

# evonos



## evo\_BASE.

Head Rest System

## evonos: The perfect interaction of innovation, material quality and german engineering.

evonos specializes in medical devices for neurosurgery. As an ownermanaged medium-sized company, we have our headquarters in Tuttlingen, the center of European medical technology. With decades of experience, indepth know-how and high standards of German engineering in innovation, precision, material quality, functionality and reliability, we develop instruments, products and product systems that are perfectly tailored to the needs of our users.

The innovative evonos solutions enjoy the trust of renowned neurosurgeons all over the world because they follow a clear goal: to increase efficiency, comfort and safety in the operating room. How to serve humans: The doctor can work better and more effortlessly, and the patient has greater chances of regaining his quality of life.

That is why we are consistently working on the further development of our products: in order to always bring an idea to medical technology in neurosurgery.

## More Service And Safety „Made In Germany“.

As a customer of evonos you benefit from numerous services of a renowned company based in Germany:

- high delivery reliability
- fair repair service
- comprehensive warranty
- cost-effective replacement of spare parts
- interesting financing offers
- long life time
- high investment security

# evonos

Skull clamping system with 6 pin positions, variably adjustable for optimal adaptation to the skull

Lockable positions doubled

6x

6  
5  
4

3  
2  
1

Compatible clamping rails for easy adaptation of accessories

Clamping rail compatible with all common accessories

Hardened steel 90 toothed crown for a more comfortable, finer and more accurate adjustment of the skull position.

90

High-quality titanium, for highest demands and cost advantages in disinfection, cleaning and maintenance

Adaptation to all standard operating tables

Innovative Synchro tensioner with removable knob for absolute safeness during the operation

Synchro tensioner results from coworking with AIRBUS

## Head Rest System

**More efficiency, comfort and safety in the operating room.**

evoBASE is the innovative head support system for the neurosurgical operation. The sleek, well thought-out design opens up new possibilities for a more comfortable and efficient work.

Innovation for more perfection. For example, 90 instead of the previously 40 tooth jaws allow a more accurate adjustment of the skull position. The unique synchro-tensioner and the easily removable knob guarantee absolute safety and comfort during the operation. Titanium gives the system an aesthetic surface, maximum resistance to corrosion - and can be completely processed and sterilized compared to other materials, making it significantly less expensive throughout the entire cleaning and maintenance process. Thus evoBASE makes clinics more economical.

### Form Follows Function, for more comfort

The design of our products follows very simple requirements: high-quality materials and appropriate shapes. The result is the aesthetic as well as effective, typical evonos design. Design thinking by evonos – everything to give the neurosurgeon more comfort at work.



### Slim design, for more freedom

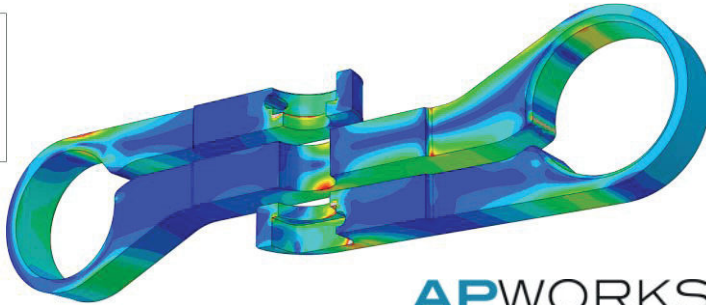
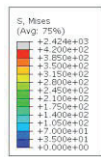
Titanium as a base material creates an unmistakable sleek and elegant design. The material characteristics make it possible to implement a volume-optimized design that generates more freedom for both the doctor and the patient.



### Variable pins for a perfect fit

Safe, because sensitive: Different pin positions allow more accuracy in fixing the patient's head. Anatomical requirements can be better accommodated.





**APWORKS**  
by Airbus Group

In cooperation with the Airbus subsidiary APWORKS, the stress distribution of the Synchro tensioner has been optimized.



### The synchro tensioner, for better operation and safety

With a novel and unique synchro tensioner evoBASE offers absolute safety during the operation. The patient is securely, easily and accurately fixed. Simply removing the knob will reliably prevent the system from unintentionally opening during surgery and increasing the physician's legroom. Due to the mechanics, the absorbed force is significantly higher than in conventional systems and does not need to be readjusted before every operation.



### 90 instead of 40 teeth, for more precise work

The crown with 90 instead of the previously 40 tooth jaws allows a more accurate adjustment and more precise adjustment of the skull position for the operation. Due to the hardened material, the crowns are able to cope with high loads and usually do not require maintenance. In addition to the optimal positioning of the patient, sustainable economic benefits are thus generated.



### Process-optimized processing

Hygienically perfect. The evoBASE can be completely cleaned and sterilized due to the materials used. Use the evoBASE basket, which stores the individual parts of evoBASE safely in the process.

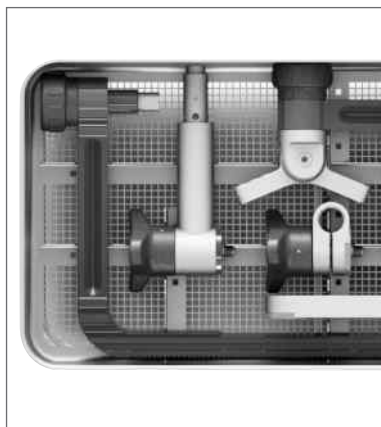
## Hygienically perfect

The evoBASE represents a certain value within the total investment of a hospital. Keeping it safe and value-preserving is a daily challenge that we have set ourselves at evonos. The practical experience in connection with the validations carried out by evonos should help, through proper preparation, the function and value of evoBASE. over many years while increasing patient safety. The recommended measures must be carried out from the point of view of value maintenance in accordance with the manufacturer's instructions and national hygiene requirements. The reliable preparation of skull clamps is increasingly demanded by the hygiene contractors and responsible persons in the CSSDs of the clinics without generating product-related quality losses. In addition, there are direct legal requirements that explicitly require validation of medical device reprocessing procedures. The fulfillment of such requirements is therefore part of the evonos quality management system. With the introduction of the re-regulation of medical devices in Europe, we have taken all measures in the course of the coming MDR, which enables the processing of the evoBASE perfectly and process optimized.

The following steps in processing are and applicable:

- Manual pre-cleaning
- Manual cleaning with ultrasound and brush
- Machine cleaning alkaline > pH10
- Steam sterilization in pre-vacuum process

Please observe the specifications for reprocessing in the corresponding instructions for use.



**23-000200**  
Basket

For the processing of the evoBASE, a specially designed basket has been developed which safely stores the individual parts of the evoBASE in disassembled condition and leads to optimum cleaning results.

## Gelpads



85-000290  
Horseshoe



85-000130  
Gel Head Ring



85-000131  
Gel Front Rest



85-000133  
Gel Ear Horseshoe large  
(110 mm)



85-000132  
Gel Ear Horseshoe small  
(90 mm)



85-000150  
Head Support  
(w/o Gel Pads)



85-000172  
Double Pin Head Support  
(w/o Gel Ear Ring)



85-000188  
Single Pin Head Support  
(w/o Gel Ear Ring)

## Order components

evoBASE head rest system, complete

85-000001



85-000002  
Head Support

### Head Support

- 3-point fixation
- Variable pin position
- volume reduced construction
- 4 ° positioning with 90 teeth crowns
- High-strength coating
- Optimal for use with electro-magnetic navigation
- Integrated force display



85-000003  
Head Swivel Joint



85-000204



85-000205

### Head Swivel Joint

- Easy assembly and disassembly via push button
- Three joints for optimal patient adjustment
- 4 ° positioning with 90 teeth crowns
- Ergonomic handles for easy operation



85-000004  
Connecting Rail



### Connecting Rail

- Connects the head-swivel joint to the synchro-tensioner
- Easy assembly and disassembly on the synchro-tensioner with push button
- Weight-optimized design



85-000005  
Basic carrier with synchro tensioner

### Basic carrier with synchro tensioner

- Higher safety with removable knob
- Greater legroom
- Optimum force absorption
- Adjustable table mount
- No adjustment of force via screw necessary



## Order components



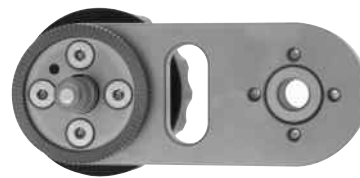
85-000091  
Removable Knob



85-000194  
Hex screwdriver bit



85-000231  
Mono Swivel Adapter 40 teeth for navigation arm



85-000291  
Mono Swivel Adapter 40 teeth for horseshoe head mount



85-000189  
Dual Swivel Adaptor



85-000271  
Quick Release



85-000296  
Navigation arm

evo\_BASE.



evo\_PIN.

## Pins



### non-steril, reusable (Packaging Unit 1)



85-000195  
evoPIN, adult,  
titanium



85-000197  
evoPIN, adult,  
stainless steel



85-000196  
evoPIN, paediatric,  
titanium



85-000198  
evoPIN, paediatric,  
stainless steel

### steril, disposable (Packaging Unit 10 Units á 3 pcs)



85-000199  
evoPIN, adult,  
titanium



85-000206  
evoPIN, adult,  
titanium, long



85-000201  
evoPIN, adult,  
stainless steel



85-000208  
evoPIN, adult,  
stainless steel, long



85-000200  
evoPIN, paediatric,  
titanium



85-000207  
evoPIN, paediatric,  
titanium, long



85-000202  
evoPIN, paediatric,  
stainless steel



85-000209  
evoPIN, paediatric,  
stainless steel, long

# evo\_BASE.

As a matter of fact:  
Leading clinics for neurosurgery rely  
on evonos.

» Me as a buyer, the TCO has convinced:  
100% aluminum-free made of titanium,  
evo\_BASE can be sterilized as normal and also  
during maintenance, it is much cheaper than  
similar systems. «

» More safety for the patient gives me more  
safety during surgery. With evo\_BASE  
I know that nothing unforeseen can  
happen. «

» In neurosurgery, long,  
complicated surgeries are the order of  
the day. Every bit of comfort that I get  
from evo\_BASE counts. «

» In addition to the many functional advantages,  
evo\_BASE is also simply well designed. And the  
material titanium proves to be particularly hygienic  
and sustainable. «

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## evonos

medical technology at the head

