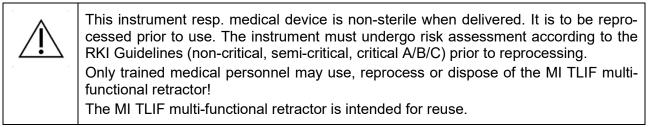
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Retractor	body	LVB-1	MI TLIF	⁻ multi-fun	ctional retractor, body only
Componer	<u>nts</u>				
Fixations/g	guides			Microbla	des
NWA-1B	Coupling r	ider for spine r	etractors	LVC-5	TLIF microblade 45 mm, Premia Spine
NWA-1D	Blade guid	le, titanium, wit	h adjusta-	LVC-6	TLIF microblade 70 mm, Premia Spine
	ble angle			LVC-7	TLIF microblade 95 mm, Premia Spine
NWA-1C	Blade guid (optional a	le for spine reti Iternative)	actors		
Titanium n	nedial blade	es		Retracto	r blades
LVB-5	medial bla	de, 50 x 24 mn	n	LVC-4	TLIF retractor blade, 45 x 75 mm, Premia
LVB-6	medial bla	de, 65 x 24 mn	n		Spine
LVB-7 LVB-8		de, 80 x 24 mn de, 95 x 24 mn		LVC-3	TLIF retractor blade, 45 x 90 mm, Premia Spine
		,		LVC-2	TLIF retractor blade, 55 x 75 mm, Premia Spine
				LVC-1	TLIF retractor blade, 55 x 90 mm, Premia Spine
Accessori	es				
LMT-6	Screwdrive	er SW4			
LMT-4	Cardan sc	rewdriver (opti	onal)		
NVG-9		hexagonal wr	,	ecula	
NVG-9L		hexagonal wr	•		version
LVB-0		•	•		ractors, 400 x 245 x 65 mm



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 MI TLIF multi-functional retractor is only intended for short-term use.

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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

In the medical literature, the following adverse effects are described that can possibly occur despite the correct use of the FEHLING MI TLIF multi-functional retractor during or after performing a TLIF procedure (oTLIF or miTLIF) (method-specific complications):

- CSF leakage
- Neural damage (e.g., transient radiculopathy, neurogenic bladder, ileus, paresis)
- Seroma
- Hematoma
- 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

As for adults, the decision to perform the procedure in children can only be made by the attending physician after considering all the benefits and risks.



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

FEHLING INSTRUMENTS MI TLIF multi-functional retractors are non-sterile when delivered and must be cleaned and sterilized by the user before initial use and every time before they are used thereafter (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").

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Image: A construction of the second construction of the sec

6) Reprocessing				
	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.			
	The national legal regulations, national and international standards and guidelines as well as the company's own hygiene regulations for reprocessing are to be complied with.			
	The applicable national regulations must be followed for the reprocessing of instruments used in patients with Creutzfeldt-Jakob disease (CJD), suspected CJD or possible variants.			
	The instruments may only be used, reprocessed and disposed of by qualified medical personnel.			
	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_2O_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.			
Limitations on re- processing		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").		
General infor- mation on repro- cessing		Reprocessing is based on a validated procedure. All the cleaning steps mentioned (manual pre-cleaning, automated/manual cleaning, manual dis- infection, and sterilization) were validated with the respective parameters specified in each case and listed under "Validated procedure". The recom- mended 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 man- ufacturer with regard to their material compatibility. Please always observe the manufacturer's information on concentration, exposure time, tempera- ture 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.		
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 com- pletion of the procedure and that they undergo mechanical cleaning imme- diately. After completion of initial treatment of the instruments, visual inspec- tions 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 be- cause 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 disas- sembled back into their original condition before cleaning.		
Disassembly	See 10) Disassembly		
Manual pre-clean- ing	Validated procedure: Equipment: Basin Soft brush Water spray gun (or similar) Detergent: Neodisher [®] MediClean forte (Dr. Weigert)		
	 <u>Procedure/Parameters:</u> 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. 		



	 forth in the cleaning bath Remove coarse contami during the exposure time Rinse the instruments fo 	nation using a suitable brush (not a wire brush!)
Cleaning/Disinfec- tion	If possible, a washer/disinfour uses thermal disinfection, is	ector according to DIN EN ISO 15883, which to be preferred.
Cleaning: Auto- mated	Avoid overfilling instrument trays and washing trays - use only suitable in- strument 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)
	 are opened or disassemily the cavities and sac hole If applicable, loosen spri Ensure that the inside of Ensure that no areas are Connect the Luer connellock rinsing attachment of 	ngs all cavities is also completely rinsed. e left unwashed. actors of the instruments, if present, to the Luer
	Procedure/Parameters:	
		with cold water (potable water quality, <40 °C)
	 Emptying Clean for 10 minutes wit forte in water (potable w Emptying 	h a solution of 0.5 - 2 % Neodisher [®] MediClean ater quality) at 55 °C
		water (potable water quality, <40 °C)
	 Rinse for 1 minute with o Emptying 	cold deionized water (<30 °C)
		minutes with deionized water (>90 °C) C)
		ne, inspect cavities, blind holes, etc. for visible repeat the cycle or clean manually.

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Clooping: Monually	Validated presedure:	
Cleaning: Manually	Validated procedure:	Desin
	Equipment:	Basin
		Soft brush
		Water spray gun (or similar)
		Bandelin Sonorex Digitec
	Detergent:	Neodisher [®] MediClean forte (Dr. Weigert)
	Procedure/Parameters:	
	 Place instruments, if point (potable water quality, - 	condition, in cold water <40 °C) for 10 minutes.
	Move any movable part of movement.	s, if present, back and forth over the entire range
	Use a soft brush (not a contamination is visible)	wire brush) to clean the instruments until no more .
	 Rinse the instruments to (or similar). 	for at least 20 seconds using a water spray gun
	Ultrasonic cleaning:	
	Clean for 10 minutes at	<40 °C with 0.5 - 2 % cleaning solution at 35 kHz
	 After ultrasonic cleanin using a water spray gui 	g, rinse the instruments for at least 20 seconds n (or similar).
	 Rinse the instruments f quality, <40 °C). 	or at least 10 seconds with water (potable water
		C) is to be used for the final rinse. The instru- least 30 seconds with deionized water. Ensure on the products.
Disinfection: Manu- ally	Consult the instructions on the label when selecting a disinfectant (se chemical manufacturer information).	
	Validated procedure:	
	Equipment:	Basin
		Bandelin Sonorex Digitec
	Disinfectant:	Korsolex [®] med AF (Bode Chemie GmbH)
	Procedure/Parameters:	
	 After cleaning, place the with a suitable disinfec 5 minutes. Ensure that 	e products in an ultrasonic bath (35 kHz, <40 °C) tant solution (e.g. 0.5 % Korsolex [®] med AF) for all surfaces are wetted with the disinfectant. If oving parts in the disinfection bath before switch- eaner.
	(<40 °C) for at least 1 r ble, move the moveable	e all products thoroughly with deionized water ninute to remove the disinfectant and, if applica- e parts of the instrument back and forth. s 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	
Maintenance, checking and test- ing	For instruments with movable components that are exposed to friction (e.g. joints), an instrument oil based on paraffin/white oil (according to the valid European or United States Pharmacopoeias) which is biocompatible, steam sterilizable and steam-permeable is to be applied. Such places are additionally marked by a corresponding symbol of an oil can (see Fig. 1). Instruments must not be treated with care products containing silicone. These can lead to stiffness and question the effect of steam sterilization. Perform a safety check of the instruments prior to each use. When doing so, check for sharp edges, cracks, fractures and mechanical malfunctions and missing components. Check instruments with movable parts for smooth operation (avoid excessive play). Check locking mechanisms. All instruments: use a magnifying lamp to visually inspect the components for damage and wear and tear. In particular, inspect the critical points on moving parts and in the working area. Defective or damaged instruments, or those with illegible markings, must be sorted out and cleaned and disinfected before being returned to the manufacturer. Repairs may only be carried out by the manufacturer or by workshops authorized by the manufacturer. A verification form for this process is available from the manufacturer. In the case of surgical instruments with tips or sharp edges in particular, safe storage in a closed, puncture and break-proof disposable container must be ensured. Do not use damaged instruments!	
	With the MI TLIF multi-functional re- tractor, instrument oil must be ap- plied to the respective marked areas. The corresponding points are marked with an oil can symbol the on the underside of the MI TLIF multi-functional retractor (Fig. 1). Fig. 1: MI TLIF multi-functional re- tractor with the respective marked areas	
Packaging	Singly: In accordance with the standard series DIN EN 868, DIN EN ISO 11607, and DIN 58953. Sets: sort instruments into dedicated trays or place them in general-purpose sterilization trays. Pack the trays appropriately using a suitable procedure.	



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Sterilizati	ion	with DIN EN 285 and DIN E corrosion, the steam must be	tionated vacuum process in a device complying EN ISO 17665. In order to prevent staining and e free of contaminants. The recommended limits water and steam condensate are defined by	
		Validated procedure:		
		Equipment:	Tuttnauer Autoclave Type B 3870 EHS / Lautenschläger ZentraCert	
		Procedure/Parameters:		
		Cycle type:	3 pre-vacuum phases	
		Sterilization temperature:	132 – 134 °C	
		Holding time:	4 – 5 min.	
		Drying time:	20 min.	
			one instrument in a sterilization cycle, do not of the sterilizer (see manufacturer's instructions).	
Storage		In accordance with § 4 MPBetreibV (Medical Devices Operator Ordinance) and the standard series DIN EN 868, DIN EN ISO 11607, and DIN 58953.		
		damage and mechanical inf	dry, at room temperature, clean, protected from iluences (avoid condensation, damage). Always ble, in a released state. This counteracts prem- ension.	
			orted to their place of use in a closed, puncture-	
Disposal		prior to disposal. Disposal of	sist of steel or titanium. These are to be cleaned can be performed at a scrap metal recycling fa- , care must be taken to ensure that any pointed rected.	
preparing reproces facility ac process.	g a medical sing actuall chieves the Likewise, a	device for reuse. It is the res y performed using equipmen desired results. This normally any deviation from the provid	he medical device manufacturer as suitable for ponsibility of the reprocessor to ensure that the t, materials, and personnel in the reprocessing requires validation and routine monitoring of the ded instructions on the part of the reprocessor d potential adverse consequences.	
	in exclusio	Any modification to the device or any deviation from these Instructions for Use will result in exclusion of liability! Subject to change without notice.		



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7) Configuration and application

The MI TLIF multi-functional retractor is a U-shaped bar retractor with one fixed and one movable retractor arm. A gear control is used to move the flexible retractor arm along the toothed rack. As a supplement, a coupling rider with a blade guide is used for a three-point holding system.

Two ball mounts are located at the distal end, in which the TLIF retractor blades with mount are guided. The TLIF retractor blades are locked into place in the ball sockets using the clamping screw with a hexagonal head, which is operated with the screwdriver LMT-6 (see 8) Required accessories).

Figure 2 depicts such a configuration example for the MI TLIF multi-functional retractor with a central arm consisting of a coupling rider with a blade guide for attaching the blade at the distal end. Table 1 lists the corresponding components.

Table 1: List of the corresponding components				
	Article no.	Description		
1	LVB-1	MI TLIF multi-functional retrac- tor, body only		
2	LVC-1/2/3/4	TLIF retractor blade		
3	LVC-5/6/7	TLIF microblade		
4	NWA-1B/1D	Coupling rider with blade guide		
5	LVB-5/6/7/8	Medial blade		

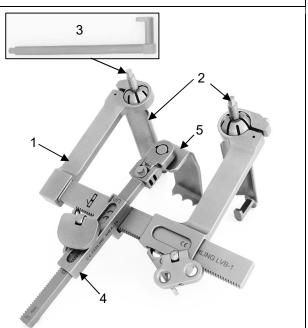


Fig. 2: Configuration example for the MI TLIF multi-functional retractor with center arm

Figure 3 shows an example of a pedicle screw with a compatible screw shape for the system.



The FEHLING INSTRUMENTS prod-Fig. 3: Example of pedicle screw with compatiuct portfolio does not include pedicle ble screw shape **Requires self-locking nut!** screws.

The MI TLIF multi-functional retractor is designed specifically for visualizing the surgical field during minimally invasive approaches to the lumbar spine and for distraction of the disc space in dorsal transmuscular approaches. The retractor is designed for TLIF application and is used in combination with a pedicle-screw system for rod-screw implants.

In particular, the MI TLIF multi-functional retractor is intended for the following surgical procedures:

- Use in fusion procedures, etc., often combined with neural decompression.
- Treatment of degenerative instabilities (spondylolisthesis/scoliosis) with or without spinal stenosis.

In a young patient cohort, spinal fusions are typically performed to treat (isthmic) spondylolisthesis or erosive osteochondrosis (e.g., after disk surgery).



Use only sterilized products of sound quality!

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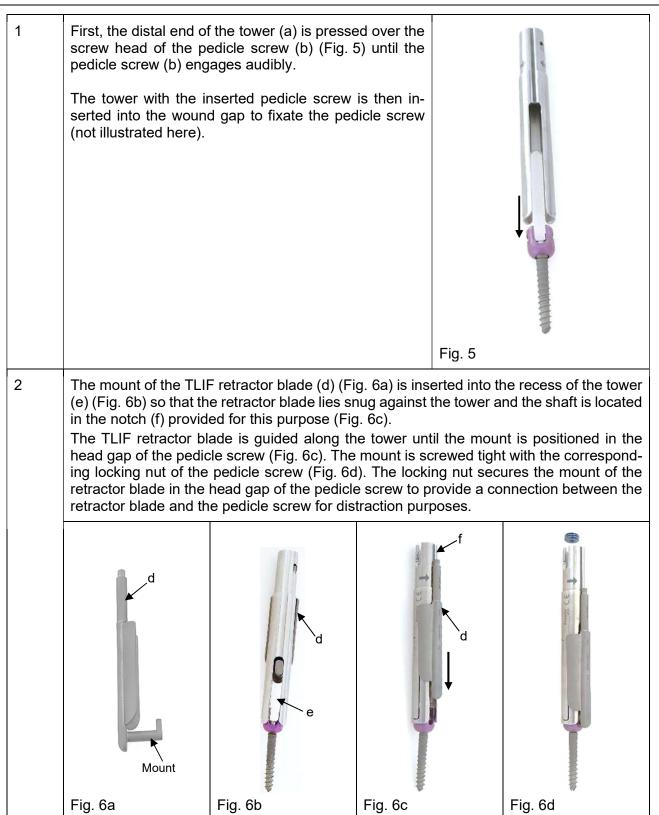
	Prior to inserting the MI TLIF multi-functional retractor, ensure that the surgical field has been prepared accordingly beforehand.
	Medical devices made of ferromagnetic materials must not be exposed to either a mag- netic field or external electromagnetic influences.
	Medical devices containing metals are electrically conductive and must not be exposed to a power source or external electrical influences.
	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
and trai	the MI TLIF multi-functional retractor is used, the transpedicular screws must be inserted nsmuscular exposure must be carried out in the area of the spinal segment to be treated. Ible to insert the pedicle screw, the surrounding tissue must be kept away accordingly.
	The locking screw at the distal end of the retractor arms must not be screwed in if no shaft has been inserted, as this will cause plastic deformation of the ball and the shaft can no longer be inserted.
	Do not unscrew the locking screw completely during use, otherwise it could drop into the patient's body. To release the shaft, it is sufficient to only loosen the locking screw.
exampl (c). These	4 illustrates the customer-specific tower (a) and, as an e, a pedicle screw (b) with the corresponding locking nut components are not part of the FEHLING JMENTS product portfolio.

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3	After securing the mount with the pedicle screw, the tower can be removed (Fig. 7).	Fig. 7
4	The central drill holes of the balls (arrows in Fig. 8) of the retractor body are pushed across the cylindrical shafts of the respective TLIF retractor blades or TLIF microblades extending out of the wound, whereby the toothed rack of the retractor is always in a medial posi- tion.	Fig. 8
	The balls are inserted as close as possible to the wound edge and are positioned so that the soft tissue is securely retracted and a space is created between the blade shafts that is large enough to allow further dissection. The CERAMO [®] hexagonal wrench NVG-9 (g) (Fig. 9) may be used to grasp the blades on their proximal hexagonal profile and screw them into the optimum position.	Fig. 9
	As soon as this position is reached, the screwdriver LMT-6 is used to compress the balls until a stable ball- blade shaft connection is created (Fig. 10). Figure 10 depicts the LMT-4 cardan screwdriver. In contrast, the LMT-6 screwdriver features a rigid shaft and has no cardan joint.	Fig. 10
5	In order to widen the surgical site towards medial, blade guide (h) is fitted with a muscle blade (i) (LVB-5/6/7/8) suitable for the depth (Fig. 11). Figure 11 shows this using the NWA-1C blade guide as an example.	Fig. 11

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Then pass the NWA-1D blade guide (h) through the central opening of the NWA-1B coupling rider (j) in the direction indicated by the arrow (Fig. 12). In so doing, care must be taken that U-shaped part of the coupling rider (j) is open below and towards the surgical site. The coupling rider (j) should be located close to the proximal end of the blade guide (h). To insert the blade guide into the coupling rider, please follow the assembly instructions (see 9) Assembly). Fig. 12 The blade guide (h) (Fig. 13a) can be angled at the distal end using the LMT-6 screwdriver (k) to obtain a better view of the underlying surgical field (Fig. 13b). To angle the blade mount, the outer hexagon screw of the blade guide (h) must be rotated clockwise (Fig. 13c). Fig. 13a Fig. 13b Fig. 13c The medial muscle blade is inserted into the center of the surgical site until it surrounds the medial muscle as deeply as possible. Pull the blade guide along with the coupling rider and the muscle blade towards medial and push the U-profile of the coupling rider over the toothed rack of the retractor starting from the outer side (Fig. 14). The medial muscle is pulled as far as required in a medial direction by turning the wing screw of the coupling rider clockwise. The surgical site now has a trapezoidal Fig. 14 shape.

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	The coupling rider I must be attached to the retractor body according to the symbolic marking (Fig. 15a). Here it should be ensured that the U-profile of the cou- pling rider (j) is open towards the surgical site so that the coupling rider can be pushed over the toothed rack of the retractor from the outer side of the retractor in the direction indicated by the arrow (Fig. 15b). Figure 15c depicts the proper assembly of the coupling rider with blade guide on the retractor body. Fig. 15a
	The marking of the coupling rider and the blade guide applies exclusively to these two components and is not related to the marking of the MI TLIF multi-functional retractor.
	Fig. 15b Fig. 15c
6	To retract the disk gap, turn the wing screw (I) (Fig. 16) of the retractor body anticlockwise. This will simultane- ously distract soft tissue and the disk gap at approx. 2-mm intervals in the cranial-caudal axis. Fig. 16
7	A unilateral facetectomy may now be performed followed by a disk resection and the insertion of a TLIF cage.
8	 After completing the steps described in item 7, press the lock of the coupling rider to release the pressure on the medial muscle retraction remove the coupling rider along with the blade guide and the muscle blade remove the self-locking nuts from the screw heads of the pedicle screws use the screwdriver LMT-6 to release the compression of the balls of the retractor lift the mount of the TLIF retractor blades or TLIF microblades out from the pedicle screws release the retractor body by pressing the lock of the movable retractor arm and simultaneously turning the wing screw clockwise remove the retractor from the surgical site.

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	Before removing the retractor from the operating field, make sure that the retractor arms are slowly pushed back together.
9	Continue the surgical procedure as planned.

8) Required accessories

A screwdriver LMT-6 (Fig. 17) is required for application of the MI TLIF multi-functional retractor and the blade guide NWA-1D.

The CERAMO[®] hexagonal wrench NVG-9 (Fig. 18) or NVG-9L (long version) can be used to grasp the blades by their hexagonal profile and rotate them to their optimum position.

The LVB-0 storage and sterilization container can be used for sterilization or storage.





Fig. 18: CERAMO® hexagonal wrench NVG-9

9) Assembly

rack (b) (Fig. 20).

<u>(</u>)

For assembly of the MI TLIF multi-functional retractor please observe the following assembly instructions.

Figure 19 illustrates the MI TLIF multi-functional retractor, which is a U-shaped bar retractor with wing screw. 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.

A ball mount (g) is located at the distal ends of each of the fixed and movable retractor arms, in which the TLIF retractor blades with mount and the TLIF microblade are guided.

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

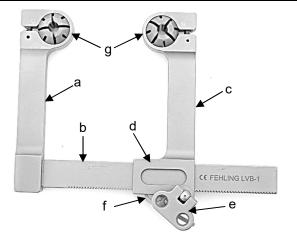


Fig. 19: Exemplary bar body with sprocket/lock

Recess in cage Sprocket

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

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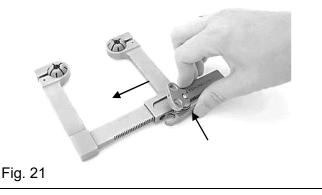
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Advance the movable retractor arm (c) on the toothed rack (b) inwards towards the fixed retractor arm (a) (Fig. 21).

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



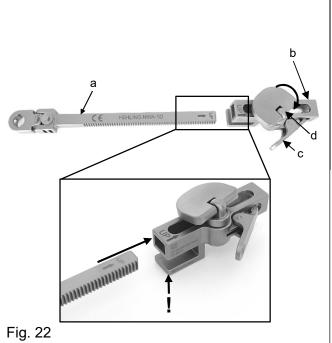
To insert the blade guide into the coupling rider, please observe the following assembly instructions.

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. 22). 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 wing 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 site (Fig. 22).



The blade guide (a) should protrude as far as possible from the coupling rider (b) (see Fig. 23).

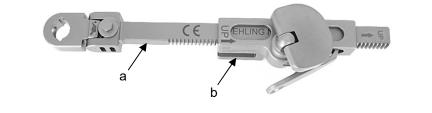


Fig. 23

Next, determine the optimal muscle blade (LVB-5/6/7/8) for the patient-specific application and insert it into the blade guide (a) (see 7) Configuration and application - during use).

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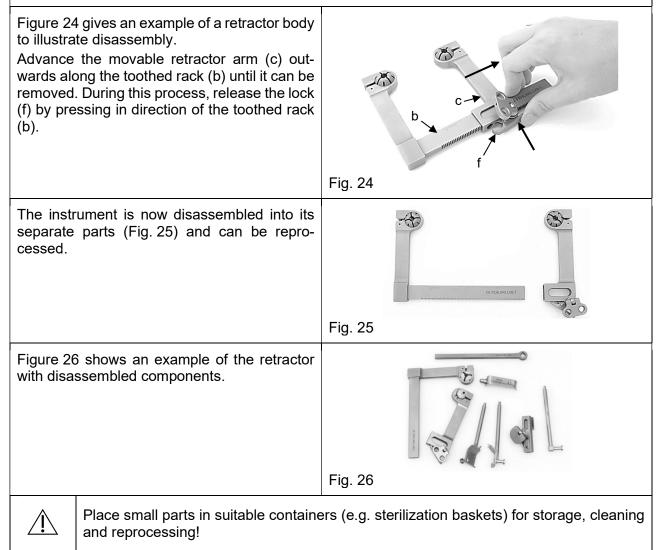
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10) Disassembly

The MI TLIF multi-functional retractor must be disassembled as follows for reprocessing.

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



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.

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Symbols			
In as far as the medical device or medical device label or instructions for use are labeled, the symbols have the following meaning:			
Manufacturer		Instructions for Use are to be observed	Warning
REF Article number		LOT Batch code	SN Serial number
C E labeling		CE labeling	Oil can for points to be lubricated
		Marking of position	UP 1 Marking of position
To contact the ma	nufacturer:		
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