

02-05/21

INSTRUCTIONS FOR USE - IFU -

65 x 15 mm

95 x 30 mm



FEHLING RAABE hemilaminectomy retractor

NWA-1A **Retractor body** Hemilaminectomy retractor, body only

Components

Fixations/guides R.	AABE titanium muscle blades 90°
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NWA-1B	Coupling rider for spine retractors	NWB-2R	65 x 15 mm, rotatable
NWA-1C	Blade guide for spine retractors	NWB-3R	80 x 15 mm, rotatable
		NWB-1	50 x 15 mm

RAABE titanium cranial-caudal fixation pins

NWA-2	35 mm	NWB-3	80 x 15 mm
NWA-3	45 mm	NWB-4	95 x 15 mm
NWA-4	55 mm	NWB-5	50 x 30 mm
		NWB-6	65 x 30 mm
RAABE titanium cross-over muscle blades 120°		NWB-7	80 x 30 mm

RAABE titanium cross-over muscle blades 120°

NWC-1R	50 x 20 mm, rotatable
NWC-2R	65 x 20 mm, rotatable
NWC-3R	80 x 20 mm, rotatable
NWC-4R	95 x 20 mm, rotatable
NWC-1	50 x 20 mm
NWC-2	65 x 20 mm
NWC-3	80 x 20 mm
NWC-4	95 x 20 mm

Accessories

NWA-0	RAABE Sterilizing and storage container 40 x 26 x 5 cm
NGM-6	Forceps for changing blades (optional)



This instrument resp. medical device is non-sterile when delivered. It is to be reprocessed prior to use. The instrument must undergo risk assessment according to the RKI Guidelines (non-critical, semi-critical, critical A/B/C) prior to reprocessing.

NWB-2

NWB-8

The RAABE hemilaminectomy retractor may only be used, reprocessed and disposed of by qualified medical personnel!

The RAABE hemilaminectomy retractor is intended for reuse.

1) Intended purpose

Retracting and guiding instruments have the purpose of keeping or fixing products and tissue (e.g. sizers, absorbent cotton, swabs, clips, wire, screws, nuts, drills, bone substance, implants, cannulas, drains, holding rods, handles, retractor blades, etc.)

- in or at a specific position
- or moving into or to a specific position.

With the exception of retractors (according to PHA retractor Class Ir and Class IIa), hooks, vascular and tissue clamps, forceps, and needle holders.

Additional information regarding the intended purpose

Duration of application: The RAABE hemilaminectomy retractor is intended for short-term application.



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Field of application: Retracting and guiding instruments are used in all patients where products and tissues must be held or fixed in or at a specific position and/or moved into or at a specific position.

User profile: Retracting and guiding instruments may only be used by medically trained personnel (e.g., a medical specialist).

Application environment: Retracting and guiding instruments are only used under controlled environmental conditions (e.g., an operating room).

2) Indications

Treatment methods which require retracting and guiding of products and tissues.

3) Contraindication

All applications which run contrary to the physical and/or mechanical properties of the individual retracting and guiding instrument models are contraindicated. There are no generally applicable contraindications for the use of retracting and guiding instruments.

Nevertheless, increased risks must be taken into account which could result from the anatomical and physiological conditions as well as the clinical picture of the patient.

4) Possible adverse effects

The medical literature describes the following side effects, which may also possibly occur during the intended use of the RAABE hemilaminectomy retractor system:

- Bone fractures such, for example, spinous processes, vertebral bodies
- Infections
- Impaired wound healing
- Lesions of structures (tissues, nerves, vessels)
- Necroses
- Ischemia of other organs due to compression of blood vessels



Medical devices may, for example, contain chromium, nickel and/or titanium. The materials used are biocompatible, however they may cause allergic reactions or incompatibilities.

5) Prior to use

The FEHLING INSTRUMENTS RAABE hemilaminectomy retractor is supplied non-sterile and must be cleaned and sterilized by the user before initial use and before any further use (see 6) Reprocessing).



Perform a safety check prior to each use. Check for sharp edges, cracks, fractures or mechanical malfunctions and missing components (see 6) Reprocessing under "Maintenance, Checking and Testing").



Handle the RAABE hemilaminectomy retractor with care during storage, transport and cleaning!

Avoid striking and applying pressure to the RAABE hemilaminectomy retractor, so as not to cause any consequential damage! Do not overstrain functional parts!



Use only sterilized products of sound quality!



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6) Reprocessing			
<u> </u>	The medical device is to be reprocessed prior to use. It must undergo risk assessment according to the RKI Guidelines (non-critical, semi-critical, critical A/B/C) prior to reprocessing.		
À		legal regulations, national and international standards and guidelines as well any's own hygiene regulations for reprocessing are to be complied with.	
<u> </u>		ole national regulations must be followed for the reprocessing of instruments ents with Creutzfeldt-Jakob disease (CJD), suspected CJD or possible vari-	
	The instrum personnel.	ents may only be used, reprocessed and disposed of by qualified medical	
	Handle instruments with care during storage, transport and cleaning! Avoid striking and applying pressure to instruments, so as not to cause any consequential damage! Do not overstrain functional parts!		
	Do not clean titanium or titanium-containing instruments with oxidative processes (processes using hydrogen peroxide H ₂ O ₂ , e.g. Orthovario or Oxivario from Miele). By dissolving titanium, the application of these procedures leads to the destruction of titanium or titanium-containing instruments.		
Limitat proces	ions on re- sing	Frequent reprocessing has little impact on these instruments. The end of product life is normally determined by wear and tear and damage occurring through use (e.g. damage, illegible marking, functional failure - also see "Maintenance, Checking and Testing").	
	al informa- reproces-	Reprocessing is based on a validated procedure. All the cleaning steps mentioned (manual pre-cleaning, automated/manual cleaning, manual disinfection, and sterilization) were validated with the respective parameters specified in each case and listed under "Validated procedure". The recommended reprocessing agents (detergent: Neodisher® MediClean forte (Dr. Weigert); disinfectant: Korsolex® med AF (Bode Chemie GmbH)) were used for validation. Both water of potable water quality and fully deionized water (deionized water, demineralized, microbiologically at least of potable water quality) are used for cleaning. Automated reprocessing is preferable to manual cleaning due to a better and safer cleaning result. There is also the option of cleaning our instruments with other tested and approved chemicals which have been recommended by the chemical manufacturer with regard to their material compatibility. Please always observe the manufacturer's information on concentration, exposure time, temperature and renewal of the detergents and disinfectants. All instructions for use of the chemical manufacturer must be strictly observed. Otherwise, this can lead to visual material changes or material damage, such as, for example, corrosion, fractures or premature aging.	



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Initial treatment at the place of use	Pre-cleaning: ensure that blood, tissue and drug residues are removed from the instruments with a disposable cloth/paper wipe immediately after completion of the procedure and that they undergo mechanical cleaning immediately. After completion of initial treatment of the instruments, visual inspections must be performed to ensure that the instruments are complete. The instruments must be transported from the place of use to the place of reprocessing such that neither the user, third parties, the environment nor the medical devices are endangered or damaged (placement in closed, puncture-proof containers and - if necessary - use of protective caps).		
Preparation prior to cleaning	It is recommended to reprocess the instruments immediately after use because it is very difficult to remove dried residues from instrument parts that are difficult to access. Do not immerse in normal saline solutions (risk of pitting or stress corrosion). Instruments which were connected to each other during use must be disassembled back into their original condition before cleaning.		
Disassembly	See 10) Disassembly		
cleaning	Equipment: Basin Soft brush Water spray gun (or similar) Detergent: Neodisher® MediClean forte (Dr. Weigert) Procedure/Parameters: Rinse instruments, if possible in disassembled condition, under running cold water of potable water quality (<40 °C) until all visible contamination has been removed. Remove stubborn contamination with a soft brush (not a wire brush!). Cavities, crevices, slits and lumens must be rinsed intensively (>10 seconds) with cold water (potable water quality, <40 °C) using a water spray gun (or similar). Place the products for 10 - 30 minutes in a solution with 0.5 - 2 % Neodisher® MediClean forte with water (potable water quality, <40 °C). Use only an approved solution of a detergent that has no protein-fixing effect. Follow the instructions of the detergent and disinfectant manufacturer. Ensure that all areas of the instrument come into contact with the solution. If necessary, the moving parts of the instrument are moved back and forth in the cleaning bath.		
	 Remove coarse contamination using a suitable brush (not a wire brush!) during the exposure time. Rinse the instruments for one minute in cold deionized water (see "General Information on Reprocessing") and, if applicable, move movable parts back and forth. 		
Cleaning/Disinfection	If possible, a washer/disinfector according to DIN EN ISO 15883, which uses thermal disinfection, is to be preferred.		



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Cleaning: Automated Avoid overfilling instrument trays and washing trays - use only suitable instrument holders.

When placing instruments in the sterilization baskets and removing them afterwards, take special precautions to ensure that the tips do not become stuck in the mesh.

Validated procedure:

Equipment: Washer/Disinfector

G 7835 CD (Miele) / PG 8535 (Miele)

Cleaning program: Des-Var-TD (G 7835 CD)

Detergent: Neodisher® MediClean forte (Dr. Weigert)

Preparation:

- Instruments with joints are to be placed in the device such, that the joints
 are opened or disassembled if possible, and that the water can flow from
 the cavities and sac holes.
- If applicable, loosen springs
- Ensure that the inside of all cavities is also completely rinsed.
- Ensure that no areas are left unwashed.
- Connect the Luer connectors of the instruments, if present, to the Luer lock rinsing attachment of the WD.

Procedure/Parameters:

- Pre-wash for 3 minutes with cold water (potable water quality, <40 °C)
- Emptying
- Clean for 10 minutes with a solution of 0.5 2 % Neodisher[®] MediClean forte in water (potable water quality) at 55 °C
- Emptying
- Rinse for 2 minutes with water (potable water quality, <40 °C)
- Emptying
- Rinse for 1 minute with cold deionized water (<30 °C)
- Emptying
- Thermodisinfection for 5 minutes with deionized water (>90 °C)
- Dry for 30 minutes (90 °C)

After cleaning in the machine, inspect cavities, blind holes, etc. for visible contamination. If necessary, repeat the cycle or clean manually.

Cleaning: Manually Validated procedure:

Equipment: Basin

Soft brush

Water spray gun (or similar)
Bandelin Sonorex Digitec

Detergent: Neodisher® MediClean forte (Dr. Weigert)



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	 Procedure/Parameters: Place instruments, if possible in disassembled condition, in cold water (potable water quality, <40 °C) for 10 minutes. Move any movable parts, if present, back and forth over the entire range of movement. Use a soft brush (not a wire brush) to clean the instruments until no more contamination is visible. Rinse the instruments for at least 20 seconds using a water spray gun (or similar). Ultrasonic cleaning:
	 Clean for 10 minutes at <40 °C with 0.5 - 2 % cleaning solution at 35 kHz After ultrasonic cleaning, rinse the instruments for at least 20 seconds using a water spray gun (or similar). Rinse the instruments for at least 10 seconds with water (potable water quality, <40 °C). Deionized water (<40 °C) is to be used for the final rinse. The instruments are rinsed for at least 30 seconds with deionized water. Ensure that no residues remain on the products.
Disinfection: Manually	Consult the instructions on the label when selecting a disinfectant (see chemical manufacturer information).
	Validated procedure: Equipment: Basin Bandelin Sonorex Digitec
	 Disinfectant: Korsolex® med AF (Bode Chemie GmbH) Procedure/Parameters: After cleaning, place the products in an ultrasonic bath (35 kHz, <40 °C) with a suitable disinfectant solution (e.g. 0.5 % Korsolex® med AF) for 5 minutes. Ensure that all surfaces are wetted with the disinfectant. If applicable, move the moving parts in the disinfection bath before switching on the ultrasonic cleaner. After disinfection, rinse all products thoroughly with deionized water (<40 °C) for at least 1 minute to remove the disinfectant and, if applicable, move the moveable parts of the instrument back and forth. Ensure that no residues remain on the products. Dry with sterile, oil-free compressed air.
Drying	If drying is to be achieved as part of the cleaning/disinfection cycle, do not exceed 120 °C. Then dry with suitable compressed air in accordance with Robert Koch Institute (RKI) recommendations. Pay particular attention to the drying of difficult-to-access areas.
Assembly	See 9) Assembly



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joints), an instrument oil base European or United States Ph sterilizable and steam-perme nally marked by a correspond be treated with care products and question the effect of ste Perform a safety check of the check for sharp edges, crack missing components. Check instruments with move sive play). Check locking med All instruments: use a magnif for damage and wear and teal in particular, inspect the criticarea. Defective or damaged instrum sorted out and cleaned and of facturer. Repairs may only be shops authorized by the manuavailable from the manufactures in accordance with homents with tips or sharp edge ture and break-proof disposal	instruments prior to each use. When doing so, is, fractures and mechanical malfunctions and able parts for smooth operation (avoid exceschanisms. If ying lamp to visually inspect the components ar. It cal points on moving parts and in the working ments, or those with illegible markings, must be disinfected before being returned to the manuele carried out by the manufacturer or by work-ufacturer. A verification form for this process is
DIN ÉN ISO 11607, and DIN Sets: sort instruments into de	with the standard series DIN EN 868, 58953. dicated trays or place them in general-purpose ays appropriately using a suitable procedure.
Steam sterilization in a fractionated vacuum process in a device complying with DIN EN 285 and DIN EN ISO 17665. In order to prevent staining and corrosion, the steam must be free of contaminants. The recommended limits for contaminants for feed water and steam condensate are defined by DIN EN 285. Validated procedure: Equipment: Tuttnauer Autoclave Type B 3870 EHS / Lautenschläger ZentraCert	
Cycle type: Sterilization temperature: Holding time: Drying time: When sterilizing more than of	3 pre-vacuum phases 132 – 134 °C 4 – 5 min. 20 min. one instrument in a sterilization cycle, do not the sterilizer (see manufacturer's instructions).
	joints), an instrument oil base European or United States Ph sterilizable and steam-perme nally marked by a correspond be treated with care products and question the effect of ste Perform a safety check of the check for sharp edges, crack missing components. Check instruments with move sive play). Check locking med All instruments: use a magnifor damage and wear and teat In particular, inspect the criticarea. Defective or damaged instrum sorted out and cleaned and of facturer. Repairs may only be shops authorized by the man available from the manufacture. Instruments that can no long metal in accordance with homents with tips or sharp edgeture and break-proof disposal maged instruments! Singly: In accordance DIN EN ISO 11607, and DIN Sets: sort instruments into desterilization trays. Pack the trusted in the steam must be for contaminants for feed with DIN EN 285 and DIN EN 285. Validated procedure: Equipment: Procedure/Parameters: Cycle type: Sterilization temperature: Holding time: Drying time: When sterilizing more than of the sterilization more than the sterilization of the sterilization temperature: When sterilizing more than the sterilization temperature:



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Storage	In accordance with § 4 MPBetreibV (Medical Devices Operator Ordinance) and the standard series DIN EN 868, DIN EN ISO 11607, and DIN 58953. Instruments must be stored dry, at room temperature, clean, protected from damage and mechanical influences (avoid condensation, damage). Always keep instruments, if applicable, in a released state. This counteracts premature fatigue of the spring tension. Instruments must be transported to their place of use in a closed, puncture-proof sterile container.
Disposal	These products largely consist of steel or titanium. These are to be cleaned prior to disposal. Disposal can be performed at a scrap metal recycling facility. To protect employees, care must be taken to ensure that any pointed tips or sharp edges are protected.

The instructions listed above were validated by the medical device manufacturer as suitable for preparing a medical device for reuse. It is the responsibility of the reprocessor to ensure that the reprocessing actually performed using equipment, materials, and personnel in the reprocessing facility achieves the desired results. This normally requires validation and routine monitoring of the process. Likewise, any deviation from the provided instructions on the part of the reprocessor should be properly evaluated for effectiveness and potential adverse consequences.



Any modification to the device or any deviation from these Instructions for Use will result in exclusion of liability!

Subject to change without notice.

7) Configuration and application

The RAABE hemilaminectomy retractor is a U-shaped bar retractor with an additional center arm. The movable retractor arm as well as the center arm are free to move on the toothed rack.

Retraction elements of different sizes, e.g. retractors or flat blades, can be inserted at the distal end of the two retractor arms as well as of the center arm.

A gear control is used to move the flexible retractor arm in cranial-caudal direction. The center arm can be placed on the toothed rack at any position. The retaining element attached to the center arm can be moved in lateral direction by the gear control.

Figure 1 gives a configuration example for the RAABE hemilaminectomy retractor. Table 1 lists the corresponding components.

In particular, the RAABE hemilaminectomy retractor is intended for exposure of the surgical field for unilateral accesses to the spine up to a maximum of 3 segments.

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Table 1: List of the corresponding components

	Article no.	Description
1	NWA-1A	Hemilaminectomy retractor, body
-		only
2	NWA-1B	Coupling rider
3	NWA-1C	Blade guide
4	NWA-2/3/4	Cranial-caudal fi-
_		xation pins
	NWB-1/2/3/4	Muscle blade 90°,
5		15 mm wide
J	NWB-5/6/7/8	Muscle blade 90°,
	NVVD-5/0/1/0	30 mm wide
		Cross-over
6	NWC-1/2/3/4	muscle blade
		120°, 20 mm wide

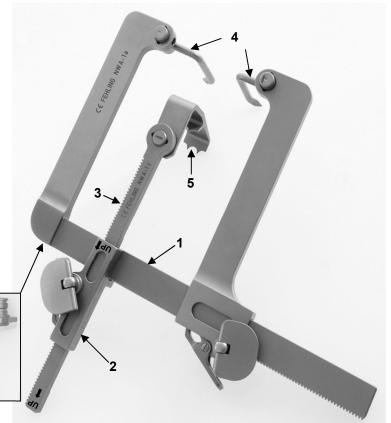


Fig. 1: Configuration example for the RAABE hemilaminectomy retractor

The RAABE hemilaminectomy retractor is entirely made of titanium. This allows intraoperative control photographs to be taken while the retractor is in position. The titanium elements are only visible as gray shadows but do not cause any artifacts.

The RAABE hemilaminectomy retractor offers the following main advantages:

- Unlike retractors intended for the same purpose, the RAABE hemilaminectomy retractor provides largely unhindered access to the surgical field, in particular to median structures, which are often covered by conventional retractors. This is due to the arrangement of the retraction elements, in particular the soft-tissue retractors which are inserted at a fixed angle and act in cranial-caudal direction.
- In a unilateral surgical field, the muscle blades, which are available in two widths and four depths, reliably retract the surgical field in the desired width, even for prolonged duractions of surgery.
- Cross-over procedures with unilateral access are enabled by angled muscle blades.

Cross cross processing control and crossing		
<u> </u>	Use only sterilized products of sound quality!	
<u> </u>	Before employing the RAABE hemilaminectomy retractor, ensure that the surgical field is prepared accordingly.	
À	Medical devices made of ferromagnetic materials must not be exposed to either a magnetic field or external electromagnetic influences.	
À	Medical devices containing metals are electrically conductive and must not be exposed to a power source or external electrical influences.	

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The choice of components depends on the anatomical and physiological conditions as well as the area of application. Care must be taken here to ensure that the components used are of the correct size and provide sufficient stability.

During use

Rotate the semicircular toggle lever of the rider clockwise until the desired exposure of the surgical field has been reached.

Options:

- For unilateral procedures, use the 90° muscle blades at the respective required depth.
- For cross-over applications, use the cross-over muscle blades at the respective required depth. As the tissue edge is pushed laterally at an angle, this enables access to the other side of the spine.



Before removing the retractor from the operating field, make sure that the retractor arms are slowly pushed back together.

8) Required accessories

No accessories are necessary as a matter of principle for using the RAABE hemilaminectomy retractor. However, the NGM-6 blade ejector can be used as an option for removing or changing blades.

A RAABE sterilization and storage container (Fig. 2) can be used for sterilization or storage.



Fig. 2: RAABE Sterilizing and storage container - NWA-0

9) Assembly

For assembly of the RAABE hemalinectomy retractor, please observe the following assembly instructions.



Figures 3 - 5 are examples only and do not correspond to the RAABE hemilaminectomy retractor, as the wing of the wing screw does not feature a recess. However, the functional principle is the same.

Figure 3 illustrates an example of a U-shaped bar retractor with gear/lock. The bar retractor consists of one fixed retractor arm (a), a toothed rack (b) and one movable retractor arm (c).

The proximal end of the movable retractor arm is the cage (d) where the wing screw (e) with the gear as well as the lock (f) are located.

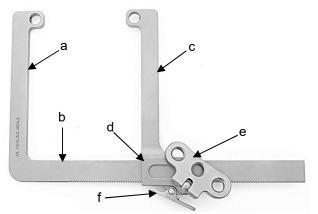


Fig. 3: Exemplary U-shaped bar retractor with gear/lock



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Insert the toothed rack (b) into the recess of the cage (d). During this process, release the lock (f) by pressing in direction of the toothed rack (b) (Fig. 4).

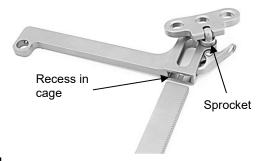


Fig. 4



Ensure that both retractor arms point in the same direction and the sprocket of the flexible retractor arm points outwards.

Advance the movable retractor arm (c) on the toothed rack (b) inwards towards the fixed retractor arm (a) (Fig. 5).

Following a functional test, the assembled instrument is now ready for use again.

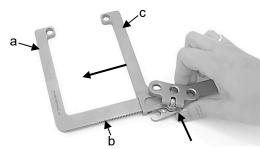


Fig. 5

Based on the specific patient anatomy, determine the length of the cranial-caudal fixation pins (4, see Table 1) and insert the pins into the mounts provided at the distal end of the retractor arms. The tip of the pin on the cranial retractor arm must be aligned to cranial, the tip of the pin on the caudal retractor arm to caudal. Fixation of the pins in the mounts is angularly stable.

Then bring the two retractor arms together until they can be inserted comfortably into the tissue incision. Then spread the two retractor arms such that the tips of the pins are only just anchored cranially and caudally in the tissue.

Important: The cranial-caudal fixation pins must not open the wound edges under tension, otherwise the pull of the muscle blade would lead to overstretching of the wound edges.

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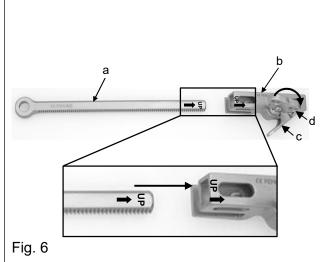


In the next step, insert the blade guide (a) for the muscle blade into the coupling rider (b) (see Fig. 6).

Both the blade guide (a) as well as the coupling rider (b) have a side marked with an "arrow" and "UP". Before inserting the blade guide (a) into the coupling rider (b), make sure that the two marked sides are facing upwards. The blade guide (a) is inserted into the coupling rider (b) in the direction indicated by the arrow (Fig. 6). The arrow on the coupling rider (b) refers exclusively to the insertion of the blade guide (a) and not for mounting the retractor body.

The blade guide (a) is pushed through the opening of the coupling rider (b) until the lock (c) on the toothed rack of the blade guide (a) engages. While inserting, the lock (c) must be unlocked by pressing down.

By rotating the upright thumb screw (d) clockwise, the blade guide (a) can be tightened in a controlled manner.



Important: The coupling rider (b) must be aligned such that its U-profile is open in direction of the spine (Fig. 7).

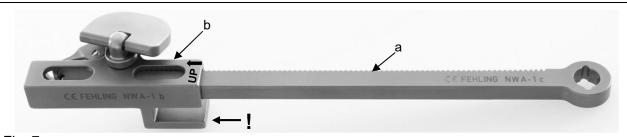


Fig. 7

The blade guide (a) should protrude as far as possible from the coupling rider (b) (see Fig. 8).

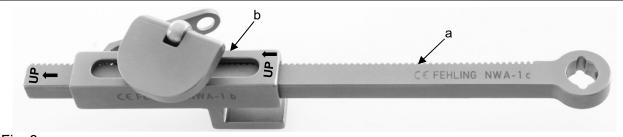


Fig. 8

Next, determine the optimal muscle blade (e) (5/6, see Table 1) for the patient-specific application and insert it angularly stable into the blade guide (a). Align the tissue claws of the blade laterally (see Fig. 9).

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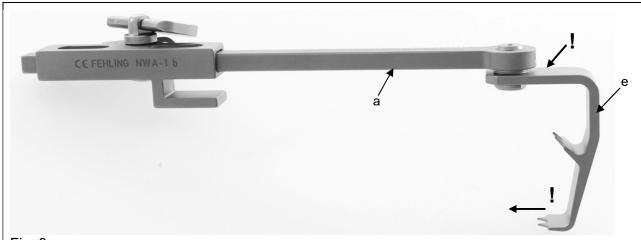


Fig. 9

Insert the muscle blade (e) into the incision. Then pull the entire center bar together with the muscle to lateral and guide the U-profile of the coupling rider (b) from the lateral side over the toothed rack (f) (see Fig. 10).

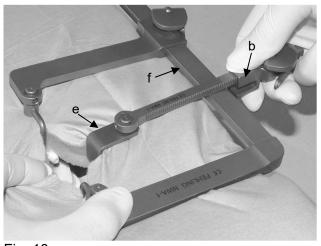


Fig. 10

10) Disassembly

The RAABE hemilaminectomy retractor must be disassembled as follows for reprocessing.

For disassembly of the center arm, please observe the corresponding assembly instructions (see 9) Assembly).



Figures 11 and 12 are examples only and do not correspond to the RAABE hemilaminectomy retractor, as the wing of the wing screw does not feature a recess. However, the functional principle is the same.

Figure 11 gives an example of a U-shaped bar retractor with gear/lock to illustrate disassembly.

Advance the movable retractor arm (c) outwards along the toothed rack (b) until it can be removed. During this process, release the lock (f) by pressing in direction of the toothed rack (b).

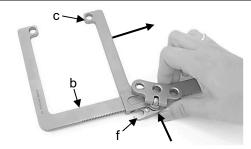


Fig. 11: Exemplary U-shaped bar retractor with gear/lock

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The instrument is now disassembled into its separate parts (Fig. 12) and can be reprocessed.



Fig. 12



Place small parts in suitable containers (e.g. sterilization baskets) for storage, cleaning and reprocessing!

11) Obligation to report serious incidents

The user is obliged to report serious incidents which have occurred in connection with the medical device to the manufacturer by e-mail to vigilance@fehling-instruments.de or via the complaint form at https://www.fehling-instruments.de/en/complaint/ and to the competent authority of the Member State in which the user is domiciled.

Symbols

In as far as the medical device or medical device label or instructions for use are labeled, the symbols represent the following meaning:

dymbolo represent the fellowing meaning.		
Manufacturer	Instructions for Use are to be observed	Warning
REF Article number	LOT Batch code	SN Serial number
CE labeling	CE labeling	Oil can for points to be lubricated
		UP 1 Marking of position

To contact the manufacturer:



FEHLING INSTRUMENTS GmbH & Co. KG Hanauer Landstr. 7A

63791 Karlstein, Germany Tel.: +49 (0) 6188-9574-40

Fax: +49 (0) 6188-9574-45

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