

# Instructions for Use for Qualified Specialists in Orthopaedic Technology Locked System Knee Joints





Download: www.fior-gentz.com

# EN

Page

. . . . . .

.

| 1.  | Infor | mation   | 4  |
|-----|-------|--|----|
| 2.  | Safe  | ty Instructions  | 4  |
|     | 2.1   | Classification of the Safety Instructions                                      | 4  |
|     | 2.2   | All Instructions for a Safe Handling of the System Knee Joint                  | 4  |
| 3.  | Use   |  | 7  |
|     | 3.1   | Intended Use   | 7  |
|     | 3.2   | Indication   | 7  |
|     | 3.3   | Contraindication   | 7  |
|     | 3.4   | Qualification  | 8  |
|     | 3.5   | Application  | 8  |
|     | 3.6   | Product Range  | 8  |
|     | 3.7   | Combination Possibilities with Other System Joints                             | 8  |
| 4.  | Joint | Function   | 8  |
| 5.  | Scop  | e of Delivery  | 9  |
| 6.  | Load  |  | 9  |
| 7.  | Tools | for Assembling the System Joint  | 9  |
| 8.  | Asse  | mbly Instructions  | 10 |
|     | 8.1   | Mounting the Extension Stop  | 10 |
|     | 8.2   | Mounting the Coil Spring and the Locking Pawl/Step Lock Pawl                   | 11 |
|     | 8.3   | Mounting the Cover Plate   | 11 |
|     | 8.4   | Checking the System Joint's Free Movement                                      | 12 |
|     | 8.5   | Checking the Lock Function   | 12 |
|     | 8.6   | Securing the Screws  | 13 |
| 9.  | Mou   | nting the Lever Extension  | 13 |
| 10. | Adju  | stment Options on the Orthosis   | 14 |
|     | 10.1  | Locating Pin   | 14 |
|     | 10.2  | Extension Stop and Flexion Stop for the NEURO FLEX MAX Lock Function           | 14 |
|     | 10.3  | Extension Stop and Flexion Stop for the NEURO LOCK MAX and NEURO LOCK          | 16 |
|     | 10.4  | NEURO FLEX MAX Step Lock Function  | 19 |
|     | 10.5  | Alternative Function for the NEURO FLEX MAX Lock Function/Step Lock Function:  |    |
|     |       | Limitation of the Maximum Knee Flexion Angle                                   | 20 |
|     | 10.6  | Alternative Function for the NEURO LOCK: Free Moving, Monocentric System Joint |    |
|     |       | with Integrated Posterior Offset   | 22 |
| 11. | Conr  | ecting to the System Side Bar/System Anchor                                    | 22 |

Content

.

.

| 12. | Converting the System Knee Joints  | 23 |
|-----|--|----|
|     | 12.1 Conversion Options  | 23 |
|     | 12.2 Conversion  | 23 |
| 13. | Advice on Optimal Orthosis Functionality                                     | 24 |
| 14. | Maintenance  | 25 |
|     | 14.1 Documentation of Maintenance in the Orthosis Service Passport           | 26 |
|     | 14.2 Replacing the Sliding Washers   | 26 |
|     | 14.3 Replacing the Locking Pawl and the Step Lock Pawl                       | 26 |
|     | 14.4 Dirt Removal  | 26 |
| 15. | Period of Use  | 27 |
| 16. | Storage  | 27 |
| 17. | Spare Parts  | 28 |
|     | 17.1 Exploded View Drawing NEURO LOCK MAX                                    | 28 |
|     | 17.2 Exploded View Drawing NEURO FLEX MAX Lock Function                      | 29 |
|     | 17.3 Exploded View Drawing NEURO FLEX MAX Step Lock Function                 | 30 |
|     | 17.4 Spare Parts for the NEURO LOCK System Knee Joint                        | 31 |
|     | 17.5 Spare Parts for the NEURO LOCK MAX System Knee Joint                    | 33 |
|     | 17.6 Spare Parts for the NEURO FLEX MAX System Knee Joint Lock Function      | 34 |
|     | 17.7 Spare Parts for the NEURO FLEX MAX System Knee Joint Step Lock Function | 37 |
| 18. | Disposal   | 39 |
| 19. | Signs and Symbols  | 39 |
| 20. | CE Conformity  | 40 |
| 21. | Legal Information  | 40 |
| 22. | Information for the Treatment Documentation                                  | 41 |
| 23. | Handing Over the Orthosis  | 42 |

. . . . . . . . . . .

. . . . . . . . . . . . . .

.

. .

## 1. Information

These instructions for use are addressed to qualified specialists in orthopaedic technology and do not contain any notes about dangers which are obvious to them. To achieve maximum safety, please instruct the patient and/or care team in the use and maintenance of the product.

For a simplified illustration, all basic work steps are shown with the **NEURO FLEX MAX** system knee joint with lock function (fig. 1) as example. They can be transferred to all mentioned system joints.



## 2. Safety Instructions

## 2.1 Classification of the Safety Instructions

A DANGER Important information about a possible dangerous situation which, if not avoided, leads to death or irreversible injuries.
 A WARNING Important information about a possible dangerous situation which, if not avoided, leads to reversible injuries that need medical treatment.
 A CAUTION Important information about a possible dangerous situation which, if not avoided, leads to light injuries that do not need medical treatment.
 NOTICE Important information about a possible situation which, if not avoided, leads to damage of the product.

All serious incidents according to Regulation (EU) 2017/745 which are related to the product have to be reported to the manufacturer and to the competent authority of the Member State in which the qualified specialist in orthopaedic technology and/or the patient is established.

## 2.2 All Instructions for a Safe Handling of the System Knee Joint

# **DANGER**

#### Potential Traffic Accident Due to Limited Driving Ability

Advise the patient to gather information about all safety and security issues before driving a motor vehicle with orthosis. The patient should be able to drive a motor vehicle safely.

## A WARNING

#### Risk of Falling Due to Improper Handling

Inform the patient about the correct use of the system joint and potential dangers, especially with regards to:

- moisture and water;
- excessive mechanical stress (e.g. due to sports, increased activity or weight gain) and
- unintentional unlocking of the system joint through external influences and a (forceful) unlocking under flexion load.

Also inform the patient that the system joint may only be demounted and maintained by a qualified specialist in orthopaedic technology. Any handling of the system joint and the orthosis by the patient that goes beyond the tasks described in the instructions for use for patients is not permitted.

## \Lambda WARNING

#### Risk of Falling Due to Improper Processing

Process the system joint according to the information in these instructions for use. Deviating processing and modifications of the system joint require the written consent of the manufacturer.

## 🛦 WARNING

#### Risk of Falling Due to Loosened Screws

Mount the cover plate to the system joint according to the assembly instructions in these instructions for use. Secure the screws with the specified torque and the corresponding adhesive and make sure that no sliding washers are damaged in the process.

## 🔺 WARNING

#### Risk of Falling Due to Incorrectly Selected System Components

Make sure that the system joint and the system components are not overloaded and are functionally adapted to the requirements and needs of the patient in order to avoid joint dysfunction.

## WARNING

#### Risk of Falling Due to Permanent Higher Load

If patient data has changed (e.g. due to weight gain, growth or increased activity), recalculate the expected load on the system joint, plan the treatment again and, if necessary, produce a new orthosis.

## WARNING

#### Risk of Falling Due to Improper Shoe/Wrong Shoe Pitch

Advise the patient to wear a shoe to which the orthosis is adjusted in order to avoid joint dysfunction.

## A WARNING

Risk of Falling Due to Greased Locking Parts

Grease the system joint only slightly. Make sure that no grease enters between locking pawl and stop disc.

## A WARNING

#### Risk of Falling Due to Play in the System Joint

In order to achieve a lock function that is free of play, mount the locking parts as described in these instructions for use. In particular, check whether:

- the locking pawl locks properly and

- the degrees of extension stop and stop disc match.

Exchange the locking parts, if necessary.

## WARNING

Risk of Falling Due to Insufficient Rigidity of the Orthosis

Ensure sufficient rigidity of the orthosis shells during the production of the orthosis in order to prevent it from bending or distorting over time and thus impairing the lock function.

## A WARNING

Risk of Falling Due to Incorrectly Adjusted Step Lock Function

For a properly working step lock function, use:

- the 5° step lock stop disc with the 5°, 15° or 25° extension stop,
- the 0° step lock stop disc without extension stop or with the corresponding 10°, 20° or 30° extension stop.

# WARNING

Damage to the Anatomical Joint Due to Incorrect Position of the Joint's Mechanical Pivot Point Determine the joint's mechanical pivot points correctly in order to avoid a permanent incorrect load on the anatomical joint. Please refer to the online tutorials on the FIOR & GENTZ website or contact Technical Support.

## A WARNING

Breakage of the System Joint Due to Lack of System Anchor Use a system anchor when producing the orthosis in order to ensure a secure integration of the system joint into the laminate. The system joint may break if it is integrated without a system anchor.

# WARNING

Jeopardising the Therapy Goal by Not Providing the Necessary Free Movement Check if the system joint moves freely in order to avoid restrictions of the joint function. Use suitable sliding washers according to the information in these instructions for use.

# NOTICE

Failure of the Lock Function Due to Incorrectly Mounted Lever Extension Adhere the lever extension to the locking pawl as described in these instructions for use.

# NOTICE

#### Damage to the System Joint Due to Incorrect Filing

When filing the flexion stop, proceed carefully in order to avoid predetermined breaking points (burrs, edges). Pay attention to the markings.

## NOTICE

#### Limitation of the Joint Function Due to Improper Processing

Errors in processing can impair the joint function. Pay particular attention to:

- connect the system side bar/system anchor with the system case in accordance with the production technique and
- adhere to the maintenance intervals.

## NOTICE

#### Limitation of the Joint Function Due to Improper Dirt Removal Inform the patient on how to properly remove dirt from the orthosis and the system joint.

## NOTICE

#### Limitation of the Joint Function Due to Lack of Maintenance

Respect the specified maintenance intervals in order to avoid joint dysfunction. Also inform the patient about the maintenance appointments to be respected. Enter the next maintenance appointment in the orthosis service passport of the patient.

### 3. Use

#### 3.1 Intended Use

The FIOR & GENTZ system knee joints are exclusively for use for orthotic fittings of the lower extremity. The system joint is only allowed to be used for producing a KAFO. Every system joint influences the orthosis' function and thus also the function of the leg. The system joint may only be used for one fitting and must not be reused.

#### 3.2 Indication

The indications for the treatment with an orthosis for the lower extremity are insecurities that lead to a pathological gait. This can be caused, for example, by paralyses, structurally conditioned deformities/malfunctions or as a result of physical trauma and/or surgery.

The physical conditions of the patient, such as muscle strength or activity level, are crucial for the orthotic treatment. An evaluation regarding the safe handling of the orthosis by the patient must be carried out.

#### 3.3 Contraindication

The system joint is not suitable for treatments that were not described in paragraph 3.2, such as a treatment of the upper extremity or a treatment with a prosthesis or ortho-prosthesis, for example after amputations of leg segments.

## 3.4 Qualification

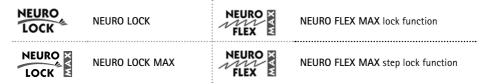
The system joint must only be handled by a qualified specialist in orthopaedic technology.

#### 3.5 Application

All FIOR & GENTZ system joints were developed for everyday life activities such as standing and walking. Extreme impact stress, which occurs for example during long jump, climbing and parachuting, is excluded.

#### 3.6 Product Range

These instructions for use provide information on the following system knee joints:



### 3.7 Combination Possibilities with Other System Joints

The system knee joints can be combined with other system joints from the FIOR & GENTZ product range. The NEURO VARIO system knee joint can be used as supporting joint for the NEURO LOCK MAX, NEURO FLEX MAX with lock function and NEURO FLEX MAX with step lock function.

We recommend that you use the Orthosis Configurator when selecting all system components for your orthosis and follow the recommendations of the configuration result.

## 4. Joint Function

The system knee joints have the following functions depending on the used system components:

| System Component   | Function  | System Joint  |
|--|---|---|
| locating pin   | permanent unlocking of the system<br>knee joint   | NEURO LOCK MAX<br>NEURO FLEX MAX lock function<br>NEURO FLEX MAX step lock function               |
| System Component   | Function  | System Joint  |
| extension stop   | limitation of the maximum extension<br>in different degrees (0°, 5°, 10°, 15°,<br>20°, 25°, 30°). For NEURO LOCK,<br>the degrees 15° and 25° are not<br>applicable. | NEURO LOCK<br>NEURO LOCK MAX<br>NEURO FLEX MAX lock function<br>NEURO FLEX MAX step lock function |
| System Component   | Function  | System Joint  |
| flexion stop<br>(adjustable by filing the<br>joint's lower part) | locking in different flexion positions<br>(5° premounted)   | NEURO LOCK<br>NEURO LOCK MAX  |

| • • • • • • • • • • • • • • • • • • | <br> | • • • • • • • • • • • • • • • • • • |
|-------------------------------------|------|-------------------------------------|

| System Component   | Function  | System Joint  |
|--|---|---|
| flexion stop<br>(exchangeable flexion<br>stop disc)            | locking in different flexion posi-<br>tions (5°, 10°, 15°, 20°, 25° or 30°<br>premounted) | NEURO FLEX MAX lock function                                      |
| System Component   | Function  | System Joint  |
| step lock parts<br>(step lock pawl and step<br>lock stop disc) | gradual locking in 10° steps  | NEURO FLEX MAX step lock function                                 |
| System Component   | Function  | System Joint  |
| flexion stop disc AF<br>(alternative function)                 | limitation of the maximum knee<br>flexion angle   | NEURO FLEX MAX lock function<br>NEURO FLEX MAX step lock function |

## 5. Scope of Delivery

| Description  | Quantity |
|--|----------|
| system knee joint (without figure)                     | 1        |
| pan head screw for exchanging extension stops (fig. 2) | 1        |
| orthosis joint grease, 3g (without figure)             | 1        |
| assembly/lamination dummy (fig. 3)                     | 1        |
| lever extension (without figure)                       | 1        |
| connecting tube for lever extension (without figure)   | 1        |

## 6. Load

The actual load on the system joints is based on the relevant patient data. The load and the appropriate system components can be determined by using the Orthosis Configurator. We recommend that you use the system components determined by the Orthosis Configurator when producing an orthosis and mind the recommended production technique. You will find information on the production techniques in the section "Online Tutorials" on the FIOR & GENTZ website.



## 7. Tools for Assembling the System Joint

| Table for Sustain Isint Summe    | System Width |      |      |      |
|----------------------------------|--------------|------|------|------|
| Tools for System Joint Screws    | 12mm         | 14mm | 16mm | 20mm |
| T15 hexalobular screwdriver/bit  | х            | х    | х    | -    |
| T20 hexalobular screwdriver/bit  | -            | х    | х    | х    |
| torque screwdriver, 1–6Nm        | х            | х    | х    | х    |
| slotted screwdriver, 2 x 0.4mm   | х            | х    | х    | х    |
| slotted screwdriver, 2.5 x 0.4mm | х            | х    | х    | х    |

| Tools for Syste | m loint Screws                |      | System | Width |      |
|-----------------|-------------------------------|------|--------|-------|------|
| TOOIS TOT SYSTE | Tools for System Joint Screws | 12mm | 14mm   | 16mm  | 20mm |

| sioteed scientariteij olo x olonini         | ~            | ~    | ~    | ~    |
|---|--------------|------|------|------|
| Tools for Pan Head Screw for Exchanging the | System Width |      |      |      |
| Extension Stops                             | 12mm         | 14mm | 16mm | 20mm |
| T8 hexalobular screwdriver                  | х            | х    | -    | -    |
| T10 hexalobular screwdriver                 | -            | -    | х    | х    |

х

¥

x

#### Assembly Instructions 8.

slotted screwdriver. 3.5 x 0.6mm

The system joint is delivered fully assembled. All functions are checked beforehand. You have to disassemble the system joint for mounting it in the orthosis and for maintenance. To ensure an optimal functioning, follow the assembly instructions below. Secure all screws with the torque specified in paragraph 8.6.

You can find more information on the assembly in the online tutorial Joint Assembly NEURO FLEX MAX, NEURO LOCK, NEURO LOCK MAX (see QR code, fig. 4) on the FIOR & GENTZ website.

In the following, the assembly is illustrated with the NEURO FLEX MAX system knee joint with lock function as an example.

The locking pawls/step lock pawls are assigned to specific system joints. You will find the article number of the premounted locking pawl/step lock pawl on the back page of these instructions for use.

Only use the FIOR & GENTZ orthosis joint grease to grease the system components.

#### 8.1 Mounting the Extension Stop

In order to demount and mount the extension stop, proceed as follows:

- 1 Screw the pan head screw through the threaded hole in the back of the joint's upper part (fig. 6).
- 2 Press out the extension stop.
- 3 Remove the pan head screw.
- 4 Put the new extension stop into the joint's upper part.
- Press the extension stop into the joint's upper part by using a vice with braces. 5

If you would like to mount a different extension stop than the premounted 5° stop (fig. 5), note the information in paragraph 10.2.









х



fia. 4

#### 8.2 Mounting the Coil Spring and the Locking Pawl/ Step Lock Pawl

- 1 Before the assembly, clean the threads of the bearing nut and of the joint's upper part as well as the bores of the cover plate with LOCTITE® 7063 Super Clean. Allow the threads to air-dry for 10 minutes.
- 2 Do not demount the pressure screw (fig. 7).
- 3 Insert the coil spring from below into the spring duct of the joint's upper part (fig. 8).
- 4 Grease the axle bore of the locking pawl/step lock pawl and the sliding surfaces of the pawl's bearing nut with orthosis joint grease.
- 5 Put the bearing nut for the locking pawl/step lock pawl into the intended opening of the joint's upper part (fig. 9).
- 6 Mount the locking pawl/step lock pawl (fig. 10).

i

You will find further information about the replacement of the locking pawl/step lock pawl in paragraph 14.3.

- 7 Place the ball and push the locking pawl/step lock pawl upwards (fig. 11).
- 8 For system joints with permanent unlock function, insert the coil spring and the locating pin into the locking pawl/step lock pawl (fig. 12).

You can find more information on the assembly in the online tutorial Joint Assembly NEURO FLEX MAX Step Lock Function (see QR code, fig. 13) on the FIOR & GENTZ website.

#### Mounting the Cover Plate 8.3

Make sure not to damage the sliding washer during assembly. Jammed sliding washer particles can cause lateral play in the system joint.

- 1 Apply spray adhesive on one side of the first sliding washer and adhere it to the cover plate (fig. 14).
- 2 Grease the other side slightly with orthosis joint grease.
- 3 For system joints with flexion stop disc/step lock stop disc: press it to the joint's lower part (fig. 15).
- 4 Grease the axle bore of the joint axis and the sliding surfaces of the bearing nut of the joint axis with orthosis joint grease.

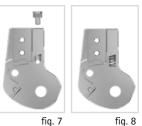
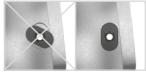


fig. 8





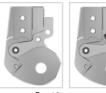




fig. 10

fig. 11









fig. 14



fig. 15

- 5 Put the bearing nut of the joint axis into the opening of the joint's upper part (fig. 16).
- 6 Grease the second sliding washer slightly on both sides with orthosis joint grease.
- 7 Place the sliding washer onto the joint's upper part (fig. 17).
- 8 Mount the joint's lower part (fig. 18). For a simplified mounting to the NEURO LOCK system knee joint, make sure that the system joint is flexed.
- 9 Place the cover plate on the system joint.

Some **NEURO LOCK** cover plates do not have a hollow for the sliding washer due to manufacturing reasons. Position the second sliding washer in such a way that the bore for the bearing nut is not covered.

10 Screw in the first countersunk flat head screw (axle screw, S1; fig. 19).11 Screw in the second countersunk flat head screw (S2; fig. 20).

## 8.4 Checking the System Joint's Free Movement

Tighten the screws for the cover plate with the appropriate torque (see paragraph 8.6). Check if the system joint moves freely. If the system joint runs with lateral play, mount the next thicker sliding washer. If it does not move freely (it is jammed), mount the next thinner sliding washer.

## 8.5 Checking the Lock Function

- 1 Lock the system joint in maximum extension.
- 2 Press the locking pawl downwards firmly. The extension stop is thus pressed against the stop faces.
- 3 Unlock the system joint again and have the locking pawl snap as usual. You should hear a distinct "click" when the system joint locks.
- 4 Check the correct position of the locking pawl. It must not be mounted too high (fig. 21) or too low (fig. 22).

If the locking pawl is in the correct position (fig. 23), the system joint locks without play. If the locking pawl is mounted too low, the system joint locks with play. In this case, mount the next longer locking pawl with the same system width and check the fit. If the locking pawl is mounted too high, the system joint might unlock unintentionally. In this case, mount the next shorter locking pawl with the same system width and check the fit.



fig. 16





fig. 17



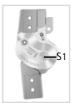




fig. 19

fig. 20





fig. 21

fig. 22



fig. 23



## 8.6 Securing the Screws

The screws are secured after the orthosis has been produced and tried on and before it is handed over to the patient.

- 1 Loosen the screws for the cover plate (fig. 20) after checking the system joint's free movement and remove them from the cover plate.
- 2 Apply a small drop of LOCTITE® 243 medium strength to the thread of the screws.
- 3 Secure the screws for the cover plate (fig. 20) with the torque corresponding to the system width.
- 4 Let the adhesive harden (final strength after approx. 24 hours).

|                                   | System Width |      |      |
|-----------------------------------|--------------|------|------|
| Screws for NEURO LOCK Cover Plate | 14mm         | 16mm | 20mm |
| S1 (screw 1, axle screw)          | 3Nm          | 4Nm  | 4Nm  |
| S2 (screw 2)                      | 3Nm          | 3Nm  | 3Nm  |

| Screws for NEURO LOCK MAX/ | System Width |      |      |      |
|----------------------------|--------------|------|------|------|
| NEURO FLEX MAX Cover Plate | 12mm         | 14mm | 16mm | 20mm |
| S1 (screw 1, axle screw)   | 3Nm          | 4Nm  | 4Nm  | 4Nm  |
| S2 (screw 2)               | 3Nm          | 3Nm  | 3Nm  | 4Nm  |

(j)

The screws for the cover plate are not secured with the necessary torque at delivery. You can also find information on the torque in the openings of the cover plate.

## 9. Mounting the Lever Extension

The lever extension is used for an easy unlocking of the system knee joint. Please note that the **NEURO LOCK** system joint can only be mounted bilaterally.

#### **Unilateral Construction**

- 1 Adapt the lever extension to the shape of the orthosis and shorten it, if necessary.
- 2 Apply LOCTITE<sup>®</sup> 638 high strength to the shoulder of the lever extension and connect it with the locking pawl (fig. 24).

#### **Bilateral Construction**

- 1 Adapt the lever extensions to the shape of the orthosis.
- 2 Connect the lever extensions at a distance of approx. 1mm by means of the connecting tube for lever extension (fig. 25).
- 3 Apply LOCTITE® 638 high strength to the shoulders of the lever extensions and connect them with the locking pawls (fig. 24).

The adhesion is sturdy after approx. 1 hour. It has completely hardened after approx. 24 hours (at room temperature).



fig. 24



fig. 25

## 10. Adjustment Options on the Orthosis

#### 10.1 Locating Pin

System joints with locating pin (fig. 27/A) can be used as free moving joints with an integrated posterior offset by means of the permanent unlock function (fig. 26).

| System Width                          | 12mm | 14mm | 16mm | 20mm |
|---------------------------------------|------|------|------|------|
| Posterior Offset<br>of the Joint Axis | 12mm | 14mm | 16mm | 20mm |

The lock function can be disabled permanently by means of the locating pin.

- 1 Press the locking pawl against the joint's upper part.
- 2 Hold the locking pawl in this position.
- 3 In order to obtain a free moving system joint, push the locating pin into the locking pawl until it snaps into the joint's upper part.

In order to disable the permanent unlock function, the patient must extend their knee and the locking pawl must be pressed against the joint's upper part again. By doing so, the locating pin is automatically pushed out.

## 10.2 Extension Stop and Flexion Stop for the NEURO FLEX MAX Lock Function

The extension stop (fig. 27/B) is exchangeable. It can be mounted into the system joint depending on the desired extension.

The extension stop and the flexion stop must always match each other. After replacing the extension stop (fig. 28), the flexion stop disc must be inserted according to the chosen degree.

When mounting the extension stop, mind the correct alignment of the entire orthosis. In order for an exchanged extension stop not to affect the orthosis alignment negatively, also correct the system ankle joint, if necessary. You can find more information on the orthosis alignment in the online tutorial KAFO Alignment Guidelines (see QR code, fig. 29) on the FIOR & GENTZ website.



fig. 27

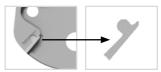
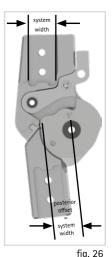






fig. 29



| <br> |  |
|------|--|

| Current<br>Extension  | Desired<br>Extension | Required<br>Extension Stop | Required<br>Flexion Stop Disc | Work Steps  |
|---|----------------------|----------------------------|-------------------------------|---|
| 5°, 10°, 15°, 20°,<br>25° or 30°  | 0°                   | none                       | 0° flexion stop disc          | - removing the<br>extension stop  |
| 0°, 10°, 15°, 20°,<br>25° or 30°  | 5°                   | 5° extension stop          | 5° flexion stop disc          | - replacing the<br>flexion stop disc  |
| 0°, 5°, 15°, 20°,<br>25° or 30°   | 10°                  | 10° extension stop         | 10° flexion stop disc         |   |
| 0°, 5°, 10°, 20°,<br>25° or 30°   | 15°                  | 15° extension stop         | 15° flexion stop disc         |   |
| 0°, 5°, 10°, 15°,<br>25° or 30°   | 20°                  | 20° extension stop         | 20° flexion stop disc         | <ul> <li>replacing the<br/>extension stop</li> <li>replacing the</li> </ul> |
| 0°, 5°, 10°, 15°,<br>20° or 30°   | 25°                  | 25° extension stop         | 25° flexion stop disc         | flexion stop disc   |
| 0°, 5°, 10°, 15°,<br>20° or 25°   | 30°                  | 30° extension stop         | 30° flexion stop disc         |   |
| Note: always check the lock function afterwards (see paragraph 8.5) and, if necessary, replace the locking pawl. Finally, check the orthosis alignment and, if necessary, adjust the angle between the lower leg and the floor. |                      |                            |                               |   |

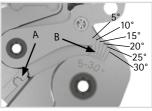
## NEURO FLEX MAX Lock Function (Fig. 27)

# 10.3 Extension Stop and Flexion Stop for the NEURO LOCK MAX and NEURO LOCK

The flexion angle can be adjusted as required by exchanging the extension stop and filing the joint's lower part. The extension stop can be exchanged depending on the desired extension.

The extension stop and the flexion stop must always match each other. After replacing the extension stop (NEURO LOCK MAX, fig. 30/A; NEURO LOCK, fig. 31/A), the joint's lower part must be filed according to the chosen degree. For filing, you will find auxiliary lines on the flexion stop (fig. 30/B and fig. 31/B). You can find further information in the following table.

If you wish to use the system joint with a smaller flexion than the one you have already filed, you must mount a new joint's lower part.





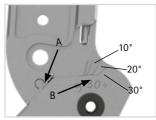


fig. 31

| Current<br>Extension             | Desired<br>Extension | Required<br>Extension Stop | Required<br>Joint's Lower Part         | Work Steps  |
|----------------------------------|----------------------|----------------------------|--|---|
| 5°, 10°, 15°,<br>20°, 25° or 30° | 0°                   | none                       | 0° joint's lower part                  | <ul> <li>removing the extension stop</li> <li>replacing the joint's lower<br/>part</li> <li>checking the lock function<br/>(replacing locking pawl, if<br/>necessary)</li> <li>checking the orthosis align-<br/>ment (increasing the angle<br/>between the lower leg and<br/>the floor, if necessary)</li> </ul>  |
| 0°                               | 5°                   | 5° extension stop          | 5° joint's lower<br>part, if necessary | <ul> <li>replacing the extension stop</li> <li>adjusting the flexion stop by<br/>filing the joint's lower part<br/>(mounting 5° joint's lower<br/>part, if necessary)</li> <li>checking the lock function<br/>(replacing the locking pawl,<br/>if necessary)</li> <li>checking the orthosis alignment (adapting the angle<br/>between the lower leg and<br/>the floor, if necessary)</li> </ul> |

#### NEURO LOCK MAX (Fig. 30)

i

| • • • • • • • • • • • • • • • • • | <br> |  |
|-----------------------------------|------|--|

| Current<br>Extension            | Desired<br>Extension                | Required<br>Extension Stop                      | Required<br>Joint's Lower Part | Work Steps   |  |
|---------------------------------|-------------------------------------|---|--------------------------------|--|--|
| 0° or 5°                        | 10°                                 | 10° extension stop                              | none                           |  |  |
| 0°, 5° or 10°                   | 15°                                 | 15° extension stop                              | none                           | <ul> <li>replacing the extension stop</li> <li>adjusting the flexion stop by<br/>filing the joint's lower part</li> <li>checking the lock function<br/>(replacing the locking pawl,<br/>if necessary)</li> <li>checking the orthosis</li> </ul>  |  |
| 0°, 5°, 10° or<br>15°           | 20°                                 | 20° extension stop                              | none                           | alignment (adapting the<br>angle between the lower leg<br>and the floor, if necessary)   |  |
| 0°, 5°, 10°, 15°<br>or 20°      | 25°                                 | 25° extension stop                              | none                           |  |  |
| 0°, 5°, 10°, 15°,<br>20° or 25° | 30°                                 | 30° extension stop                              | none                           |  |  |
| 10°, 15°, 20°,<br>25° or 30°    | 5°, 10°,<br>15°, 20°,<br>25° or 30° | 5°, 10°, 15°, 20°, 25°<br>or 30° extension stop | 5° joint's lower part          | <ul> <li>replacing the extension stop</li> <li>replacing the joint's lower<br/>part</li> <li>adjusting the flexion stop by<br/>filing the joint's lower part,<br/>if necessary</li> <li>checking the lock function<br/>(replacing the locking pawl,<br/>if necessary)</li> <li>checking the orthosis<br/>alignment (adapting the<br/>angle between the lower leg<br/>and the floor, if necessary)</li> </ul> |  |

floor.

## NEURO LOCK (Fig. 31)

| Current<br>Extension   | Desired<br>Extension   | Required<br>Extension Stop            | Required<br>Joint's Lower Part         | Work Steps  |  |
|------------------------|------------------------|---------------------------------------|--|---|--|
| 5°, 10°, 20°<br>or 30° | 0°                     | none                                  | 0° joint's lower part                  | <ul> <li>removing the<br/>extension stop</li> <li>replacing the joint's<br/>lower part</li> </ul>   |  |
| 0°                     | 5°                     | 5° extension stop                     | 5° joint's lower part, if<br>necessary | <ul> <li>replacing the extension<br/>stop</li> <li>adjusting the<br/>flexion stop by filing<br/>the joint's lower part<br/>(mounting 5° joint's<br/>lower part, if necessary)</li> </ul>      |  |
| 0° or 5°               | 10°                    | 10° extension stop                    | none                                   | - replacing the extension   |  |
| 0°, 5° or 10°          | 20°                    | 20° extension stop                    | none                                   | stop<br>- adjusting the   |  |
| 0°, 5°, 10° or<br>20°  | 30°                    | 30° extension stop                    | none                                   | flexion stop by filing the joint's lower part   |  |
| 10°, 20° or 30°        | 5°, 10°, 20°<br>or 30° | 5°, 10°, 20° or 30°<br>extension stop | 5° joint's lower part                  | <ul> <li>replacing the extension<br/>stop</li> <li>replacing the joint's<br/>lower part</li> <li>adjusting the flexion<br/>stop by filing the joint's<br/>lower part, if necessary</li> </ul> |  |
| Note: always ch        | eck the lock fur       | nction afterwards (see pa             | ragraph 8.5) and, if necess            | ary, replace the locking  |  |

Note: always check the lock function afterwards (see paragraph 8.5) and, if necessary, replace the locking pawl. Finally, check the orthosis alignment and, if necessary, adjust the angle between the lower leg and the floor.

## 10.4 NEURO FLEX MAX Step Lock Function

The **NEURO FLEX MAX** system knee joint with step lock function locks gradually during extension. The toothings of the step lock stop disc and the step lock pawl enable the gradual locking of the system joint in 10° steps up to a maximum of 55° (fig. 32). A 5° extension stop and a 5° step lock stop disc are premounted.

The extension stop can be exchanged depending on the desired extension. You can find further information in the following table.

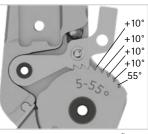


fig. 32

The 5°, 15° and 25° extension stops require the 5°–55° step lock stop disc. The 10°, 20° and 30° extension stops require the 0°–60° step lock stop disc.

#### NEURO FLEX MAX Step Lock Function (Fig. 32)

| Current<br>Extension   | Desired<br>Extension   | Required<br>Extension Stop        | Required<br>Step Lock Stop Disc | Work Steps  |  |
|------------------------|------------------------|-----------------------------------|---------------------------------|---|--|
| 5°, 15° or<br>25°      | 0°                     | none                              | 0°–60° step lock stop<br>disc   | <ul> <li>removing the<br/>extension stop</li> <li>replacing the<br/>step lock stop disc</li> </ul>  |  |
| 10°, 20° or<br>30°     | 0°                     | none                              | none                            | - removing the extension stop   |  |
| 5°, 15° or<br>25°      | 5°, 15° or<br>25°      | 5°, 15° or 25°<br>extension stop  | none                            |   |  |
| 0°, 10°, 20°<br>or 30° | 5°, 15° or<br>25°      | 5°, 15° or 25°<br>extension stop  | 5°–55° step lock stop<br>disc   | <ul> <li>replacing the<br/>extension stop</li> <li>replacing the<br/>step lock stop disc</li> </ul> |  |
| 5°, 15° or<br>25°      | 0°, 10°, 20°<br>or 30° | 10°, 20° or 30°<br>extension stop | 0°-60° step lock stop<br>disc   |   |  |
| 0°, 20° or<br>30°      | 0°, 10°, 20°<br>or 30° | 10°, 20° or 30°<br>extension stop | none                            | - replacing the extension stop  |  |

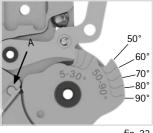
Note: always check the step lock function afterwards and, if necessary, replace the step lock pawl. Finally, check the orthosis alignment and, if necessary, adjust the angle between the lower leg and the floor.

#### 10.5 Alternative Function for the NEURO FLEX MAX Lock Function/Step Lock Function: Limitation of the Maximum Knee Flexion Angle

With the flexion stop disc AF you can limit the maximum knee flexion angle when the system joint is unlocked.

1 NEURO FLEX MAX Lock Function: exchange the premounted flexion stop disc and cover plate for the flexion stop disc AF and cover plate AF.

NEURO FLEX MAX Step Lock Function: exchange the premounted step lock pawl, step lock stop disc and cover plate for the locking pawl, flexion stop disc AF and cover plate AF.





2 Set the desired maximum knee flexion angle of 60°, 70°, 80° or 90° by filing. To do so, use the auxiliary lines on the flexion stop disc AF (fig. 33).

The extension stop can be exchanged depending on the desired extension. The extension stop and the flexion stop must always match each other. After replacing the extension stop (fig. 33/A), the flexion stop disc must be filed according to the chosen degree. For filing, you will find auxiliary lines on the flexion stop (fig. 33). You can find further information in the following table.

#### NEURO FLEX MAX Alternative Function (Fig. 33)

| Current<br>Extension                | Desired<br>Extension | Required<br>Extension Stop | Required<br>Flexion Stop Disc<br>Alternative Function | Work Steps  |
|-------------------------------------|----------------------|----------------------------|---|---|
| 5°, 10°, 15°,<br>20°, 25° or<br>30° | 0°                   | none                       | 0° flexion stop disc                                  | <ul> <li>removing the extension stop</li> <li>replacing the flexion stop disc</li> <li>checking the lock function<br/>(replacing the locking pawl, if<br/>necessary)</li> <li>checking the orthosis alignment (increasing the angle<br/>between the lower leg and<br/>the floor, if necessary)</li> </ul>   |
| 0°                                  | 5°                   | 5° extension stop          | 5° joint's flexion stop<br>disc, if necessary         | <ul> <li>replacing the extension stop</li> <li>adjusting the flexion stop by<br/>filing the flexion stop disc<br/>(mounting 5° flexion stop<br/>disc, if necessary)</li> <li>checking the lock function<br/>(replacing the locking pawl, if<br/>necessary)</li> <li>checking the orthosis align-<br/>ment (adapting the angle<br/>between the lower leg and<br/>the floor, if necessary)</li> </ul> |

| Current<br>Extension               | Desired<br>Extension                | Required<br>Extension Stop                         | Required<br>Flexion Stop Disc<br>Alternative Function | Work Steps   |  |
|------------------------------------|-------------------------------------|--|---|--|--|
| 0° or 5°                           | 10°                                 | 10° extension stop                                 | none  | - replacing the extension stop   |  |
| 0°, 5° or 10°                      | 15°                                 | 15° extension stop                                 | none  | - adjusting the flexion stop by filing the flexion stop disc   |  |
| 0°, 5°, 10°<br>or 15°              | 20°                                 | 20° extension stop                                 | none  | <ul> <li>checking the lock function<br/>(replacing the locking pawl,</li> </ul>  |  |
| 0°, 5°, 10°,<br>15° or 20°         | 25°                                 | 25° extension stop                                 | none  | necessary)<br>- checking the orthosis align-<br>ment (adapting the angle   |  |
| 0°, 5°, 10°,<br>15°, 20° or<br>25° | 30°                                 | 30° extension stop                                 | none  | between the lower leg and<br>the floor, if necessary)  |  |
| 10°, 15°,<br>20°, 25° or<br>30°    | 5°, 10°, 15°,<br>20°, 25° or<br>30° | 5°, 10°, 15°, 20°,<br>25° or 30°<br>extension stop | 5° flexion stop disc                                  | <ul> <li>replacing the extension stop</li> <li>replacing the flexion stop disc</li> <li>adjusting the flexion stop by<br/>filing the flexion stop disc,<br/>if necessary</li> <li>checking the lock function<br/>(replacing the locking pawl,<br/>if necessary)</li> <li>checking the orthosis align-<br/>ment (adapting the angle<br/>between the lower leg and<br/>the floor, if necessary)</li> </ul> |  |

Note: always check the lock function afterwards (see paragraph 8.5) and, if necessary, replace the locking pawl. Finally, check the orthosis alignment and, if necessary, adjust the angle between the lower leg and the floor. The flexion limitation is filed independently from the degree of extension.

You can find more information on the alternative function in the online tutorial Joint Assembly NEURO FLEX MAX Alternative Function (see QR code, fig. 34) on the FIOR & GENTZ website.

#### 10.6 Alternative Function for the NEURO LOCK: Free Moving, Monocentric System Joint with Integrated Posterior Offset

If the lock function is no longer needed, the NEURO LOCK can be used as a free moving system knee joint with integrated posterior offset (fig. 36).

| System Width                       | 14mm | 16mm | 20mm |
|------------------------------------|------|------|------|
| Posterior Offset of the Joint Axis | 14mm | 16mm | 20mm |

For converting the system joint, remove the locking pawl, the coil spring and the ball (fig. 35).

The bearing nut of the locking pawl must remain in the system joint in order to secure the cover plate with the countersunk flat head screw.

fig. 35

#### 11. Connecting to the System Side Bar/System Anchor

The system side bar/system anchor must be connected to the system joint by adhering and screwing or screwing and wrapping in accordance with the production technique provided in the planning (fig. 37-39).

You can find more information in the Instructions for Use for Qualified Specialists in Orthopaedic Technology System Side Bars and System Anchors (see QR code, fig. 40). You will find information on the production techniques in the section "Online Tutorials" on the FIOR & GENTZ website.





fig. 37

fiq. 38



posterior offset system width

fig. 36



fig. 40



system width

fig. 34

22

## 12. Converting the System Knee Joints

#### 12.1 Conversion Options

The following table shows the conversion options for the system knee joints.

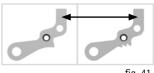
| System Knee Joint                 | Convertible into                  |
|-----------------------------------|-----------------------------------|
| NEURO FLEX MAX lock function      | NEURO FLEX MAX step lock function |
| NEURO FLEX MAX step lock function | NEURO FLEX MAX lock function      |

#### 12.2 Conversion

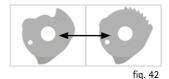
- 1 Exchange the locking pawl for the step lock pawl (fig. 41).
- 2 Exchange the flexion stop disc for the step lock stop disc (fig. 42).
- 3 Assemble the system joint (see paragraph 8).

In order to convert the NEURO FLEX MAX system knee joint with step lock function into the NEURO FLEX MAX system knee joint with lock function, exchange the step lock parts for the locking parts. Proceed as described in the steps 1 to 3.

Check if the locking pawl/step lock pawl fits correctly (see paragraph 8.5). After inserting the step lock pawl and the step lock stop disc, check if the step lock pawl snaps correctly.







# 13. Advice on Optimal Orthosis Functionality

| Problem   | Cause  | Measure  |
|---|--|--|
|   | The locking and unlocking parts are still loaded.  | The patient has to take the body<br>weight off of the orthosis (e.g. by<br>sitting down on a chair).   |
| The system joints do not unlock.                                  | The patient does not apply a mini-<br>mal extension moment.  | The patient has to take the body<br>weight off of the orthosis (e.g. by<br>sitting down on a chair) and has to<br>apply an extension moment themself<br>or with the assistance of another<br>person (e.g. by pushing the knee<br>backwards). |
|   | The orthosis is not torsion-resist-<br>ant (bilateral construction). Only<br>one system joint locks.                       | The system joints must be locked<br>with passive force. The patient or<br>another person must push the knee<br>backwards.  |
| The system joints do not lock correctly.                          | One system joint is/both system<br>joints are still in permanent unlock<br>function.                                       | The locking pawl must be pressed<br>against the joint's upper part until<br>the locating pin is pushed out of its<br>bore in the joint's upper part. The<br>patient must fully extend their knee<br>until the system joint locks.            |
|   |  | Retry unlocking and locking the system joint.  |
| The system joints do not lock<br>correctly in step lock function. | The step lock pawls lock in differ-<br>ent flexion positions.  | Please note that a 5° extension<br>stop and a 5° step lock stop disc are<br>mounted for the premounted step<br>lock function. Use a 0° step lock stop<br>disc for other extension stops.   |
|   | Extension stops with different<br>extension degrees (e.g. medial<br>10° and lateral 20°) have been<br>mounted.             | Only mount extension stops with the same degree of extension.  |
|   | The orthosis is not properly<br>produced (e.g. not torsion-resist-<br>ant, no parallel alignment of the<br>system joints). | Correct the alignment of the orthosis.   |

## 14. Maintenance

Check the system joint regularly for wear and functionality. In particular, check the joint components listed in the following table for the possible problems described and, if necessary, take the appropriate measures. Also check the functionality after every maintenance carried out. It must be possible to move the system joint without problems or unusual noises. Make sure that there is no lateral play.

| Joint<br>Component   | Potential<br>Problem | Measure   | Recommended<br>Inspection,<br>Potential<br>Replacement* | Latest<br>Replacement |
|--|----------------------|---|---|-----------------------|
| sliding washer   | wear                 | replacing sliding washer,<br>see paragraph 14.2                         | every 6 months  | every 18 months       |
| sliding bushing  | wear                 | replacing sliding bushing   | every 6 months  | every 18 months       |
| coil spring  | wear                 | replacing coil spring   | every 6 months  | every 18 months       |
| step lock pawl<br>and step lock<br>stop disc                 | wear of the detents  | replacing step lock pawl and step<br>lock stop disc, see paragraph 14.3 | every 6 months  | every 18 months       |
| cover plate  | wear                 | replacing cover plate   | every 6 months  | every 36 months       |
| countersunk<br>flat head screw<br>with hexalobular<br>socket | wear                 | replacing countersunk<br>flat head screw                                | every 6 months  | every 36 months       |
| bearing nut  | wear                 | replacing bearing nut   | every 6 months  | every 36 months       |
| locking pawl   | wear                 | replacing locking pawl,<br>see paragraph 14.3                           | every 6 months  | every 36 months       |
| pulling cable  | wear                 | replacing pulling cable   | every 6 months  | every 36 months       |
| extension stop   | wear                 | replacing extension stop,<br>see paragraph 8.1                          | every 6 months  | if required           |

\* depending on the assessment of the distributor of the custom-made product regarding the patient's usage behaviour

Clean the threads of the bearing nuts and of the joint's upper part as well as the bores of the cover plate with LOCTITE® 7063 Super Clean at every maintenance. Allow the threads to air-dry for 10 minutes.

Secure the screws for the cover plate with the appropriate torque and LOCTITE® 243 medium strength, during every maintenance (see paragraph 8.6). Remove all adhesive residues first.

Further Information on the pulling cables can be found in the Instructions for Use for Qualified Specialists in Orthopaedic Technology Pulling Cables.

You can find the individual maintenance plans for system joints in the download area (see QR code, fig. 43) on the FIOR & GENTZ website.



fig. 43

The step lock pawl and step lock stop disc are subject to faster wear. This may result in shorter maintenance intervals.

#### 14.1 Documentation of Maintenance in the Orthosis Service Passport

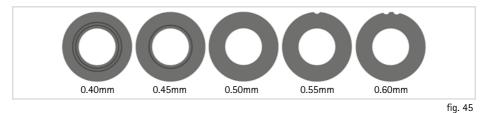
The patient receives an orthosis service passport (fig. 44) from a qualified specialist in orthopaedic technology when the orthosis is handed over. The orthosis must be checked regularly according to the specifications in the maintenance plan in order to maintain its function and to ensure the safety of the patient. The maintenance appointments are noted and confirmed in the orthosis service passport.



fig. 44

### 14.2 Replacing the Sliding Washers

Sliding washers are available in different thicknesses (e.g. GS2210-040 is 0.40mm thick). Each thickness has a different marking (fig. 45). You will find the article numbers of the premounted sliding washers on the back page of these instructions for use.



### 14.3 Replacing the Locking Pawl and the Step Lock Pawl

If the locking pawl/step lock pawl or the stop disc/joint's lower part wears out, the premounted pawl has to be exchanged for a longer one. You can find the article number of the premounted pawl on the back page of these instructions for use. The length is lasered onto the pawl. The higher the last three digits of the article number are, the longer the pawl is (fig. 46). The step lock pawl and step lock stop disc must always be exchanged together.



fig. 46

#### 14.4 Dirt Removal

Dirt must be removed from the system joint when necessary and during regular maintenance. For this purpose, disassemble the system joint and clean the soiled system components with a dry cloth.

## 15. Period of Use

To guarantee a safe use and complete functionality as well as an unlimited period of use of the system joints, you must adhere to the following conditions:

- Adhere to the specified maintenance intervals without interruption and document each maintenance (see paragraph 14).
- Adhere to the determined maintenance conditions (see paragraph 14).
- Check the wear parts, as required, and exchange them in the defined intervals (see paragraph 14).
- Check the adjustment of the system joint during maintenance and correct it, if necessary (see paragraph 14).
- Check the functionality of the system joint during maintenance (see paragraph 14).
- The maximum load determined during the planning of the custom-made product shall not be exceeded by changes in the patient data (e.g. due to weight gain, growth or increased activity). If the determined maximum load on the system joints is exceeded, the system joint must no longer be used. When planning the custom-made product, expected changes in patient data need to be taken into account.
- The period of use of the system joints ends with the period of use of the custom-made product (orthosis).
- The multiple use of the system joint in another custom-made product is not allowed (see paragraph 21).

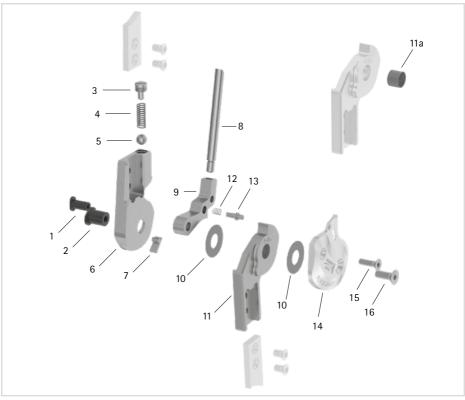
## 16. Storage

It is recommended to store the system joint in its original packaging until the custom-made product is produced.

## 17. Spare Parts

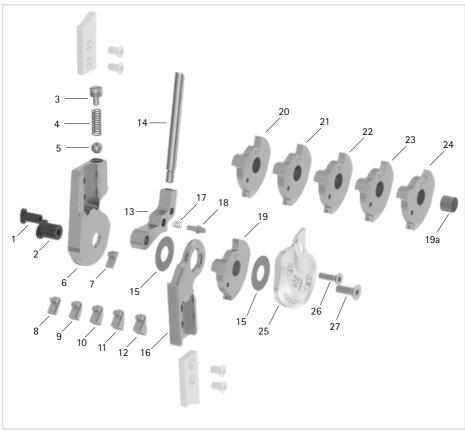
## 17.1 Exploded View Drawing NEURO LOCK MAX

The exploded view drawing of the NEURO LOCK MAX system knee joint also serves as an exemplary illustration for the NEURO LOCK system knee joint.





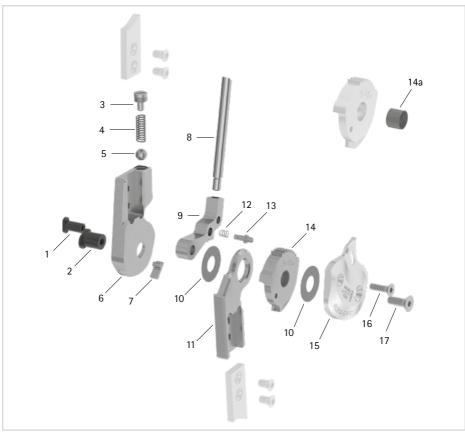
| ••••• | <br>• |
|-------|---|



## 17.2 Exploded View Drawing NEURO FLEX MAX Lock Function



| ••••• | <br>• | •••••• |
|-------|---|--------|



## 17.3 Exploded View Drawing NEURO FLEX MAX Step Lock Function



## 17.4 Spare Parts for the NEURO LOCK System Knee Joint

The assignment of the items as shown in the exploded view drawing of the NEURO LOCK MAX system knee joint serves as guidance. The spare parts of the NEURO LOCK system knee joint are not identical to the picture.

|      | Article Number for System Width |              |              |  |
|------|---------------------------------|--------------|--------------|--|
| Item | 14mm                            | 16mm         | 20mm         | Description  |
| 1    | SB6044-L0610                    | SB6044-L0750 | SB6044-L0820 | bearing nut (locking pawl)   |
| 2    | SB8554-L0610                    | SB9664-L0750 | SB9664-L0820 | bearing nut (joint axis)   |
| 3    | SC2106-L05                      | SC9606-L09   | SC9606-L09   | pressure screw   |
| 4    | FE1414-02                       | FE1414-02    | FE1414-02    | coil spring  |
| 5    | KU1005-ST                       | KU1005-ST    | KU1005-ST    | ball   |
| 6    | SK0402-2L/ST                    | SK0403-2L/ST | SK0405-2L/ST | upper part, left lateral or right medial,<br>straight, steel   |
| 6    | SK0402-2R/ST                    | SK0403-2R/ST | SK0405-2R/ST | upper part, left medial or right lateral,<br>straight, steel   |
| 6    | SK0402-2L/TI                    | SK0403-2L/TI | SK0405-2L/TI | upper part, left lateral or right medial,<br>straight, titanium  |
| 6    | SK0402-2R/TI                    | SK0403-2R/TI | SK0405-2R/TI | upper part, left medial or right lateral,<br>straight, titanium  |
| 7    | SK9602-E005                     | SK9603-E005  | SK9605-E005  | 5° extension stop  |
| 8    | SK0492-ST                       | SK0495-ST    | SK0495-ST    | lever extension  |
| 9    | SK0472-*                        | SK0473-*     | SK0475-*     | locking pawl*  |
| 10   | GS1609-**                       | GS1910-**    | GS2210-**    | sliding washer**   |
| 11   | SK0412-2L/ST                    | SK0413-2L/ST | SK0415-2L/ST | 5° lower part with sliding bushing, 5°–30°,<br>left lateral or right medial, straight, steel                     |
| 11   | SK0412-2R/ST                    | SK0413-2R/ST | SK0415-2R/ST | 5° lower part with sliding bushing, 5°–30°,<br>left medial or right lateral, straight, steel                     |
| 11   | SK0412-2L/TI                    | SK0413-2L/TI | SK0415-2L/TI | 5° lower part with sliding bushing, 5°–30°,<br>left lateral or right medial, straight, titanium                  |
| 11   | SK0412-2R/TI                    | SK0413-2R/TI | SK0415-2R/TI | 5° lower part with sliding bushing, 5°–30°,<br>left medial or right lateral, straight, titanium                  |
| 11   | SK0432-2L/ST                    | SK0433-2L/ST | SK0435-2L/ST | $5^\circ$ lower part with sliding bushing, $5^\circ30^\circ$ , left lateral or right medial, bent inwards, steel |
| 11   | SK0432-2R/ST                    | SK0433-2R/ST | SK0435-2R/ST | 5° lower part with sliding bushing, 5°–30°,<br>left medial or right lateral, bent inwards, steel                 |
| 11   | SK0432-2L/TI                    | SK0433-2L/TI | SK0435-2L/TI | 5° lower part with sliding bushing, 5°–30°,<br>left lateral or right medial, bent inwards,<br>titanium           |
| 11   | SK0432-2R/TI                    | SK0433-2R/TI | SK0435-2R/TI | 5° lower part with sliding bushing, 5°–30°,<br>left medial or right lateral, bent inwards,<br>titanium           |
| 11a  | BP1009-L029                     | BP1110-L035  | BP1110-L040  | sliding bushing  |

|             | Article Number for System Width |              |              |  |
|-------------|---------------------------------|--------------|--------------|--|
| Item        | 14mm                            | 16mm         | 20mm         | Description  |
| 14          | SK0452-2L/AL                    | SK0453-2L/AL | SK0455-2L/AL | cover plate, left lateral or right medial,<br>aluminium          |
| 14          | SK0452-2R/AL                    | SK0453-2R/AL | SK0455-2R/AL | cover plate, left medial or right lateral,<br>aluminium          |
| 15          | SC1404-L10                      | SC1404-L10   | SC1404-L12   | countersunk flat head screw with hexalobular socket              |
| 16          | SC1405-L10                      | SC1405-L11   | SC1405-L12   | countersunk flat head screw with hexalobular socket (axle screw) |
| w/o<br>fig. | SK0492-VS                       | SK0493-VS    | SK0493-VS    | connecting tube for lever extension                              |
| w/o<br>fig. | SC0403-L08                      | SC0403-L10   | SC0403-L10   | pan head screw for exchanging extension stops                    |

## \* Locking Pawls NEURO LOCK

|              | Article Number for System Width |              |  |  |  |  |
|--------------|---------------------------------|--------------|--|--|--|--|
| 14mm         | 16mm                            | 20mm         |  |  |  |  |
| -            | SK0473-TI038                    | -            |  |  |  |  |
| SK0472-TI050 | SK0473-TI050                    | SK0475-TI050 |  |  |  |  |
| SK0472-TI063 | SK0473-TI063                    | SK0475-TI063 |  |  |  |  |
| -            | SK0473-TI075                    | SK0475-TI075 |  |  |  |  |
| -            | SK0473-TI088                    | SK0475-TI088 |  |  |  |  |
| -            | SK0473-TI100                    | SK0475-TI100 |  |  |  |  |

## \*\* Sliding Washers NEURO LOCK

| Article Number for System Width 14mm 16mm 20mm |            |            |  |  |  |
|--|------------|------------|--|--|--|
| Ø = 16mm                                       | Ø = 19mm   | Ø = 22mm   |  |  |  |
| GS1609-040                                     | GS1910-040 | GS2210-040 |  |  |  |
| GS1609-045                                     | GS1910-045 | GS2210-045 |  |  |  |
| GS1609-050                                     | GS1910-050 | GS2210-050 |  |  |  |
| GS1609-055                                     | GS1910-055 | GS2210-055 |  |  |  |
| GS1609-060                                     | GS1910-060 | GS2210-060 |  |  |  |

.....

|             |              | Article Number | for System Width | 1            |   |
|-------------|--------------|----------------|------------------|--------------|---|
| Item        | 12mm         | 14mm           | 16mm             | 20mm         | Description   |
| 1           | SB6049-L0850 | SB6049-L0950   | SB6049-L1130     | SB8559-L1290 | bearing nut (locking pawl)  |
| 2           | SB7049-L0850 | SB8559-L0950   | SB9669-L1130     | SB1069-L1290 | bearing nut (joint axis)  |
| 3           | SC2106-L04   | SC2107-L04     | SC9608-L11       | SC9609-L04/1 | pressure screw  |
| 4           | FE1414-01    | FE1520-01      | FE1527-01        | FE2726-01    | coil spring   |
| 5           | KU1005-ST    | KU1006-ST      | KU1007-ST        | KU1008-ST    | ball  |
| 6           | SK0701-2L/TI | SK0702-2L/TI   | SK0703-2L/TI     | SK0705-2L/TI | upper part, left lateral or right<br>medial, straight, titanium   |
| 6           | SK0701-2R/TI | SK0702-2R/TI   | SK0703-2R/TI     | SK0705-2R/TI | upper part, left medial or righ<br>lateral, straight, titanium  |
| 7           | SK9801-E005  | SK9802-E005    | SK9803-E005      | SK9805-E005  | 5° extension stop   |
| 8           | SK0492-ST    | SK0492-ST      | SK0495-ST        | SK0495-ST    | lever extension   |
| 9           | SK0771-*     | SK0772-*       | SK0773-*         | SK0775-*     | locking pawl*   |
| 10          | GS1807-***   | GS2009-***     | GS2210-***       | GS2411-***   | sliding washer***   |
| 11          | SK0811-2L/TI | SK0812-2L/TI   | SK0813-2L/TI     | SK0815-2L/TI | 5° lower part with sliding<br>bushing, 5°–30°,left lateral<br>or right medial, straight,<br>titanium      |
| 11          | SK0811-2R/TI | SK0812-2R/TI   | SK0813-2R/TI     | SK0815-2R/TI | 5° lower part with sliding<br>bushing, 5°–30°,left medial<br>or right lateral, straight,<br>titanium      |
| 11          | SK0831-2L/TI | SK0832-2L/TI   | SK0833-2L/TI     | SK0835-2L/TI | 5° lower part with sliding<br>bushing, 5°–30°, left lateral<br>or right medial, bent inwards,<br>titanium |
| 11          | SK0831-2R/TI | SK0832-2R/TI   | SK0833-2R/TI     | SK0835-2R/TI | 5° lower part with sliding<br>bushing, 5°–30°, left medial<br>or right lateral, bent inwards,<br>titanium |
| 11a         | BP0807-L056  | BP1009-L065    | BP1110-L078      | BP1211-L090  | sliding bushing   |
| 12          | FE1407-01    | FE1411-02      | FE1411-02        | FE1411-02    | coil spring   |
| 13          | SK0771-20    | SK0772-20      | SK0773-20        | SK0775-20    | locating pin for adjusting the permanent unlock function  |
| 14          | SK0861-2L/AL | SK0862-2L/AL   | SK0863-2L/AL     | SK0865-2L/AL | cover plate, left lateral or right medial, aluminium  |
| 14          | SK0861-2R/AL | SK0862-2R/AL   | SK0863-2R/AL     | SK0865-2R/AL | cover plate, left medial or right lateral, aluminium  |
| 15          | SC1404-L12   | SC1404-L12     | SC1404-L14       | SC1405-L14   | countersunk flat head screw with hexalobular socket   |
| 16          | SC1404-L12   | SC1405-L12     | SC1405-L14       | SC1406-L14   | countersunk flat head screw<br>with hexalobular socket (axle<br>screw)                                    |
| w/o<br>fig. | SK0492-VS    | SK0492-VS      | SK0493-VS        | SK0493-VS    | connecting tube for lever extension   |

## 17.5 Spare Parts for the NEURO LOCK MAX System Knee Joint

|             | Article Number for System Width |            |            |            |  |
|-------------|---------------------------------|------------|------------|------------|--|
| Item        | 12mm                            | 14mm       | 16mm       | 20mm       | Description  |
| w/o<br>fig. | SC0403-L08                      | SC0403-L08 | SC0403-L10 | SC0403-L10 | pan head screw for exchang-<br>ing extension stops |

## 17.6 Spare Parts for the NEURO FLEX MAX System Knee Joint Lock Function

| Item | 12mm         | 14mm         | 16mm         | 20mm         | Description  |
|------|--------------|--------------|--------------|--------------|--|
| 1    | SB6049-L0850 | SB6049-L0950 | SB6049-L1130 | SB8559-L1290 | bearing nut (locking pawl)   |
| 2    | SB7049-L0850 | SB8559-L0950 | SB9669-L1130 | SB1069-L1290 | bearing nut (joint axis)   |
| 3    | SC2106-L04   | SC2107-L04   | SC9608-L11   | SC9609-L04/1 | pressure screw   |
| 4    | FE1414-01    | FE1520-01    | FE1527-01    | FE2726-01    | coil spring  |
| 5    | KU1005-ST    | KU1006-ST    | KU1007-ST    | KU1008-ST    | ball   |
| 6    | SK0701-2L/TI | SK0702-2L/TI | SK0703-2L/TI | SK0705-2L/TI | upper part, left lateral<br>or right medial, straight,<br>titanium     |
| 6    | SK0701-2R/TI | SK0702-2R/TI | SK0703-2R/TI | SK0705-2R/TI | upper part, left medial<br>or right lateral, straight,<br>titanium     |
| 7    | SK9801-E005  | SK9802-E005  | SK9803-E005  | SK9805-E005  | 5° extension stop  |
| 8    | SK9801-E010  | SK9802-E010  | SK9803-E010  | SK9805-E010  | 10° extension stop   |
| 9    | SK9801-E015  | SK9802-E015  | SK9803-E015  | SK9805-E015  | 15° extension stop   |
| 10   | SK9801-E020  | SK9802-E020  | SK9803-E020  | SK9805-E020  | 20° extension stop   |
| 11   | SK9801-E025  | SK9802-E025  | SK9803-E025  | SK9805-E025  | 25° extension stop   |
| 12   | SK9801-E030  | SK9802-E030  | SK9803-E030  | SK9805-E030  | 30° extension stop   |
| 13   | SK0771-*     | SK0772-*     | SK0773-*     | SK0775-*     | locking pawl*  |
| 14   | SK0492-ST    | SK0492-ST    | SK0495-ST    | SK0495-ST    | lever extension  |
| 15   | GS1807-***   | GS2009-***   | GS2210-***   | GS2411-***   | sliding washer***  |
| 16   | SK0711-L/TI  | SK0712-L/TI  | SK0713-L/TI  | SK0715-L/TI  | lower part, left lateral<br>or right medial, straight,<br>titanium     |
| 16   | SK0711-R/TI  | SK0712-R/TI  | SK0713-R/TI  | SK0715-R/TI  | lower part, left medial<br>or right lateral, straight,<br>titanium     |
| 16   | SK0731-L/TI  | SK0732-L/TI  | SK0733-L/TI  | SK0735-L/TI  | lower part, left lateral or<br>right medial, bent inwards,<br>titanium |
| 16   | SK0731-R/TI  | SK0732-R/TI  | SK0733-R/TI  | SK0735-R/TI  | lower part, left medial or<br>right lateral, bent inwards,<br>titanium |
| 17   | FE1407-01    | FE1411-02    | FE1411-02    | FE1411-02    | coil spring  |

|      |              | l.           |              |              |  |
|------|--------------|--------------|--------------|--------------|--|
| Item | 12mm         | 14mm         | 16mm         | 20mm         | Description  |
| 18   | SK0771-20    | SK0772-20    | SK0773-20    | SK0775-20    | locating pin for adjusting the<br>permanent unlock function                              |
| 19   | SK0781-2L/TI | SK0782-2L/TI | SK0783-2L/TI | SK0785-2L/TI | 5° flexion stop disc with<br>sliding bushing, left lateral or<br>right medial, titanium  |
| 19   | SK0781-2R/TI | SK0782-2R/TI | SK0783-2R/TI | SK0785-2R/TI | 5° flexion stop disc with<br>sliding bushing, left medial or<br>right lateral, titanium  |
| 20   | SK0781-3L/TI | SK0782-3L/TI | SK0783-3L/TI | SK0785-3L/TI | 10° flexion stop disc with<br>sliding bushing, left lateral or<br>right medial, titanium |
| 20   | SK0781-3R/TI | SK0782-3R/TI | SK0783-3R/TI | SK0785-3R/TI | 10° flexion stop disc with<br>sliding bushing, left medial or<br>right lateral, titanium |
| 21   | SK0781-4L/TI | SK0782-4L/TI | SK0783-4L/TI | SK0785-4L/TI | 15° flexion stop disc with<br>sliding bushing, left lateral or<br>right medial, titanium |
| 21   | SK0781-4R/TI | SK0782-4R/TI | SK0783-4R/TI | SK0785-4R/TI | 15° flexion stop disc with<br>sliding bushing, left medial or<br>right lateral, titanium |
| 22   | SK0781-5L/TI | SK0782-5L/TI | SK0783-5L/TI | SK0785-5L/TI | 20° flexion stop disc with<br>sliding bushing, left lateral or<br>right medial, titanium |
| 22   | SK0781-5R/TI | SK0782-5R/TI | SK0783-5R/TI | SK0785-5R/TI | 20° flexion stop disc with<br>sliding bushing, left medial or<br>right lateral, titanium |
| 23   | SK0781-6L/TI | SK0782-6L/TI | SK0783-6L/TI | SK0785-6L/TI | 25° flexion stop disc with sliding bushing, left lateral or right medial, titanium       |
| 23   | SK0781-6R/TI | SK0782-6R/TI | SK0783-6R/TI | SK0785-6R/TI | 25° flexion stop disc with<br>sliding bushing, left medial or<br>right lateral, titanium |
| 24   | SK0781-7L/TI | SK0782-7L/TI | SK0783-7L/TI | SK0785-7L/TI | 30° flexion stop disc with sliding bushing, left lateral or right medial, titanium       |
| 24   | SK0781-7R/TI | SK0782-7R/TI | SK0783-7R/TI | SK0785-7R/TI | 30° flexion stop disc with sliding bushing, left medial or right lateral, titanium       |
| 19a  | BP0807-L056  | BP1009-L065  | BP1110-L078  | BP1211-L090  | sliding bushing  |
| 25   | SK0761-2L/AL | SK0762-2L/AL | SK0763-2L/AL | SK0765-2L/AL | cover plate, left lateral or right medial, aluminium                                     |
| 25   | SK0761-2R/AL | SK0762-2R/AL | SK0763-2R/AL | SK0765-2R/AL | cover plate, left medial or right lateral, aluminium                                     |
| 26   | SC1404-L12   | SC1404-L12   | SC1404-L14   | SC1405-L14   | countersunk flat head screw<br>with hexalobular socket                                   |

|             |            | Article Number | for System Width |            |  |
|-------------|------------|----------------|------------------|------------|--|
| Item        | 12mm       | 14mm           | 16mm             | 20mm       | Description  |
| 27          | SC1404-L12 | SC1405-L12     | SC1405-L14       | SC1406-L14 | countersunk flat head screw<br>with hexalobular socket (axle<br>screw) |
| w/o<br>fig. | SK0492-VS  | SK0492-VS      | SK0493-VS        | SK0493-VS  | connecting tube for lever extension                                    |
| w/o<br>fig. | SC0403-L08 | SC0403-L08     | SC0403-L10       | SC0403-L10 | pan head screw for exchang-<br>ing extension stops                     |

## \* Locking Pawls NEURO LOCK MAX/NEURO FLEX MAX Lock Function

| Article Number for System Width |              |              |              |                              |
|---------------------------------|--------------|--------------|--------------|------------------------------|
| 12mm                            | 14mm         | 16mm         | 20mm         | Leg                          |
| SK0771-L/025                    | -            | -            | SK0775-L/025 | left lateral or right medial |
| SK0771-L/038                    | SK0772-L/038 | SK0773-L/038 | SK0775-L/038 | left lateral or right medial |
| SK0771-L/044                    | -            | -            | SK0775-L/044 | left lateral or right medial |
| SK0771-L/050                    | SK0772-L/050 | SK0773-L/050 | SK0775-L/050 | left lateral or right medial |
| -                               | SK0772-L/056 | SK0773-L/056 | SK0775-L/056 | left lateral or right medial |
| SK0771-L/063                    | SK0772-L/063 | SK0773-L/063 | SK0775-L/063 | left lateral or right medial |
| -                               | SK0772-L/069 | SK0773-L/069 | -            | left lateral or right medial |
| -                               | SK0772-L/075 | SK0773-L/075 | SK0775-L/075 | left lateral or right medial |
| -                               | SK0772-L/088 | SK0773-L/088 | SK0775-L/088 | left lateral or right medial |
| -                               | SK0772-L/100 | SK0773-L/100 | -            | left lateral or right medial |
| SK0771-R/025                    | -            | -            | SK0775-R/025 | left medial or right lateral |
| SK0771-R/038                    | SK0772-R/038 | SK0773-R/038 | SK0775-R/038 | left medial or right lateral |
| SK0771-R/044                    | -            | -            | SK0775-R/044 | left medial or right lateral |
| SK0771-R/050                    | SK0772-R/050 | SK0773-R/050 | SK0775-R/050 | left medial or right lateral |
| -                               | SK0772-R/056 | SK0773-R/056 | SK0775-R/056 | left medial or right lateral |
| SK0771-R/063                    | SK0772-R/063 | SK0773-R/063 | SK0775-R/063 | left medial or right lateral |
| -                               | SK0772-R/069 | SK0773-R/069 | -            | left medial or right lateral |
| -                               | SK0772-R/075 | SK0773-R/075 | SK0775-R/075 | left medial or right lateral |
| -                               | SK0772-R/088 | SK0773-R/088 | SK0775-R/088 | left medial or right lateral |
| -                               | SK0772-R/100 | SK0773-R/100 | -            | left medial or right lateral |

## 17.7 Spare Parts for the NEURO FLEX MAX System Knee Joint Step Lock Function

|      |              | Article Number | for System Widtl | h            |  |
|------|--------------|----------------|------------------|--------------|--|
| Item | 12mm         | 14mm           | 16mm             | 20mm         | Description  |
| 1    | SB6049-L0850 | SB6049-L0950   | SB6049-L1130     | SB8559-L1290 | bearing nut (step lock pawl)   |
| 2    | SB7049-L0850 | SB8559-L0950   | SB9669-L1130     | SB1069-L1290 | bearing nut (joint axis)   |
| 3    | SC2106-L04   | SC2107-L04     | SC9608-L11       | SC9609-L04/1 | pressure screw   |
| 4    | FE1414-01    | FE1520-01      | FE1527-01        | FE2726-01    | coil spring  |
| 5    | KU1005-ST    | KU1006-ST      | KU1007-ST        | KU1008-ST    | ball   |
| 6    | SK0701-2L/TI | SK0702-2L/TI   | SK0703-2L/TI     | SK0705-2L/TI | upper part, left lateral or right<br>medial, straight, titanium  |
| 6    | SK0701-2R/TI | SK0702-2R/TI   | SK0703-2R/TI     | SK0705-2R/TI | upper part, left medial or right<br>lateral, straight, titanium  |
| 7    | SK9801-E005  | SK9802-E005    | SK9803-E005      | SK9805-E005  | 5° extension stop  |
| 8    | SK0492-ST    | SK0492-ST      | SK0495-ST        | SK0495-ST    | lever extension  |
| 9    | SK0761-**    | SK0762-**      | SK0763-**        | SK0765-**    | step lock pawl**   |
| 10   | GS1807-***   | GS2009-***     | GS2210-***       | GS2411-***   | sliding washer***  |
| 11   | SK0711-L/TI  | SK0712-L/TI    | SK0713-L/TI      | SK0715-L/TI  | lower part, left lateral or right<br>medial, straight, titanium  |
| 11   | SK0711-R/TI  | SK0712-R/TI    | SK0713-R/TI      | SK0715-R/TI  | lower part, left medial or right<br>lateral, straight, titanium  |
| 11   | SK0731-L/TI  | SK0732-L/TI    | SK0733-L/TI      | SK0735-L/TI  | lower part, left lateral or right<br>medial, bent inwards, titanium  |
| 11   | SK0731-R/TI  | SK0732-R/TI    | SK0733-R/TI      | SK0735-R/TI  | lower part, left medial or right<br>lateral, bent inwards, titanium  |
| 12   | FE1407-01    | FE1411-02      | FE1411-02        | FE1411-02    | coil spring  |
| 13   | SK0771-20    | SK0772-20      | SK0773-20        | SK0775-20    | locating pin for adjusting the<br>permanent unlock function  |
| 14   | SK0791-2L/TI | SK0792-2L/TI   | SK0793-2L/TI     | SK0795-2L/TI | 5° step lock stop disc with<br>sliding bushing, 5°–55°, in 10°<br>steps, left lateral or right medial,<br>titanium |
| 14   | SK0791-2R/TI | SK0792-2R/TI   | SK0793-2R/TI     | SK0795-2R/TI | 5° step lock stop disc with<br>sliding bushing, 5°–55°, in 10°<br>steps, left medial or right lateral,<br>titanium |
| 14a  | BP0807-L056  | BP1009-L065    | BP1110-L078      | BP1211-L090  | sliding bushing  |
| 15   | SK0761-2L/AL | SK0762-2L/AL   | SK0763-2L/AL     | SK0765-2L/AL | cover plate, left lateral or right medial, aluminium   |
| 15   | SK0761-2R/AL | SK0762-2R/AL   | SK0763-2R/AL     | SK0765-2R/AL | cover plate, left medial or right<br>lateral, aluminium  |
| 16   | SC1404-L12   | SC1404-L12     | SC1404-L14       | SC1405-L14   | countersunk flat head screw with hexalobular socket  |
| 17   | SC1404-L12   | SC1405-L12     | SC1405-L14       | SC1406-L14   | countersunk flat head screw<br>with hexalobular socket<br>(axle screw)   |

|             | Article Number for System Width |            |            |            |   |
|-------------|---------------------------------|------------|------------|------------|---|
| Item        | 12mm                            | 14mm       | 16mm       | 20mm       | Description                                   |
| w/o<br>fig. | SK0492-VS                       | SK0492-VS  | SK0493-VS  | SK0493-VS  | connecting tube for lever<br>extension        |
| w/o<br>fig. | SC0403-L08                      | SC0403-L08 | SC0403-L10 | SC0403-L10 | pan head screw for exchanging extension stops |

#### \*\* Step Lock Pawls NEURO FLEX MAX Step Lock Function Article Number for System Width 12mm 14mm 16mm 20mm Leg SK0761-L/025 SK0762-L/025 SK0763-L/025 SK0765-L/025 left lateral or right medial SK0761-L/038 -SK0763-L/038 left lateral or right medial SK0762-L/050 SK0763-L/050 SK0765-L/050 left lateral or right medial SK0761-L/050 SK0761-L/063 SK0762-L/063 SK0763-L/063 SK0765-L/063 left lateral or right medial SK0761-L/075 SK0762-L/075 SK0763-L/075 SK0765-L/075 left lateral or right medial SK0762-L/088 SK0763-L/088 SK0765-L/088 left lateral or right medial \_ \_ SK0762-L/100 SK0763-L/100 \_ left lateral or right medial SK0761-R/025 SK0762-R/025 SK0763-R/025 SK0765-R/025 left medial or right lateral SK0761-R/038 SK0763-R/038 left medial or right lateral \_ \_ SK0761-R/050 SK0762-R/050 SK0763-R/050 SK0765-R/050 left medial or right lateral SK0761-R/063 SK0762-R/063 SK0763-R/063 SK0765-R/063 left medial or right lateral SK0761-R/075 SK0762-R/075 SK0763-R/075 SK0765-R/075 left medial or right lateral SK0762-R/088 SK0763-R/088 SK0765-R/088 left medial or right lateral \_ SK0762-R/100 SK0763-R/100 left medial or right lateral \_ \_

#### \*\*\* Sliding Washers NEURO LOCK MAX/NEURO FLEX MAX

| Article Number for System Width |            |            |            |
|---------------------------------|------------|------------|------------|
| 12mm                            | 14mm       | 16mm       | 20mm       |
| Ø = 18mm                        | Ø = 20mm   | Ø = 22mm   | Ø = 24mm   |
| GS1807-040                      | GS2009-040 | GS2210-040 | GS2411-040 |
| GS1807-045                      | GS2009-045 | GS2210-045 | GS2411-045 |
| GS1807-050                      | GS2009-050 | GS2210-050 | GS2411-050 |
| GS1807-055                      | GS2009-055 | GS2210-055 | GS2411-055 |
| GS1807-060                      | GS2009-060 | GS2210-060 | GS2411-060 |

#### Disposal 18.

Dispose of the system joint and its individual parts properly. The product must not be disposed of with the residual waste (fig. 50). Please comply with the applicable national laws and local regulations for the proper recycling of recyclable materials.

i For proper disposal, it is necessary to demount the system joint from the orthosis. .... 



. .

## 19. Signs and Symbols

| CE  | CE labelling according to Regulation (EU) 2017/745 for medical devices |
|-----|--|
| MD  | medical device   |
| REF | article number   |
|     | manufacturer   |
| LOT | batch code   |
| SN  | serial number  |
| Ĩ   | follow the instructions for use  |
|     | single patient – multiple uses   |
| UDI | Unique Device Identifier – product identification number               |

## 20. CE Conformity

We declare that our medical devices as well as our accessories for medical devices are in conformity with the requirements of Regulation (EU) 2017/745. Therefore, the FIOR & GENTZ products bear the CE marking.

## 21. Legal Information

With the purchase of this product, our General Terms and Conditions of Business Transactions, Sales, Delivery and Payment will apply. The warranty expires, for example, if the product is mounted several times. Please note that the product is not supposed to be combined with other components or materials than with those recommended in the configuration result of the FIOR & GENTZ Orthosis Configurator. The combination of the product with products from other manufacturers is not permitted.

The information in these instructions for use is valid at the date of printing. The contained product information serves as guidelines. Subject to technical modifications.

All copy rights, particularly the distribution, copy and translation of these instructions for use or any part of it, must be authorised by FIOR & GENTZ Gesellschaft für Entwicklung und Vertrieb von orthopädietechnischen Systemen mbH. Reprints, copies and any other electronic reproduction, even partial, must be authorised in writing by FIOR & GENTZ Gesellschaft für Entwicklung und Vertrieb von orthopädietechnischen Systemen mbH.

## 22. Information for the Treatment Documentation

Add these instructions for use to your treatment documentation!

## Patient Data

| Name                |  |
|---------------------|--|
| Address             |  |
| Postcode, City      |  |
| Home Telephone      |  |
| Telephone at Work   |  |
| Insurance           |  |
| Insurance No.       |  |
| Attending Physician |  |
| Diagnosis           |  |
|                     |  |
|                     |  |
|                     |  |
|                     |  |
|                     |  |
|                     |  |
|                     |  |



## 23. Handing Over the Orthosis

The qualified specialist in orthopaedic technology has also handed over the instructions for use for patients as well as the orthosis service passport to you as a patient, parent or care team. By means of these instructions for use, the functions and handling of the orthosis were explained to you in detail. You will find the next maintenance appointment in the orthosis service passport. Bring the orthosis service passport with you to every maintenance appointment.

| FIDREGENTZ                |  |
|---------------------------|--|
| Orthesen-Servicepass      |  |
| Orthosis Service Passport |  |

| Place, Date            | -<br>Signature Patient |
|------------------------|------------------------|
|                        |                        |
| Leg Side               |                        |
| left right             |                        |
| Mounted Locking Pawl   | •                      |
| sк                     |                        |
| Mounted Step Lock Pawl | MELRO                  |
| SK                     | TOR & GENTZ            |
| Mounted Sliding Washer |                        |
| 1. GS                  | •                      |
| 2. GS                  |                        |



#### FIOR & GENTZ

Gesellschaft für Entwicklung und Vertrieb von orthopädietechnischen Systemen mbH

Dorette-von-Stern-Straße 5 21337 Lüneburg (Germany) € +49 4131 24445-0 ■ +49 4131 24445-57 info@fior-gentz.de ☆ www.fior-gentz.com