>
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<tr>
<td>DORO® Extension Bar Horseshoe</td>
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### Pediatric versions

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<tr>
<td>DORO® Horseshoe Pad, Pediatric, left</td>
<td>3008-11</td>
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### DORO® Accessories

**DORO® Cervical Spine Support**
Item no. 3012-00
Neck support for anterior spine surgery.

**DORO® Headrest Wall Storage Unit**
Item no. 3013-00
81 cm x 94 cm
32” w x 37” h.

**DORO® Lubricant HP500**
Item no. 1001.999
HP500 6-pack
Item no. 1001.998

Autoclavable and precise in its application due to its needle-shaped tip.
The DORO® Multi-Purpose Skull Clamp is our most versatile skull clamp. It offers all the beneficial features of the DORO® QR3 Skull Clamp and can be set-up for invasive or non-invasive procedures in adult as well as in pediatric cases. Since a children’s skull is still growing and is, therefore, very vulnerable, neurosurgical solutions are needed which fit their needs. The DORO® Multi-Purpose Skull Clamp provides different kind of shapes and sizes of gel pads and pin holders. A specifically designed extension bar ensures a safe fixation of the children’s head with an appropriate pin force, comprising a force scale up to 90N.

Flexible
A large variety of DORO® Gel Pads and Pin Holders is available to support optimal patient positioning (pages 16-17).

Precise Navigation
Navigation tracking device adaptors (page 10) can easily be attached in close proximity to the surgical field.

Supports Pediatric Procedures
The DORO® Multi-Purpose Skull Clamp features specifically designed components like the 90 N/20 lbs Extension Bar or the head support.

Extendable
The Quick-Rail® technology enables you to attach accessories and retractor systems such as the DORO LUNA® Retractor System (page 34) easily, quickly, and securely to the skull clamp.

Mix & Match
Combine the DORO® Multi-Purpose Skull Clamp with a radiolucent base unit and swivel adaptor (page 23).
Which DORO® Multi-Purpose Skull Clamp System works for you?

That depends on the desired head positioning method. Have a look at the overview below for guidance. The complete system configurations can be found on the following pages.
**DORO® Multi-Purpose Skull Clamp – Invasive Set-Up Possibilities**

Set-up the DORO® Multi-Purpose Skull Clamp as a classic 3-pin skull clamp for adult patients or apply the dedicated 90 N /20 lbs Extension Bar, head support and dual pin holders on both sides when treating pediatric patients. An interface for the direct connection of the PMT® Halo System is also available.

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**DORO® Abbott Multi-Purpose Skull Clamp System Pediatric,** Item no. 3021-00

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<tr>
<td>DORO® Pin Holder Pediatric</td>
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<tr>
<td>DORO® Head Support (w/o Gel Pads)</td>
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<td>DORO® Multi-Purpose Skull Clamp</td>
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<td>DORO® Extension Bar 90N/20lbs</td>
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<td>DORO® Single Pin Holder</td>
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<tr>
<td>DORO® Gel Head Ring w/ Base 90 mm (3pcs)</td>
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<tr>
<td>DORO® Pin Holder Adjustable, Pediatric</td>
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<tr>
<td>DORO® Gel Head Ring w/ Base 140 mm</td>
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<tr>
<td>DORO® Adjustment Key</td>
<td>3020-65</td>
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<td>DORO® Gel Ear Ring w/ Base 90 mm (2pcs)</td>
<td>3020-68</td>
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<td>DORO® Trio Gel Pad (adjustable)</td>
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<tr>
<td>DORO® Storage Case MPSC System</td>
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**DORO® Universal Multi-Purpose Skull Clamp System,** Item no. 3022-00

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<td>DORO® Gel Pad</td>
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<tr>
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DORO® Multi-Purpose Skull Clamp – Non-Invasive Set-Up Possibilities

Choose from a variety of different gel pad shapes and sizes for optimal patient stabilization in non-invasive surgical procedures. All of the pads can either be mounted to the lateral receptacles at the skull clamp or to the head support for maximized flexibility in patient positioning.

DORO® Disposable Skull Pins, Pediatric (36pcs) 3006-10
DORO® Pin Holder Pediatric 3020-01
DORO® Head Support (w/o Gel Pads) 3020-03
DORO® Multi-Purpose Skull Clamp 3020-50
DORO® Single Pin Holder 3020-55
DORO® Gel Head Ring w/ Base 90 mm (3pcs) 3020-61
DORO® Pin Holder Adjustable, Pediatric 3020-62
DORO® Gel Head Ring w/ Base 140 mm 3020-63
DORO® Adjustment Key 3020-65
DORO® Gel Ear Ring w/ Base 90 mm (2pcs) 3020-68
DORO® Trio Gel Pad (adjustable) 3020-71
DORO® Storage Case MPSC System 3020-001

Store it Safely

All DORO® Multi-Purpose Skull Clamp systems ship in a stable storage case.
Cranial Stabilization

Imaging Solutions

Intra-operative imaging allows to run diagnostic imaging during surgical procedures to support decision making on how to proceed with the case at hand. Having experienced the complexity of different imaging methods and surgical approaches, we strive to provide technically advanced yet easy to use products.
Our solutions support various intra-operative imaging modalities.

Please find the respective icon for the supported intra-op imaging modalities on the individual product page.

**Angiography**
The best imaging method to examine vascular structures. This method also makes needle guidance and catheter placement easier by visualizing it. Angiography is often used in the context of Fluoroscopy and Digital Subtraction Angiography.

**Computed Tomography**
Used for a precise, three dimensional view. It is also applied to locate and determine the size of a tumor. The method can be further used for skeletal, high- and low-contrast as well as perfusion imaging.

**Magnetic Resonance Imaging**
The best solution to get detailed images of organs and tissues. MRI is particularly applied when soft tissue, perfusion or diffusion-weighted images are needed helping to assess blood vessels.
The DORO LUCENT® Headrest System is the cranial stabilization system of choice for all procedures applying X-Ray & iCT Imaging. It features the completely metal free DORO® Skull Clamp Radiolucent with its beneficial Quick-Rail® interfaces for a quick and easy attachment of navigation tracking devices, retractor systems and other accessories. The DORO LUCENT® Base Unit features a completely new and streamlined design and is also available in a compact version.

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<th>Item Description</th>
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<tr>
<td>DORO LUCENT® Storage Case Headrest System</td>
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<td>DORO LUCENT® Base Unit</td>
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<td>DORO LUCENT® Locking Transitional Member</td>
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<tr>
<td>DORO® Skull Clamp Radiolucent</td>
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</tbody>
</table>

### High-End Imaging

DORO LUCENT® Disposable Skull Pins are perfectly stable and reduce imaging artifacts to a minimum (page 16).

### Rigid Fixation

Safely position the patient by means of the DORO® Skull Clamp Radiolucent.

### Fitting

The system connects to almost all OR table side-rail types.

### Adaptable

Compact Side Parts are additionally available.

### Safe

The form fitting design of the base unit provides a stable base for the entire system.

### Convenient Handling

Combined locking of transitional and sliding member.
Choose the DORO LUCENT® Headrest System that suits you best. If you need to keep a low profile, the DORO LUCENT® Base Unit Compact offers shortened side parts, minimizing the space between base unit and OR table.

**Easy to Read Pressure Scale**
Metric and imperial units.

**Reduced Risk of Lacerations**
No play between archholder and skull base when locked.

**Versatile**
Quick-Rail® Technology enables you to attach accessories and retractor systems easily, quickly, and securely to the skull clamp.

**Mix & Match**
The DORO® Skull Clamp Radiolucent can be mounted to DORO® Aluminum Swivel Adaptor and Base Unit by means of the Mix & Match Adaptor #3033-50 (page 23).

**Compact Version**

DORO® Skull Clamp Radiolucent
Item no. 3034-00
(shown with DORO LUCENT® Disposable Skull Pins, page 16).

DORO® Skull Clamp Radiolucent
Item no. 3034-00
(shown with DORO LUCENT® Disposable Skull Pins, page 16).

DORO® Skull Clamp Radiolucent
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Item no. 3034-00
(shown with DORO LUCENT® Disposable Skull Pins, page 16).

DORO® Skull Clamp Radiolucent
Item no. 3034-00
(shown with DORO LUCENT® Disposable Skull Pins, page 16).

DORO® Skull Clamp Radiolucent
Item no. 3034-00
(shown with DORO LUCENT® Disposable Skull Pins, page 16).

DORO® Skull Clamp Radiolucent
Item no. 3034-00
(shown with DORO LUCENT® Disposable Skull Pins, page 16).

DORO® Skull Clamp Radiolucent
Item no. 3034-00
(shown with DORO LUCENT® Disposable Skull Pins, page 16).
This modification of our metal-free DORO® Skull Clamp Radiolucent is designed for spinal surgeries and can be mounted to all established spinal OR tables and spinal frames. The slim design allows the skull clamp to be lowered between the rails of the open frame, simplifying patient positioning and imaging procedures.

**Freedom in Patient Positioning**
Unique shape allows lowering of the patient’s head between the rails of an open frame OR table.

**Versatile**
Quick-Rail® Technology enables you to attach accessories and retractor systems easily, quickly, and securely to the skull clamp.

**Mix & Match**
The DORO® Skull Clamp Radiolucent can be mounted to DORO® Aluminum Swivel Adaptor and Base Unit by means of the Mix & Match Adaptor #3033-50 (page 23) or to fitting counterparts of spinal frame table manufacturers.
Mix & Match

For Cranial Applications

Mix & Match the DORO® Skull Clamp Radiolucent with DORO® Aluminum Swivel Adaptors and Base Units.

DORO® Interface Skull Clamp
Radiolucent (to ALU Swivel Adaptor)
Item no. 3033-50

For Cranial and Cervical Spine Applications

Mix & Match the DORO® Radiolucent Skull Clamp and Swivel Adaptor with DORO® Aluminum Base Units.

DORO® Transitional Member
Radiolucent (to ALU Base Unit)
Item no. 3032-00

For Cervical Spine Applications

Mix & Match DORO® Aluminum Skull Clamps with the DORO® Radiolucent Swivel Adaptor, Transitional Member and Base Unit.

DORO® Interface Skull Clamp
Aluminum (to RDL Swivel Adaptor)
Item no. 3033-51
**DORO® Swivel Horseshoe Headrests Radiolucent**

DORO® Radiolucent Horseshoes are the best choice for procedures that do not require a rigid fixation. The products come with an extension bar for skeletal traction. The horseshoes feature a Quick-Rail® interface for the quick connection of DORO COBRA® Retractor Arms.

### Adult version

**DORO® Swivel Horseshoe Headrest Radiolucent**  
**Adult, with Extension Bar**  
Item no. 3036-00

**Included Items**  |  **Item no.**
--- | ---
DORO® Horseshoe Base Radiolucent with Extension Bar | 3036-50
DORO® Horseshoe Pad, Adult, right | 3009-10
DORO® Horseshoe Pad, Adult, left | 3009-11

### Pediatric version

**DORO® Swivel Horseshoe Headrest Radiolucent**  
**Pediatric, with Extension Bar**  
Item no. 3035-00

**Included Items**  |  **Item no.**
--- | ---
DORO® Horseshoe Base Radiolucent with Extension Bar | 3036-50
DORO® Horseshoe Pad, Pediatric, right | 3008-10
DORO® Horseshoe Pad, Pediatric, left | 3008-11

**Compact**  
Connect the Horseshoe RS directly to the DORO LUCENT® Transitional Member and benefit from a low profile.

**DORO® Horseshoe RS Headrest Radiolucent**

### Adult version

**DORO® Horseshoe RS Headrest Radiolucent,**  
**Adult, with Extension Bar**  
Item no. 3036-70

**Included Items**  |  **Item no.**
--- | ---
DORO® Horseshoe RS Base Radiolucent with Extension Bar | 3036-71
DORO® Horseshoe Pad, Adult, right | 3009-10
DORO® Horseshoe Pad, Adult, left | 3009-11

### Pediatric version

**DORO® Horseshoe RS Headrest Radiolucent,**  
**Pediatric, with Extension Bar**  
Item no. 3035-70

**Included Items**  |  **Item no.**
--- | ---
DORO® Horseshoe RS Base Radiolucent with Extension Bar | 3036-71
DORO® Horseshoe Pad, Pediatric, right | 3008-10
DORO® Horseshoe Pad, Pediatric, left | 3008-11

**Versatile**  
Attach DORO COBRA® Retractor Arms by means of the DORO COBRA® Quick-Clamp for Radiolucent Quick-Rail® (page 37).
The DORO LUCENT® Horseshoe Headrest ENT is designed to match the specific needs of patient positioning for ear, nose and throat procedures. You can directly mount it to the DORO LUCENT® Transitional Member which allows a low profile by having the open part of the horseshoe facing away from the OR table.

**Adult version**

<table>
<thead>
<tr>
<th>Included Items</th>
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<tr>
<td>DORO LUCENT® Horseshoe Headrest ENT, Adult RDL w/o Gel Pads</td>
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<tr>
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<td>3009-10</td>
</tr>
<tr>
<td>DORO® Horseshoe Pad, Adult, left</td>
<td>3009-11</td>
</tr>
</tbody>
</table>

Shown mounted to the DORO LUCENT® Base Unit.

**Pediatric version**

<table>
<thead>
<tr>
<th>Included Items</th>
<th>Item no.</th>
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<td>DORO LUCENT® Horseshoe Headrest ENT, Pediatric RDL w/o Gel Pads</td>
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<tr>
<td>DORO® Horseshoe Pad, Pediatric, right</td>
<td>3008-10</td>
</tr>
<tr>
<td>DORO® Horseshoe Pad, Pediatric, left</td>
<td>3008-11</td>
</tr>
</tbody>
</table>

**One Base Fits All**

DORO® Horseshoe Bases share the same gel pad holder design. This means that all our horseshoe gel pads can be mounted to every horseshoe base in our portfolio. The innovative design of the DORO® Horseshoe Base gives you the opportunity to quickly, adapt these products to adult or pediatric applications by mounting the respective gel pads, ensuring the optimal set-up for each of your patients.
**DORO LUCENT® Navigation Adaptors**

DORO® Navigation Adaptors Radiolucent offer a safe and stable interface for navigation reference arrays from Stryker®, Medtronic and Brainlab. They are directly mounted over the sterile drape to the Quick-Rail® of the DORO® Skull Clamp Radiolucent. These adaptors allow a close positioning of the respective navigation reference array to the patients head while keeping the sterile field intact.

**DORO LUCENT® Headrest System Accessories**

**DORO LUCENT® Navigation Adaptor Brainlab**
Item no. 3033-66
For Brainlab Reference Array 19145-01
with or without elongation 19145-02

**DORO LUCENT® Navigation Adaptor Medtronic**
Item no. 3033-65

**DORO LUCENT® Navigation Adaptor Stryker®**
Item no. 3033-64

**DORO LUCENT® Navigation Adaptor Brainlab**
Item no. 3033-66
For Brainlab Reference Array 19145-01
with or without elongation 19145-02

**DORO LUCENT® Navigation Adaptor Medtronic**
Item no. 3033-65

**DORO LUCENT® Navigation Adaptor Stryker®**
Item no. 3033-64

**DORO LUCENT® Swivel Adaptor Radiolucent**
Item no. 3033-00

**DORO LUCENT® Swivel Adaptor Radiolucent, short**
Item no. 3033-10

**DORO LUCENT® Universal DRF Adaptor Radiolucent (includes key)**
Item no. 3038-30

**DORO LUCENT® Storage Case Headrest System**
Item no. 1101.030

**DORO LUCENT® Locking Transitional Member**
Item no. 1101.031

**DORO LUCENT® Transitional Member**
Item no. 1101.026
DORO® Radiolucent OR Table Adaptors & Accessories

DORO® Angiography Table Adaptor
SIEMENS, Radiolucent
for Artis Table
Item no. 4003-00

DORO® Table Adaptor
medifa®, Radiolucent
for medifa® OR Table 8000
Item no. 4004.001

DORO® Table Adaptor
STERIS, Radiolucent
for STERIS Carbon OR Tables CMAX XRAY
Item no. 4004.002

DORO® Table Adaptor
MAQUET, Radiolucent
Item no. 3031-50
For Alphamaquet 1150 and Magnus 1180
and only in conjunction with MAQUET
Adaptor, MAQUET item no. 6005.25A0.

DORO® Transitional Member
Radiolucent, long (160 mm)
Item no. 3032-10
Compatible with DORO® Table Adaptors
Radiolucent, item nos 3031-50,
4003-00, 4004.001, 4004.002.

DORO® Transitional Member
Radiolucent, short (120 mm)
Item no. 3032-20
Compatible with DORO® Table Adaptors
Radiolucent, item nos 3031-50,
4003-00, 4004.001, 4004.002.

Which DORO® Radiolucent Table Adaptor set-up fits your needs?
Start with the OR table manufacturer at the bottom and work your way up to the DORO® solution that works best for you.
DORO LUCENT® iMRI Headrest Systems allow you to use all the beneficial features and the known workflow of a standard rigid 3-pin fixation in an iMRI environment. This technically advanced yet familiar-to-use product features a variant of our proven DORO® Skull Clamp Radiolucent which is mounted to the OR table’s transfer board by means of the DORO LUCENT® iMRI Parallelogram Adaptor, giving you the freedom you need to properly position patients for surgery.

**Familiar**
The classic 3-pin skull clamp design with ratcheting system allows you to rely on your trained routine and known workflows.

**Fast**
Directly mountable to transfer boards of selected OR table manufacturers.

**High-End Imaging**
DORO LUCENT® Disposable Skull Pins are perfectly stable and reduce imaging artifacts to a minimum (page 16).

**Flexible**
The parallelogram design supports you in properly positioning your patient for surgery.

DORO LUCENT® iMRI Headrest System
MAQUET
Item no. 4003.300
Which DORO LUCENT® iMRI Headrest System works for you?

Check the type of MRI scanner and OR table in your OR environment and compare it to the overview below to identify the DORO LUCENT® iMRI Headrest System that will fit your OR environment.

**MRI Scanner**
- GE
  - Signa / Optima / Discovery
- PHILIPS
  - Ingenia
- SIEMENS
  - Aera / Skyra

**OR Table with Transfer Table Top**
- MAQUET / GETINGE
  - Alphamaquet / Magnus / Otesus
- TRUMPF
  - TruSystem

**DORO LUCENT® Headrest System MAQUET**
Item no. 4003.300

<table>
<thead>
<tr>
<th>Included Items</th>
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<td>DORO® Skull Clamp Radiolucent</td>
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<tr>
<td>for DORO LUCENT® Parallelogram Adaptor</td>
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<tr>
<td>DORO® Headplate</td>
<td>4003.005</td>
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<tr>
<td>DORO® Adjusting Wrench for DORO LUCENT® Parallelogram Adaptor</td>
<td>4003.011</td>
</tr>
<tr>
<td>DORO LUCENT® Storage Case for Parallelogram Adaptors</td>
<td>4003.030</td>
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<td>DORO LUCENT® iMRI Parallelogram Adaptor MAQUET</td>
<td>4003.311</td>
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<tr>
<td>DORO LUCENT® iMRI Transfer Collision Indicator</td>
<td>4003.XXX</td>
</tr>
<tr>
<td>DORO LUCENT® Disposable Skull Pins, Adult (3 pcs)</td>
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</table>

With the first installation of a DORO LUCENT® iMRI Headrest System, an expert training is mandatory (page 31). Please contact your local DORO® representative for details.

**DORO LUCENT® Headrest System TRUMPF**
Item no. 4003.200

<table>
<thead>
<tr>
<th>Included Items</th>
<th>Item no.</th>
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<td>DORO LUCENT® iMRI Pad TRUMPF</td>
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<td>1106.003</td>
</tr>
<tr>
<td>DORO® Torx Screwdriver T45, nonmagnetic</td>
<td>3033-68</td>
</tr>
</tbody>
</table>

**Movement Capabilities**

DORO LUCENT® Parallelogram Adaptors allow you to shift, tilt, angle and rotate the skull clamp to always find a fitting position for your patient.
The DORO LUCENT® iXI Headrest System increases your diagnostic capabilities as it supports intra-operative MR, CT and Angio imaging. This enables you and your team to run diagnostics on bone and tissue within the same surgery, resulting in a more precise treatment with lower time consumption compared to separate imaging approaches.

**State-of-the-Art**
The DORO LUCENT® iXI Headrest System is a dedicated multimodality imaging solution designed for use with a MAQUET / GETINGE Magnus OR Tables and SIEMENS Nexaris Imaging Suites.

**Extensible Quick-Rail® Technology**
Technology enables you to attach accessories and retractor systems easily, quickly, and securely to the skull clamp.

**Familiar**
The classic skull clamp design lets you apply your known routines and workflows.

**An Optimized Workflow**
Position the patient as required for surgery before starting the actual pinning procedure with the DORO LUCENT® Headplate. This makes further movements of the sedated patient unnecessary, resulting in reduced procedural risk, less stress for the patient and increased convenience for you and your team.

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**Included Items**

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Description</th>
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<td>1106.003</td>
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</table>

With the first installation of a DORO LUCENT® iXI Headrest System, an expert training is mandatory (page 31). Please contact your local DORO® representative for details.
DORO LUCENT® Product Trainings

Dedicated products like the DORO LUCENT® iMRI or iXI Headrest Systems come as part of a larger iMRI or multimodality imaging installation. Before you start conducting live cases with these state-of-the-art products we will train you in their use. We explain functions, simulate workflows, and assist you in matching them to your distinct needs. These training sessions are held on site, in your facility, with you and your team, to offer the best possible education. DORO® application specialists will cover essential and advanced product knowledge and will match the training to your OR environment. The training will especially focus on overall system set-up & movement capabilities as well as patient positioning and clinical workflow subject to the respective imaging modality.

DORO LUCENT®  iMRI & iXI Accessories

DORO LUCENT® Headplate  
Item no. 4003.005

DORO LUCENT® iMRI Pad TRUMPF  
Item no. 4003.212

DORO LUCENT® Storage Case for Parallelogram Adaptors  
Item no. 4003.030

DORO® Adjusting Wrench for DORO LUCENT® Parallelogram Adaptor  
Item no. 4003.011

DORO® Torx Screwdriver T45, nonmagnetic  
Item no. 3033-68

DORO LUCENT® iMRI Transfer Collision Indicator  
Item no. 4003.XXX

DORO LUCENT® iXI Transfer Collision Indicator  
Item no. 4003.5XX
Retractor Systems

Surgeries are often connected to time-critical or stressful situations. Having to work under pressure demands the highest level of concentration. To enable you to focus on your work, we are driven to develop retractor systems which ease your workflow. Easy to set-up, convenient to use, comfortable as a hand rest, these systems will support you during the whole surgical procedure.
DORO LUNA® Retractor System

The DORO LUNA® Retractor System is made to support you in every surgery. Its open design allows you to always keep the curves parallel to the floor, independently of patient and skull clamp positioning. Tilt, shift and angle the system into any position you need and you will still be able to use the curves as a comfortable hand rest and retractor arm interface. The variability of the DORO LUNA® Retractor System can be further enhanced with additional adaptors, making it the most versatile retractor system to date.

The DORO LUNA® Retractor System is the winner of the 2015 Freiburg Innovation Award.

Convenient
Snap-on attachment of DORO COBRA® Flexible Rotary Arms on any desired position on the curve.

Supportive
Ergonomic design makes the DORO LUNA® Curve the optimal hand support. It can be positioned parallel to the floor, independently of skull clamp position.

Easy
No extra tools are needed to mount and use DORO LUNA® Retractor Systems.

Fast
DORO LUNA® attaches directly to the Quick-Rail®, even over multiple layers of sterile drape.

DORO LUNA® Retractor System Standard
Item no. 1203.100
(shown mounted to the DORO® QR3 Skull Clamp)
**DORO LUNA® Retractor System – Standard System**  
Item no. 1203.100

<table>
<thead>
<tr>
<th>Included Items</th>
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<tr>
<td>DORO COBRA® Flexible Rotary Arm 280mm (2 pcs)</td>
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<tr>
<td>DORO® Retractor Sterilization Tray</td>
<td>1201.091</td>
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<tr>
<td>DORO LUNA® Quick-Clamp for Quick-Rail® (2 pcs)</td>
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<tr>
<td>DORO LUNA® Coupling (4 pcs)</td>
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<tr>
<td>DORO LUNA® Rod (2 pcs)</td>
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<tr>
<td>DORO LUNA® Curve (2 pcs)</td>
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<td>DORO LUNA® Sterilization Tray</td>
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<tr>
<td>DORO® Blade Set 102 mm, Black Coated, 5 pcs (2 sets)</td>
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**DORO LUNA® Retractor System – Compact System**  
Item no. 1203.200

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<td>DORO COBRA® Flexible Rotary Arm 280mm (2 pcs)</td>
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<td>DORO LUNA® Quick-Clamp for Quick-Rail®</td>
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<tr>
<td>DORO® Blade Set 102 mm, Black Coated, 5 pcs (2 sets)</td>
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</tbody>
</table>

**Get the Bundle**

**DORO LUNA® Standard Retractor System & DORO® QR3 Skull Clamp**  
Item no. 1203.110

**DORO LUNA® Standard Retractor System & DORO® QR3 Headrest System**  
Item no. 1203.120

**Get the Bundle**

**DORO LUNA® Compact Retractor System & DORO® QR3 Skull Clamp**  
Item no. 1203.210

**DORO LUNA® Compact Retractor System & DORO® QR3 Headrest System**  
Item no. 1203.220

---

**A Highly Flexible Interface**

Unfold the full potential of your DORO LUNA® & DORO COBRA® products by combining them in various set-ups. Mount half a DORO LUNA® Retractor System as a hand support while directly connecting DORO COBRA® Flexible Rotary Arms to the Quick-Rail® of the skull clamp, either in an imaging or in a non-imaging environment.

![DORO COBRA® Retractor System mounted to the DORO® QR3 Skull Clamp.](image1)

![DORO LUNA® Retractor System mounted to the DORO® QR3 Skull Clamp.](image2)

![DORO LUNA® & DORO COBRA® combined set-up mounted to the DORO® Skull Clamp Radiolucent.](image3)
DORO COBRA® Retractor System

The DORO COBRA® Retractor System is the retractor system of choice for maximum visibility and access to the surgical site. DORO COBRA® Flexible Rotary Arms are directly mounted to the Quick-Rail® of either the DORO® QR3 Skull Clamp or the DORO® Skull Clamp Radiolucent. A combined set-up with DORO LUNA® components is possible and grants enhanced set-up and application possibilities.

DORO COBRA® Retractor System
Item no. 1201.100
(shown mounted to the DORO® QR3 Skull Clamp)

DORO COBRA® Retractor System for Aluminum Quick-Rail®
Item no. 1201.100

<table>
<thead>
<tr>
<th>Included Items</th>
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<tr>
<td>DORO COBRA® Flexible Rotary Arm 420 mm</td>
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<tr>
<td>DORO® Retractor Sterilization Tray</td>
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</table>

Unobstructive
The DORO COBRA® Retractor System leaves you all the space you need to perform your surgery. You would like to use a comfortable hand support with it? Just mount a DORO LUNA® Compact Retractor System (page 35) to the other side of the skull clamp.
Mix & Match

DORO COBRA®
Mix & Match the DORO COBRA® Retractor System with the DORO® Skull Clamp Radiolucent.

DORO COBRA® Quick-Clamp for Radiolucent Quick-Rail®
Item no. 1201.022

DORO COBRA® Retractor System for Radiolucent Quick-Rail®
Item no. 1201.109

DORO LUNA®
Mix & Match the DORO LUNA® Retractor System with the DORO® Skull Clamp Radiolucent.

DORO LUNA® Quick-Clamp for Radiolucent Quick-Rail®
Item no. 1203.009

DORO LUNA® Retractor System - Standard System for Radiolucent Quick-Rail®
Item no. 1203.109

DORO LUNA® Retractor System - Compact System for Radiolucent Quick-Rail®
Item no. 1203.209
DORO COBRA® Flexible Rotary Arms

DORO COBRA® Flexible Rotary Arms are smooth and very precise in their movement. Just clip them on their form-fitting counterparts like the DORO LUNA® Curve or the DORO COBRA® Quick-Clamps, mount a DORO® Brain Spatula and continue your procedure. All DORO COBRA® Retractor Arms share the ability to be quickly adjusted, even without releasing the arm’s tension.

<table>
<thead>
<tr>
<th>DORO COBRA® Flexible Rotary Arms</th>
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<td>DORO COBRA® Flexible Rotary Arm 280 mm</td>
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<td>DORO COBRA® Flexible Rotary Arm 350 mm</td>
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<tr>
<td>DORO COBRA® Flexible Rotary Arm 420 mm</td>
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Quick Adjustments Under Tension
Even under tension, repositioning of the attached brain spatula is possible. Neither the tension of the retractor arm nor the stiffness of the brain spatula will be lost while doing so.

Flexible
Four different lengths and a 360° rotational body let you position the DORO COBRA® Flexible Rotary Arms precisely at the location where you need them, gaining a high visibility on your surgical site.

Fast to Mount
The Snap-On technology allows to quickly, and easily mount DORO COBRA® Flexible Rotary Arms.

DORO® Flexible Arms

<table>
<thead>
<tr>
<th>DORO® Flexible Arms</th>
<th>Item no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DORO® Flexible Arm 230 mm</td>
<td>3114-34</td>
</tr>
<tr>
<td>DORO® Flexible Arm 300 mm</td>
<td>3114-35</td>
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<thead>
<tr>
<th>DORO® Flexible Rotary Arms</th>
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<tbody>
<tr>
<td>DORO® Flexible Rotary Arm 200 mm</td>
<td>3114-36</td>
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<tr>
<td>DORO® Flexible Rotary Arm 280 mm</td>
<td>3114-37</td>
</tr>
<tr>
<td>DORO® Flexible Rotary Arm 350 mm</td>
<td>3114-38</td>
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</table>
DORO® Quick-Clamp with Starburst for Radiolucent Quick-Rail®

The DORO® Quick-Clamp with Starburst for Radiolucent Quick-Rail® serves as an intuitive interface* for devices used for example in frameless stereotactic or endoscopic procedures. Designed for use over the sterile barrier and form-fittingly connected to the proven Quick-Rail® of the DORO® Skull Clamp Radiolucent, the adaptor provides a stable and secure connection point for third party devices.

*The interface is designed to bear a max. load of 16.8 Nm (which equals a weight of 3.4 kg attached to a horizontally mounted, 50 cm long arm). It is validated for use with the Brainlab VarioGuide®. It is the responsibility of the user to verify that third party devices can safely be secured to the DORO® Quick-Clamp with Starburst for Radiolucent Quick-Rail®. The product is shown mounted to a DORO® Skull Clamp Radiolucent.
The DORO® Halo Retractor System features the classic halo ring design. You can easily attach it to the Quick-Rail® of DORO® QR3 Skull Clamps by means of the DORO® Quick-Clamp or to older skull clamp versions by means of the alternatively available C-Clamp. Rotary retractor arms, brain spatulas and accessories are available.

Compatible
The DORO® Halo Retractor System fits almost all common skull clamps, either by means of the form-fitting Quick-Rail® interface or by means of the C-Clamp.

DORO® Quick-Clamp Halo Retractor System
Item no. 1202.100T

<table>
<thead>
<tr>
<th>Included Items</th>
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<tbody>
<tr>
<td>DORO® Quick-Clamp Halo Coupling Set (2 pcs)</td>
<td>1202.010</td>
</tr>
<tr>
<td>DORO® Halo Ring</td>
<td>3110-01</td>
</tr>
<tr>
<td>DORO® Halo Support Rod 8 mm (2 pcs)</td>
<td>3110-08</td>
</tr>
<tr>
<td>DORO® Halo Universal Key (2 pcs)</td>
<td>3110-80</td>
</tr>
<tr>
<td>DORO® Halo Pattie Tray</td>
<td>3110-85</td>
</tr>
<tr>
<td>DORO® Flexible Rotary Arm 280 mm (3 pcs)</td>
<td>3114-37</td>
</tr>
<tr>
<td>DORO® Blade Set 102 mm, Black Coated, 5 pcs (2 sets)</td>
<td>3116-101</td>
</tr>
<tr>
<td>DORO® Micro Blade Set, 6 pcs</td>
<td>3116-20</td>
</tr>
<tr>
<td>DORO® Halo Sterilization Case w/ Rack</td>
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DORO® Halo Retractor System w/ C-Clamp
Item no. 3100-00

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<th>Included Items</th>
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<td>DORO® Halo Ring</td>
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<td>DORO® Halo Support Rod 8 mm (2 pcs)</td>
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<tr>
<td>DORO® Halo Support Bracket w/ C-Clamp Adaptor (2 pcs)</td>
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<td>DORO® Halo Universal Key (2 pcs)</td>
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<td>DORO® Halo Pattie Tray</td>
<td>3110-85</td>
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<tr>
<td>DORO® Flexible Arm 230 mm (3 pcs)</td>
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<tr>
<td>DORO® Blade Set 102 mm, Black Coated, 5 pcs (2 sets)</td>
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<td>DORO® Micro Blade Set, 6 pcs</td>
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<td>DORO® Halo Sterilization Case w/ Rack</td>
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</table>
**DORO® Retractor Accessories**

- **DORO® Quick-Clamp**
  Item no. 1202.014

- **DORO® Quick-Clamp Coupling Universal**
  Item no. 1202.015

- **DORO® Halo Support Rod Holder**
  Item no. 1202.016

- **DORO® Quick-Clamp Halo Coupling Set**
  Item no. 1202.010

- **DORO® Quick-Clamp with Interface Mizuho-Type Retractors**
  Item no. 1201.045

- **DORO® Halo Ring**
  Item no. 3110-01

- **DORO® Halo Support Rod 8mm**
  Item no. 3110-08

- **DORO® Halo Support Bracket with C-Clamp Adaptor**
  Item no. 3110-51

- **DORO® Halo Pattie Tray**
  Item no. 3110-85

- **DORO® Halo Universal Key**
  Item no. 3110-80

- **DORO® Mini Vice**
  Item no. 3114-54

---

**DORO® Sterilization Trays**

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<tr>
<td>DORO® Retractor Sterilization Tray (shown)</td>
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<tr>
<td>DORO LUNA® Sterilization Tray (shown)</td>
<td>1203.091</td>
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<tr>
<td>DORO® Halo Sterilization Case w/ Rack</td>
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<tr>
<td>DORO® Pattie Tray Silicone Insert for Sterilization Tray</td>
<td>1201.092</td>
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## DORO® Micro Blades

### DORO® Micro Blade Set, 6 pcs.
**Item no.** 3116-20

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<thead>
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<td>124 x 4 mm</td>
<td>3116-22</td>
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<tr>
<td>150 x 2 mm</td>
<td>3116-23</td>
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<td>150 x 4 mm</td>
<td>3116-24</td>
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<td>165 x 2 mm</td>
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<td>165 x 4 mm</td>
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### DORO® Micro Blade Set, Serrated, 6 pcs.
**Item no.** 3116-30

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<td>150 x 2 mm</td>
<td>3116-33</td>
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<td>164 x 2 mm</td>
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<td>164 x 4 mm</td>
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### DORO® Micro Blade Set, Hooked, 6 pcs.
**Item no.** 3116-40

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<td>164 x 4 mm</td>
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**Want to Use Your Own Blades?**

Do you want to use our state-of-the-art DORO COBRA® Flexible Rotary Arms in combination with brain spatulas you are already familiar with? The DORO® Adaptor for Flat Brain Spatulas is the right choice as it attaches to all DORO® Retractor Arms and holds all common flat brain spatulas. But try out our blades at least once... you might actually like them.
**DORO® Blades**

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### DORO® Blade Set 152 mm, Black Coated, 5 pcs.

**Item no. 3116-10**

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<td>152 x 10 mm</td>
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<td>152 x 16 mm</td>
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<td>152 x 20 mm</td>
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<td>152 x 26 mm</td>
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### DORO® Blade Set 102 mm, Black Coated, 5 pcs.

**Item no. 3116-101**

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### DORO® Blade Set 102 mm, Conical, Black Coated, 5 pcs.

**Item no. 3116-601**

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<td>102 x 5 mm</td>
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<tr>
<td>102 x 6 mm</td>
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### DORO® Blade Set 152 mm, Conical, Black Coated, 5 pcs.

**Item no. 3116-60**

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<td>152 x 5 mm</td>
<td>3116-64</td>
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<tr>
<td>152 x 6 mm</td>
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### DORO® Blade Set 102 mm, Rounded Tip, Black Coated, 5 pcs.

**Item no. 3116-70**

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<td>102 x 10 mm</td>
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<td>102 x 16 mm</td>
<td>3116-73</td>
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<td>102 x 20 mm</td>
<td>3116-74</td>
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<tr>
<td>102 x 26 mm</td>
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</tr>
</tbody>
</table>

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**Why Black?**

The black matt finish of our blades prevents reflections from the dazzling light focused on the surgical site during procedures and lets you concentrate on your procedure without interruptions.

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**Connectivity guaranteed**

DORO® Blades and Micro Blades fit all DORO® and DORO COBRA® Retractor Arms.