

DOROB

CRANIAL STABILIZATION & RETRACTOR SYSTEMS

DOBJ® Skull Clamp

CREATE A NEW WORLD IN NEUROSURGERY WITH US!

Each neurosurgical intervention means a new challenge. Every minute counts. Every step needs to fit. A smooth workflow is essential. The Black Forest Medical Group is proud to support you and your team with innovative solutions that make neurosurgical interventions safer and more efficient.

From our history to the present and turning into the future, we were and always will be driven by the desire to satisfy your needs. Together, we are able to multiply our strengths, making a lasting difference for the health of people worldwide.

Matthias Schüle Owner & Managing Director

R.M.an

Roman Maier Managing Director

Patrick Lux Managing Director



Get connected

CONTENTS

RIGID & NON-INVASIVE HEADREST SYSTEMS

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

IMAGING SOLUTIONS

DORO LUCENT® Headrest System DORO® Skull Clamp Radiolucent DORO LUCENT® Navigation Adaptors DORO LUCENT® Accessories	page 20 page 21 page 22 page 22
DORO [®] Mix & Match	page 23
DORO [®] Horseshoe Headrests Radiolucent	page 24
DORO LUCENT [®] Horseshoe Headrest ENT	page 25
DORO [®] QR3 XTom Headrest System	page 26
DORO LUCENT [®] iMRI Headrest Systems	page 28
DORO LUCENT [®] iXI Headrest System	page 31
DORO LUCENT [®] Product Trainings	page 32
DORO LUCENT [®] iMRI & iXI Accessories	page 32
DORO [®] Skull Clamp for Spinal Frames	page 33
DORO [®] OR Table Adaptors Radiolucent	page 34

RETRACTOR SYSTEMS

DORO LUNA [®] Retractor System	page 38
DORO COBRA® Retractor System	page 40
DORO® Mix & Match	page 41
DORO [®] Flexible Rotary Arms	page 42
DORO [®] Quick-Clamp Radiolucent	page 43
DORO [®] Halo Retractor System	page 44
DORO [®] Retractor Accessories	page 45
DORO [®] Sterilization Trays	page 45
DORO [®] Micro Blades	page 46
DORO [®] Blades	page 47



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 utilizing **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

DORO® QR3 SKULL CLAMP

EASY TO READ PRESSURE SCALE

Metric and imperial units.

REDUCED RISK OF LACERATIONS

No play between archholder and skull base when locked.

EASY, SAFE

INTERFACE

COBRA® or

products to

the formfitting Quick-Rail[®] interface (Infobox below).

Quick-Clamp

AND STABLE

Attach **DORO**

LUNA[®], DORO

PRECISE NAVIGATION

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

CRG Skull Clamp

SPACIOUS

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



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® ALUMINUM BASE UNITS

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



DORO® Adjustable Base Unit Item no. 3001-00



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



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



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

DORO® BASE UNIT PARKBENCH

The DORO® Base Unit Parkbench is the perfect solution for lateral patient positioning. Its design allows a 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 siderails.





DORO[®] Base Unit Parkbench Item no. 3001-006



Stryker Armrest Parkbench Item no. 3001-007



Trumpf Universal Side Rail Fitting Item no. 3007-50

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

DORO[®] SWIVEL ADAPTORS

DORO[®] Swivel Adaptors are the connecting elements between DORO[®] Skull Clamps and DORO[®] Base Units. Versions offering 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, pivoting and a 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® CROSSBAR ADAPTOR

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



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[®] 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[®] 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



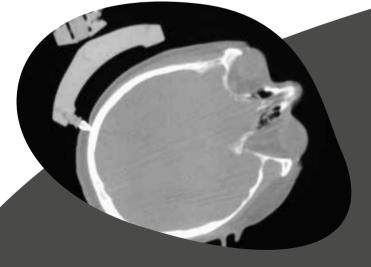
DORO® Disposable Skull Pins Titanium Adult Color: Turquoise Item no. 3006-20 (36 pins), sterile



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	ltem 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 closely 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 the 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[®] Storage Case Headrest System Item no. 1001.030 (optionally available).

DORO® HORSESHOE HEADREST ALUMINUM



ADULT VERSION

DORO® Swivel Horseshoe Headrest System, Adu with Extension Bar Item no. 3009-00	ılt
Included Items	ltem 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

1011110.0007 02	
Included Items	ltem no.
DORO [®] Horseshoe Base	3009-01
DORO [®] Horseshoe Pad, Adult, right	3009-10
DORO [®] Horseshoe Pad, Adult, left	3009-11

SKELETAL TRACTION OPTION

DORO[®] Horseshoe Headrests Aluminum are available with or without an Extension Bar.

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.

PEDIATRIC VERSION

DORO® Swivel Horseshoe Headrest System, Pedia with Extension Bar Item no. 3008-00	atric
Included Items	ltem 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	ltem 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

DORO[®]Lubricant 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 head positioning device. 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 therefore very vulnerable, neurosurgical solutions are needed which fit their needs. The DORO® Multi-Purpose Skull Clamp provides different kinds of shapes and sizes of gel pads and pin holders. An extension bar with a force application specifically designed for pediatric cases ensures a safe immobilization of the child's head while providing additional control over the pinning force up to 90N.

PRECISE NAVIGATION

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

SUPPORTS PEDIATRIC PROCEDURES

7 14

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

ort.

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



DORO[®] Gel Pads and Pin Holders is available to support optimal patient positioning (pages 16-17).

EXTENDABLE

00200

MIX & MATCH Combine the DORO®

Multi-Purpose Skull Clamp with a radiolucent

base unit and swivel

adaptor (page 23).

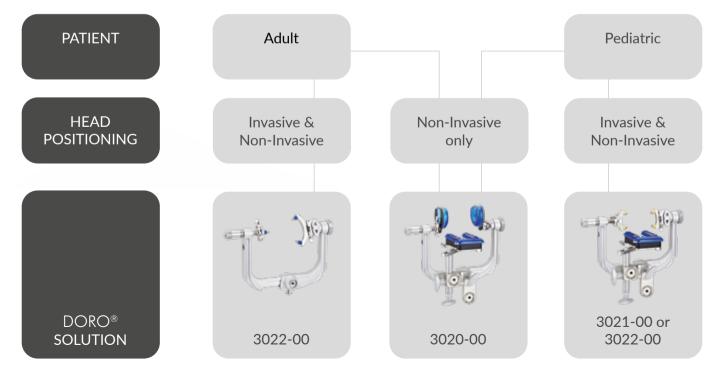
The Quick-Rail® technology enables you to attach accessories and retractor systems such as the DORO LUNA® Retractor System (page 38) easily, quickly, and securely to the skull clamp.

90 N/20 Item no

Which **DORO**[®] Multi-Purpose Skull Clamp System works for you?

That depends on the required head positioning method. Check below for guidance. The complete system configurations can be found on the following pages.





15

DORO[®] MULTI-PURPOSE - INVASIVE SET-UP

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 [®] 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 Sys Item no. 3022-00	stem
Included Items	ltem no.
	000/00

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 (2pcs)	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 - NON-INVASIVE SET-UP

Choose from a variety of different gel pad shapes and sizes for optimal patient stabilization for non-invasive positioning. 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 [®] Multi-Purpose Skull Clamp System Item no. 3020-00	
Included Items	ltem 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 are shipped in a protective 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.



DORO LUCENT® HEADREST SYSTEM

□ MRI ☑ CT ☑ ANGIO

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	ltem no.
DORO LUCENT® Base Unit	1101.021
DORO LUCENT® Transitional Member	1101.026
DORO LUCENT [®] Locking Transitional Member	1101.031
DORO LUCENT® Storage Case Headrest System	1101.030
DORO LUCENT® Disposable Skull Pins, Adult	1106.003
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 11).

RIGID FIXATION

Safely position the patient engaging the DORO® Skull Clamp Radiolucent.

FITTING

The system connects to virtually any OR table siderail types.

ADAPTABLE

Compact Side Parts are additionally available.

DORO LUCENT[®] Headrest System Item no. 1101.020 (shown with DORO LUCENT[®] Disposable Skull Pins, page 11).

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.



DORO® SKULL CLAMP RADIOLUCENT

units.

□ MRI ☑ CT ☑ ANGIO

EASY TO READ PRESSURE SCALE Metric and imperial

REDUCED RISK OF LACERATIONS

No play between archholder and skull clamp when locked.

DORO[®] Skull Clamp Radiolucent Item no. 3034-00 (shown with DORO LUCENT[®] Disposable Skull Pins, page 11).

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 utilizing the Mix & Match Adaptor #3033-50 (page 23).

DORO LUCENT® Base Unit Compact Item no. 1101.022

DORO LUCENT® Side Part, short Item no. 1101.038

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® NAVIGATION ADAPTORS

⊠ст

DORO LUCENT®

Item no. 3033-66

DORO[®] Navigation Adaptors Radiolucent offer a safe and stable interface for navigation reference arrays from Stryker[®], Medtronic and Brainlab. They are directly mounted 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.



Navigation Adaptor Brainlab Item no. 3033-65 For Brainlab Reference Array 19145-01

DORO LUCENT® Navigation Adaptor Medtronic

DORO LUCENT® Navigation Adaptor Stryker®

Item no. 3033-64

PLEASE NOTE: Reference arrays are provided by Stryker[®], Medtronic and Brainlab.

DORO LUCENT® HEADREST ACCESSORIES

Г∕ст

with or without elongation 19145-02



DORO[®] Swivel Adaptor Radiolucent Item no. 3033-00



DORO LUCENT® Storage Case Headrest System Item no. 1101.030



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



DORO LUCENT® Locking Transitional Member Item no. 1101.031



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



DORO LUCENT® Transitional Member Item no. 1101.026



MACH

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[®] HORSESHOE RADIOLUCENT

□ MRI ☑ CT ☑ ANGIO

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 horseshoe features 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	ltem 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	ltem 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 utilizing the DORO COBRA® Quick-Clamp for Radiolucent Quick-Rail® (page 41).

DORO[®] HORSESHOE RS RADIOLUCENT

MRI CT MANGIO

ADULT VERSION

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

DORO LUCENT® HORSESHOE ENT

□ MRI ☑ CT ☑ ANGIO

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, Adul Item no. 1101.007	t
Included Items	ltem 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

PEDIATRIC VERSION

DORO LUCENT® Horseshoe Headrest ENT, Pediatric Item no. 1101.008	
Included Items	ltem 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

Shown mounted to the DORO LUCENT® Base Unit.



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® QR3 XTom

□ MRI 🛛 SMALL GANTRY CT 🛛 ANGIO

The **DORO**[®] QR3 XTom Cranial Stabilization System is designed to fit small gantry CTs. Adjustable Extension Arms ensure an optimal patient placement within CT scanner gantries of 32 mm / 12 inch and larger. The XTom System comes with a specifically designed torque screw driver to set pin pressure and with the DORO[®] XTom U-Belt, which works like a safety net and will prevent major injuries in case of head slippage, no matter the patient's head position.

00:00

DORO [®] QR3 XTom Cranial Stabilization System Item no. 4002.100	
Included Items	ltem no.
DORO® QR3 XTom Skull Clamp	4002.001
DORO® XTom U-Belt (3 pcs)	4002.111
DORO [®] XTom Storage Case	4002.030
DORO® XTom Torque Screwdriver	4002.068
DORO® XTom Base Unit Parkbench	4002-10
DORO LUCENT [®] Disposable Skull Pins (9 pins)	1106.103

HIGH-END IMAGING DORO LUCENT®

Disposable Skull Pins reduce imaging artifacts to a minimum.

PRECISE NAVIGATION

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

EASY, SAFE AND STABLE INTERFACE Attach DORO LUNA[®], DORO COBRA[®] or Quick-

Clamp products to the formfitting Quick-Rail[®] interface.

A SMALL GANTRY SOLUTION

Adjustable Extension Arms ensure that the patient's head fits into gantries of 32 cm / 12 inch and larger.

COMPATIBLE

The **DORO**® QR3 XTom Cranial Stabilization System is directly mountable to all standard OR tables with side rails.

DORO® QR3 XTom Cranial Stabilization System Item no. 4002.100

Which DORO[®] System works for your Neurologica scanner?

The DORO[®] QR3 XTom Cranial Stabilization System is designed to fit small gantry CTs like NeuroLogica's OmniTom or CereTom scanners. For CTs with larger gantries the DORO LUCENT[®] Headrest System is the Cranial Stabilization System of choice.

OmniTom



DORO LUCENT® IMRI HEADREST SYSTEM

MRI CT ANGIO

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. It is mounted to the OR table's transfer board by utilizing the **DORO LUCENT®** iMRI Parallelogram Adaptor, giving you the freedom you need to properly position patients for surgery.

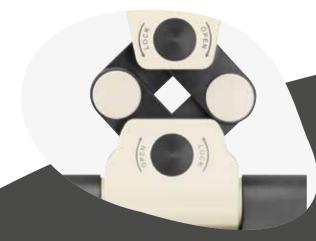


AUTOMATIC IMAGE REGISTRATION READY

Brainlab Automatic Image Registration (AIR) is the fundamental technology for high-precision surgical navigation from start to finish. It adds intraoperatively acquired MR images to surgical navigation while maintaining the preoperative surgical plan. This updated registration compensates for potential loss of navigation accuracy during surgery.

The Brainlab registration matrix with integrated MR markers has been designed exclusively for DORO LUCENT® iMRI Headrest Systems and and therefore seamlessly integrates in the standard patient positioning workflow.

DORO LUCENT® iMRI Headrest System MAQUET Item no. 4003.300 (shown with Brainlab AIR)



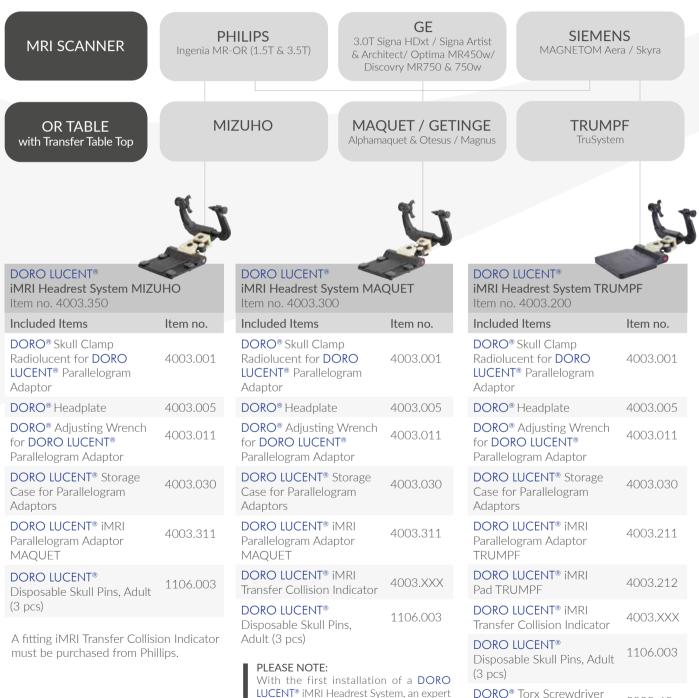
MOVEMENT CAPABILITIES

DORO LUCENT[®] Parallelogram Adaptors allow you to shift, tilt, angle and rotate the skull clamp to find a fitting position for your patient.



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.



LUCENT[®] iMRI Headrest System, an expert training is mandatory (page 32). Please contact your local DORO[®] representative for details.

3033-68

T45, nonmagnetic

DORO LUCENT® iXI HEADREST SYSTEM

MRI CT ANGIO

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 MAQUET / GETINGE Magnus OR Tables and SIEMENS Nexaris Imaging Suites.

DORO LUCENT®

iXI Headrest System Item no. 4003.500

DORO LUCENT® iXI Headrest System Item no. 4003.500	
Included Items	ltem 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

PLEASE NOTE:

With the first installation of a DORO LUCENT® iXI Headrest System, an expert training is mandatory (page 32). Please contact your local DORO®

representative for details.

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® Headplate Item no. 4003.005

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® PRODUCT TRAININGS

Dedicated products like the **DORO LUCENT**[®] iMRI or iXI Headrest Systems come as a 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

DORO® SKULL CLAMP – SPINAL FRAMES

□ MRI ☑ CT ☑ ANGIO

-RADIOLUCENT -

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.



DORO[®] Skull Clamp Radiolucent for Spinal Frames shown mounted to a MIZUHO OSI Insite[®] table (side view).

the skull clamp.

FREEDOM IN PATIENT



DORO[®] Skull Clamp Radiolucent for Spinal Frames shown mounted to a MIZUHO OSI Insite[®] table (front view).



Comparison: Standard **DORO**[®] Skull Clamp Radiolucent shown mounted to a MIZUHO OSI Insite[®] table.

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 11). VERSATILE Quick-Rail® Technology enables you to attach accessories and **MIX & MATCH** retractor systems The **DORO®** Skull Clamp Radiolucent easily, quickly, can be mounted to **DORO**[®] Aluminum and securely to Swivel Adaptor and Base Unit utilizing

> 33

the Mix & Match Adaptor #3033-50 (page 23) or to fitting counterparts of spinal frame table manufacturers.

DORO® OR TABLE ADAPTORS RADIOLUCENT

□ MRI ☑ CT ☑ ANGIO



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.



DORO[®] Radiolucent Table Adaptors Set Up Possibilities

Start with the OR table manufacturer at the bottom and work your way up to the DORO[®] solution that works best for you.



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 adaptability of the DORO LUNA[®] Retractor System can be further enhanced with additional accessories, 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.

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.

EASY

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

38

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 setups. 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.



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 minimal obstruction 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) DOROD

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

CONVENIENT

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 39) to the other side of the skull clamp.

DORO COBRA®

TC

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

iilililil

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	ltem 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	ltem no.
DORO® Flexible Arm 230 mm	3114-34
DORO® Flexible Arm 300 mm	3114-35
DORO [®] Flexible Rotary Arms	
Available Items	ltem 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® QUICK-CLAMP

- 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^{IM}. 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® HALO 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 utilizing the DORO[®] Quick-Clamp or to older skull clamp versions by engaging the alternatively available C-Clamp. Rotary retractor arms, brain spatulas and accessories are available.



ADAPTABLE

Adjust the halo ring to your needs. One half ring can be angled upwards or downwards, or be removed completely.

COMPATIBLE

The **DORO**[®] Halo Retractor System fits almost all common skull clamps, either utilizing the form-fitting Quick-Rail[®] interface or the C-Clamp.



	100
DORO [®] Quick-Clamp Halo Retractor System Item no. 1202.100T	0
Included Items	ltem 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	5
Included Items	ltem 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 Halo Coupling Set Item no. 1202.010



DORO[®] Halo Ring Item no. 3110-01



DORO[®] Quick-Clamp Coupling Universal Item no. 1202.015



DORO[®] Halo Support Rod Holder Item no. 1202.016



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



DORO[®] Halo Pattie Tray Item no. 3110-85



DORO[®] Halo Support Rod 8mm

Item no. 3110-08

DORO[®] Halo Universal Key Item no. 3110-80



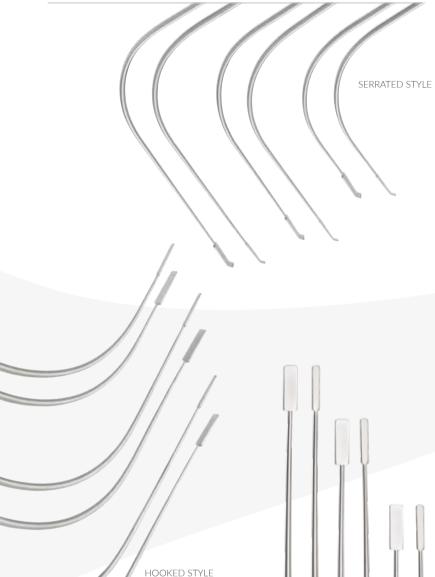
DORO® Mini Vice Item no. 3114-54

DORO[®] STERILIZATION TRAYS

DORO [®] Sterilization Trays		
Included Items	ltem no.	
DORO [®] Retractor Sterilization Tray (shown)	1201.091	
DORO LUNA® Sterilization Tray (shown)	1203.091	
DORO [®] Halo Sterilization Case w/ Rack	3117-00	



DORO® MICRO BLADES





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

Included Items	ltem 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

STRAIGHT STYLE

DORO® Adaptor for Flat Brain Spatula Item no. 1201.046 (shown with DORO COBRA® Flexible Rotary Arm)

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... we are sure you will like them.

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 152 mm.

Conical, Black Coated, 5 pcs.

DORO[®] Blade Set 102 mm,

Item no. 3116-60 Included Items

152 x 2 mm

152 x 3 mm

152 x 4 mm

152 x 5 mm 152 x 6 mm

Item no. 3116-70

Included Items

102 x 7 mm

102 x 10 mm

102 x 16 mm

102 x 20 mm 102 x 26 mm

DORO® Blade Set 102 mm, Black Coated, 5 pcs. Item no. 3116-101	
Included Items	ltem 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	ltem no.
152 x 13 mm	3116-16
102 x 13 mm	3116-161

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

CONNECTIVITY GUARANTEED

Item no. 3116-61 3116-62 3116-63 3116-64 3116-65 102 x 6 mm Rounded Tip, Black Coated, 5 pcs.

Item no.

3116-71

3116-72

3116-73 3116-74

3116-75

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

WHY BLACK?

reflections from the dazzling light focused on the surgical site during procedures and lets you concentrate on your procedure without interruptions.

www.blackforestmedical.com



DORO® REPRESENTATIVE



pro med instruments – a part of the Black Forest Medical Group Headquarters | Bötzinger Straße 38 | 79111 Freiburg, Germany Phone +49 761 384 222 10 | Email info@blackforestmedical.com

US Subsidiary | 4529 S.E. 16th Place, Suite 101 | Cape Coral, FL 33904 Toll Free 877 225 4086 | Email info.us@blackforestmedical.com

Version 11, March 2020. ©pro med instruments GmbH - a part of the Black Forest Medical Group. DORO®, DORO LUNA®, DORO COBRA®, DORO LUCENT® and Quick Rail® are registered trademarks (®) of pro med instruments GmbH, Freiburg, Germany. All rights reserved. No part of this document may be reproduced in any form without written permission from copyright holder. Specifications subject to change without notice. Teflon® is a registered trademark of DuPont de Nemours GmbH. VarioGuideTM is a trademark of Brainlab. Insite® is a registered trademark of Mizuho OSI. PMT® is a registered trademark of PMT® Corporation. The information has been compiled with utmost care. Errors can, however, not be excluded. Errors do not entitle to any legal claims. We reserve the right to modify the products at any time. Please note that the present catalogue also describes products which are not approved for sale in all countries.