

DORO®

LUNA



BLACK
FOREST
MEDICAL
GROUP

Retractor System
Compendium



AVAILABLE CONFIGURATIONS

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 (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 (2 sets)	3116-101



(shown mounted to the DORO® QR3 Skull Clamp)

GET THE BUNDLE

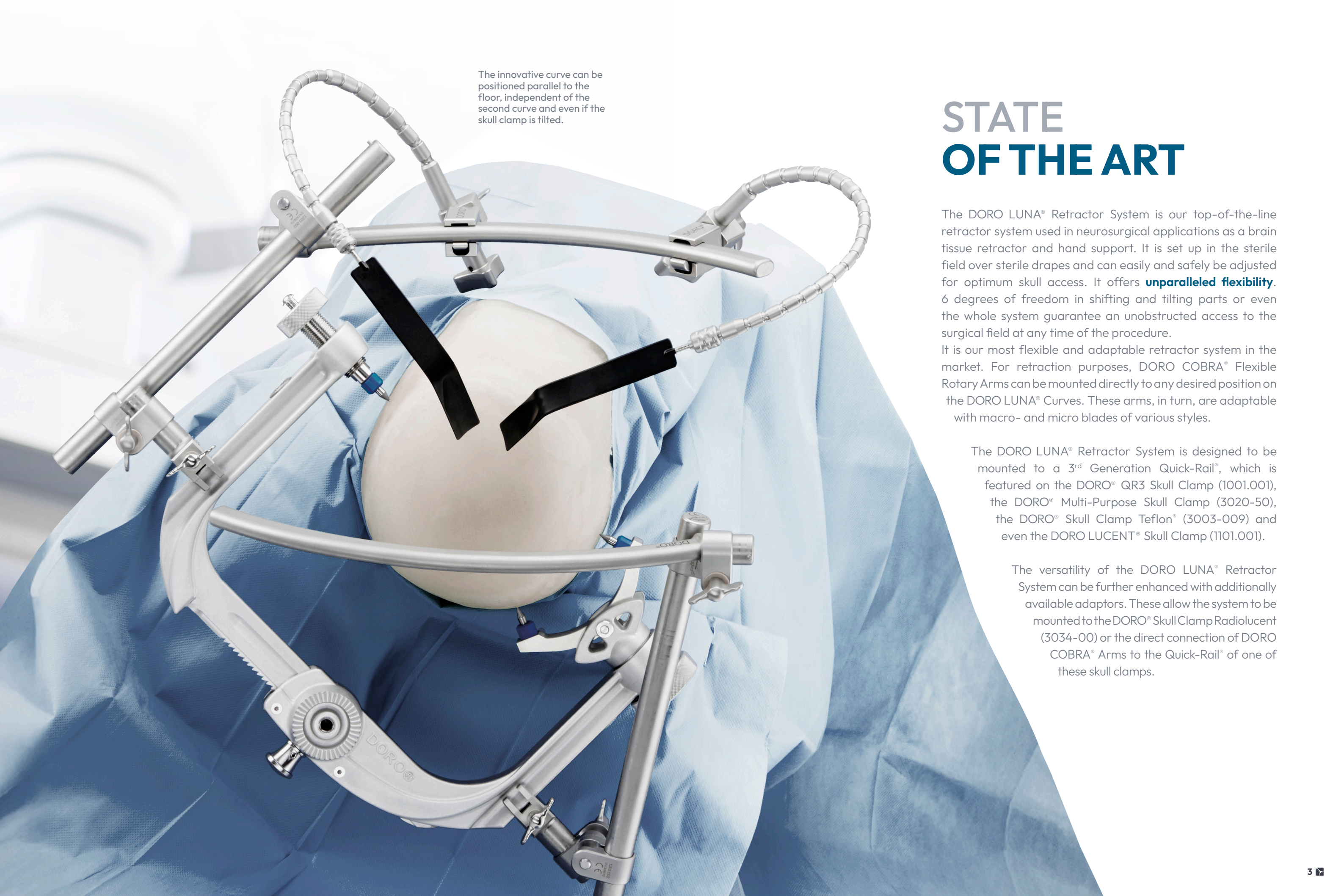
DORO LUNA®
Standard Retractor System
+ **DORO® QR3 Skull Clamp**
Item no. 1203.110

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



The innovative curve can be positioned parallel to the floor, independent of the second curve and even if the skull clamp is tilted.

STATE OF THE ART

The DORO LUNA® Retractor System is our top-of-the-line retractor system used in neurosurgical applications as a brain tissue retractor and hand support. It is set up in the sterile field over sterile drapes and can easily and safely be adjusted for optimum skull access. It offers **unparalleled flexibility**. 6 degrees of freedom in shifting and tilting parts or even the whole system guarantee an unobstructed access to the surgical field at any time of the procedure.

It is our most flexible and adaptable retractor system in the market. For retraction purposes, DORO COBRA® Flexible Rotary Arms can be mounted directly to any desired position on the DORO LUNA® Curves. These arms, in turn, are adaptable with macro- and micro blades of various styles.

The DORO LUNA® Retractor System is designed to be mounted to a 3rd Generation Quick-Rail®, which is featured on the DORO® QR3 Skull Clamp (1001.001), the DORO® Multi-Purpose Skull Clamp (3020-50), the DORO® Skull Clamp Teflon® (3003-009) and even the DORO LUCENT® Skull Clamp (1101.001).

The versatility of the DORO LUNA® Retractor System can be further enhanced with additionally available adaptors. These allow the system to be mounted to the DORO® Skull Clamp Radiolucent (3034-00) or the direct connection of DORO COBRA® Arms to the Quick-Rail® of one of these skull clamps.

DORO®

LUNA



SNAP-ON ATTACHMENT
of DORO COBRA® Flexible Rotary Arms provides easy mounting on any desired position on the curve.

NO TOOLS NEEDED
All mechanisms can be adjusted by hand.

LIGHTWEIGHT
The system is made of 100% stainless steel and can keep a low weight due to hollow components.

OVAL PROFILE
The curve makes a comfortable hand support and ensures a stable hold of attached DORO COBRA® Flexible Rotary Arms by its formfitting design.

SYSTEM ATTACHES TO QUICK-RAIL®

Can easily be mounted to DORO® Aluminum or even Radiolucent Skull Clamps when using the fitting adaptor (see page 8).



YOUR BENEFITS

FEATURES	BENEFITS
Attaches directly to the Quick-Rail® of DORO® Skull Clamps.	Simple and quick set up, intuitive to use. Fast detachment possible at all times during surgery.
DORO LUNA® Quick-Clamp for Quick-Rail®, Form-fitting clamp design	Grants a secure, strong and stable connection. Can be securely mounted over several layers of drape. Eliminates the need of bulky C-Clamps.
DORO LUNA® Curve – an open, user friendly design	The large and wide open curve provides a continuous and seamless interface access for attaching accessories, such as DORO COBRA® Flexible Rotary Arms or skin hooks. Provides unobstructed access to the surgical field. One can be used as a comfortable hand rest, the other for accessories.
DORO LUNA® Curve – long, over 300mm	Provides full reach across the patient’s head.
DORO LUNA® Coupling – double joint design	Provides remarkable flexibility. DORO LUNA® Curves and Rods can be positioned in any desired direction. Allows the DORO LUNA® Curve to be positioned parallel to the floor, independent of the skull clamp position.
DORO LUNA® Rod with Quick-Clamp/Coupling	Behaves as a free-moving pivot for incredible flexibility for height and angle adjustments.
Made of 100% stainless steel	Premium material selection for multiple sterilization cycles. The Innovative design results in a light weight.
Included Sterilization Tray	Enables you to safely storage and sterilize all system components.
Unique Product	No competition. An excellent alternative to Leyla, Greenberg or any other open surgical brain retractor system.
Compatible with DORO® Easy-Connect Navigation Adaptors	No loss of functionality, can be used simultaneously.
MIX & MATCH DORO LUNA®	The DORO LUNA® Retractor System directly attaches to the DORO LUCENT® Skull Clamp (1101.001) or to all other DORO Skull Clamp Radiolucent by means of the DORO LUNA® Quick-Clamp for Radiolucent Quick-Rail® (1203.009; see page 9)
MIX & MATCH DORO COBRA®	Optionally, DORO COBRA® Flexible Rotary Arms can directly be mounted to the Quick-Rail® of DORO Aluminum or Radiolucent Skull Clamps, utilizing either the DORO COBRA® Quick-Clamp for Aluminum Quick-Rail® (1201.021) or for Radiolucent Quick-Rail® (1201.022; see page 9).
Available in two configurations.	Offering the best choice for your needs (see page 1).

DORO®

COBRA

REPOSITIONING
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.

ROTARY BODY

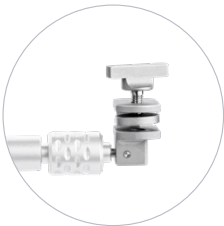
Offering full 360 degree rotation of the retractor arm housing relative to the DORO LUNA® curve attachment.

CLICK-ON
ATTACHMENT

Possible on any desired position along the DORO LUNA® Curve or other corresponding interfaces like the DORO COBRA® Quick-Clamp for Aluminum Quick-Rail®

QUICK CONNECTOR

Intuitive mounting of all DORO® Blades and even third party blades when using the DORO® Adaptor for flat brain spatulas (1201.046)

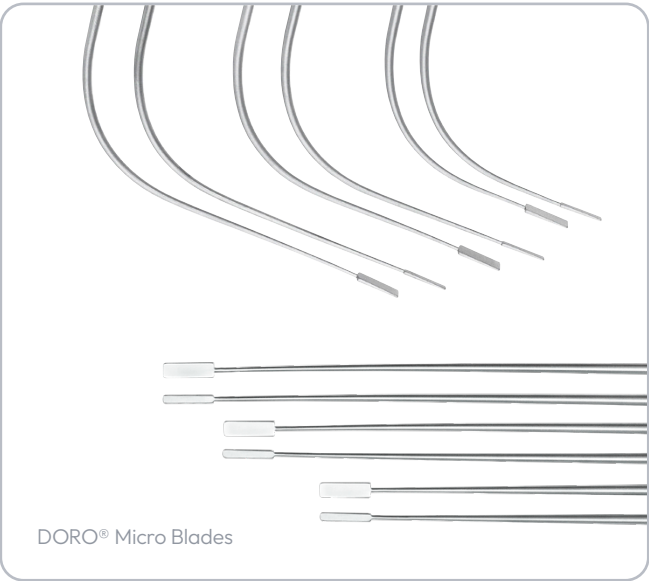


DORO COBRA® Flexible Rotary Arms	
Available Items	Item no.
DORO COBRA® Flexible Rotary Arm 200 mm	1201.005
DORO COBRA® Flexible Rotary Arm 280 mm	1201.006
DORO COBRA® Flexible Rotary Arm 350 mm	1201.007
DORO COBRA® Flexible Rotary Arm 420 mm	1201.008

(shown with a DORO® Blade, 102 mm attached)

YOUR BENEFITS

FEATURES	BENEFITS
Cleverly devised mechanics	Allows precise and fine repositioning of the arm under tension, even after multiple repositionings.
Click-mount on the DORO LUNA® Curve	The retractor arm stays at DORO LUNA® Curve while adjusting it's rotation.
Minimized dimensions of the spatula adaptor	Results in a minimized obstruction in the surgical field.
Thumb screw lock	No tools required for attaching or moving the retractor arm. Easier and faster to use.
Rotary body	Provides 360 degree rotation while mounted for precise and optimum positioning.
Sterilization Tray	Provides space for safe storage and sterilization of the instruments.
Made of 100% stainless steel	Premium material selection for multiple sterilization cycles.
Variable Quick Connector	Third party blades can be used in combination with DORO COBRA® Flexible Rotary Arms when used with a DORO® Adaptor for flat brain spatulas (1201.046).
Broad variety of DORO® Blades available	DORO® Blades with a non-stick and non-reflective surface come in different shapes and sizes (conical, round, square). DORO® Micro Blades are also available in different shapes and sizes (straight, hooked) and are guaranteed to fit in the Quick Connector of the retractor arm.



UNLIMITED POSSIBILITIES

MIX & MATCH



For the DORO® Skull Clamp Radiolucent (3034-00) and the DORO® Skull Clamp for Spinal Frames (4004.101), additional adaptors are available to correctly mount the retractor system. These adaptors also make it possible to mount your DORO COBRA® Retractor Arms directly to a DORO® Radiolucent horseshoe headrest (e.g. 3035-00):



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

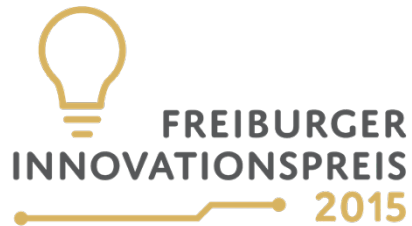


DORO COBRA®
Quick-Clamp for
Radiolucent Quick-Rail®
Item no. 1201.022

DORO LUNA® and DORO COBRA® Retractor Systems can be **directly mounted to the DORO LUCENT® Skull Clamp** (1101.001). This brings all the advantages of our flagship retractor systems to imaging-supported procedures. When intraoperative imaging is required, the entire system can be temporarily removed quickly and easily by loosening just two thumbscrews. After imaging is completed, it can be re-mounted in seconds using the same simple process. This allows surgeons to work with a single retractor system, maintaining their familiar routine and workflow from non-imaging procedures.



DORO[®]



Winner of the
2015 Freiburg Innovation Award



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Retractor System
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