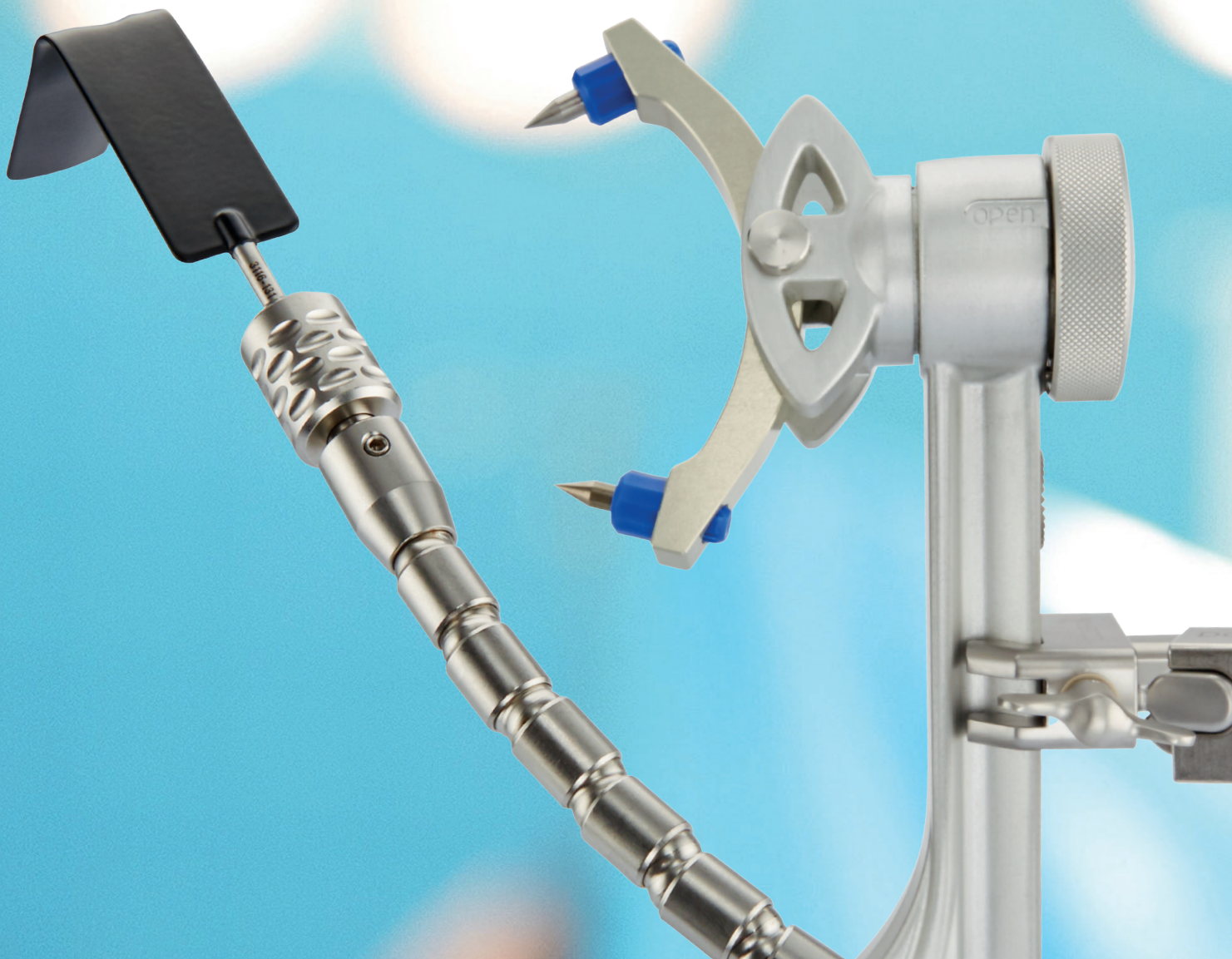![pmi pro med instruments logo]

DORO®

Cranial Stabilization & Retractor Systems

Thank you
for your interest in our products!

Because we share your sense for precision, quality is in everything we do. PMI proudly stands behind our state-of-the-art solutions which are designed to support you in your daily tasks.

The PMI 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
Owner & Managing Director

Roman Maier
Managing Director

Patrick Lux
Managing Director

Get connected

CONTENTS

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."

DORO® QR3 Headrest System

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.

DORO® **QR3 Headrest System** Item no. 1001.100 (shown with DORO® Skull Pins)	
Included Items	**Item no.**
DORO® QR3 Skull Clamp	1001.001
DORO® Swivel Adaptor Aluminum	3002-00
DORO® Base Unit Aluminum	3001-00

DORO® Storage Case Headrest System
Item no. 1001.030
(optionally available).

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).

DORO® QR3 Headrest System
Item no. 1001.100

Easy to Read Pressure Scale
Metric and imperial units.

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

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

Spacious
Due to its unique shape there is always enough free space to place the intubation tube, even in prone position.

Easy, Safe and Stable Interface
Attach DORO LUNA®, DORO COBRA® or Quick-Clamp products to the form-fitting Quick-Rail® interface (Infobox below).
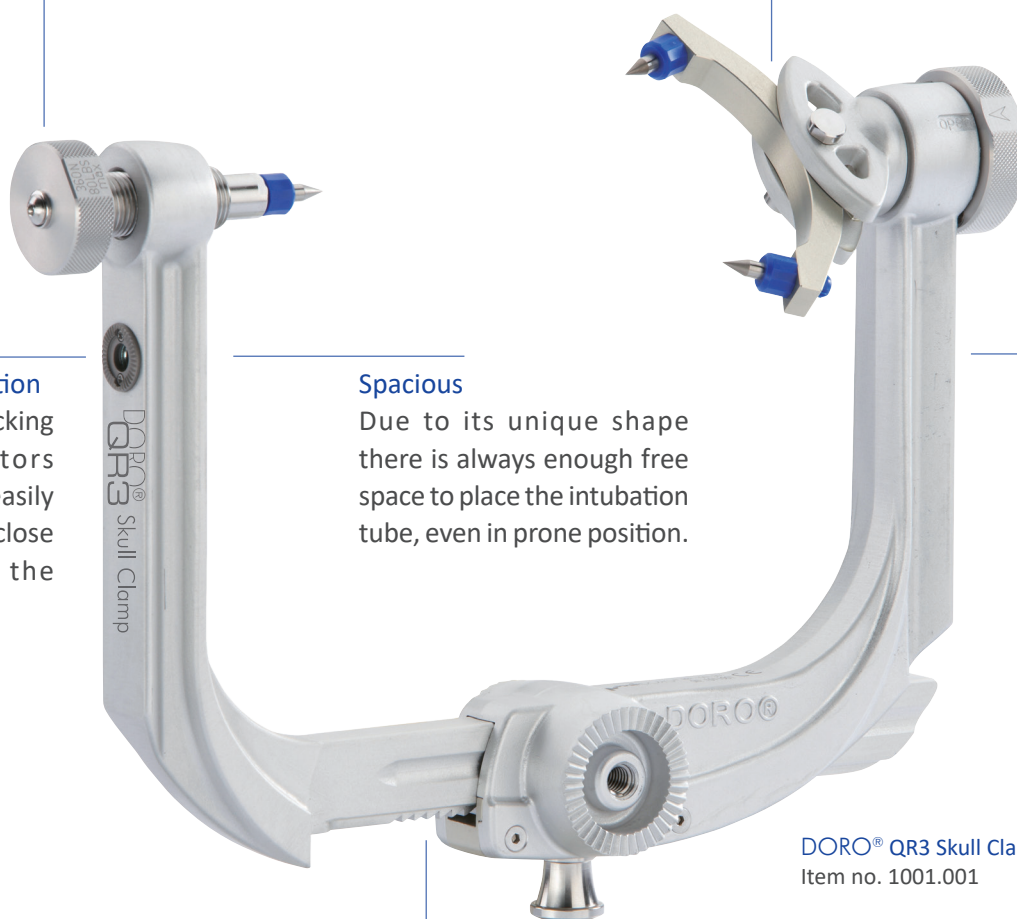
DORO® QR3 Skull Clamp
Item no. 1001.001

Stable
Minimum play between the skull clamp base and the extension arm ensures high stability and a reduced risk to lost navigation.

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®
QR3

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
Takara Belmont
Item no. 3001-001
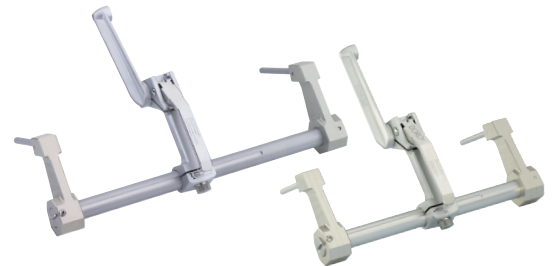
DORO® Adjustable Base Unit
Mizuho
Item no. 3001-002

Mizuho, short
Item no. 1001.023

DORO® Adjustable Base Unit
Eschmann
Item no. 3001-003
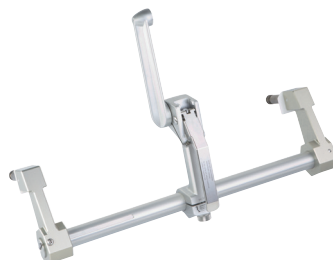
DORO® Adjustable Base Unit
Eschmann T-Series
Item no. 3001-010

DORO® Adjustable Base Unit
Australia
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
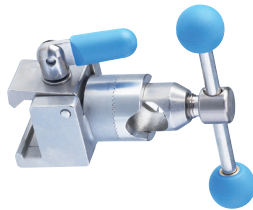
Trumpf Universal Side Rail Fitting
Item no. 3007-50

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

Stryker Armrest Parkbench
Item no. 3001-007

DORO® Crossbar Adaptor

The DORO® Crossbar Adaptor is the perfect solution for all aproaches 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® Reusable Skull Pins

DORO® Reusable Skull Pins Stainless Steel Adult
Color: Black
Item no. 3005-00
(3 pins)

DORO® Reusable Skull Pins Stainless Steel Pediatric
Color: Black
Item no. 3004-00
(3 pins)

DORO® Reusable Skull Pins Titanium Adult
Color: Blue
Item no. 3005-50
(3 pins)

DORO® Reusable Skull Pins Titanium Pediatric
Color: Blue
Item no. 3004-50
(3 pins)

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. 3006-50
(36 pins), sterile

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.

DORO LUCENT® Disposable Skull Pins
Adult, sterile
Color: Black
Item no. 1106.003 (3 pins)
Item no. 1106.103 (9 pins)

DORO® QR3 Headrest System Teflon®

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®
Item no. 3003-100
(shown with DORO® Skull Pins)

Included Items	Item no.
DORO® Skull Clamp Teflon®	3003-009
DORO® Swivel Adaptor Teflon®	3002-009
DORO® Adjustable Base Unit Teflon®	3001-009

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® QR3 Headrest System Teflon®
Item no. 3003-100

DORO® Storage Case Headrest System
Item no. 1001.030
(optionally available).

DORO® Aluminum   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

DORO® Swivel Horseshoe Headrest System, Adult with Extension Bar Item no. 3009-00	
Included Items	**Item no.**
DORO® Horseshoe Base	3009-01
DORO® Horseshoe Pad, Adult, right	3009-10
DORO® Horseshoe Pad, Adult, left	3009-11
DORO® Extension Bar Horseshoe	3009-25

DORO® Swivel Horseshoe Headrest System, Adult without Extension Bar Item no. 3009-02	
Included Items	**Item no.**
DORO® Horseshoe Base	3009-01
DORO® Horseshoe Pad, Adult, right	3009-10
DORO® Horseshoe Pad, Adult, left	3009-11

Pediatric versions

DORO® Swivel Horseshoe Headrest System, Pediatric with Extension Bar Item no. 3008-00	
Included Items	**Item no.**
DORO® Horseshoe Base	3009-01
DORO® Horseshoe Pad, Pediatric, right	3008-10
DORO® Horseshoe Pad, Pediatric, left	3008-11
DORO® Extension Bar Horseshoe	3009-25

DORO® Swivel Horseshoe Headrest System, Pediatric without Extension Bar Item no. 3008-02	
Included Items	**Item no.**
DORO® Horseshoe Base	3009-01
DORO® Horseshoe Pad, Pediatric, right	3008-10
DORO® Horseshoe Pad, Pediatric, left	3008-11

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.

DORO® Multi-Purpose Skull Clamp

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.

DORO® Extension Bar
90 N/20 lbs
Item no. 3020-52

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.

Patient	Adult		Pediatric
Head Positioning	Invasive & Non-Invasive	Non-Invasive only	Invasive & Non-Invasive
DORO® Solution	3022-00	3020-00	3021-00 or 3022-00
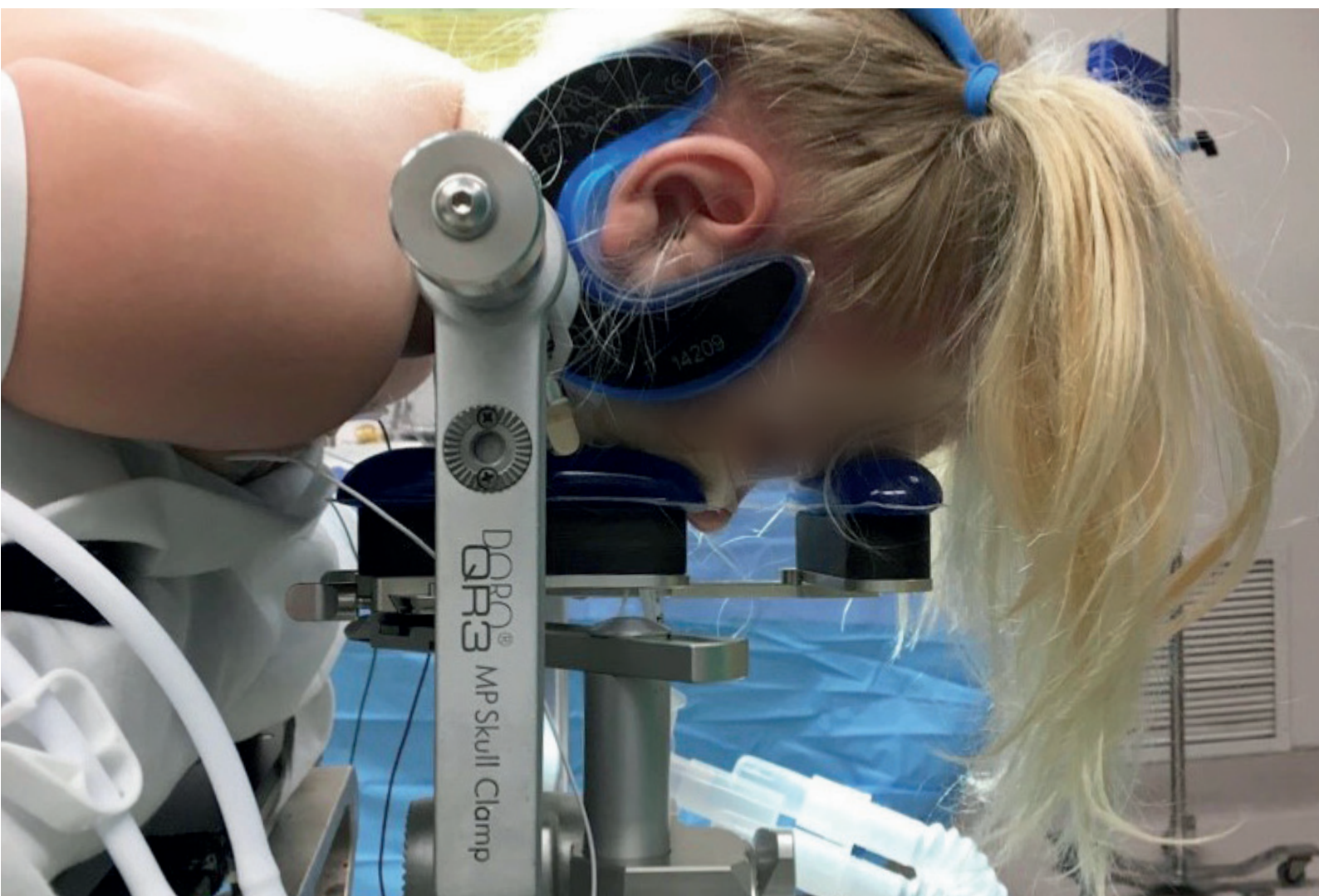
DORO® **Multi-Purpose Skull Clamp – Invasive Set-Up Possibilities**

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.

DORO® Single Pin Holder
Item no. 3020-55

DORO® Pin Holder, Adjustable, Pediatric
Item no. 3020-62

DORO® PMT® Halo System Holder
Item no. 1002.067

DORO® Pin Holder, Pediatric
Item no. 3020-01

DORO® Pin Holder, Adult
Item no. 3020-56

DORO® Multi-Purpose Skull Clamp
Invasive Pediatric Set-Up

DORO® **Abbott Multi-Purpose Skull Clamp System Pediatric,** Item no. 3021-00	
Included Items	Item no.
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® Extension Bar 90N/20lbs	3020-52
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

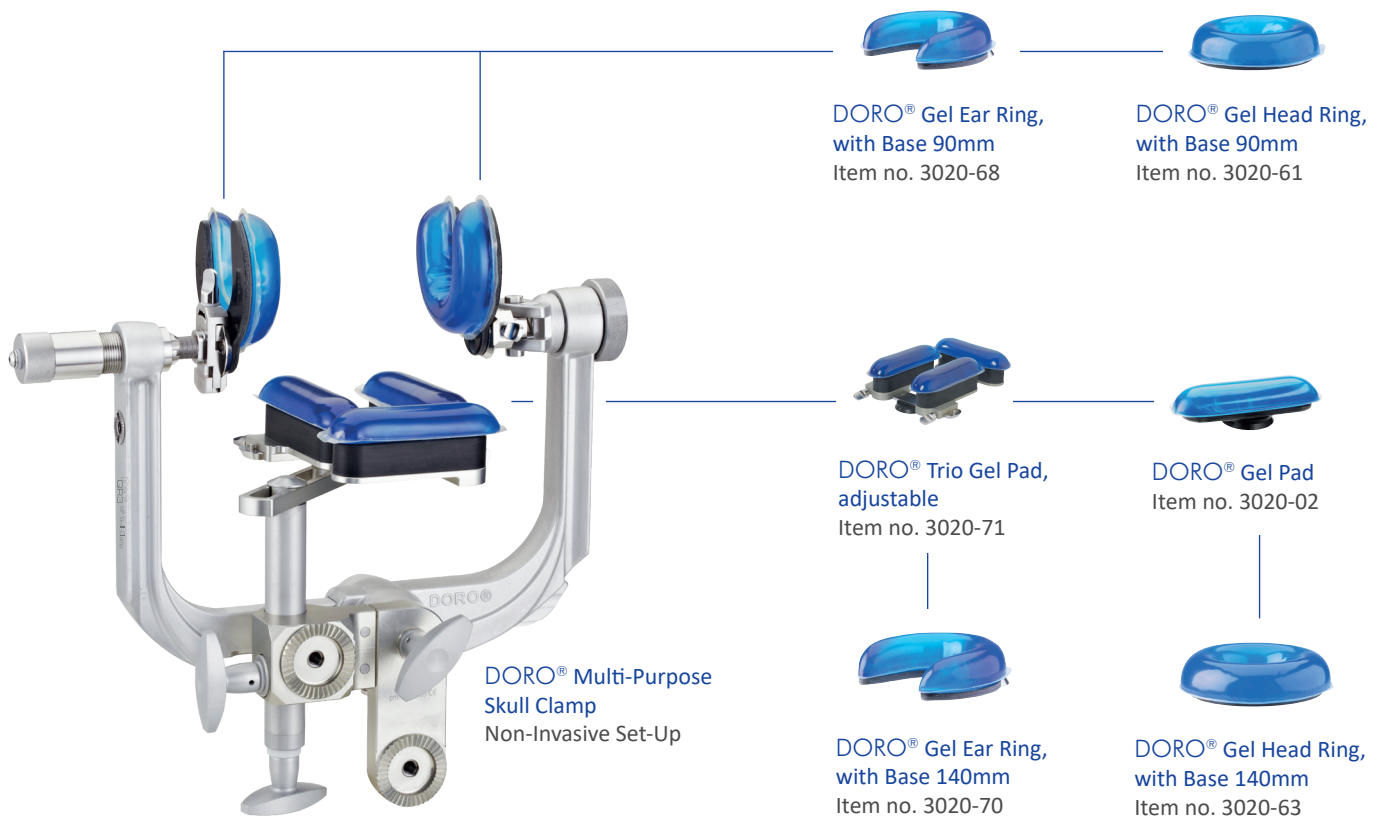| DORO® **Universal Multi-Purpose Skull Clamp System** Item no. 3022-00	
Included Items	Item no.
DORO® Disposable Skull Pins, Adult (36pcs)	3006-00
DORO® Disposable Skull Pins, Pediatric (36pcs)	3006-10
DORO® Pin Holder Pediatric	3020-01
DORO® Gel Pad	3020-02
DORO® Head Support (w/o Gel Pads)	3020-03
DORO® Multi-Purpose Skull Clamp	3020-50
DORO® Extension Bar 90N/20lbs	3020-52
DORO® Single Pin Holder	3020-55
DORO® Pin Holder Adult	3020-56
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

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® Gel Ear Ring, with Base 90mm
Item no. 3020-68

DORO® Gel Head Ring, with Base 90mm
Item no. 3020-61

DORO® Trio Gel Pad, adjustable
Item no. 3020-71

DORO® Gel Pad
Item no. 3020-02

DORO® Multi-Purpose Skull Clamp
Non-Invasive Set-Up

DORO® Gel Ear Ring, with Base 140mm
Item no. 3020-70

DORO® Gel Head Ring, with Base 140mm
Item no. 3020-63

DORO® **Multi-Purpose Skull Clamp System** Item no. 3020-00	
Included Items	**Item no.**
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.

Storage Case MPSC System
Item no. 3020-001
(shown with Multi-Purpose Skull Clamp and Accessories).

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.

DORO LUCENT® Headrest System

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.

DORO LUCENT® **Headrest System** Item no. 1101.020	
Included Items	**Item no.**
DORO LUCENT® Disposable Skull Pins, Adult	1106.003
DORO LUCENT® Storage Case Headrest System	1101.030
DORO LUCENT® Base Unit	1101.021
DORO LUCENT® Locking Transitional Member	1101.031
DORO LUCENT® Transitional Member	1101.026
DORO® Swivel Adaptor Radiolucent	3033-00
DORO® Skull Clamp Radiolucent	3034-00

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.

DORO LUCENT® Headrest System
Item no. 1101.020
(shown with DORO LUCENT® Disposable Skull Pins, page 16).

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.

Easy to Read Pressure Scale
Metric and imperial units.

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

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

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

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.

DORO LUCENT® Base Unit Compact
Item no. 1101.022

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.
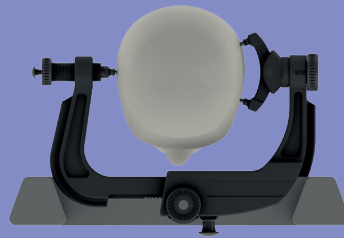
Standard DORO® Skull Clamp Radiolucent shown mounted to a MIZUHO OSI Insite® table.

DORO® Skull Clamp Radiolucent for Spinal Frames shown mounted to a MIZUHO OSI Insite® table.

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

DORO® Skull Clamp Radiolucent for Spinal Frames
Item no. 4004.101

(shown with DORO LUCENT® Disposable Skull Pins, page 16).

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
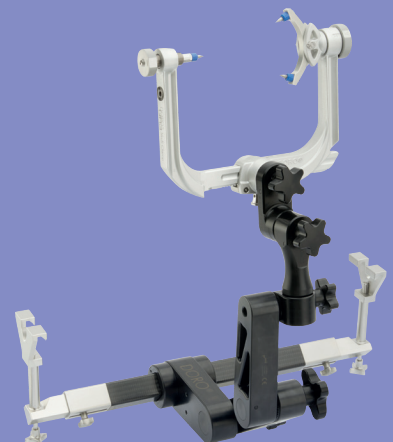Radiolucent (to ALU Base Unit)
Item no. 3032-00

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

Versatile
Attach DORO COBRA® Retractor Arms by means of the DORO COBRA® Quick-Clamp for Radiolucent Quick-Rail® (page 37).

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

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

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

DORO LUCENT® **Horseshoe Headrest ENT, Adult** Item no. 1101.007	
Included Items	**Item no.**
DORO LUCENT® Horseshoe Headrest ENT, RDL w/o Gel Pads	1101.006
DORO® Horseshoe Pad, Adult, right	3009-10
DORO® Horseshoe Pad, Adult, left	3009-11

Shown mounted to the DORO LUCENT® Base Unit.

Pediatric version

DORO LUCENT® **Horseshoe Headrest ENT, Pediatric** Item no. 1101.008	
Included Items	**Item no.**
DORO LUCENT® Horseshoe Headrest ENT, RDL w/o Gel Pads	1101.006
DORO® Horseshoe Pad, Pediatric, right	3008-10
DORO® Horseshoe Pad, Pediatric, left	3008-11

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®
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® Headrest System Accessories

DORO® Swivel Adaptor
Radiolucent
Item no. 3033-00

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

Key

DORO® 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®
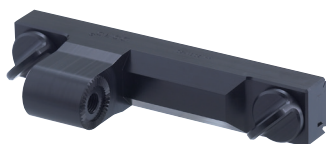Transitional Member
Item no. 1101.026

**DORO® 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.

3036-70
3036-71

3035-00
3036-00

3034-00

4004.001

3033-00
or
3033-10

3032-20

3032-10

3031-50

4004.001

4003-00

4004.002

MAQUET OR Table

MEDIFA OR Table

SIEMENS OR Table

STERIS OR Table

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.

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

Familiar
The classic 3-pin skull clamp design with ratcheting system allows you to rely on your trained routine and known workflows.
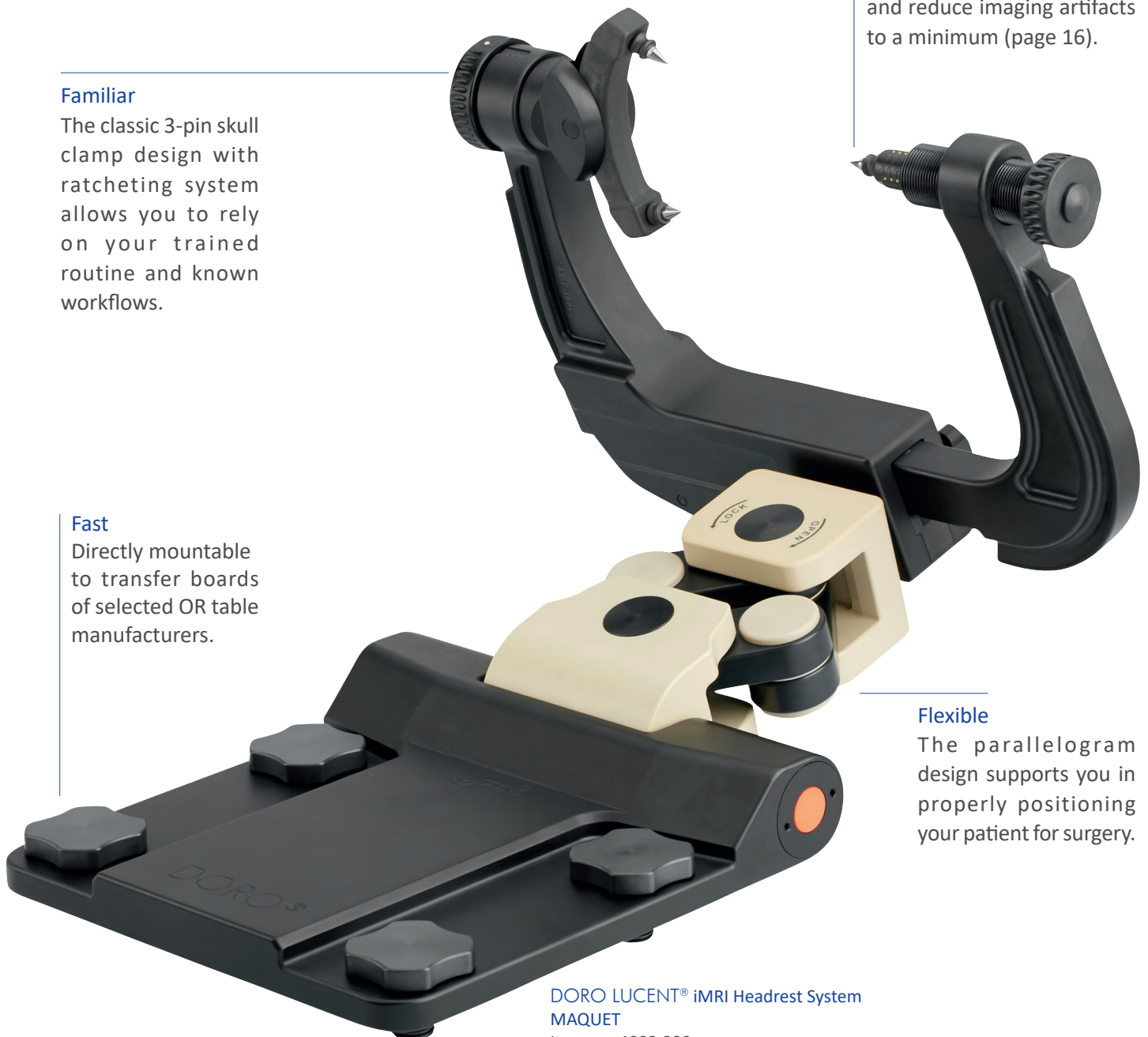
Fast
Directly mountable to transfer boards of selected OR table manufacturers.

Flexible
The parallelogram design supports you in properly positioning your patient for surgery.
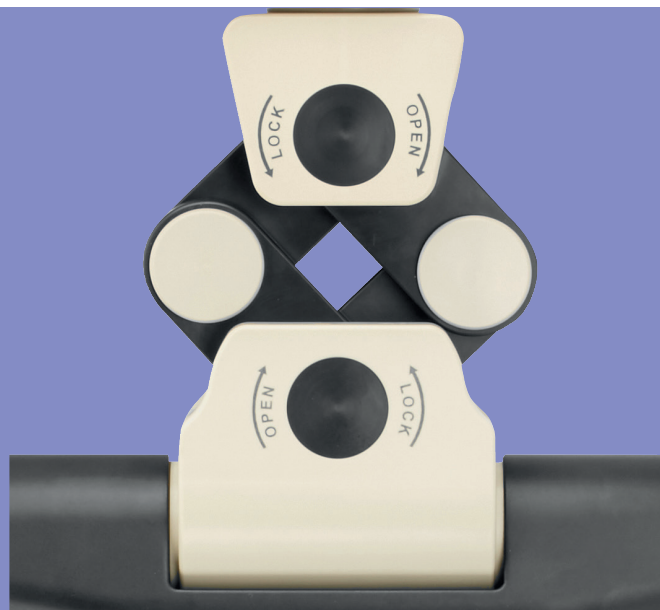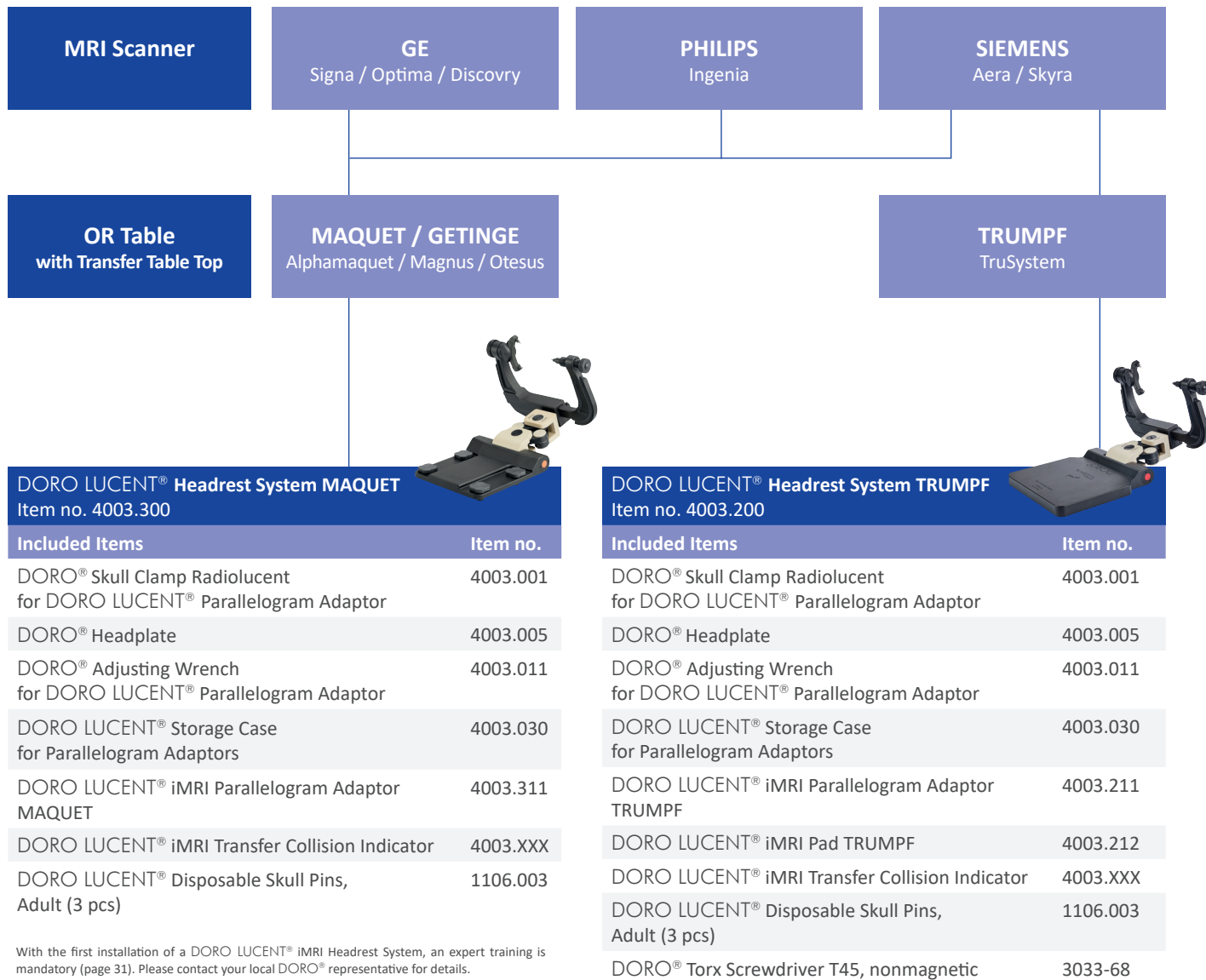
DORO LUCENT® iMRI Headrest System
MAQUET
Item no. 4003.300

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 / Discovry	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

Included Items	Item no.
DORO® Skull Clamp Radiolucent for DORO LUCENT® Parallelogram Adaptor	4003.001
DORO® Headplate	4003.005
DORO® Adjusting Wrench for DORO LUCENT® Parallelogram Adaptor	4003.011
DORO LUCENT® Storage Case for Parallelogram Adaptors	4003.030
DORO LUCENT® iMRI Parallelogram Adaptor MAQUET	4003.311
DORO LUCENT® iMRI Transfer Collision Indicator	4003.XXX
DORO LUCENT® Disposable Skull Pins, Adult (3 pcs)	1106.003

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

Included Items	Item no.
DORO® Skull Clamp Radiolucent for DORO LUCENT® Parallelogram Adaptor	4003.001
DORO® Headplate	4003.005
DORO® Adjusting Wrench for DORO LUCENT® Parallelogram Adaptor	4003.011
DORO LUCENT® Storage Case for Parallelogram Adaptors	4003.030
DORO LUCENT® iMRI Parallelogram Adaptor TRUMPF	4003.211
DORO LUCENT® iMRI Pad TRUMPF	4003.212
DORO LUCENT® iMRI Transfer Collision Indicator	4003.XXX
DORO LUCENT® Disposable Skull Pins, Adult (3 pcs)	1106.003
DORO® Torx Screwdriver T45, nonmagnetic	3033-68

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.
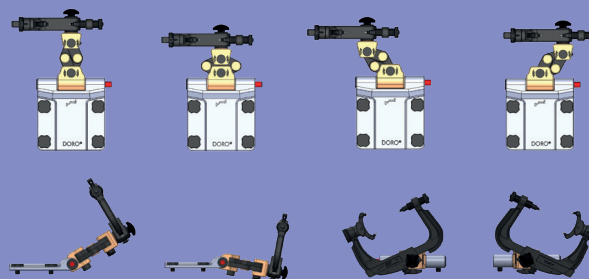
DORO LUCENT® iXI Headrest System

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.

Extendable
Quick-Rail® 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.

DORO LUCENT®
iXI Headrest System
Item no. 4003.500

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.
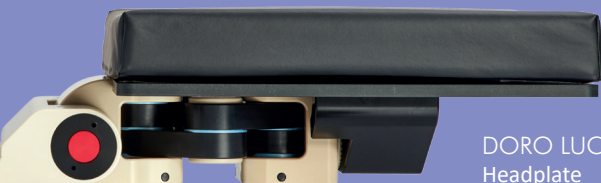
DORO LUCENT®
Headplate
Item no. 4003.005

DORO LUCENT® iXI **Headrest System** Item no. 4003.500	
Included Items	**Item no.**
DORO® Skull Clamp Radiolucent for DORO LUCENT® Parallelogram Adaptor	4003.001
DORO® Headplate	4003.005
DORO® Adjusting Wrench for DORO LUCENT® Parallelogram Adaptor	4003.011
DORO LUCENT® Storage Case for DORO LUCENT® Parallelogram Adaptor	4003.030
DORO LUCENT® iXI Parallelogram Adaptor	4003.511
DORO LUCENT® iXI Transfer Collision Indicator	4003.5XX
DORO LUCENT® Disposable Skull Pins, Adult (3 pcs)	1106.003

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.

iMRI &
iXI Product Training
Item no. 8001

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.
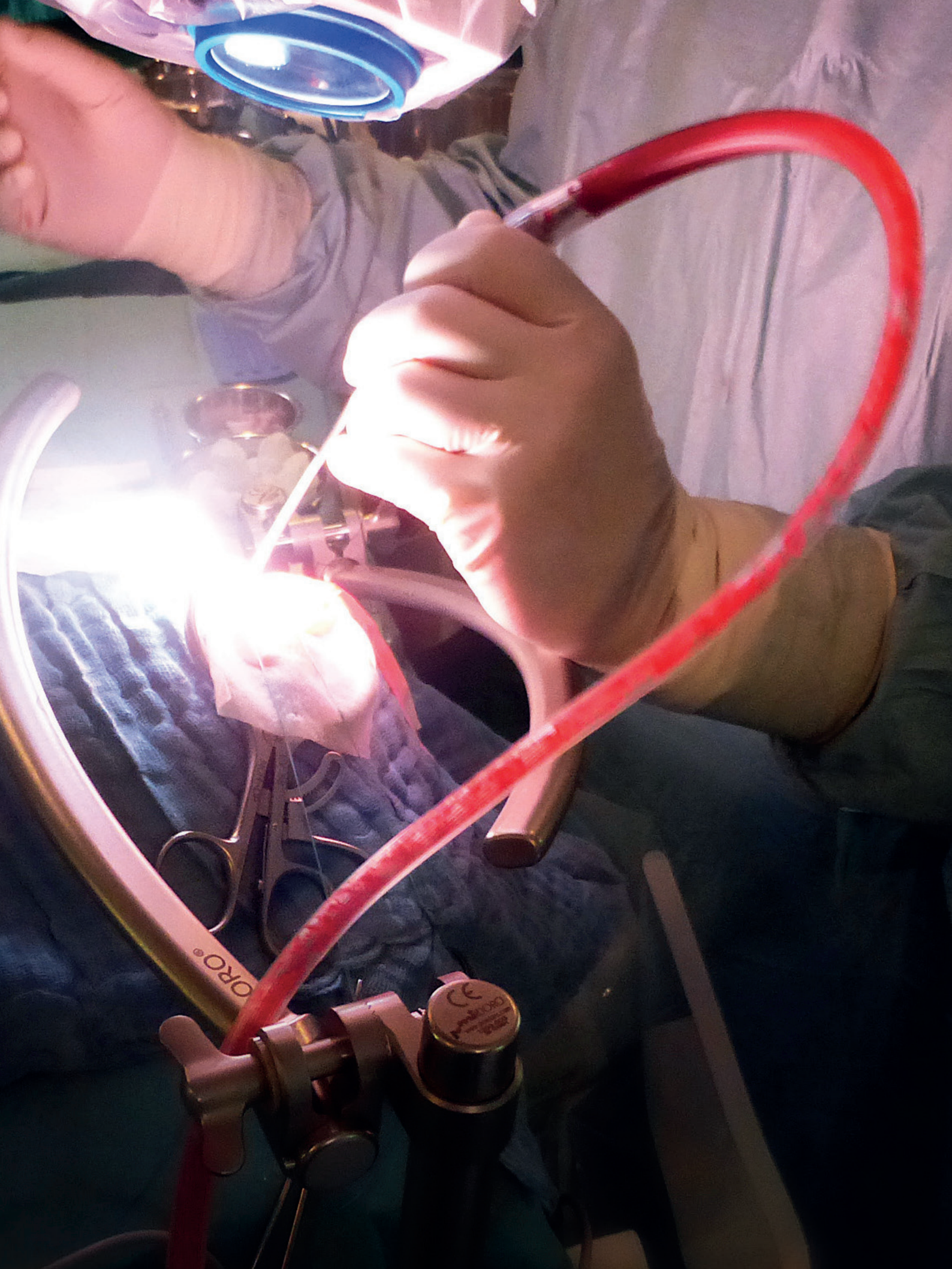
DORO LUNA® Retractor System

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.

FREIBURGER
INNOVATIONS
PREIS 2015

Technologiestiftung BioMed Freiburg

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.

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

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

DORO LUNA® Retractor System – Standard System
Item no. 1203.100

Included Items	Item no.
DORO COBRA® Flexible Rotary Arm 280mm (2 pcs)	1201.006
DORO® Retractor Sterilization Tray	1201.091
DORO LUNA® Quick-Clamp for Quick-Rail® (2 pcs)	1203.001
DORO LUNA® Coupling (4 pcs)	1203.002
DORO LUNA® Rod (2 pcs)	1203.003
DORO LUNA® Curve (2 pcs)	1203.004
DORO LUNA® Sterilization Tray	1203.091
DORO® Blade Set 102 mm, Black Coated, 5 pcs (2 sets)	3116-101

DORO LUNA® Retractor System – Compact System
Item no. 1203.200

Included Items	Item no.
DORO COBRA® Flexible Rotary Arm 280mm (2 pcs)	1201.006
DORO® Retractor Sterilization Tray	1201.091
DORO LUNA® Quick-Clamp for Quick-Rail®	1203.001
DORO LUNA® Coupling (2 pcs)	1203.002
DORO LUNA® Rod	1203.003
DORO LUNA® Curve	1203.004
DORO LUNA® Sterilization Tray	1203.091
DORO® Blade Set 102 mm, Black Coated, 5 pcs (2 sets)	3116-101

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 an non-imaging environment.
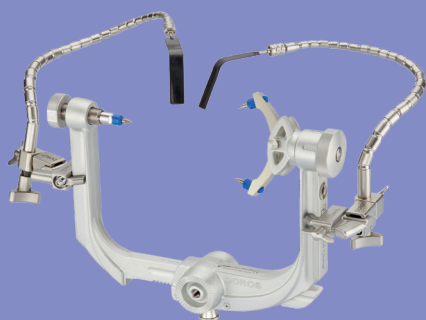
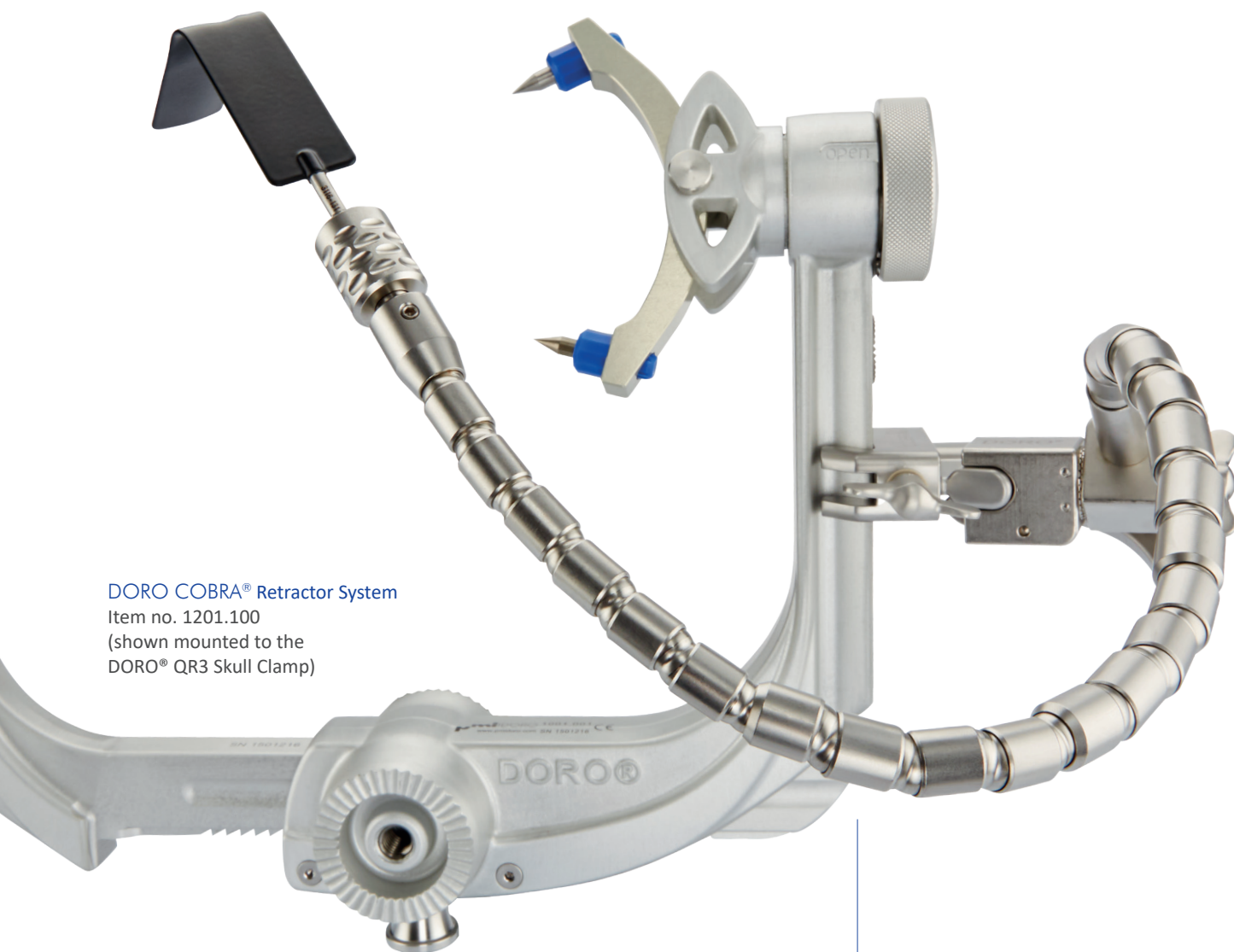DORO COBRA® Retractor System mounted to the DORO® QR3 Skull Clamp.

DORO LUNA® Retractor System mounted to the DORO® QR3 Skull Clamp.

DORO LUNA® & DORO COBRA® combined set-up mounted to the DORO® Skull Clamp Radiolucent.

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

Included Items	Item no.
DORO COBRA® Quick-Clamp for Aluminum Quick-Rail®	1201.021
DORO COBRA® Flexible Rotary Arm 420 mm	1201.008
DORO® Blade, Black Coated, 102 x 7 mm	3116-111
DORO® Blade, Black Coated, 102 x 10 mm	3116-121
DORO® Retractor Sterilization Tray	1201.091

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.
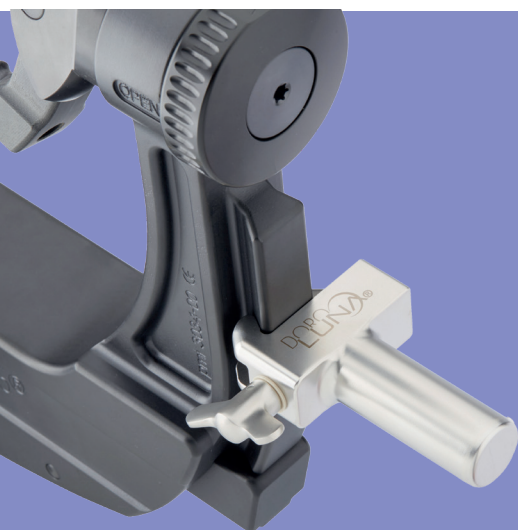
Mix & Match

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. 1203.109

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.

DORO COBRA® **Flexible Rotary Arms**	
Available Items	**Item no.**
DORO COBRA® Flexible Rotary Arm 200 mm	1201.005
DORO COBRA® Flexible Rotary Arm 280 mm	1201.006
DORO COBRA® Flexible Rotary Arm 350 mm	1201.007
DORO COBRA® Flexible Rotary Arm 420 mm	1201.008

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

DORO® **Flexible Arms**	
Available Items	**Item no.**
DORO® Flexible Arm 230 mm	3114-34
DORO® Flexible Arm 300 mm	3114-35

DORO® **Flexible Rotary Arms**	
Available Items	**Item no.**
DORO® Flexible Rotary Arm 200 mm	3114-36
DORO® Flexible Rotary Arm 280 mm	3114-37
DORO® Flexible Rotary Arm 350 mm	3114-38
DORO® Flexible Rotary Arm 420 mm	1201.008

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.


DORO® Quick-Clamp with Starburst for Radiolucent Quick-Rail®
Item no. 3033-69

*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.

DORO® Quick-Clamp Halo Brain Retractor System

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.
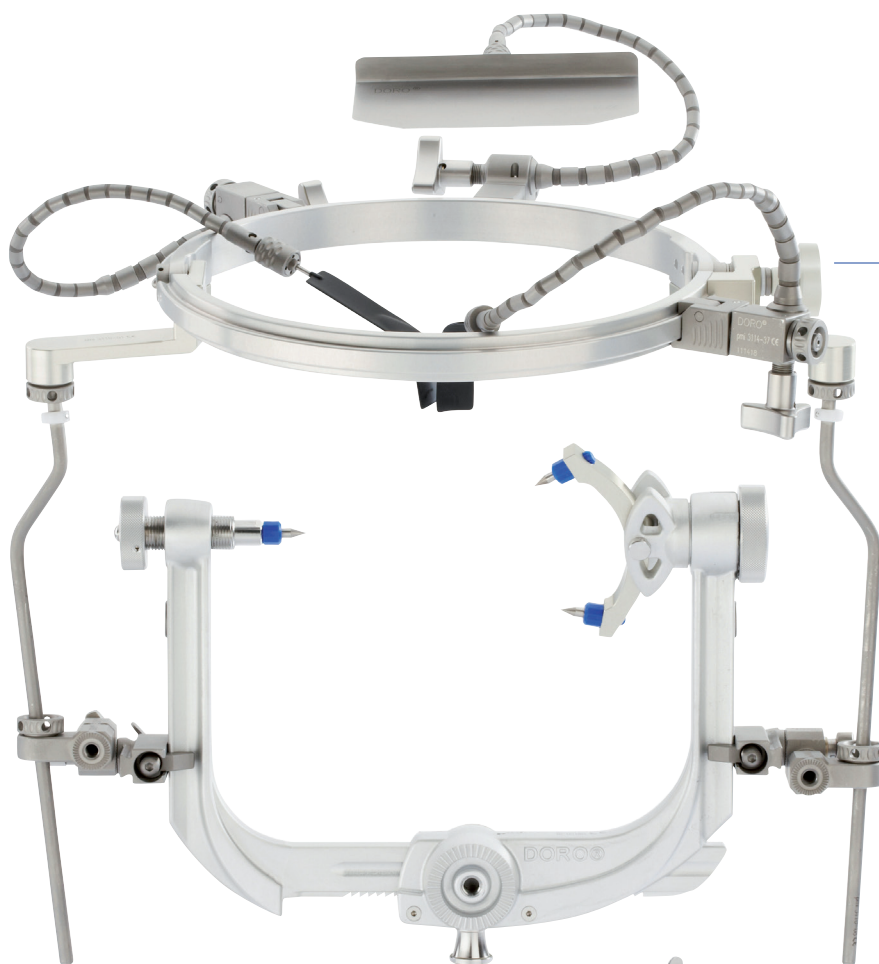
Adaptable
Adjust the halo ring to your needs. This provides angling, or half a ring can be removed completely.

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

Included Items	Item no.
DORO® Quick-Clamp Halo Coupling Set (2 pcs)	1202.010
DORO® Halo Ring	3110-01
DORO® Halo Support Rod 8 mm (2 pcs)	3110-08
DORO® Halo Universal Key (2 pcs)	3110-80
DORO® Halo Pattie Tray	3110-85
DORO® Flexible Rotary Arm 280 mm (3 pcs)	3114-37
DORO® Blade Set 102 mm, Black Coated, 5 pcs (2 sets)	3116-101
DORO® Micro Blade Set, 6 pcs	3116-20
DORO® Halo Sterilization Case w/ Rack	3117-00

DORO® Halo Retractor System w/ C-Clamp
Item no. 3100-00

Included Items	Item no.
DORO® Halo Ring	3110-01
DORO® Halo Support Rod 8 mm (2 pcs)	3110-08
DORO® Halo Support Bracket w/ C-Clamp Adaptor (2 pcs)	3110-51
DORO® Halo Universal Key (2 pcs)	3110-80
DORO® Halo Pattie Tray	3110-85
DORO® Flexible Arm 230 mm (3 pcs)	3114-34
DORO® Blade Set 102mm, Black Coated, 5 pcs (2 sets)	3116-101
DORO® Micro Blade Set, 6 pcs	3116-20
DORO® Halo Sterilization Case w/ Rack	3117-00

DORO® Retractor Accessories

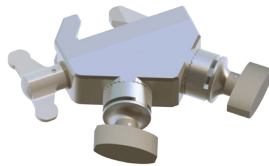
DORO® Quick-Clamp
Item no. 1202.014

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
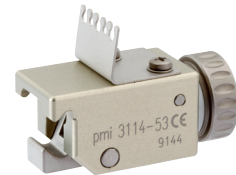Item no. 1201.045

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

DORO® Halo Ring
Item no. 3110-01

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

DORO® Clamp Body for Skin Hooks
Item no. 3114-53

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

DORO® Sterilization Trays	
Included Items	Item no.
DORO® Retractor Sterilization Tray	1201.091
DORO LUNA® Sterilization Tray	1203.091
DORO® Lid for Sterilization Tray	1201.093
DORO® Halo Sterilization Case w/ Rack (shown)	3117-00
DORO® Pattie Tray Silicone Insert for Sterilization Tray	1201.092

DORO® Micro Blades

Serrated Style

Hooked Style

Straight Style

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

Included Items	Item no.
124 x 2 mm	3116-21
124 x 4 mm	3116-22
150 x 2 mm	3116-23
150 x 4 mm	3116-24
165 x 2 mm	3116-25
165 x 4 mm	3116-26

DORO® Micro Blade Set, Serrated, 6 pcs.
Item no. 3116-30

Included Items	Item no.
124 x 2 mm	3116-31
124 x 4 mm	3116-32
150 x 2 mm	3116-33
150 x 4 mm	3116-34
164 x 2 mm	3116-35
164 x 4 mm	3116-36

DORO® Micro Blade Set, Hooked, 6 pcs.
Item no. 3116-40

Included Items	Item no.
124 x 2 mm	3116-41
124 x 4 mm	3116-42
150 x 2 mm	3116-43
150 x 4 mm	3116-44
164 x 2 mm	3116-45
164 x 4 mm	3116-46

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.
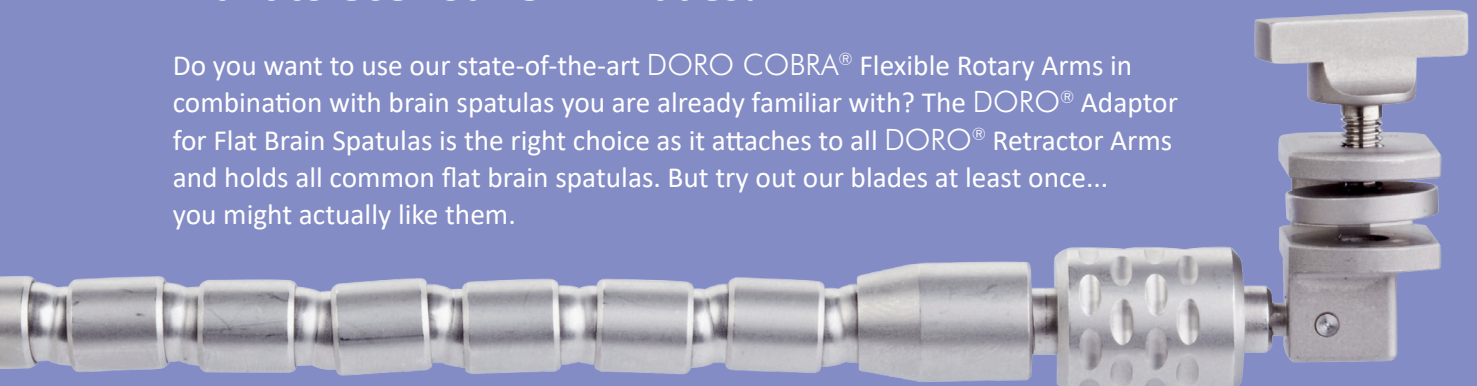
DORO® Adaptor for Flat Brain Spatula
Item no. 1201.046

DORO® Blades

DORO® Blade Set 152 mm, Black Coated, 5 pcs.
Item no. 3116-10

Included Items	Item no.
152 x 7 mm	3116-11
152 x 10 mm	3116-12
152 x 16 mm	3116-13
152 x 20 mm	3116-14
152 x 26 mm	3116-15

DORO® Blade Set 102 mm, Black Coated, 5 pcs.
Item no. 3116-101

Included Items	Item no.
102 x 7 mm	3116-111
102 x 10 mm	3116-121
102 x 16 mm	3116-131
102 x 20 mm	3116-141
102 x 26 mm	3116-151

DORO® Blade, Black Coated

not included in Set	Item no.
152 x 13 mm	3116-16
102 x 13 mm	3116-161

DORO® Blade Set 152 mm, Conical, Black Coated, 5 pcs.
Item no. 3116-60

Included Items	Item no.
152 x 2 mm	3116-61
152 x 3 mm	3116-62
152 x 4 mm	3116-63
152 x 5 mm	3116-64
152 x 6 mm	3116-65

DORO® Blade Set 102 mm, Conical, Black Coated, 5 pcs.
Item no. 3116-601

Included Items	Item no.
102 x 2 mm	3116-611
102 x 3 mm	3116-621
102 x 4 mm	3116-631
102 x 5 mm	3116-641
102 x 6 mm	3116-651

DORO® Blade Set 102 mm, Rounded Tip, Black Coated, 5 pcs.
Item no. 3116-70

Included Items	Item no.
102 x 7 mm	3116-71
102 x 10 mm	3116-72
102 x 16 mm	3116-73
102 x 20 mm	3116-74
102 x 26 mm	3116-75

Connectivity guaranteed

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

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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DORO® **Representative**