

Prosthetics  
Lower Limb



## IMPRINT

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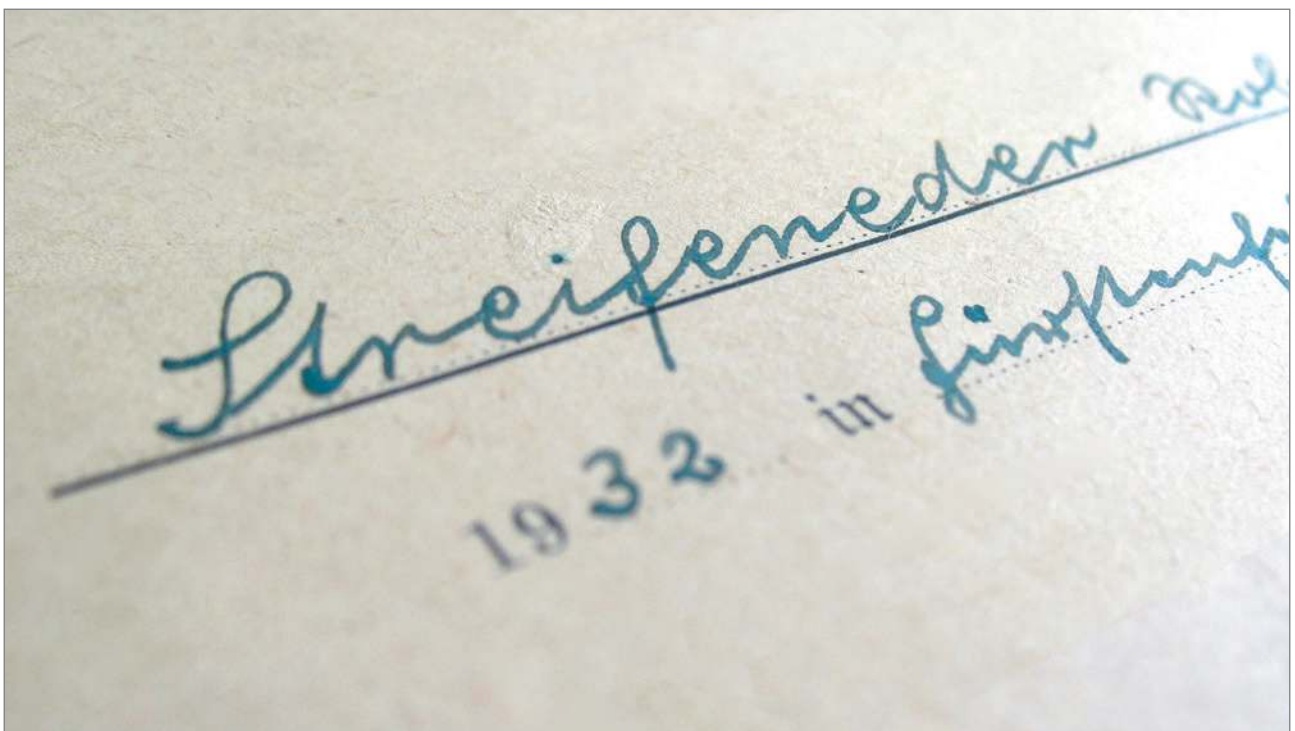
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# History

- 1928 The Streifeneder firm is set up by Lilli and Friedrich Georg Streifeneder in Mannheim.
- 1929 The first patent is applied for.
- 1931 The property in Schöngesinger Straße in Fürstenfeldbruck is purchased.
- 1932 The first orthopaedic workshop is fitted out in Fürstenfeldbruck near Munich.
- 1945 Further orthopaedic workshops are set up to cater for war invalids.
- 1949 The orthopaedic workshop starts up at the Bad Tölz Hospital.
- 1953 The Munich site is opened. The wholesale business is expanded.
- 1968 The plastics, Streifylen and Streifylast, are launched along with the requisite heat sources.
- 1992 A production site is set up in Hungary to manufacture plastic products in small series.
- 1993 The production and distribution division expands further. Move to the new company premises in Emmering, just outside Munich.
- 1995 Export activities are stepped up.
- 1997 Takeover of Maschinen-Schmid, the world market leader in socket router machinery.
- 1998 The product range is extended by the prosthetics product division.
- 1999 Traditional in-house production is extended and the product spectrum expanded by modular components. "Everything from a single source" – with our very own department for workshop planning we can now help to realize our clients' wishes even better.
- 2001 The new site in Emmering is extended by further storage space to 6,000 qm.
- 2004 Establishment of distribution structure in China.
- 2007 Streifeneder ortho.production GmbH is set up as an independent subsidiary.
- 2009 Streifeneder ortho.production GmbH exports to more than 100 countries.  
Streifeneder ortho.production GmbH wins the "red dot design award" for the knee joint KINEGEN.stream.

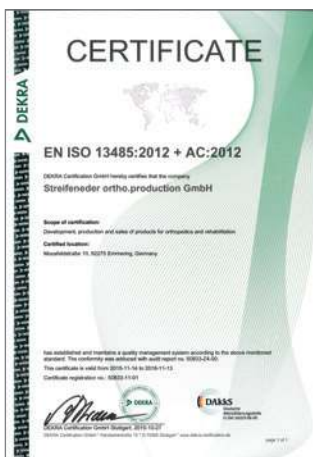
- 2010 A new building is purchased for Streifeneder ortho.production GmbH in Emmering.
- 2011 Opening of the branch Streifeneder India, located in Gurgaon/Haryana.  
Establishment of distribution structures in Latin America.  
Relocation of Streifeneder ortho.production to the new building with modern training and education-, logistics- and administration centre.  
Foundation of Streifeneder Training Centre in Emmering.
- 2012 Grand opening of Streifeneder Training Centre, with focus on national and international markets.  
Streifeneder ortho.production GmbH wins the "red dot design award" for the therapeutic shoe Pluto.
- 2013 The US-American distribution partner Euro International, located in Tampa/Florida, is integrated in the company as Streifeneder USA.
- 2014 Streifeneder group receives a new corporate design with new company logo.



# Quality is our Claim

We are convinced that only constant technical innovation and development is the key to a steady improvement of products and optimal patient care. We apply high standards to be able to offer each of our clients exactly those high-quality products he requires. Each of our products is subject to a continuous quality planning, quality control, quality monitoring and quality improvement. In order to be able to satisfy even most individual customer requirements and also in order to close product-related gaps in the market, it is essential to have our own production series with large lot sizes, but to also offer products with very individual unit numbers.

Despite the rapid development of the export business within the last years and the opening up of new markets such as China, we still value Germany as our location to do business. We are proud of the quality standard "Made in Germany" and even in times of a continuously increasing cost pressure and growing competition due to globalization, we still produce predominantly in Germany.



## Quality management

More than eighty years of experience, as well as the certified quality management system we introduced in 1998 according to EN ISO 13485; ensure highest quality level.

This quality management system is applied to all business divisions. Especially our product development division makes sure that the high level of quality is not only maintained but steadily increased. Thus, we ensure that we always meet the raising demands of our clients in terms of product development, manufacturing and safety.



Increasing globalisation and changing international security and safety conditions have motivated the World Customs Organisation (WCO) to draft a „Framework of Standards to Secure and Facilitate Global Trade“ (SAFE) to establish a global framework for modern and effective risk management of

customs compliances. The aim is to guarantee the security and safety of a continual international supply chain from the product manufacturer to the end consumer. The concept of European Authorised Economic Operator is an EU Customs security programme that started in 2007 and recognises companies as reliable trade partners as they met the following common criteria: customs compliance, appropriate record-keeping, financial solvency and, where relevant, appropriate security and safety standards.

Streifeneder ortho.production GmbH, as a globally operating company, has met the challenge and is proud to announce that it has been granted Authorised Economic Operator (AEO-F) certification by German customs in January, 2013, which officially regards the company as a reliable trade partner. The certificate number is DE AEO-F 115235.

On the basis of the EC Regulation 300/2008, we received the status of a known consignor by the LBA (Federal Office of Civil Aviation) in November 2013. We are listed in the EC database with approval number

DE/KC01882-01/1118. Because of this we obtain a valuable time savings when processing our air freight.

Due to the high standards in our factory at Emmering the consignments do not have to be subject to further security checks at the airport.


Because of this we can do even better at achieving our goal that you receive our products as quickly as possible. An important part of our delivery time concept and a valuable time saver. Part of our comprehensive safety concept is that our company is protected against entry by unauthorized persons and keep our shipments to you received the highest security and packaging standards. With this we contribute our share in building a secure supply chain.

### Declaration of conformity

As manufacturer with sole responsibility, Streifeneder ortho.production GmbH declares that the products referred to in this catalog conform to the requirements of the 93/42 EEC Guidelines concerning medical devices.

In order to comply with your documentation requirements, please paste the removable item labels of the products used onto the Streifeneder patient certificate and completely fill out the patient data. In case of a complaint, by means of this customer-/ patient documentation the compliance with all applicable technical guidelines for the alignment of a prostheses as well as the conformity with legal obligations due to the medical devices legislation can be documented.



 Please use the detachable article labels to document the products used on the Streifeneder patient certificate. Please send the completely filled out certificate to Streifeneder ortho.production GmbH in case of complaints and a possible use of warranty or guarantee claims for used goods.

## Contacting us

Communication is a must in a working relationship. Your personal contact to our staff members in the internal sales department as well as our field service is the base of our successful collaboration. It is our goal to react swiftly and efficiently to all of your wishes, to answer all of your questions and to keep all of the promises we make for our products. Please contact us, we are looking forward to hearing from you!



Via our general office switchboard at +49 8141 6106-0 your call will be directed to the staff member in charge. Of course, you can also send your request by email to [service@streifeneder.de](mailto:service@streifeneder.de).

# Development & Production

Experience technology, create technology, utilize technology - keep track of development and concentrate synergies. It is a vital part of our company's philosophy to continually optimize our operational procedures and production processes. This is why we define the economic growth of our company by our perpetual increase in production efficiency. The creativity, the commitment and the special professional skills of each of our members of staff, as well as our state-of-the-art production facilities are our guarantor for satisfied customers.

Our equipment in terms of up-to-date drawing programs (3D-CAD), simulation software (FEM-calculation) to the point of multi-axial machining centers helps our engineers and orthopaedic technicians to assure and further expand our market position.





We subject ourselves and our products to highest quality standards. Therefore our products undergo constant internal quality testing in our own test stands and gait analysis systems. Therefore our customers receive exactly what they can expect from us – best quality and long-lasting products. See the quality of our products and the comprehensive service that we have to offer for yourself!



# Training Centre Streifeneder ortho.training

In order to stay competitive and in order to meet the growing requirements of the patients, it is no longer enough to just use high quality orthopaedic products. Profound practical skills on the basis of current scientific research and findings creates optimal conditions to always react competently and confidently in daily practice. In order to convey valuable expertise as well as detailed knowledge to specialists in orthopaedic and orthopaedic shoe technology as well as physiotherapy and podiatry, we have originated the Training Centre Streifeneder ortho.training in Emmering.

A spacious auditorium (AudiMax) with 160 seats and a fully equipped workshop with 15 work stations, a machine room as well as a patient fitting room and a plaster room on approx. 1.000 sqm offer more than optimal conditions for a qualified advanced and continuous education on the highest level. Modern tools such as multimedia equipment, a fully equipped gait analysis laboratory, course materials and teaching aids that meet the demands of our clients are also part of our standards.





Our meticulously elaborated seminar program comprehends more than 50 events per year centered around topics such as silicone processing, pre-preg processing, synthetic materials or gait analysis. With a flexible program planning on our part, we are also able to react to individual customer's wishes and to offer seminars about special subjects upon request. In order to guarantee an array of seminars that is as broad as possible we regularly invite high-carat external guest lecturers to our training centre Streifeneder ortho.training.

You can download our current seminar calendar with further information about all of our seminars from our website at [www.streifeneder.com/training](http://www.streifeneder.com/training).

Of course, we will also gladly send it to you by post or email. Please feel free to contact us at: [training@streifeneder.de](mailto:training@streifeneder.de) or by telephone +49 8141 6106-200.

We are looking forward to hearing from you!

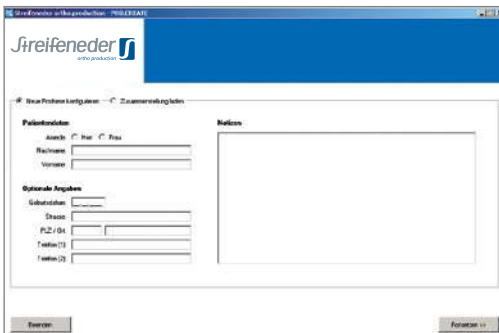


# PRO.create – the Prosthesis Configurator

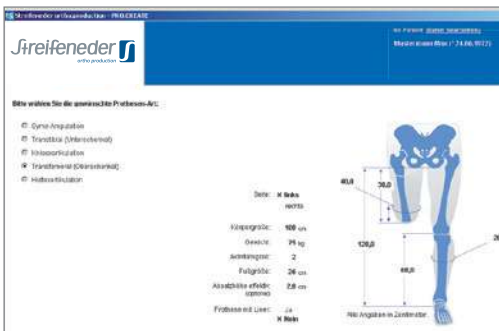
The PRO.create system enables the virtual composition of a prosthesis directly on your computer screen. After entering predefined measurements for a prosthesis, the software will generate a list with all possible components from our range of products.

Starting with the data of the amputee to the choice of components up to placing the order, this system efficiently supports the orthopaedic technician in his work.

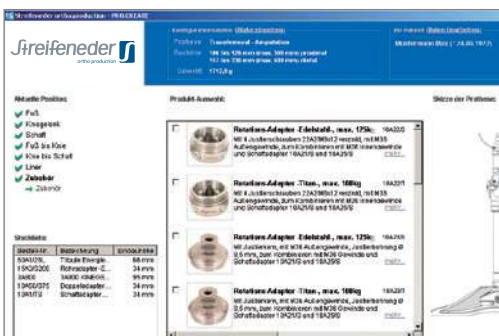
You can download PRO.create in english using the following link: [www.streifeneder.com/op](http://www.streifeneder.com/op)



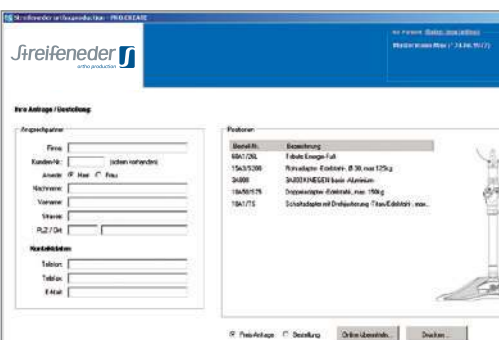
The first window is used for entering the amputee's data. You can also create notes with regard to the amputee here. If needed, you can simply call up any already configured prosthesis again.



In the next window you can enter the data with regard to the amputation. Based on these facts (kind of amputation, activity level, overall heights), you will automatically be asked to choose from the matching components.



Now you can choose the respective components. The prostheses will be aligned simultaneously in a window on the side.



At the end of the configuration an order form will be automatically created, that you can directly sent to Streifeneder ortho.production via email to receive a corresponding offer.

# Walky System by Streifeneder ortho.production

Walky – Includes weight categories.

Walky – Describes the degree of mobility in connection with the weight category of functional parts such as Prosthetic Feet, knee- and hip joints.

Walky – Simplifies the professional composition of functional parts in connection with structure fitting parts. The degree of mobility and weight category are easily recognizable for the orthopaedic technician and therefore guarantee an adequate patient fitting.

Walky – Corresponds to the profile survey sheet of the German Medical Service of Leading Associations of Healthcare Insurance Providers (MDS).

## Walky 1



The patient has the capability to use a prosthesis in order to walk on level floors at a steady step rhythm. He or she is the typical "indoor walker".

Therapy goal:

Restoration of the standing and of the walking capability limited to indoor areas.

## Walky 2



The patient has the capability to overcome low environmental obstacles such as curbstones, single steps or uneven floors. He or she is the "outdoor walker".

Therapy goal:

Restoration of the standing capability and of the walking capability, which is unlimited indoors and limited outdoors.

## Walky 3



The patient has the capability to move with a prosthesis at different walking speeds and to overcome almost all of the environmental obstacles. In addition, he or she carries out professional or therapeutic activities, which demand a use of the prostheses for more than just simple locomotion. He or she is the "unlimited outdoor walker".

Therapy goal:

Restoration of the standing capability as well as the walking capability, which is not limited indoors and only insignificantly limited outdoors.

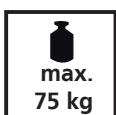
## Walky 4



The patient has the capability to move with high or variable speed regularly. He or she is very active and lively. The use of the prostheses clearly exceeds the basic walking capability. Due to the high demands, the prostheses is put under increased impact load, stress exposure and deformation load. He or she is the "unlimited outdoor walker with particularly high demands".


Therapy goal:

Restoration of the standing capability and of the walking/mobility capability, which is unlimited indoors as well as outdoors.



### Weight category

The body weight as well as the weight of regularly or frequently carried loads determines in which weight category the patient should be placed.

 The component with the lowest maximum (body) weight in the construction of a prosthesis is decisive for the maximum load of the entire prosthesis.



# Prostheses for Children



# Prostheses for Children

Streifeneder ortho.production has made it its business to help children whose leg has been amputated or who have to cope with a congenital malformation with prosthetic care. An individual modular system has therefore been included into the product range.

The diminishment of the components allows for a proportionally suitable prosthetic supply for small children up to adolescents. Finally, a smooth conversion to the modular system for adults is possible. The specific requirements of childrens' prostheses have been taken into consideration by designing the joints in a special manner. A polycentric knee joint with a large angle of declination and three different proximal connecting options that partially allow additional rotation adjustments, offers the best possible freedom to move and an individual adaptation to the requirements of the child. A child's desire for powerful hues was also met with the selection of the product colour.

The use is restricted to a body weight of 45 kg, a Foot size of 21 cm and a body height of 145 cm. Joints and adapters are made of light metal/titanium to reduce the weight of the system even further. In order to allow for the use of Prosthetic Feet from the adult program we included the adapter 100K23/S in our program, which connects the pyramid adapter for 30- and 34-mm-systems to the modular system for children.



Every component of the childrens' prosthetics range follows the strict ISO 10328 guideline for lower limbs and takes into account the reduced wearing time which is due to the growth of the children.



We recommend verifying the components every third month because the system is subjected to extreme stresses. These inspections should be carried out with regard to functional performance, tubular adapters, possible distortions and damages.

Structured and functional parts made of aluminum and titanium coming from the adults' product range are preferably used for larger children.



## S.A.C.H. Foot for Children with Split Toe



- thread M8
- heel height: 10 mm
- with split toe
- with enclosed heel wedge
- recommended S.A.C.H. foot adapter 16AK1/M8


Size / weight	Side	Height	max. ↑ kg	Item-No.
14 cm / 80 g	left	46 mm	35 kg	30A26/14L
14 cm / 80 g	right	46 mm	35 kg	30A26/14R
16 cm / 110 g	left	51 mm	35 kg	30A26/16L
16 cm / 110 g	right	51 mm	35 kg	30A26/16R
18 cm / 150 g	left	57 mm	45 kg	30A26/18L
18 cm / 150 g	right	57 mm	45 kg	30A26/18R
20 cm / 210 g	left	63 mm	45 kg	30A26/20L
20 cm / 210 g	right	63 mm	45 kg	30A26/20R

## S.A.C.H. Foot Adapter -Aluminum-



- complete with bolted connection
- thread M8

Bolt	Weight	Eff. height	max. ↑ kg	Item-No.
Steel	68 g	5 mm	45 kg	160K1/M8

 For bonding we recommend item 118P32.

# Prostheses for Children



## Tube Adapter -Aluminum-, Ø 22 mm

- with aluminum tube Ø 22 x 2 mm
- yellow/green anodised
- with 4 adjustment set screws 22A2/M6x12, zinc-plated
- tube length: 300 mm

Tube ø	Weight	Eff. height	max. ↑kg	Item-No.
22 mm	186 g	min. 85 mm max. 335 mm	45 kg	15K2/A300



## Tube -Aluminum-, Ø 22 mm

- sanded and true to size
- yellow anodised
- Ø 22 x 2 mm

Length	Weight	Tube ø	max. ↑kg	Item-No.
320 mm	144 g	22 mm	45 kg	15K2/A320



## Tube Clamp Adapter -Aluminum-, Ø 22 mm

- total height: 55 mm
- for tubes Ø 22 mm
- with 4 adjustment set screws 22A2/M6x12, zinc-plated
- green anodised

Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Aluminum	62 g	15 mm	45 kg	110K11/A



## Tube Clamp Adapter 10° tilt -Aluminum-, Ø 22 mm

- total height: 60 mm
- for tubes Ø 22 mm
- with 4 adjustment set screws 22A2/M6x12, zinc-plated
- green anodised

Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Aluminum	62 g	19 mm	45 kg	110K12/A



## Tube Clamp Adapter with Adjustment Core -Aluminum-, Ø 22 mm

- total height: 42 mm
- for tubes Ø 22 mm
- green anodised

Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Aluminum	50 g	4 mm	45 kg	110K15/A



## Socket Adapter -Aluminum-

- with adjustment core
- with center bore Ø 6,1 mm
- for connection of different modular parts or distal socket ends
- green anodised

Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Aluminum	44 g	4 mm	45 kg	100K90/A



## Socket Adapter -Aluminum-

- with 4 adjustment set screws 22A2/M6x12, zinc-plated
- for connection of different modular parts or distal socket ends

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	49 g	18 mm	45 kg	100K92/A



## Connection Adapter for Children with Adjustment Core -Stainless Steel-

- for tube adapter Ø 22 mm
- connection between pyramide acceptance with Ø 30 mm to children tube adapter Ø 22 mm
- low clearance: 23 mm

Material	Weight	Eff. height	max. ↑kg	Item-No.
Stainl. Steel	85 g	18 mm	60 kg	100K23/S



## Socket Attachment Block -Plastic-

- with 4 countersink screws 22A5/M5x16
- with lamination dummy
- length x width: 80 x 80 mm

Material	Weight	Eff. height	max. ↑kg	Item-No.
Plastic	110 g	32 mm	45 kg	120K7



## Socket Adapter -Aluminum-

- with adjustment core and lamination anchor
- for direct lamination

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	36 g	6 mm	45 kg	100K3/A

# Prostheses for Children

## Socket Adapter -Aluminum-



- rotational adjustment with adjustment screws
- with adjustment screws 22A2/M6x12 and clamping screw
- for direct lamination
- delivered with lamination aid

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	60 g	20 mm	45 kg	100K4/A

## Double Adapter -Titanium-



- connections with 4 adjustment set screws 22A2/M6x12 each
- for connection between 2 adjustment cores

Material	Weight	Eff. height	max. ↑kg	Item-No.
Titanium	88 g	32 mm	45 kg	100K50/T32
Titanium	94 g	45 mm	45 kg	100K50/T45
Titanium	101 g	60 mm	45 kg	100K50/T60

## 3K51 Modular Hip Joint



- proximal: lamination disc
- distal: clamp for tube with  $\varnothing$  22 mm
- incl. counter sunk screw 22A5/M5x16

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	228 g	15 mm	45 kg	3K51

## Countersunk Screw



- allen screw for hip joint 3K51

Material	Weight	Dimensions	Item-No.
Steel, zinc-plated	3,8 g	M5 x 16 mm	22A5/M5x16

# Prostheses for Children



## 3K31 Modular Knee Joint

- total height: 82 mm
- monocentric
- light weight / highly durable aluminum
- proximal: adjustment core -stainless steel-
- distal: tube clamp Ø 22 mm
- with integrated inner extension assist
- knee flexion angle: 145°

### Accessory

- cosmetic soft foam cover 600K32

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	169 g	41 mm	45 kg	3K31



## 3K41 Modular Knee Joint with Lock

- total height: 82 mm
- monocentric
- light weight / highly durable aluminum
- proximal: adjustment core -stainless steel-
- distal: tube clamp Ø 22 mm
- knee flexion angle: 145°

### Accessory

- cosmetic soft foam cover 600K32

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	152 g	41 mm	45 kg	3K41



## 3K61 Modular Knee Joint

- total height: 101 mm
- polycentric
- adjustable axis lock
- with integrated inner extension assist
- with 3 selectable proximal connections: adjustment core adapter: 3K61/E1 (with rotation adjustment), socket adapter: 3K61/E2, lamination anchor: 3K61/E3
- distal connection: tube clamp Ø 22 mm
- knee flexion angle: 150°

### Accessory

- cosmetic soft foam cover 600K32

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	334 g	70 mm	45 kg	3K61



## Adjustment Core Adapter -Stainless Steel-

- for modular knee joint 3K61
- with additional rotation adjustment

Material	Weight	Eff. height	max. ↑kg	Item-No.
Stainl. Steel	40 g	2 mm	45 kg	3K61/E1



## Socket Adapter -Stainless Steel-

- for modular knee joint 3K61

Material	Weight	Eff. height	max. ↑kg	Item-No.
Stainl. Steel	55 g	4 mm	45 kg	3K61/E2



## Lamination Anchor -Stainless Steel-

- for modular knee joint 3K61
- for knee disarticulation

Material	Weight	Eff. height	max. ↑kg	Item-No.
Stainl. Steel	55 g	6 mm	45 kg	3K61/E3

# Prostheses for Children



## Cosmetic Soft Foam Cover

- made of PUR soft foam
- for modular trans-tibial and knee-disarticulation prostheses
- colour: peach
- applicable for left and right side
- with  $\varnothing$  19 mm bore

Length	Upper $\varnothing$	Lower $\varnothing$	Item-No.
50 cm	18 cm	15 cm	600K7



## Cosmetic Soft Foam Cover

- made of PUR soft foam
- for modular trans-femoral and hip-disarticulation prostheses
- 30° knee flexion
- colour: peach
- very distinctive pre-shaped calf
- matching nylon cosmetic stocking 200K15
- with  $\varnothing$  19 mm bore

Side	Calf circumference	Item-No.
left	32 cm	600K32/L
right	32 cm	600K32/R



## Nylon Cosmetic Stocking for Children

- material: 100 % polyamid (nylon)
- for above knee (AK) prostheses for children
- colour: peach

PU = 1 piece



Leg length	Foot length	Item-No.
34 cm	10 cm	200K15/1
37 cm	11 cm	200K15/2
44 cm	12 cm	200K15/3





## Plastic Valve

- without automatic air outlet
- outer valve diameter 26 mm

Weight	Item-No.
20 g	6K26



# Prosthetic Feet



# Prosthetic Feet

In the course of human evolution from quadruped to biped, the healthy foot has decisively changed in its function and complexity. It is the load-bearing element of the body.

A high number of receptors inside the sole tissue of the foot transmit important information about the composition of the floor to the walking person – information, which has to be compensated by the teamwork of bones and muscles. Diverse forces are to be kept away from the body and are to be reduced with an astonishing possibility of movement into any direction. The upper ankle joint allows dorsal and plantar flexions. The pro- and supination movement comes from the lower ankle joint as well as from the small joints of the middle foot.

Torsional forces acting on the sound foot are damped, cushioned and consequently not transmitted to the body.

All these various tasks have to be accomplished by a prosthetic foot in order to ensure the greatest possible use for the amputee and his or her individual activity level. Therefore the correct selection of the prosthetic foot is of utmost importance with regard to a successful fitting of the amputee.

Selection criteria of the orthopaedic technician are

- Activity level
- Weight of the patient
- Function
- Height of the prosthetic foot
- Weight of the prosthetic foot
- Fit inside the shoe



The individual fitting of each patient is our primary objective at Streifeneder.

In order to meet our clients' demands, we rely on top quality products and unfailing service.

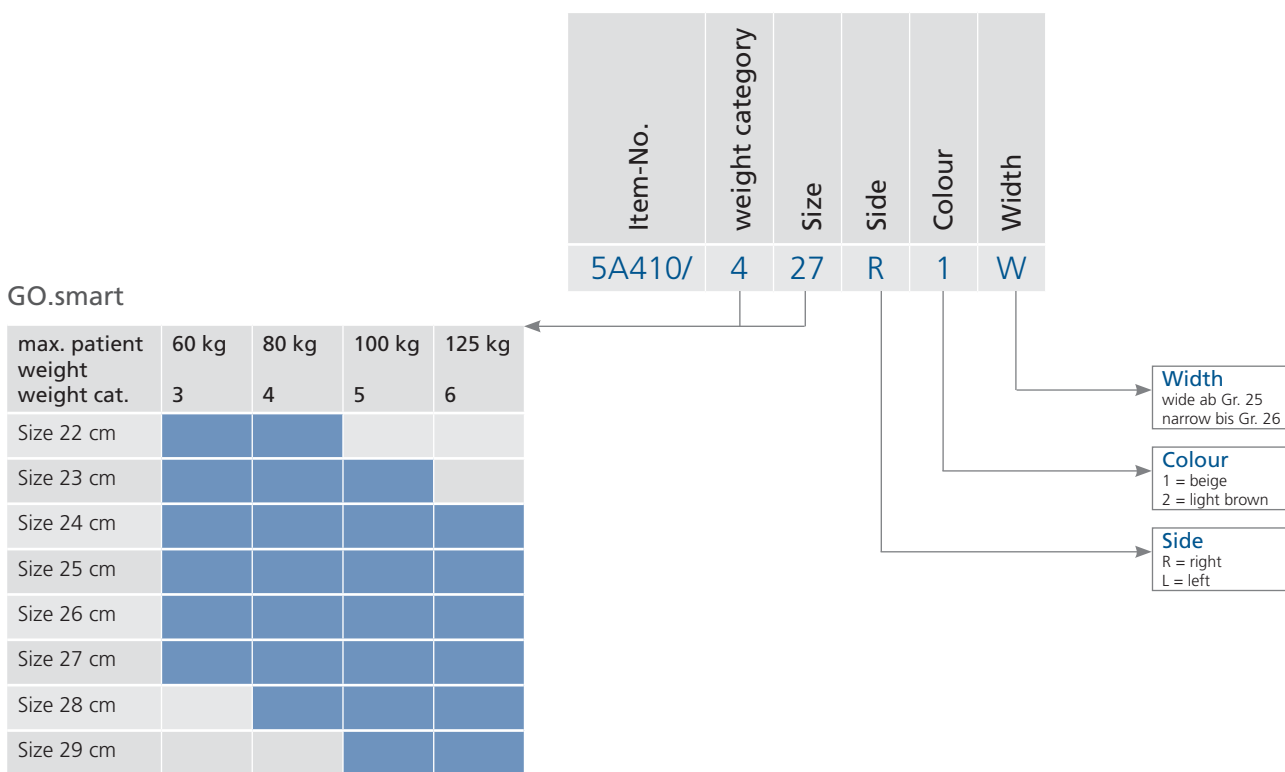
The prosthetic foot is subjected to high dynamic loads to which it must resist over a very long period of time without larger symptoms of wear or any change in its characteristics. Depending on the alignment of the prosthesis, the forefoot lever helps to increase the stability during stance phase or simplifies the toe rollover process. An energy-efficient walking is expected that includes safety, comfort and dynamic.

The requirements for a prosthetic foot, which are additionally influenced by the individual demands and feelings of the patient, eventually determine the selection of the foot.

# Carbon Foot Series GO.

The GO. prosthetic feet are an in-house development of Streifeneder ortho.production GmbH. The goal is to, in future, cover all Walky classes with the series and thus be able to optimally meet the requirements of every user. The first two prosthetic feet, GO.smart and GO.free are aimed at wearers with limited mobility who are active in everyday life. Both models are made of multi-layered carbon, which, with its unique properties and simultaneous stability and flexibility, is an absolute quality feature. An elastomer in the mid prosthetic foot area provides sufficient dynamics and ensures an intelligent interaction of both materials. The GO.free is supplied including a wedge set, which can be used to change and set the heel hardness at any time

For a quick and easy ordering process, the article numbers for the prosthetic feet and the accessories follow a uniform structure:



## GO.free

max. patient weight weight cat.	60 kg	80 kg	100 kg	125 kg	150 kg
weight cat.	3	4	5	6	7
Size 22 cm					
Size 23 cm					
Size 24 cm					
Size 25 cm					
Size 26 cm					
Size 27 cm					
Size 28 cm					
Size 29 cm					

# Prosthetic Feet – S.A.C.H.-Feet

S.A.C.H. stands for “Solid Ankle Cushioned Heel”. This essentially describes the mode of operation of the time-tested prosthetic foot. The classic S.A.C.H.-foot consists of a hard wooden core, a flexible foot-shaped part and a solidly foamed soft heel wedge. The combination of these components primarily results in a soft and comfortable heel strike.

The S.A.C.H.-foot is used in the endoskeletal as well as in the exoskeletal construction and represents in practice a reasonably priced supply possibility for amputees up to activity level 2.

Besides the very realistic form of the toes, our S.A.C.H.-feet are especially esteemed by patients and orthopaedic technicians for their robustness. The “allrounder” among prosthetic feet can also partially be used in swimming and wet areas and is therefore suitable for the construction of bathing prostheses. S.A.C.H.-feet are hardly susceptible to sand and dirt and can easily and rapidly be cleaned.









## GO.smart

carbon foot


- intelligent interaction between elastomer and carbon
- controlled dynamic properties
- wide basic spring for lateral stability
- prolonged full contact
- multi-axiality
- incl. foot shell and spectra-sock

### Technical data

- max. body weight up to 125 kg / 330 lbs. (depending on size)
- mobility class (walky): 1 to 2
- connection: pyramid
- heel height: 10 mm / 0,4"
- weight: 594 g (size 27 incl. foot shell and spectra-sock)
- construction height: size 22 – 25 cm = 61 mm, Größe 26 – 29 cm = 69 mm
- maintenance-free
- warranty: 24 months

Size	Side	Colour	Item-No.
22 – 26 cm	left	beige	5A410/..L1
22 – 26 cm	right	beige	5A410/..R1
25 – 29 cm	left	beige	5A410/..L1W
25 – 29 cm	right	beige	5A410/..R1W
22 – 26 cm	left	light brown	5A410/..L2
22 – 26 cm	right	light brown	5A410/..R2
25 – 29 cm	left	light brown	5A410/..L2W
25 – 29 cm	right	light brown	5A410/..R2W

Please indicate the size needed, for example 5A400/324L1 = size 24 cm, left, beige

 The letter "W" at the end of the item-number stands for wide foot shape especially for men

# Prosthetic Feet



## GO.free

carbon foot




- intelligent interaction between elastomer and carbon
- dynamic and natural gait pattern on various surfaces
- wide basic spring for lateral stability
- prolonged full contact
- multi-axiality
- flexible adjustment of heel hardness by heel wedges
- incl. foot shell and spectra-sock

### Technical data

- max. body weight up to 150 kg / 330 lbs. (depending on size)
- mobility class (walky): 3 bis 4
- connection: pyramid
- heel height: 10 mm / 0,4"
- weight: 660 g / lbs. (Gr. 27 incl. foot shell and spectra-sock)
- construction height: size 22 – 25 cm = 144 mm, size 26 – 29 cm = 155 mm
- maintenance-free
- warranty: 36 months

Size	Side	Colour	Item-No.
22 – 26 cm	left	beige	5A430/..L1
22 – 26 cm	right	beige	5A430/..R1
25 – 29 cm	left	beige	5A430/..L1W
25 – 29 cm	right	beige	5A430/..R1W
22 – 26 cm	left	light brown	5A430/..L2
22 – 26 cm	right	light brown	5A430/..R2
25 – 29 cm	left	light brown	5A430/..L2W
25 – 29 cm	right	light brown	5A430/..R2W

Please indicate the size needed, for example 5A400/324L1 = size 24 cm, left, beige

 The letter „W“ at the end of the item-number stands for wide foot shape especially for men



## Wedge set

for carbon foot GO.free

Size	Item-No.
22 – 25 cm	5A430/E31
26 – 29 cm	5A430/E32

## Foot Shell



colour: beige




colour: light brown

- incl. connection plate

Size	Side	Colour	Item-No.
22 – 26 cm	left	beige	5A400/X..L1
22 – 26 cm	right	beige	5A400/X..R1
25 – 29 cm	left	beige	5A400/X..L1W
25 – 29 cm	right	beige	5A400/X..R1W
22 – 26 cm	left	light brown	5A400/X..L2
22 – 26 cm	right	light brown	5A400/X..R2
25 – 29 cm	left	light brown	5A400/X..L2W
25 – 29 cm	right	light brown	5A400/X..R2W

Please indicate the size needed, for example 5A400/X24L1 = size 24 cm, left, beige

 The letter "W" at the end of the item-number stands for wide foot shape especially for men

## Spectra-sock

for carbon foot GO.

- black sock



Size	Quantity	Item-No.
22 – 25 cm	1 pc.	5A400/E11
22 – 25 cm	6 pcs.	5A400/E12
26 – 29 cm	1 pcs.	5A400/E13
26 – 29 cm	6 pcs.	5A400/E14

# Prosthetic Feet

## Connection plate

for carbon foot GO.



colour: beige



colour: light brown

Size	Side	Colour	Item-No.
22 – 25 cm	left	beige	5A400/E41
26 – 29 cm	left	beige	5A400/E42
22 – 25 cm	right	beige	5A400/E43
26 – 29 cm	right	beige	5A400/E44
22 – 25 cm	left	light brown	5A400/E45
26 – 29 cm	left	light brown	5A400/E46
22 – 25 cm	right	light brown	5A400/E47
26 – 29 cm	right	light brown	5A400/E48



## Geriatric S.A.C.H. Foot, light



- max. patient weight: 85 kg
- activity level (walky): 1
- heel height: 10 mm ± 2 mm
- with toes
- foot made of polyurethane
- core made of alder wood with bushing
- carbon-kevlar forefoot spring
- flat forefoot and flat heel for simple alignment

Size / weight	Side	Thread	Height	Item-No.
22 cm / 250 g	left	M10	70 mm	30A20/22L
22 cm / 250 g	right	M10	70 mm	30A20/22R
23 cm / 280 g	left	M10	70 mm	30A20/23L
23 cm / 280 g	right	M10	70 mm	30A20/23R
24 cm / 300 g	left	M10	70 mm	30A20/24L
24 cm / 300 g	right	M10	70 mm	30A20/24R
25 cm / 350 g	left	M10	75 mm	30A20/25L
25 cm / 350 g	right	M10	75 mm	30A20/25R
26 cm / 380 g	left	M10	75 mm	30A20/26L
26 cm / 380 g	right	M10	75 mm	30A20/26R
27 cm / 420 g	left	M10	75 mm	30A20/27L
27 cm / 420 g	right	M10	75 mm	30A20/27R
28 cm / 460 g	left	M10	80 mm	30A20/28L
28 cm / 460 g	right	M10	80 mm	30A20/28R
29 cm / 520 g	left	M10	85 mm	30A20/29L
29 cm / 520 g	right	M10	85 mm	30A20/29R



## Geriatric S.A.C.H. Foot, light, high heel

- max. patient weight: 85 kg
- activity level (walky): 1
- heel height: 18 mm ± 2 mm
- with toes
- foot made of polyurethane
- core made of alder wood with bushing
- carbon-kevlar forefoot spring
- heel is flat-convex
- flat forefoot for simple alignment

Size / weight	Side	Thread	Height	Item-No.
22 cm / 240 g	left	M10	70 mm	30A9/22L
22 cm / 240 g	right	M10	70 mm	30A9/22R
23 cm / 260 g	left	M10	70 mm	30A9/23L
23 cm / 260 g	right	M10	70 mm	30A9/23R
24 cm / 280 g	left	M10	70 mm	30A9/24L
24 cm / 280 g	right	M10	70 mm	30A9/24R
25 cm / 330 g	left	M10	75 mm	30A9/25L
25 cm / 330 g	right	M10	75 mm	30A9/25R
26 cm / 360 g	left	M10	75 mm	30A9/26L
26 cm / 360 g	right	M10	75 mm	30A9/26R
27 cm / 400 g	left	M10	75 mm	30A9/27L
27 cm / 400 g	right	M10	75 mm	30A9/27R
28 cm / 440 g	left	M10	80 mm	30A9/28L
28 cm / 440 g	right	M10	80 mm	30A9/28R
29 cm / 500 g	left	M10	85 mm	30A9/29L
29 cm / 500 g	right	M10	85 mm	30A9/29R



## S.A.C.H. Foot for Women, high heel

- max. patient weight: 100 kg
- activity level (walky): 1 to 2
- heel height: 35 mm ± 2 mm
- with enclosed heel wedge
- foot made of polyurethane
- core made of alder wood with bushing
- heel is flat-convex
- flat forefoot for simple alignment

Size / weight	Side	Thread	Height	Item-No.
23 cm / 360 g	left	M8	70 mm	30A4/23L
23 cm / 360 g	right	M8	70 mm	30A4/23R
24 cm / 395 g	left	M8	70 mm	30A4/24L
24 cm / 395 g	right	M8	70 mm	30A4/24R
25 cm / 440 g	left	M8	75 mm	30A4/25L
25 cm / 440 g	right	M8	75 mm	30A4/25R

# Prosthetic Feet



## S.A.C.H. Foot for Women, high heel, integrated heel wedge

- max. patient weight: 100 kg
- activity level (walky): 1 to 2
- heel height: 35 mm  $\pm$  2 mm
- with integrated heel wedge
- foot made of polyurethane
- core made of alder wood with bushing
- heel is flat-convex
- flat forefoot for simple alignment

Size / weight	Side	Thread	Height	Item-No.
23 cm / 350 g	left	M8	70 mm	30A2/23L
23 cm / 350 g	right	M8	70 mm	30A2/23R
24 cm / 380 g	left	M8	70 mm	30A2/24L
24 cm / 380 g	right	M8	70 mm	30A2/24R
25 cm / 420 g	left	M8	75 mm	30A2/25L
25 cm / 420 g	right	M8	75 mm	30A2/25R



## S.A.C.H. Foot for Men

- max. patient weight: 100 kg
- activity level (walky): 1 to 2
- heel height: 10 mm  $\pm$  2 mm
- with enclosed heel wedge
- foot made of polyurethane
- core made of alder wood with bushing
- flat forefoot and flat heel for simple alignment

Size / weight	Side	Thread	Height	Item-No.
22 cm / 300 g	left	M10	70 mm	30A21/22L
22 cm / 300 g	right	M10	70 mm	30A21/22R
23 cm / 365 g	left	M10	70 mm	30A21/23L
23 cm / 365 g	right	M10	70 mm	30A21/23R
24 cm / 400 g	left	M10	70 mm	30A21/24L
24 cm / 400 g	right	M10	70 mm	30A21/24R
25 cm / 445 g	left	M10	75 mm	30A21/25L
25 cm / 445 g	right	M10	75 mm	30A21/25R
26 cm / 500 g	left	M10	75 mm	30A21/26L
26 cm / 500 g	right	M10	75 mm	30A21/26R
27 cm / 535 g	left	M10	75 mm	30A21/27L
27 cm / 535 g	right	M10	75 mm	30A21/27R
28 cm / 600 g	left	M10	80 mm	30A21/28L
28 cm / 600 g	right	M10	80 mm	30A21/28R
29 cm / 670 g	left	M10	85 mm	30A21/29L
29 cm / 670 g	right	M10	85 mm	30A21/29R



## S.A.C.H. Foot for Men, high heel

- max. patient weight: 100 kg
- activity level (walky): 1 to 2
- heel height: 18 mm ± 2 mm
- with enclosed heel wedge
- foot made of polyurethane
- core made of alder wood with bushing
- heel is flat-convex
- flat forefoot for simple alignment

Size / weight	Side	Thread	Height	Item-No.
22 cm / 295 g	left	M10	70 mm	30A5/22L
22 cm / 295 g	right	M10	70 mm	30A5/22R
23 cm / 360 g	left	M10	70 mm	30A5/23L
23 cm / 360 g	right	M10	70 mm	30A5/23R
24 cm / 395 g	left	M10	70 mm	30A5/24L
24 cm / 395 g	right	M10	70 mm	30A5/24R
25 cm / 440 g	left	M10	75 mm	30A5/25L
25 cm / 440 g	right	M10	75 mm	30A5/25R
26 cm / 495 g	left	M10	75 mm	30A5/26L
26 cm / 495 g	right	M10	75 mm	30A5/26R
27 cm / 530 g	left	M10	75 mm	30A5/27L
27 cm / 530 g	right	M10	75 mm	30A5/27R
28 cm / 595 g	left	M10	80 mm	30A5/28L
28 cm / 595 g	right	M10	80 mm	30A5/28R
29 cm / 660 g	left	M10	85 mm	30A5/29L
29 cm / 660 g	right	M10	85 mm	30A5/29R

# Prosthetic Feet



## S.A.C.H. Foot for Men, integrated heel wedge

- max. patient weight: 100 kg
- activity level (walky): 1 to 2
- heel height: 18 mm ± 2 mm
- with integrated heel wedge
- foot made of polyurethane
- core made of alder wood with bushing
- heel is flat-convex
- flat forefoot for simple alignment

Size / weight	Side	Thread	Height	Item-No.
22 cm / 290 g	left	M8	70 mm	30A3/22L
22 cm / 290 g	right	M8	70 mm	30A3/22R
23 cm / 350 g	left	M10	70 mm	30A3/23L
23 cm / 350 g	right	M10	70 mm	30A3/23R
24 cm / 380 g	left	M10	70 mm	30A3/24L
24 cm / 380 g	right	M10	70 mm	30A3/24R
25 cm / 420 g	left	M10	75 mm	30A3/25L
25 cm / 420 g	right	M10	75 mm	30A3/25R
26 cm / 480 g	left	M10	75 mm	30A3/26L
26 cm / 480 g	right	M10	75 mm	30A3/26R
27 cm / 520 g	left	M10	75 mm	30A3/27L
27 cm / 520 g	right	M10	75 mm	30A3/27R
28 cm / 580 g	left	M10	80 mm	30A3/28L
28 cm / 580 g	right	M10	80 mm	30A3/28R
29 cm / 640 g	left	M10	85 mm	30A3/29L
29 cm / 640 g	right	M10	85 mm	30A3/29R



## S.A.C.H. Foot for Men, up to 150 kg

- max. patient weight: 150 kg
- activity level (walky): 1 to 2
- heel height: 18 mm ± 2 mm
- carbon-frame with internal spring
- foot made of polyurethane
- with dorsal plastic insert
- heel is flat-convex
- flat forefoot for simple alignment
- use only in combination with SACH-Foot-Adapter 16A9/M10

Size / weight	Side	Thread	Height	Item-No.
23 cm / 520 g	left	M10	70 mm	30A150/23L
23 cm / 520 g	right	M10	70 mm	30A150/23R
24 cm / 550 g	left	M10	70 mm	30A150/24L
24 cm / 550 g	right	M10	70 mm	30A150/24R
25 cm / 585 g	left	M10	75 mm	30A150/25L
25 cm / 585 g	right	M10	75 mm	30A150/25R
26 cm / 630 g	left	M10	75 mm	30A150/26L
26 cm / 630 g	right	M10	75 mm	30A150/26R
27 cm / 680 g	left	M10	75 mm	30A150/27L
27 cm / 680 g	right	M10	75 mm	30A150/27R
28 cm / 730 g	left	M10	80 mm	30A150/28L
28 cm / 730 g	right	M10	80 mm	30A150/28R
29 cm / 790 g	left	M10	85 mm	30A150/29L
29 cm / 790 g	right	M10	85 mm	30A150/29R





## S.A.C.H. Foot for Men up to 150 kg with Adapter



- max. patient weight: 150 kg
- activity level (walky): 1 to 2
- heel height: 18 mm ± 2 mm
- with glued S.A.C.H. Foot Adapter 16A9/M10
- carbon-frame with internal spring
- foot made of polyurethane
- with dorsal plastic insert
- heel is flat-convex
- flat forefoot for simple alignment

Size / weight	Side	Thread	Height	Item-No.
23 cm / 520 g	left	M10	70 mm	30A151/23L
23 cm / 520 g	right	M10	70 mm	30A151/23R
24 cm / 550 g	left	M10	70 mm	30A151/24L
24 cm / 550 g	right	M10	70 mm	30A151/24R
25 cm / 585 g	left	M10	75 mm	30A151/25L
25 cm / 585 g	right	M10	75 mm	30A151/25R
26 cm / 630 g	left	M10	75 mm	30A151/26L
26 cm / 630 g	right	M10	75 mm	30A151/26R
27 cm / 680 g	left	M10	75 mm	30A151/27L
27 cm / 680 g	right	M10	75 mm	30A151/27R
28 cm / 730 g	left	M10	80 mm	30A151/28L
28 cm / 730 g	right	M10	80 mm	30A151/28R
29 cm / 790 g	left	M10	85 mm	30A151/29L
29 cm / 790 g	right	M10	85 mm	30A151/29R



## S.A.C.H. Foot for Men up to 175 kg with Adapter



- max. patient weight: 175 kg
- activity level (walky): 1 to 2
- heel height: 18 mm ± 2 mm
- with glued S.A.C.H. Foot Adapter 16A6/M10
- carbon-frame with internal spring
- foot made of polyurethane
- heel is flat-convex
- flat forefoot for simple alignment

Size	Side	Thread	Height	Item-No.
25 cm	left	M10	80 mm	30A175/25L
25 cm	right	M10	80 mm	30A175/25R
26 cm	left	M10	80 mm	30A175/26L
26 cm	right	M10	80 mm	30A175/26R
27 cm	left	M10	85 mm	30A175/27L
27 cm	right	M10	85 mm	30A175/27R
28 cm	left	M10	85 mm	30A175/28L
28 cm	right	M10	85 mm	30A175/28R
29 cm	left	M10	90 mm	30A175/29L
29 cm	right	M10	90 mm	30A175/29R

# Prosthetic Feet



## S.A.C.H. Foot for Men up to 225 kg, with glued S.A.C.H. Foot Adapter

- max. patient weight: 225 kg
- activity level (walky): 1
- heel height: 10 mm  $\pm$  2 mm
- with glued S.A.C.H. Foot Adapter 16A7/M14
- carbon-frame with internal spring
- foot made of polyurethane
- heel is flat-convex
- flat forefoot for simple alignment

Size	Side	Thread	Height	Item-No.
25 cm	left	M14	80 mm	30A225/25L
25 cm	right	M14	80 mm	30A225/25R
26 cm	left	M14	80 mm	30A225/26L
26 cm	right	M14	80 mm	30A225/26R
27 cm	left	M14	85 mm	30A225/27L
27 cm	right	M14	85 mm	30A225/27R
28 cm	left	M14	85 mm	30A225/28L
28 cm	right	M14	85 mm	30A225/28R
29 cm	left	M14	90 mm	30A225/29L
29 cm	right	M14	90 mm	30A225/29R
30 cm	left	M14	90 mm	30A225/30L
30 cm	right	M14	90 mm	30A225/30R



## Dynamic S.A.C.H. Foot with Split Toe

- max. patient weight: 125 kg
- activity level (walky): 1 to 2
- heel height: 10 mm ± 5 mm
- with split toe
- foot made of polyurethane
- core made of alder wood with bushing
- comfortable heel strike
- toe roll-over smoother than ordinary Streifeneder-S.A.C.H.-feet
- dynamic return of the fore foot through innovative foam technology

Size / weight	Side	Thread	Height	Item-No.
22 cm / 290 g	left	M10	70 mm	30A27/22L
22 cm / 290 g	right	M10	70 mm	30A27/22R
23 cm / 310 g	left	M10	70 mm	30A27/23L
23 cm / 310 g	right	M10	70 mm	30A27/23R
24 cm / 350 g	left	M10	70 mm	30A27/24L
24 cm / 350 g	right	M10	70 mm	30A27/24R
25 cm / 385 g	left	M10	75 mm	30A27/25L
25 cm / 385 g	right	M10	75 mm	30A27/25R
26 cm / 480 g	left	M10	75 mm	30A27/26L
26 cm / 480 g	right	M10	75 mm	30A27/26R
27 cm / 500 g	left	M10	75 mm	30A27/27L
27 cm / 500 g	right	M10	75 mm	30A27/27R
28 cm / 560 g	left	M10	80 mm	30A27/28L
28 cm / 560 g	right	M10	80 mm	30A27/28R
29 cm / 600 g	left	M10	80 mm	30A27/29L
29 cm / 600 g	right	M10	80 mm	30A27/29R
30 cm / 680 g	left	M10	80 mm	30A27/30L
30 cm / 680 g	right	M10	80 mm	30A27/30R

# Prosthetic Feet



## S.A.C.H. Foot for Bathing

- max. patient weight: 100 kg
- activity level (walky): 1 to 2
- heel height: 10 mm ± 2 mm
- suitable for bathing/swimming prostheses
- foot made of PUR with waterproof coating of wooden surface
- core made of alder wood with bushing
- and pressure-cast heel wedge
- heel is flat-convex

Size / weight	Side	Thread	Height	Item-No.
22 cm / 310 g	left	M10	70 mm	30A6/22L
22 cm / 310 g	right	M10	70 mm	30A6/22R
23 cm / 370 g	left	M10	70 mm	30A6/23L
23 cm / 370 g	right	M10	70 mm	30A6/23R
24 cm / 420 g	left	M10	70 mm	30A6/24L
24 cm / 420 g	right	M10	70 mm	30A6/24R
25 cm / 450 g	left	M10	75 mm	30A6/25L
25 cm / 450 g	right	M10	75 mm	30A6/25R
26 cm / 500 g	left	M10	75 mm	30A6/26L
26 cm / 500 g	right	M10	75 mm	30A6/26R
27 cm / 540 g	left	M10	75 mm	30A6/27L
27 cm / 540 g	right	M10	75 mm	30A6/27R
28 cm / 620 g	left	M10	80 mm	30A6/28L
28 cm / 620 g	right	M10	80 mm	30A6/28R
29 cm / 650 g	left	M10	85 mm	30A6/29L
29 cm / 650 g	right	M10	85 mm	30A6/29R



## Single-Axis-Foot for Women, high heel

- max. patient weight: 100 kg
- activity level (walky): 1
- heel height: 25-35 mm
- foot made of polyurethane
- core made of alder wood
- forefoot is flat-convex
- recommended Single-Axis-Foot Adapter: 32A1, 32A2, 32A3, 32A4

Size / weight	Side	Adapter	Height	Item-No.
23 cm / 310 g	left	22 – 25	36 mm	30A16/23L
23 cm / 310 g	right	22 – 25	36 mm	30A16/23R
24 cm / 330 g	left	22 – 25	38 mm	30A16/24L
24 cm / 330 g	right	22 – 25	38 mm	30A16/24R
25 cm / 370 g	left	22 – 25	40 mm	30A16/25L
25 cm / 370 g	right	22 – 25	40 mm	30A16/25R



## Geriatric-Single-Axis-Foot, light, high heel

- max. patient weight: 75 kg
- activity level (walky): 1
- heel height: 15-25 mm
- foot made of polyurethane
- core made of alder wood
- carbon-kevlar forefoot spring
- forefoot is flat-convex
- recommended Single-Axis-Foot Adapter 32A2 and 32A3

Size / weight	Side	Adapter	Height	Item-No.
22 cm / 195 g	left	22 – 25	36 mm	30A13/22L
22 cm / 195 g	right	22 – 25	36 mm	30A13/22R
23 cm / 225 g	left	22 – 25	36 mm	30A13/23L
23 cm / 225 g	right	22 – 25	36 mm	30A13/23R
24 cm / 275 g	left	22 – 25	38 mm	30A13/24L
24 cm / 275 g	right	22 – 25	38 mm	30A13/24R
25 cm / 300 g	left	22 – 25	40 mm	30A13/25L
25 cm / 300 g	right	22 – 25	40 mm	30A13/25R
26 cm / 365 g	left	26 – 30	40 mm	30A13/26L
26 cm / 365 g	right	26 – 30	40 mm	30A13/26R
27 cm / 390 g	left	26 – 30	40 mm	30A13/27L
27 cm / 390 g	right	26 – 30	40 mm	30A13/27R
28 cm / 450 g	left	26 – 30	42 mm	30A13/28L
28 cm / 450 g	right	26 – 30	42 mm	30A13/28R
29 cm / 490 g	left	26 – 30	42 mm	30A13/29L
29 cm / 490 g	right	26 – 30	42 mm	30A13/29R



## Single-Axis-Foot for Men, high heel

- max. patient weight: 100 kg
- activity level (walky): 1
- heel height: 15-25 mm
- foot made of polyurethane
- core made of alder wood
- forefoot is flat-convex
- recommended Single-Axis-Foot Adapter: 32A1, 32A2, 32A3, 32A4

Size / weight	Side	Adapter	Height	Item-No.
23 cm / 310 g	left	22 – 25	36 mm	30A15/23L
23 cm / 310 g	right	22 – 25	36 mm	30A15/23R
24 cm / 330 g	left	22 – 25	38 mm	30A15/24L
24 cm / 330 g	right	22 – 25	38 mm	30A15/24R
25 cm / 370 g	left	22 – 25	40 mm	30A15/25L
25 cm / 370 g	right	22 – 25	40 mm	30A15/25R
26 cm / 430 g	left	26 – 30	40 mm	30A15/26L
26 cm / 430 g	right	26 – 30	40 mm	30A15/26R
27 cm / 470 g	left	26 – 30	40 mm	30A15/27L
27 cm / 470 g	right	26 – 30	40 mm	30A15/27R
28 cm / 500 g	left	26 – 30	42 mm	30A15/28L
28 cm / 500 g	right	26 – 30	42 mm	30A15/28R
29 cm / 520 g	left	26 – 30	42 mm	30A15/29L
29 cm / 520 g	right	26 – 30	42 mm	30A15/29R

# Prosthetic Feet



## Single-Axis-Foot for Men

- max. patient weight: 100 kg
- activity level (walky): 1
- heel height: 10 mm
- foot made of polyurethane
- core made of alder wood
- forefoot is flat-convex
- recommended Single-Axis-Foot Adapter: 32A1, 32A2, 32A3, 32A4


Size / weight	Side	Adapter	Height	Item-No.
22 cm / 260 g	left	22 – 25	36 mm	30A14/22L
22 cm / 260 g	right	22 – 25	36 mm	30A14/22R
23 cm / 310 g	left	22 – 25	36 mm	30A14/23L
23 cm / 310 g	right	22 – 25	36 mm	30A14/23R
24 cm / 330 g	left	22 – 25	38 mm	30A14/24L
24 cm / 330 g	right	22 – 25	38 mm	30A14/24R
25 cm / 370 g	left	22 – 25	40 mm	30A14/25L
25 cm / 370 g	right	22 – 25	40 mm	30A14/25R
26 cm / 430 g	left	26 – 30	40 mm	30A14/26L
26 cm / 430 g	right	26 – 30	40 mm	30A14/26R
27 cm / 470 g	left	26 – 30	40 mm	30A14/27L
27 cm / 470 g	right	26 – 30	40 mm	30A14/27R
28 cm / 500 g	left	26 – 30	42 mm	30A14/28L
28 cm / 500 g	right	26 – 30	42 mm	30A14/28R
29 cm / 550 g	left	26 – 30	42 mm	30A14/29L
29 cm / 550 g	right	26 – 30	42 mm	30A14/29R



## Foot without Joint

- max. patient weight: 100 kg
- activity level (walky): 1
- heel height: 18 mm
- foot made of polyurethane
- separate alder wood ankle block, bondable
- and separate soft heel wedge, bondable

Size	Side	Item-No.
22 cm	left	30A19/22L
22 cm	right	30A19/22R
23 cm	left	30A19/23L
23 cm	right	30A19/23R
24 cm	left	30A19/24L
24 cm	right	30A19/24R
25 cm	left	30A19/25L
25 cm	right	30A19/25R
26 cm	left	30A19/26L
26 cm	right	30A19/26R
27 cm	left	30A19/27L
27 cm	right	30A19/27R
28 cm	left	30A19/28L
28 cm	right	30A19/28R
29 cm	left	30A19/29L
29 cm	right	30A19/29R

 For bonding, we recommend item 118P11/T with cross linker/hardener 118P23.


# Prosthetic Feet



## Pirogoff-Foot

- max. patient weight: 100 kg
- activity level (walky): 1
- heel height 15 mm
- foot made of polyurethane
- separate alder wood ankle block, bondable

Size	Side	Item-No.
22 cm	left	30A18/22L
22 cm	right	30A18/22R
23 cm	left	30A18/23L
23 cm	right	30A18/23R
24 cm	left	30A18/24L
24 cm	right	30A18/24R
25 cm	left	30A18/25L
25 cm	right	30A18/25R
26 cm	left	30A18/26L
26 cm	right	30A18/26R
27 cm	left	30A18/27L
27 cm	right	30A18/27R
28 cm	left	30A18/28L
28 cm	right	30A18/28R
29 cm	left	30A18/29L
29 cm	right	30A18/29R

 For bonding, we recommend item 118P11/T with cross linker/hardener 118P23.





## S.A.C.H. Foot for Men with Split Toe, integrated heel wedge

- max. patient weight: 80 kg = size 22-25
- max. patient weight: 95 kg = size 26-30
- activity level (walky): 1 to 2
- heel height: 10 mm  $\pm$  2 mm
- with split toe
- with integrated heel wedge
- foot made of polyurethane
- core made of alder wood with bushing
- heel is flat-convex
- flat forefoot for simple alignment

Size / weight	Side	Thread	Height	Item-No.
22 cm / 290 g	left	M10	70 mm	30A23/22L
22 cm / 290 g	right	M10	70 mm	30A23/22R
23 cm / 350 g	left	M10	70 mm	30A23/23L
23 cm / 350 g	right	M10	70 mm	30A23/23R
24 cm / 380 g	left	M10	70 mm	30A23/24L
24 cm / 380 g	right	M10	70 mm	30A23/24R
25 cm / 420 g	left	M10	75 mm	30A23/25L
25 cm / 420 g	right	M10	75 mm	30A23/25R
26 cm / 480 g	left	M10	75 mm	30A23/26L
26 cm / 480 g	right	M10	75 mm	30A23/26R
27 cm / 520 g	left	M10	75 mm	30A23/27L
27 cm / 520 g	right	M10	75 mm	30A23/27R
28 cm / 580 g	left	M10	80 mm	30A23/28L
28 cm / 580 g	right	M10	80 mm	30A23/28R
29 cm / 640 g	left	M10	80 mm	30A23/29L
29 cm / 640 g	right	M10	80 mm	30A23/29R
30 cm / 700 g	left	M10	80 mm	30A23/30L
30 cm / 700 g	right	M10	80 mm	30A23/30R

# Prosthetic Feet



## S.A.C.H. Foot for Men with Split Toe

- max. patient weight: 80 kg = size 22-25
- max. patient weight: 95 kg = size 26-30
- activity level (walky): 1 to 2
- heel height: 10 mm ± 2 mm
- with split toe
- foot made of polyurethane
- core made of alder wood with bushing
- flat forefoot for simple alignment

Size / weight	Side	Thread	Height	Item-No.
22 cm / 300 g	left	M10	70 mm	30A24/22L
22 cm / 300 g	right	M10	70 mm	30A24/22R
23 cm / 365 g	left	M10	70 mm	30A24/23L
23 cm / 365 g	right	M10	70 mm	30A24/23R
24 cm / 400 g	left	M10	70 mm	30A24/24L
24 cm / 400 g	right	M10	70 mm	30A24/24R
25 cm / 445 g	left	M10	75 mm	30A24/25L
25 cm / 445 g	right	M10	75 mm	30A24/25R
26 cm / 500 g	left	M10	75 mm	30A24/26L
26 cm / 500 g	right	M10	75 mm	30A24/26R
27 cm / 535 g	left	M10	75 mm	30A24/27L
27 cm / 535 g	right	M10	75 mm	30A24/27R
28 cm / 600 g	left	M10	80 mm	30A24/28L
28 cm / 600 g	right	M10	80 mm	30A24/28R
29 cm / 670 g	left	M10	80 mm	30A24/29L
29 cm / 670 g	right	M10	80 mm	30A24/29R
30 cm / 730 g	left	M10	80 mm	30A24/30L
30 cm / 730 g	right	M10	80 mm	30A24/30R



## S.A.C.H. Foot for Men with Split Toe

- max. patient weight: 80 kg = size 22-25
- max. patient weight: 95 kg = size 26-30
- activity level (walky): 1 to 2
- colour: dark brown
- heel height: 10 mm ± 2 mm
- with split toe
- foot made of polyurethane
- core made of alder wood with bushing
- flat forefoot for simple alignment

Size / weight	Side	Thread	Height	Item-No.
22 cm / 300 g	left	M10	70 mm	30A25/22L
22 cm / 300 g	right	M10	70 mm	30A25/22R
23 cm / 365 g	left	M10	70 mm	30A25/23L
23 cm / 365 g	right	M10	70 mm	30A25/23R
24 cm / 400 g	left	M10	70 mm	30A25/24L
24 cm / 400 g	right	M10	70 mm	30A25/24R
25 cm / 445 g	left	M10	75 mm	30A25/25L
25 cm / 445 g	right	M10	75 mm	30A25/25R
26 cm / 500 g	left	M10	75 mm	30A25/26L
26 cm / 500 g	right	M10	75 mm	30A25/26R
27 cm / 535 g	left	M10	75 mm	30A25/27L
27 cm / 535 g	right	M10	75 mm	30A25/27R
28 cm / 600 g	left	M10	80 mm	30A25/28L
28 cm / 600 g	right	M10	80 mm	30A25/28R
29 cm / 670 g	left	M10	80 mm	30A25/29L
29 cm / 670 g	right	M10	80 mm	30A25/29R
30 cm / 730 g	left	M10	80 mm	30A25/30L
30 cm / 730 g	right	M10	80 mm	30A25/30R

# Prosthetic Feet



## S.A.C.H.-Foot for Men with ultra-reinforced technical polymer core

- max. patient weight: 100 kg
- activity level (walky): 1 to 2
- with split toe, with ultra-reinforced technical polymer core
- foot made of polyurethane
- flat forefoot with heel for simple alignment
- suitable for bathing/swimming prostheses

Size / weight	Side	Thread	Height	Item-No.
22 cm / 360 g	left	M10	70 mm	30A30/22L
22 cm / 360 g	right	M10	70 mm	30A30/22R
23 cm / 390 g	left	M10	70 mm	30A30/23L
23 cm / 390 g	right	M10	70 mm	30A30/23R
24 cm / 440 g	left	M10	70 mm	30A30/24L
24 cm / 440 g	right	M10	70 mm	30A30/24R
25 cm / 500 g	left	M10	75 mm	30A30/25L
25 cm / 500 g	right	M10	75 mm	30A30/25R
26 cm / 540 g	left	M10	75 mm	30A30/26L
26 cm / 540 g	right	M10	75 mm	30A30/26R
27 cm / 570 g	left	M10	75 mm	30A30/27L
27 cm / 570 g	right	M10	75 mm	30A30/27R
28 cm / 670 g	left	M10	80 mm	30A30/28L
28 cm / 670 g	right	M10	80 mm	30A30/28R
29 cm / 700 g	left	M10	80 mm	30A30/29L
29 cm / 700 g	right	M10	80 mm	30A30/29R



## S.A.C.H.-Foot for Men with ultra-reinforced technical polymer core

- max. patient weight: 100 kg
- activity level (walky): 1 to 2
- with ultra-reinforced technical polymer core
- foot made of polyurethane
- flat forefoot with heel for simple alignment
- suitable for bathing/swimming prostheses

Size / weight	Side	Thread	Height	Item-No.
23 cm / 400 g	left	M10	70 mm	30A31/23L
23 cm / 400 g	right	M10	70 mm	30A31/23R
24 cm / 450 g	left	M10	70 mm	30A31/24L
24 cm / 450 g	right	M10	70 mm	30A31/24R
25 cm / 500 g	left	M10	75 mm	30A31/25L
25 cm / 500 g	right	M10	75 mm	30A31/25R
26 cm / 550 g	left	M10	75 mm	30A31/26L
26 cm / 550 g	right	M10	75 mm	30A31/26R
27 cm / 600 g	left	M10	75 mm	30A31/27L
27 cm / 600 g	right	M10	75 mm	30A31/27R
28 cm / 650 g	left	M10	80 mm	30A31/28L
28 cm / 650 g	right	M10	80 mm	30A31/28R

## S.A.C.H. Foot Adapter -Aluminum-



- complete with bolted connection
- steel screw

Weight	Thread	Eff. height	max. ↑kg	Item-No.
78 g	M8	9 mm	100 kg	16A1/M8
92 g	M10	9 mm	100 kg	16A1/M10


 For bonding the adapter we recommend item 118P32.

## S.A.C.H. Foot Adapter -Titanium-



- complete with bolted connection
- screw M8/titanium
- screw M10/steel

Weight	Thread	Eff. height	max. ↑kg	Item-No.
64 g	M8	9 mm	100 kg	16A6/M8
71 g	M10	9 mm	175 kg	16A6/M10


 For bonding the adapter we recommend item 118P32.

## S.A.C.H. Foot Adapter -Stainless Steel-



- complete with bolted connection
- stainless steel
- steel screw
- S.A.C.H. foot adapter 16A9/M10 is exclusively for the S.A.C.H. foot 30A150 for men

Weight	Thread	Eff. height	max. ↑kg	Item-No.
118 g	M8	9 mm	100 kg	16A2/M8
128 g	M10	9 mm	125 kg	16A2/M10
133 g	M10	9 mm	150 kg	16A9/M10


 For bonding the adapter we recommend item 118P32.

## S.A.C.H. Foot Adapter -Titanium-



- modular system oversize for 225 kg
- for adapter with large adjustment core
- complete with bolted connection
- steel screw with fine thread M14x1,5
- usage only in combination with screw adapter 11A225/T

Material	Weight	Eff. height	max. ↑kg	Item-No.
Titanium	194 kg	9 mm	225 kg	16A7/M14

 Modular system for 225 kg! For bonding the adapter we recommend article 118P32.

# Prosthetic Feet



## Bolted Connection for S.A.C.H. Foot

- consists of: 1 socket cap screw, 1 washer, 1 serrated lock washer


For adapter	Material	Thread	Item-No.
16A2/M8	Steel	M8	16A2/E8
16A2/M10	Steel	M10	16A2/E10



## S.A.C.H. Foot Connection Disc

- made of plastic
- to be bonded to cosmetic soft foam cover and affixed onto the S.A.C.H. foot adapter

S.a.c.h. foot adapter	Weight	Item-No.
16A1/M8	12 g	29A1
16A1/M10	12 g	
16A2/M8	12 g	
16A2/M10	12 g	
16A6/M8	12 g	
16A6/M10	12 g	

 For bonding we recommend 118P12.



## Single-Axis-Foot Adapter -Aluminum-

- with lower bearing shell, plantar flexion bumper and including a dorsal flexion bumper 32A6/D10

Foot size	Weight	Eff. height	max. ↑ kg	Item-No.
22-25 cm	207 g	33 mm	100 kg	32A2/22-25
26-30 cm	218 g	33 mm	100 kg	32A2/26-30

 The adjustment of the heel height and of the dorsal flexion can be varied with different dorsal flexion bumpers like 32A1/D12 and 32A1/D14.



## Single-Axis-Foot Adapter -Titanium-

- with lower bearing shell, plantar flexion bumper and including a dorsal flexion bumper 32A6/D5

Foot size	Weight	Eff. height	max. ↑ kg	Item-No.
22-25 cm	199 g	27 mm	100 kg	32A3/22-25
26-30 cm	208 g	27 mm	100 kg	32A3/26-30

 The adjustment of the heel height and of the dorsal flexion can be varied with different dorsal flexion bumpers like 32A1/D10 and 32A1/D12.



## Single-Axis-Foot Adapter -Steel-

- with lower bearing shell, plantar flexion bumper and including a dorsal flexion bumper 32A6/D5

Foot size	Weight	Eff. height	max. ↑kg	Item-No.
22-25 cm	305 g	27 mm	100 kg	32A4/22-25
26-30 cm	320 g	27 mm	100 kg	32A4/26-30

**J** The adjustment of the heel height and of the dorsal flexion can be varied with different dorsal flexion bumpers like 32A1/D10 and 32A1/D12.



## Dorsal Flexion Bumper

- for single-axis-foot adapter 32A2, 32A3 and 32A4
- for adjustment of heel height and dorsal flexion
- each size 1 soft and 1 hard bumper

Foot size	Height	Flexion	Item-No.
22-30 cm	5 mm	soft + hard	32A6/D5
22-30 cm	10 mm	soft + hard	32A6/D10



## Connection Cap

- for single-axis-foot adapter
- made of plastic with slot for easier insertion
- suitable for 32A2, 32A3 and 32A4

Foot size	Weight	Item-No.
22 cm	10 g	32A5/22
23 cm	11 g	32A5/23
24 cm	12 g	32A5/24
25 cm	13 g	32A5/25
26 cm	14 g	32A5/26
27 cm	15 g	32A5/27
28 cm	16 g	32A5/28
29 cm	17 g	32A5/29

**J** Bond to cosmetic soft foam cover with Listra Fix Adhesive 118P12 and clip on foot.



## Service Parts Set

- for single-axis-foot adapter 32A2, 32A3 and 32A4

Set consists of	Item-No.
1 x two-hole steel washer, oval	32A6/E
1 x lower bearing shell	
1 x plantar flexion bumper - soft, green	
1 x plantar flexion bumper - medium, red	
1 x plantar flexion bumper - hard, blue	

# Prosthetic Feet



## Bearing Seat

- for single-axis-foot adapter 32A2, 32A3 and 32A4


	Item-No.
	32A2/E4



## Universal Foot Adapter - Stainless Steel -

- complete for single-axis feet
- effective height (EH) incl. thread length
- use in connection with ankle block 31A3 and 31A4
- maintenance free

Foot size	Weight	Eff. height	max. ↑ kg	Item-No.
23 - 30 cm	195 g	97 mm	100 kg	32A1

 Please order the dorsal flexion bumper 32A1/D and the plantar flexion bumper 32A1/F separately.



## Connection Cap

- for single-axis-feet
- consisting of polyurethane
- fits snugly onto the standard joint

Foot size	Item-No.
23 - 24 cm	32A11/2-3
25 - 26 cm	32A11/4-5
27 - 28 cm	32A11/6-7



## Dorsal Flexion Bumper

- for single-axis-foot adapter 32A1/23-30
- and for universal foot adapter 32A1
- in connection with ankle block 31A3 and 31A4 for adjustment of heel height and dorsal flexion

Flexion	Height	Item-No.
less	10 mm	32A1/D10
standard	12 mm	32A1/D12
more	14 mm	32A1/D14



## Plantar Flexion Bumper

- for single-axis-foot adapter 32A1/23-30
- and for universal foot adapter 32A1
- made of rubber

Foot size	Diameter	Item-No.
22 - 25 cm	23 mm	32A1/F23
26 - 30 cm	27 mm	32A1/F27





## Ankle Block made of poplar wood

- complete with bolted connection in steel
- suitable for left and right side
- spare socket cap screw M8 x90 mm, steel 22A2/M8
- spare socket cap screw M10 x 90 mm, steel 22A2/M10

Foot size	Thread	Height	max. ↑ kg	Item-No.
up to 25 cm with M8	M8 x 90 mm	118 mm	100 kg	31A2/M8
up to 28 cm with M10	M10 x 90 mm	118 mm	100 kg	31A2/M10

 Suitable for all S.A.C.H. feet and all dynamic feet!



## Ankle Block -PUR- light

- max. patient weight: 100 kg
- complete with bolted connection in steel
- suitable for left and right side
- spare socket cap screw M8, zinc-plated 90 mm 22A2/M8
- spare socket cap screw M10, zinc-plated 90 mm 22A2/M10

Foot size	Thread	Height	max. ↑ kg	Item-No.
up to 25 cm with M8	M8 x 90 mm	116 mm	100 kg	31A1/M8
up to 28 cm with M10	M10 x 90 mm	116 mm	100 kg	31A1/M10
up to 30 cm with M10	M10 x 90 mm	116 mm	100 kg	31A1/M10L

 Suitable for all S.A.C.H. feet and all dynamic feet!



## Bolted Connection Set

- for ankle block 31A1 and 31A2
- consists of: 1 drive-in nut, 1 hex socket cap screw (22A2/M8 or 22A2/M10), 1 x washer

Material	Weight	Thread x length	Item-No.
Steel	45 g	M8 x 85 mm	31A1/E8
Steel	65 g	M10 x 90 mm	31A1/E10



## Socket Cap Screw -Titanium-

- suitable for 31A1 and 31A2
- for weight reduction

Material	Weight	Thread x length	Item-No.
Titanium	25 g	M8 x 85 mm	22A3/8x85
Titanium	35 g	M10 x 90 mm	22A3/10x90



## Ankle Block - PUR - Light

- for all single-axis feet
- use in connection with a universal foot adapter 32A1

Foot size	Side	Height	max. $\uparrow$ kg	Item-No.
22 cm	left	155 mm	100 kg	31A4/22L
22 cm	right	155 mm	100 kg	31A4/22R
23 cm	left	155 mm	100 kg	31A4/23L
23 cm	right	155 mm	100 kg	31A4/23R
24 cm	left	155 mm	100 kg	31A4/24L
24 cm	right	155 mm	100 kg	31A4/24R
25 cm	left	155 mm	100 kg	31A4/25L
25 cm	right	155 mm	100 kg	31A4/25R
26 cm	left	155 mm	100 kg	31A4/26L
26 cm	right	155 mm	100 kg	31A4/26R
27 cm	left	155 mm	100 kg	31A4/27L
27 cm	right	155 mm	100 kg	31A4/27R
28 cm	left	155 mm	100 kg	31A4/28L
28 cm	right	155 mm	100 kg	31A4/28R



## Ankle Block - Wood -

- with enclosed nylon bushing
- for all single-axis feet
- use in connection with a universal foot adapter 32A1

Foot size	Side	Height	max. $\uparrow$ kg	Item-No.
22 cm	left	152 mm	100 kg	31A3/22L
22 cm	right	152 mm	100 kg	31A3/22R
23 cm	left	152 mm	100 kg	31A3/23L
23 cm	right	152 mm	100 kg	31A3/23R
24 cm	left	152 mm	100 kg	31A3/24L
24 cm	right	152 mm	100 kg	31A3/24R
25 cm	left	152 mm	100 kg	31A3/25L
25 cm	right	152 mm	100 kg	31A3/25R
26 cm	left	152 mm	100 kg	31A3/26L
26 cm	right	152 mm	100 kg	31A3/26R
27 cm	left	152 mm	100 kg	31A3/27L
27 cm	right	152 mm	100 kg	31A3/27R
28 cm	left	152 mm	100 kg	31A3/28L
28 cm	right	152 mm	100 kg	31A3/28R



## Ankle Block - Wood -

- for all S.A.C.H. and dynamic feet
- without bolted connection
- suitable for right and left side

Foot size	Height	max. ↑ kg	Item-No.
22 - 25 cm	136 mm	100 kg	31A5/22-25
26 - 30 cm	136 mm	100 kg	31A5/26-30



## Bolted Connection Set, M8

- for all dynamic and S.A.C.H. feet with M8 thread
- for ankle block 31A5/22-25
- consisting of 1 hex socket cap screw 22A2/M8, 1 thread bushing, 1 washer, 1 lockwasher 16A8/M8F

Material	Weight	Thread x length	Item-No.
Steel	70 g	M8 x 90 mm	31A6/M8



## Bolted Connection Set, M10

- for all dynamic and S.A.C.H. feet with M10 thread
- for ankle block 31A5
- consisting of 1 hex socket cap screw 22A2/M10, 1 thread bushing, 1 washer, 1 lockwasher 16A8/M10F

Material	Weight	Thread x length	Item-No.
Steel	90 g	M10 x 90 mm	31A6/M10



# Modular Structural Parts



# Modular Structural Parts

Even complicated residual limb positions are easy to supply, moreover there are manifold options to do so. We offer a wide variety of elaborate modular structural parts that enable you to align functional and modern prostheses.

For many years now, our staff members have been developing parts that are 100 % made by Streifeneder. The realization of the initial idea up to the finished product takes place in our own production facilities and of course corresponds to current ISO-standards. Our modular structural parts are made of different top quality material alloys. Depending on the individual requirements, they are able to offer a maximum amount of safety to the amputee. This fact and continuing further development of the geometrics with state-of-the-art technical equipment enabled us to manufacture modular structural components even for heavy-weight patients. Through adjusting screws and pyramid connections the alignment and the statics of a prosthesis can be individually determined. The great variety of different adapters and their combination potential offers the orthopaedic technician a maximum of flexibility when aligning a prosthesis.

Each structural part of the Streifeneder ortho.production is marked with a serial number. This facilitates the quality management of our customers and allows for a comprehensible and continuous documentation.

**S** Please do not allow the torque wrench to click more than once – further tightening will increase the torque, which may result in damaging the modular component. Release the torque wrench after tightening. Please bear in mind that once a year the torque wrench has to be recalibrated according to ISO certification standards. We would be glad to offer you this service.



## Prosthetic care for heavy-weight users

The Heavy-Duty-Line by Streifeneder ortho.production GmbH contains components for bodyweight of up to max. 225 kg and helps heavy-weight people to regain their mobility.

With these structural parts, the orthopaedic technician can effect even difficult prosthetic care while trusting in excellent quality in all aspects.

### Features

- Prosthetic care for users with body weight of up to 225 kg (496 lbs)
- Low construction weight plus maximum rigidness due to high quality titanium and aluminium
- Consistently excellent quality "made by Streifeneder ortho.production"
- Approved according to ISO 10328 standards

We offer useful product solutions even for difficult prosthetic cases. Due to a special titanium alloy, we are able to provide a complete range of structural components for weight load of up to 175 kg. This enables the orthopaedic technician to provide all necessary components to patients with higher body weight.

The components are compatible with all structural components by Streifeneder ortho.production GmbH.

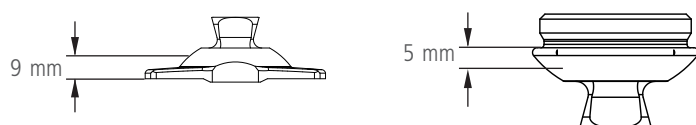
- Up to max. body weight of 175 kg, including carried and supported loads
- Made from titanium
- Especially sturdy by special surface treatment
- Prosthetic care even for complicated cases

# Modular Structural Parts

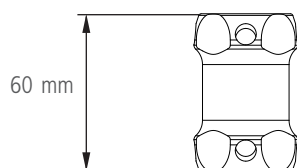
In order to support the orthopaedic technician when determining the effective system height of a prosthesis, Streifeneder ortho.production has developed a simple system to establish the assembly height. For this purpose, you will find the assembly height of each individual component on the following pages.

In order to make the system as simple as possible, the assembly height of most components corresponds to the visible height when installed. An exception to this general rule are components with tube clamp adapters, where the assembly height is the total height of the component minus the depth of penetration of the tube.

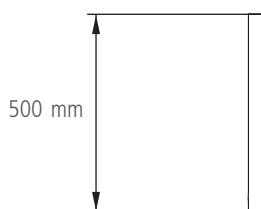
If a component equipped with pyramidal connector plunges into an adapter, the assembly height is calculated up to the visible middle of the calotte.



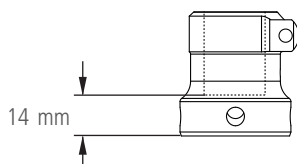
When using components with adjusting core, the total height is equal to the assembly height because the component is entirely visible when installed.



In the case of tubes, the total length is taken to calculate the assembly height.



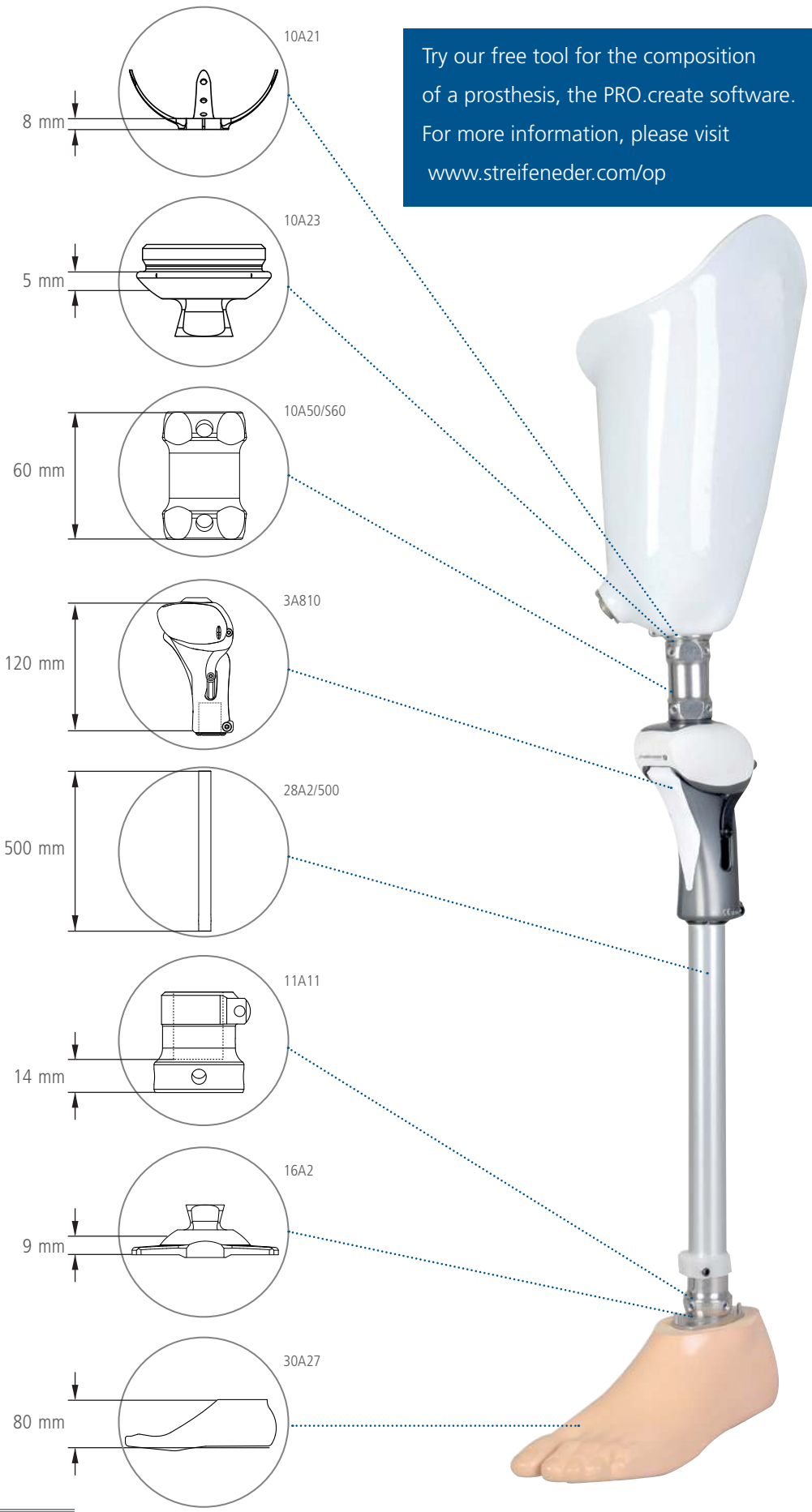
For screw adapters with tube clamp adapters, where the assembly height is the total height of the adapter minus the depth of penetration of the tube.



Adding up the individual assembly heights results in the system height of the prosthesis (as depicted in the example on the opposite page).



Try our free tool for the composition of a prosthesis, the PRO.create software. For more information, please visit [www.streifeneder.com/op](http://www.streifeneder.com/op)



**Total height: 796 mm**



# Modular Structural Parts

## Tube Adapter -Stainless Steel-, Ø 34 mm

- with light metal tube Ø 34 x 2 mm
- silver anodised
- with 4 adjustment set screws 22A2/M8x14, zinc-plated



Tube ø	Weight	Eff. height	max. ↑ kg	Item-No.
34 mm	250 g	min. 100 mm max. 215 mm	150 kg	150A3/S200
34 mm	360 g	min. 100 mm max. 415 mm	150 kg	150A3/S400

## Tube Adapter -Titanium-, Ø 34 mm

- with light metal tube Ø 34 x 2 mm
- silver anodised
- with 4 adjustment set screws 22A2/M8x14, zinc-plated




Tube ø	Weight	Eff. height	max. ↑ kg	Item-No.
34 mm	215 g	min. 100 mm max. 215 mm	150 kg	150A4/T225
34 mm	330 g	min. 100 mm max. 415 mm	150 kg	150A4/T445

## Light Alloy Tube, Ø 34 mm

- light alloy tube Ø 34 x 6 mm
- silver anodised
- suitable for adapters with tube holder Ø 34 mm



Material	Length	Weight	max. ↑ kg	Item-No.
Aluminum	300 mm	460 g	225 kg	28A3/A300

 Modular system for 225 kg!

# Modular Structural Parts



## Tube Adapter -Aluminium-, Ø 30 mm

- with light alloy tube Ø 30 x 2 mm
- grey anodised
- with 4 adjustment set screws 22A2/M8x14, zinc-plated

Tube ø	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
30 mm	140 g	min. 78 mm max. 213 mm	100 kg	15A2/A200
30 mm	230 g	min. 78 mm max. 413 mm	100 kg	15A2/A400



## Tube Adapter -Titanium-, Ø 30 mm

- with light alloy tube Ø 30 x 2 mm
- grey anodised
- with 4 adjustment set screws 22A2/M8x14, zinc-plated

Tube ø	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
30 mm	160 g	min. 78 mm max. 213 mm	175 kg	15A4/T225
30 mm	260 g	min. 78 mm max. 413 mm	175 kg*	15A4/T445

\*only for activity level 1 to 3, 150 kg for all activity levels



## Tube Adapter -Stainless Steel-, Ø 30 mm

- with light alloy tube Ø 30 x 2 mm
- grey anodised
- with 4 adjustment set screws 22A2/M8x14, zinc-plated

Tube ø	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
30 mm	190 g	min. 78 mm max. 213 mm	125 kg	15A3/S200
30 mm	310 g	min. 78 mm max. 413 mm	125 kg	15A3/S400



# Modular Structural Parts

## Light Alloy Tube, Ø 30 mm



- grinded surface
- Ø 30 x 2 mm
- grey anodised

Length	Weight	max. ↑kg	Item-No.
500 mm	250 g	100 kg	28A2/A500

## Rotation Adapter



- guarantees permanent backlash-freedom due to its new locking mechanism - even under continuously high and changing loads
- with the rotation adapter, rotating of the lower leg is possible in flexed as well as in extended position; rotation: 360°
- automatically re-locks into place
- the rotation adapter 10A16/S is not approved for use in hip disarticulation prostheses
- the distal and proximal connectors are tiltable by 6° in all directions

Material	Weight	Eff. height	max. ↑kg	Item-No.
Stainl. Steel	193 g	25 mm	125 kg	10A16/S

 Frequently repeated every-day motions such as putting on shoes or getting into a car are therefore considerably easier.

## Tube Adapter, short, Ø 30 mm



- with 4 adjustment set screws 22A2/M8x14, zinc-plated
- connection: Ø 30 mm
- for high stress
- for very short below knee prostheses, reduceable to 57 mm

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	93 g	min. 57 mm	100 kg	15A5/A100
Titanium	138 g	min. 57 mm	125 kg	15A5/T100
Stainl. Steel	230 g	min. 57 mm	150 kg	15A5/S100

## Tube Adapter, rotatable, Ø 30 mm



- with 4 adjustment set screws 22A2/M8x12, zinc-plated
- connection: Ø 30 mm
- for maximum length compensation of 7 mm
- for rotation adjustment

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	52 g	46 mm	100 kg	11A13/A
Titanium	70 g	46 mm	125 kg	11A13/T
Stainl. Steel	98 g	46 mm	150 kg	11A13/S


# Modular Structural Parts



## Tube Clamp Adapter -Titanium-, Ø 34 mm

- total height: 55 mm
- for tubes with Ø 34 mm
- adjustment core adapter suitable for standard modular system
- with 4 adjusting screws 22A2/M8x12mm, zinc-plated

Material	Weight	Eff. height	max. ↑kg	Item-No.
Titanium	131 g	16 mm	225 kg	11A250/T


 For users with body weight of more than 125 kg. Modular system up to max. 225 kg - with straight, non-adjustable construction!



## Tube Clamp Adapter -Titanium-, Ø 34 mm

- total height: 55 mm
- tube clamp Ø 34 mm and large adjustment core adapter
- adjustment core adapter exclusively suitable for S.A.C.H. foot adapter 16A7/M14 and socket adapter 10A7/T
- with 4 adjustment set screws 22A2/M10x16

Material	Weight	Eff. height	max. ↑kg	Item-No.
Titanium	167 g	21 mm	225 kg	11A225/T

 Modular system for 225 kg!



## Tube Clamp Adapter, Ø 34 mm

- total height 53 mm
- for tubes with Ø 34 mm
- with 4 adjustment set screws 22A2/M8x12, zinc-plated
- complete with clamping unit 11A125/E

Material	Weight	Eff. height	max. ↑kg	Item-No.
Titanium	88 g	14 mm	125 kg	11A125/T
Stainl. Steel	136 g	14 mm	125 kg	11A125/S



## Service Parts Set for Clamping Unit, Ø 34 mm

- complete for all tube adapters with clamping unit Ø 34 mm
- consisting of: clamp pin, clamp pin with thread, socket cap screw

For adapter	Colour	Item-No.
Titanium	black	11A125/E1
Stainl. Steel	white	11A125/E2

# Modular Structural Parts

## Tube Clamp Adapter, Ø 30 mm



- total height: 47 mm
- for tubes Ø 30 mm
- with 4 adjustment set screws 22A2/M8x14, zinc-plated
- and complete clamping unit 11A11/E1

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Aluminum	62 g	14 mm	100 kg	11A11/A
Titanium	70 g	14 mm	175 kg	11A11/T
Stainl. Steel	120 g	14 mm	125 kg	11A11/S

## Tube Clamp Adapter, Ø 30 mm



- total height: 47 mm
- for tubes Ø 30 mm
- with 4 adjustment set screws 22A2/M8x14, zinc-plated

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Stainl. Steel	135 g	14 mm	125 kg	11A17/S
Titanium	82 g	14 mm	175 kg	11A17/T

## Tube Clamp Adapter, 10° tilt, Ø 30 mm



- total height: 55 mm
- for tubes Ø 30 mm
- only in connection with modular hip joint 7A4 and 7A5
- with 4 adjustment set screws 22A2/M8x12, zinc-plated
- and complete clamping unit 11A11/E

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Aluminum	63 g	21 mm	75 kg	11A12/A
Titanium	75 g	21 mm	100 kg	11A12/T
Stainl. Steel	125 g	21 mm	125 kg	11A12/S

## Tube Clamp Adapter, 20° tilt, Ø 30 mm



- total height 58 mm
- for tubes Ø 30 mm
- only in connection with modular hip joint 7A5
- recommended for larger pelvic baskets
- with 4 adjustment set screws 22A2/M8x12, zinc-plated
- and complete clamping unit 11A11/E

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Titanium	80 g	24 mm	100 kg	11A20/T

# Modular Structural Parts



## Tube Clamp Adapter with Adjustment Core, Ø 30 mm

- total height 55 mm
- tube clamp adapter Ø 30 mm
- and complete clamping unit 11A11/E

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Aluminum	70 g	6 mm	100 kg	11A15/A
Titanium	72 g	6 mm	100 kg	11A15/T
Stainl. Steel	115 g	6 mm	125 kg	11A15/S



## Service Parts Set for Clamping Unit Ø 30 mm

- complete for all tube adapters with clamping unit Ø 30 mm
- consisting of: clamp pin, clamp pin with thread, socket cap screw

For adapter	Colour	Item-No.
Aluminum or Titanium	black	11A11/E1
Stainl. Steel	white	11A11/E2



## Slide Adapter with Lamination Anchor

- for direct lamination into below knee prostheses for connection with S.A.C.H. feet adapter
- for additional translational adjustment
- with 4 adjustment set screws 22A2/M8x12, zinc-plated
- with tensioning screw 22A2/M6x30 (for aluminum adapter)
- adjustment range: aluminum +/- 9 mm, titanium +/- 11mm

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Aluminum	135 g	49 mm	75 kg	10A41/A
Titanium	183 g	49 mm	100 kg	10A41/T



## Silicone Dummy

- for adapters 10A41/A and 10A41/T
- protects the dovetail guide when laminating
- no plastiline necessary

Item-No.
10A41/AE3
10A41/TE3



# Modular Structural Parts



## Slide Adapter with Adjustment Core -Titanium-

- to be directly laminated in for tibial prostheses
- for additional translational adjustment
- adjustment range: +/- 11 mm
- silicone dummy 10A41/TE3 not included

Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Titanium	189 g	32 mm	100 kg	10A46/T



## Slide Adapter, Ø 30 mm

- total height 10A42/A = 72 mm
- total height 10A42/T = 68 mm
- for direct mount on tube adapter
- for additional translational adjustment
- 10A42/A: with 4 adjustment set screws 22A2/M8x14, zinc-plated
- 10A42/T: with 4 adjustment set screws 22A2/M8x14, zinc-plated
- with tensioning screw 22A2/M6x30 (for aluminum adapter)
- adjustment range: aluminum +/- 9 mm, titanium +/- 11mm



Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Aluminum	137 g	39 mm	75 kg	10A42/A
Titanium	185 g	35 mm	175 kg*	10A42/T

\*only for activity levels 1 – 3, 150 kg for all activity levels

activity levels only apply to 10A42/T

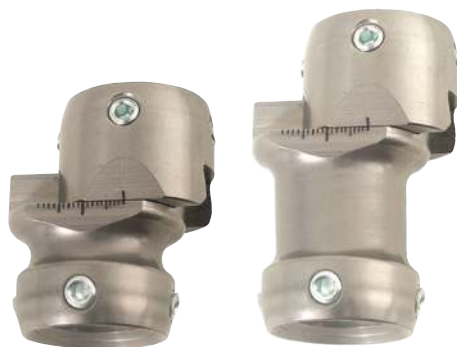
## Slide Adapter -Aluminum-



- above and below with 4 adjustment set screws 22A2/M8x12 zinc-plated
- connection between two adjustment cores
- for distal and proximal change of angle
- with additional translation adjustment
- adjustment range: +/-9 mm

Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Aluminum	155 g	60 mm	75 kg	10A43/A60
Aluminum	165 g	75 mm	75 kg	10A43/A75

# Modular Structural Parts



## Slide Adapter -Titanium-

- above and below with 4 adjustment set screws 22A2/M8x12 zinc-plated
- connection between two adjustment cores
- for distal and proximal change of angle
- with additional translation adjustment
- adjustment range: +/-11 mm

Material	Weight	Eff. height	max. ↑kg	Item-No.
Titanium	214 g	60 mm	100 kg	10A43/T60
Titanium	224 g	75 mm	100 kg	10A43/T75



## Slide Adapter with two Adjustment Cores

- for connection between two tube clamp adapters
- for distal and proximal change of angle
- with additional translation adjustment
- adjustment range: aluminum +/- 9 mm, titanium +/- 11 mm

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	158 g	36 mm	75 kg	10A45/A
Titanium	150 g	22 mm	100 kg	10A45/T

# Modular Structural Parts

## Double Adapter -Aluminum-



- above and below with 4 adjustment set screws 22A2/M8x12 zinc-plated
- connection between two adjustment cores
- for distal and proximal change of angle

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	60 g	32 mm	100 kg	10A50/A32
Aluminum	63 g	36 mm	100 kg	10A50/A36
Aluminum	66 g	40 mm	100 kg	10A50/A40
Aluminum	70 g	45 mm	100 kg	10A50/A45
Aluminum	73 g	50 mm	100 kg	10A50/A50
Aluminum	76 g	55 mm	100 kg	10A50/A55
Aluminum	79 g	60 mm	100 kg	10A50/A60
Aluminum	82 g	65 mm	100 kg	10A50/A65
Aluminum	85 g	70 mm	100 kg	10A50/A70
Aluminum	90 g	75 mm	100 kg	10A50/A75

## Double Adapter -Titanium-



- above and below with 4 adjustment set screws 22A2/M8x12 zinc-plated
- connection between two adjustment cores
- for distal and proximal change of angle

Material	Weight	Eff. height	max. ↑kg	Item-No.
Titanium	82 g	32 mm	125 kg	10A50/T32
Titanium	96 g	45 mm	125 kg	10A50/T45
Titanium	108 g	60 mm	125 kg	10A50/T60
Titanium	122 g	75 mm	125 kg	10A50/T75

## Double Adapter -Stainless Steel-



- above and below with 4 adjustment set screws 22A2/M8x12 zinc-plated
- connection between two adjustment cores
- for distal and proximal change of angle

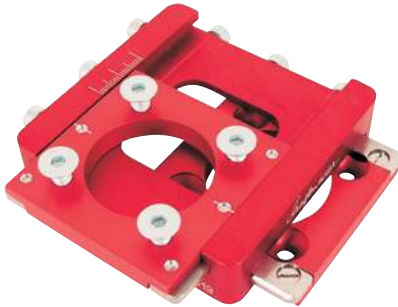
Material	Weight	Eff. height	max. ↑kg	Item-No.
Stainl. Steel	114 g	32 mm	150 kg	10A50/S32
Stainl. Steel	139 g	45 mm	150 kg	10A50/S45
Stainl. Steel	162 g	60 mm	150 kg	10A50/S60
Stainl. Steel	194 g	75 mm	150 kg	10A50/S75



## Sliding Plate -Aluminum-

- use only during test runs within the orthopaedic workshop
- application into the final prosthesis is not permitted
- the sliding plate can be used up to a maximum body weight of 100 kg
- the moving parts of the sliding plate feature Euro connections, adapters with a bolt circle of approx. 51 mm can be screwed in
- the threaded holes allow adjustment ranges of 9, 18, 27 or 36 mm
- these are possible lateral, medial, as well as anterior and posterior
- when using socket adapters with adjusting ring please apply adapter discs (10A96/SE1) for balancing (counter sink screws of various lengths can be chosen; torque of all counter sink screws is 12 Nm)

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	120 g	8 mm	100 kg	10A30/A



## Adjusting Device for Modular Prostheses -Aluminum-

- use only during test runs within the orthopaedic workshop
- serves as an adjustment aid during fittings
- slide possibility in sagittal and frontal level
- adjustment range: +/- 25 mm with calibration

Material	Weight	Eff. height	max. ↑kg	Item-No.
Alum./Steel	260 g	20 mm	100 kg	10A40/A



## Vario Test Tube -Aluminum-

- use only during test runs within the orthopaedic workshop
- allows continuous height adjustment of the prosthesis during the trial phase
- due to its many adapting possibilities, it can be mounted in lots of varieties
- adjustable height: 65 mm
- proximal outer diameter: Ø 34 mm
- distal inner diameter: Ø 30 mm

Material	Weight	Eff. height	max. ↑kg	Item-No.
Aluminum	134 g	variable	125 kg	10A100/A

# Modular Structural Parts

## Double Adapter with Adjustment Core



- 4 adjustment set screws 22A2/M8x12 zinc-plated
- for extension of a socket adapter with adjustment core
- for distal and proximal change of angle

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Aluminum	74 g	36 mm	100 kg	11A14/A
Titanium	112 g	36 mm	125 kg	11A14/T
Stainl. Steel	169 g	36 mm	150 kg	11A14/S

## Double Adapter with Two Adjustment Cores



- for connection between two tube clamp adapters
- for distal and proximal change of angle

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Aluminum	78 g	15 mm	100 kg	10A60/A41
Aluminum	92 g	23 mm	100 kg	10A60/A50

## Socket Adapter, rotatable, Ø 30 mm



- proximal with adjustment core
- distal with connection Ø 30 mm
- in combination with 11A11, 10A42 or 3A40
- for length compensation up to 7 mm
- for rotation adjustment

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Titanium	65 g	37 mm	125 kg	11A16/T
Stainl. Steel	91 g	37 mm	150 kg	11A16/S

## Socket Adapter



- with adjustment core
- with center bore Ø 8,5 mm
- for connection of different modular parts or distal socket ends

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Aluminum	50 g	8 mm	100 kg	10A90/A
Titanium	50 g	8 mm	175 kg	10A90/T
Stainl. Steel	87 g	8 mm	150 kg	10A90/S

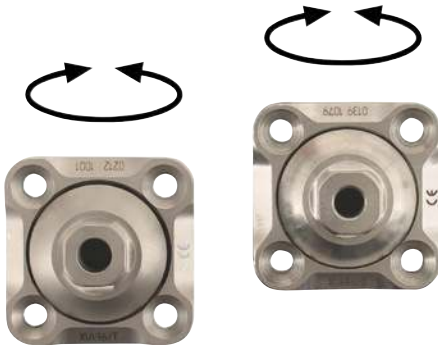
# Modular Structural Parts



## Socket Adapter without Seat Ring -Titanium-

- with adjustment core
- with center bore  $\varnothing$  8,5 mm
- use for even connection surfaces

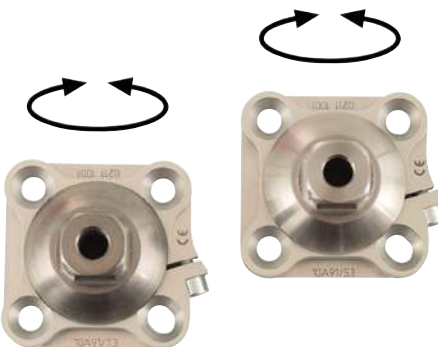
Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Titanium	48 g	8 mm	100 kg	10A90/TF



## Socket Adapter, rotatable

- with adjustment core
- with center bore  $\varnothing$  8,5 mm
- for connection of different modular parts or distal socket ends
- with additional rotation adjustment (raster adjustment)
- replacement pressure plate 10A96/SE1

Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Titanium	70 g	10 mm	100 kg	10A96/T
Stainl. Steel	125 g	10 mm	125 kg	10A96/S



## Socket Adapter, rotatable

- with adjustment core
- with center bore  $\varnothing$  8,5 mm
- for connection of different modular parts or distal socket ends
- continuous rotation adjustment via thread

Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Alum./Titan.	65 g	12 mm	100 kg	10A91/T3
Alum./Steel	98 g	12 mm	100 kg	10A91/S3



## Socket Adapter, excentric

- with center bore  $\varnothing$  8,5 mm
- for connection of different modular parts or distal socket ends
- 7 mm axial offset

Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Aluminum	50 g	8 mm	75 kg	10A94/A
Titanium	58 g	8 mm	100 kg	10A94/T
Stainl. Steel	100 g	8 mm	125 kg	10A94/S

# Modular Structural Parts

## Socket Adapter, excentric



- with center bore  $\varnothing$  8,5 mm
- for connection of different modular parts or distal socket ends
- 5 mm diagonal offset

Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Aluminum	50 g	8 mm	75 kg	10A93/A
Titanium	62 g	8 mm	100 kg	10A93/T
Stainl. Steel	102 g	8 mm	125 kg	10A93/S

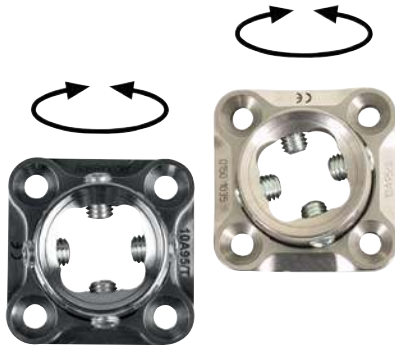
## Socket Adapter



- with adjustment core support
- with 4 adjustment set screws 22A2/M8x12, zinc-plated
- for connection of different modular parts or distal socket ends

Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Aluminum	44 g	16 mm	100 kg	10A92/A
Titanium	55 g	16 mm	100 kg	10A92/T
Stainl. Steel	88 g	16 mm	125 kg	10A92/S

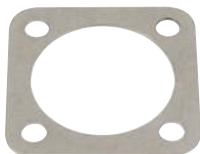
## Socket Adapter with Rotation Adjustment



- with adjustment core support
- with 4 adjustment set screws 22A2/M8x14, zinc-plated
- for connection of different modular parts or distal socket ends
- with additional rotation adjustment (raster adjustment)
- replacement pressure plate 10A96/SE1

Material	Weight	Eff. height	max. $\uparrow$ kg	Item-No.
Titanium	76 g	18 mm	175 kg	10A95/T
Stainl. Steel	125 g	18 mm	125 kg	10A95/S

## Pressure Plate

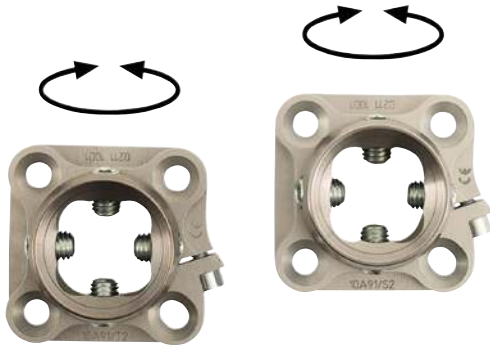


- replacement for socket adapter 10A96
- 1 mm distance compensation to other modular parts

Material	Weight	Height	Item-No.
Stainl. Steel	10 g	1 mm	10A96/SE1

# Modular Structural Parts

## Socket Adapter, rotatable



- with adjustment core support
- with 4 adjustment set screws
- for connection of different modular parts or distal socket ends
- continuous rotation adjustment via M36 inner thread

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Alum./Titan.	77 g	22 mm	100 kg	10A91/T2
Alum./Steel	106 g	22 mm	100 kg	10A91/S2



## Socket Adapter, excentric



- activity level (walky): 1 to 3
- with adjustment core support
- with 4 adjustment set screws 22A2/M8x12, zinc-plated
- for connection of different modular parts or distal socket ends
- 7 mm axial offset

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Aluminum	42 g	16 mm	75 kg	10A89/A
Titanium	55 g	16 mm	100 kg	10A89/T
Stainl. Steel	90 g	16 mm	100 kg	10A89/S

## Socket Adapter



- with adjustment core
- for trans-tibial sockets
- with wide groove
- for direct lamination
- with lamination dummy 22A8
- with center bore  $\varnothing$  8,1 mm

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Aluminum	57 g	14 mm	100 kg	10A3/A
Titanium	48 g	14 mm	175 kg	10A3/T
Stainl. Steel	85 g	14 mm	100 kg	10A3/S





## Socket Adapter

- with adjustment core support
- with adjustment set screws 22A2/M8x12
- with lamination anchor
- for trans-tibial sockets
- for direct lamination
- including of lamination dummy 22A10

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Aluminum	53 g	24 mm	100 kg	10A6/A
Titanium	85 g	24 mm	100 kg	10A6/T
Stainl. Steel	130 g	24 mm	100 kg	10A6/S



## Lamination Dummy

- for socket adapter 10A6
- for protection of the adjustment core support during the lamination process
- with adjustment core marking
- no need for plasticine


Material	Item-No.
Silicone	22A10



## Socket Adapter with Adjustment Core -Titanium-

- with adjustment core
- overall height: 52 mm
- for trans-tibial sockets
- extra wide notch
- for direct lamination
- adjustment core exclusively suitable for screw adapter 11A225/T

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Titanium	213 kg	23 mm	225 kg	10A7/T

 Modular system for 225 kg!



## Socket Adapter

- with adjustment core
- max. 10 mm offset
- for AK and BK sockets
- quick interim socket

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Aluminum	155 g	14 mm	100 kg	10A44/A

# Modular Structural Parts



## Lamination Dummy

- accessory
- for socket adapter 10A44/A
- used as deep-drawing or lamination aid

Material	Item-No.
POM	10A44/D



## Socket Adapter -Stainless Steel-

- with adjustment core and lamination anchor
- for direct lamination into trans-femoral sockets
- with lamination dummy 22A8

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Stainl. Steel	118 g	12 mm	150 kg	10A5/S




## Socket Adapter, rotatable

- with adjustment core and lamination anchor
- for direct lamination into trans-femoral sockets
- with center bore Ø 8,5 mm
- continuous rotation adjustment possible
- including socket cap screw 22A2/M5x30

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Titanium/Steel	147 g	13 mm	100 kg	10A1/TS
Stainl. Steel	170 g	13 mm	125 kg	10A1/S



 Please order our lamination dummy 22A9 separately!




## Socket Adapter, rotatable

- with adjustment core support
- with 4 adjustment set screws 22A2/M8x12, zinc-plated
- with lamination anchor
- for direct lamination into trans-femoral sockets
- continuous rotation adjustment possible
- including socket cap screw 22A2/M5x30

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Titanium/Steel	159 g	21 mm	100 kg	10A2/TS
Stainl. Steel	169 g	21 mm	125 kg	10A2/S



 Please order our lamination dummy 22A9 separately!



## Socket Adapter -Stainless Steel-

- with M36 inner thread
- for combination with rotatable adapters titanium or stainless steel
- for direct lamination into trans-femoral sockets
- continuous rotation adjustment possible
- including socket cap screw 22A2/M5x30

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Stainl. Steel	92 g	8 mm	125 kg	10A21/S

 Please order our lamination dummy 22A9 separately!



## Socket Adapter, 4-Arm -Stainless Steel-

- rotation adjustment with adjustment core
- for direct lamination into trans-femoral sockets
- also suitable for direct connections to check sockets
- continuous rotation adjustment possible
- including socket cap screw 22A2/M5x20

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Stainl. Steel	180 g	23 mm	150 kg	10A8/S

 Please order our lamination dummy 22A9 separately!

# Modular Structural Parts



## Socket Adapter, 4-Arm -Stainless Steel-

- rotation adjustment with adjustment core support
- for direct lamination into trans-femoral sockets
- also suitable for direct connections to check sockets
- continuous rotation adjustment possible
- including socket cap screw 22A2/M5x20

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Stainl. Steel	170 g	28 mm	150 kg	10A9/S

 Please order our lamination dummy 22A9 separately!



## Socket Adapter, 4-Arm -Stainless Steel-

- with M36 inner thread
- for combination with rotatable adapters titanium or stainless steel
- for direct lamination into trans-femoral sockets
- also suitable for direct connections to check sockets
- continuous rotation adjustment possible
- including socket cap screw 22A2/M5x20

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Stainl. Steel	90 g	15 mm	150 kg	10A25/S

 Please order our lamination dummy 22A9 separately!



## Socket Adapter, rotatable

- with 4 adjustment set screws 22A2/M8x14
- with M36 outer thread
- for combination with M36 inner thread and socket adapter 10A21/S and 10A25/S

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Titanium	53 g	13 mm	175 kg	10A22/T
Stainl. Steel	77 g	13 mm	150 kg	10A22/S



## Socket Adapter, rotatable

- with adjustment core
- with M36 outer thread
- with center bore Ø 8,5 mm
- for combination with M36 thread and socket adapter 10A21/S and 10A25/S

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Titanium	38 g	5 mm	175 kg	10A23/T
Stainl. Steel	63 g	5 mm	125 kg	10A23/S



## Socket Adapter, rotatable -Stainless Steel-

- max. patient weight 125 kg in combination with 10A21/S
- max. patient weight 150 kg in combination with 10A25/S
- can be combined with M36 thread
- with adjustment core
- with M36 outer thread

Material	Weight	Eff. height	Item-No.
Stainl. Steel	89 g	8 mm	10A24/S



## Lamination Dummy

- for adapter with adjustment core
- for protection of the adjustment core during the lamination process
- without bore

Material	Item-No.
Silicone	22A8



## Lamination Dummy

- for positioning of the lamination anchor onto the plaster positive
- for socket adapter 10A1, 10A2, 10A8, 10A9, 10A21 and 10A25 with M36 inner thread

Material	Item-No.
POM	22A9

# Modular Structural Parts



## Socket Attachment Block

- with poplar wood
- 4 countersink head bolts 22A5/M6x20
- incl. lamination dummy 12A3/E2 and sealing grease 22A100
- with plastic for optimal sanding
- for better connection with laminate and for easier sanding

Block	Height	max. ↑ kg	Item-No.
Ø 148 mm	65 mm	125 kg	12A5
Ø 120 mm	65 mm	125 kg	12A3
Ø 107 mm	33 mm	125 kg	12A7



## Socket Attachment Block -Aluminum-

- for thermoplastic socket
- for AK and BK sockets
- quick interim socket
- incl. countersink screws M6x30

DS = distal stump-circumference

Material	DS	Eff. height	max. ↑ kg	Item-No.
Aluminum	400 mm	25 mm	100 kg	12A1/1
Aluminum	320 mm	20 mm	100 kg	12A1/2
Aluminum	250 mm	20 mm	100 kg	12A1/3



## Lamination Dummy

for socket attachment block

- for 12A3, 12A5, 12A7
- for safe sealing during the lamination process
- no need for plasticine

Item-No.
12A3/E2

# Modular Structural Parts



## Socket Adapter with Tube Clamp -Aluminum-, Ø 30 mm

- for adjustable connection between trans-tibial socket and distal modular parts
- with lamination or deep drawing pan
- setting range adjustable with center bolt
- adjustable in frontal level +/- 8 mm
- adjustable in sagital level +/- 6 mm
- including lamination dummy -silicone- (12A8/E5L)
- including deep drawing dummy -silicone- (12A8/E5T)

T. height = total height

Eff. height = indicated value + socket material thickness

Socket	T. height	Eff. height	max. $\uparrow$ kg	Item-No.
Resin	68 mm	30 mm	100 kg	12A8/L
Thermoplastic	56 mm	22 mm	100 kg	12A8/T



## Socket Adapter with Adjustment Core -Aluminum-

- for adjustable connection between trans-tibial socket and distal modular parts
- with lamination or deep drawing pan
- setting range adjustable with center bolt
- adjustable in frontal level +/- 8 mm
- adjustable in sagital level +/- 6 mm

T. height = total height

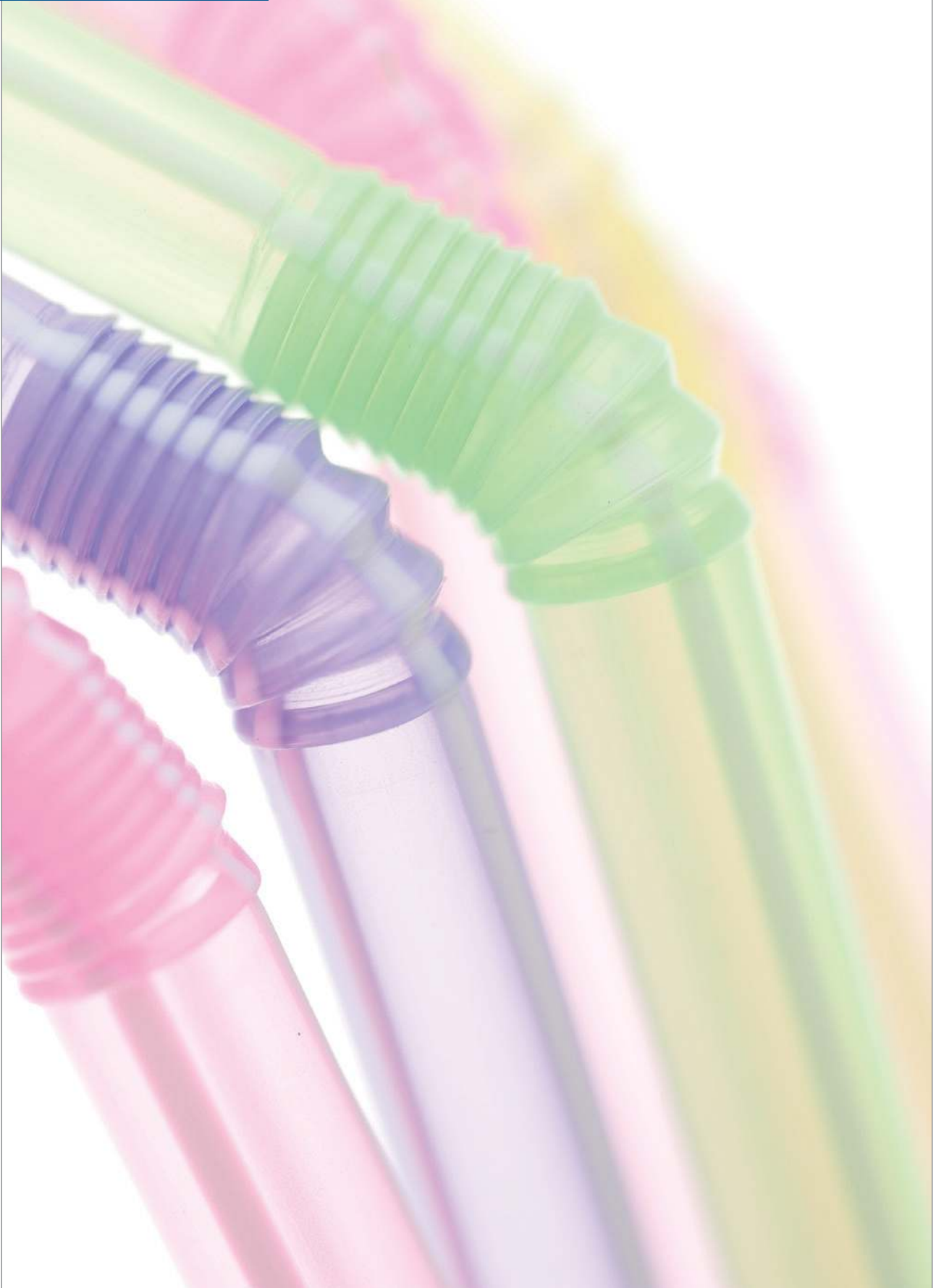
Eff. height = indicated value + socket material thickness

Socket	T. height	Eff. height	max. $\uparrow$ kg	Item-No.
Resin	50 mm	29 mm	100 kg	12A9/L
Thermoplastic	40 mm	27 mm	100 kg	12A9/T





# Knee Joints

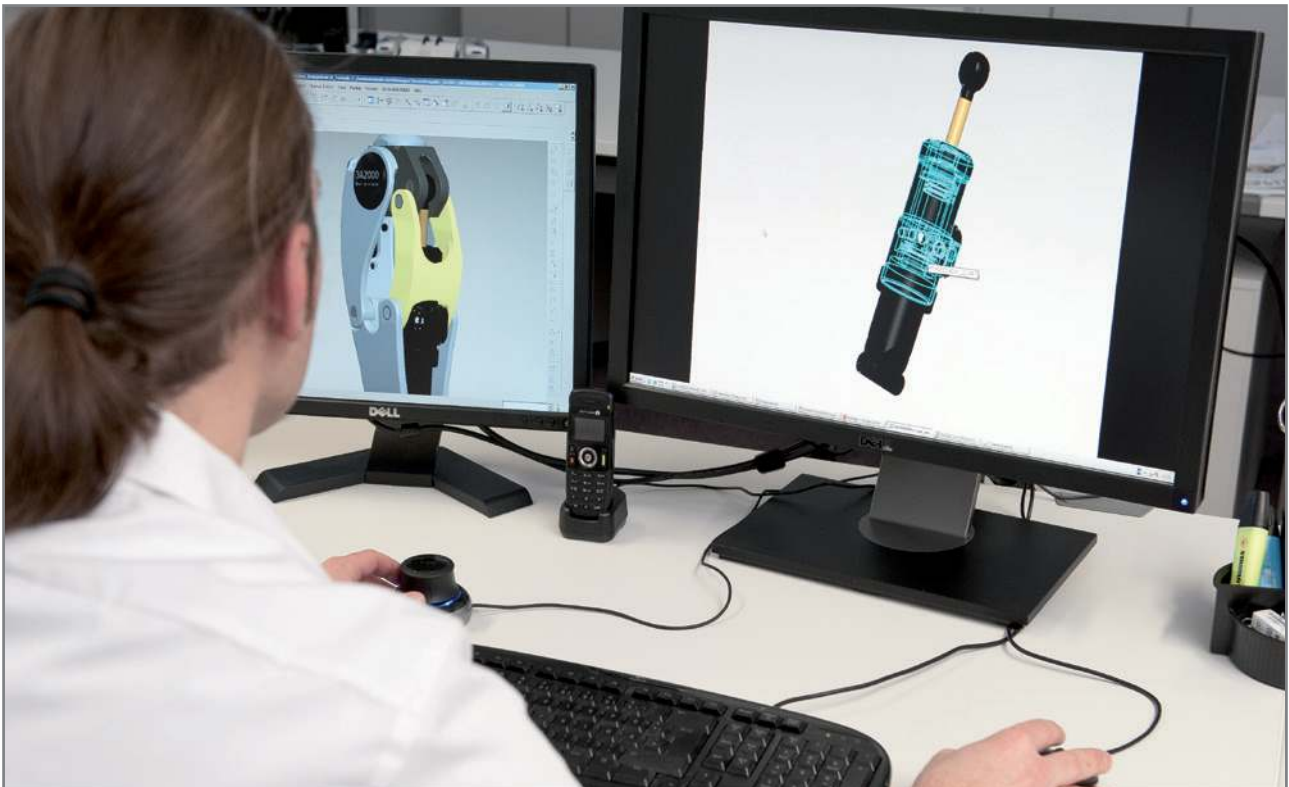


# Knee Joints

Prosthetic knee joint systems are used to replace the missing healthy knee joint. Their design must therefore meet very high technical demands in order to enable the amputee to live a carefree life again.

Which knee joint is used for which patient is first and foremost depending on the activity level of the patient.

Therefore, it is crucial to diligently and correctly determine the activity level in order to achieve the best possible provisioning for the patient.



## KINEGEN – Knee Joint Series

Prosthetic knee joints must not only replace the biological knee joint but also partly take over the function of the missing muscular system as well. As a result, the prosthetic knee joint must meet numerous requirements – it has to provide the patient with a high degree of safety, meet the dynamic of the amputees and must be adjustable to his gait pattern. Especially geriatric patients need a very good stability from heel strike to toe push-off. This can be achieved by different technical solutions such as a lock, a load-dependent brake, or by means of a polycentric knee joint as well. In order to achieve this stability, locked joints are primarily used for geriatric patients. They will allow for a bending of the lower limb (e. g. to sit down) only after the patient has manually unlocked them.

These needs are perfectly met by our knee joint KINEGEN.guard, which not only offers a load-dependant brake, but also a lock which can be deactivated and is backlash free. If the patient becomes more active, it is essential to make his swing phase, which is now longer due to the increased walking speed, as comfortable as possible. Joints with adjustable load-dependent braking functions and knee-extending elastic elements such as the KINEGEN.basic provide the patient with an optimum mobility at low walking speeds.

Swing-phase controlled joints for medium walking speeds such as the KINEGEN.air are equipped with a load-dependent brake, a knee-extending spring element and a pneumatic system. The pneumatic system of the KINEGEN.air allows both independent and continuous adjustments of the kinetic resistance for flexion (bending) and extension (stretching) and the continuous adjustment of the final extension impact damping. Thus, the extension impact is comfortably damped prior to the full extension of the joint.

The KINEGEN.air-active is a polycentric knee joint with pneumatic swing phase control and integrated extension assist. The development of the KINEGEN.air-active has been focussed especially on the balance between standing safety and joint dynamics, as well as on simple use and a sturdy mechanism. Due to the polycentric technology, an especially large flexion angle is achieved. Furthermore, the alignment of the multiple axes causes the prosthetic leg to shorten during swing phase; thus gaining safety in regards to stumbling. The pneumatic swing phase control in combination with the dynamics of the multiple joint chain helps the prosthetic wearer to maintain a harmonious and natural gait pattern.

For highly active patients, the polycentric knee joint KINEGEN.stream has proven its values. The prosthetic knee joint is very sturdy and is approved for up to 150 kg body weight. The axis configuration allows a maximum degree of dynamics, while a high-performance hydraulic unit with precise adjustment options allows an optimal, individual customisation of the joint to the prosthetic user. The continuously adjustable end position damping provides even more wearing comfort. Furthermore, the KINEGEN.stream features a free run mode; which enables the prosthesis user to limit the resistance in the joint to a minimum by simply switching over; during activities such as riding a bicycle.

# KINEGEN – Knee Joint Series



## 3A860 KINEGEN.smart – Brake knee joint with lock

- A locking mechanism connects the upper and lower parts together in such a way that creates a rigid joint with high stability
- Individual adaptation to the patient and long-term freedom of movement via infinitely adjustable extension stop
- When the lock is disabled, the joint can be used as a brake knee joint



## 3A1000 KINEGEN.air – Brake Knee Joint with Pneumatic Swing Phase Control

- Adjustable pneumatic final extension impact damping for optimum wearing comfort
- Pneumatic swing-phase control through adjustable dual-chamber pneumatics
- Easy adjustment of the pneumatics through flexion and extension damping which both can be independently configured
- High stance phase stability through load-dependant brake and a joint axis shifted to the back
- Knee stability even when walking on an inclined plane





### 3A1800 KINEGEN.air-active – Polycentric Knee Joint with Pneumatic Swing Phase Control and Integrated Extension Assist Spring

- Pneumatic swing phase control by means of the adjustable pneumatic twin-chamber
- Steplessly variable adjustment of the pneumatic extension- and flexion resistance
- Extension support using an integrated extension assist
- Mechanical stance phase safety provided by polycentric technology
- Shortened leg during the swing phase by means of polycentric knee joint construction
- Large flexion angle
- Low in maintenance
- Intuitive operation
- Simple cosmetic covering



### 3A2500, 3A2500/4, 3A2500/3 KINEGEN.stream – Polycentric Knee Joint with Hydraulic Swing Phase Control

- Adjustable hydraulic final extension impact damping for optimum wearing comfort
- Simple adjustment options of the hydraulic extension- and flexion resistance by means of sensory feedback (clicks)
- Extension support via integrated pneumatic chamber
- Very good adaption to changing different speeds
- Selectable free run mode / bicycle mode
- Mechanical stance phase control through polycentricity
- Shortening of the leg during swing phase through polycentric knee construction
- Proximal connection movable in A-P direction for up to 6 mm



3A2500  
3A2500/4



3A2500/3





## 3A860 KINEGEN.smart Brake Knee Joint with Lock

- with lock for maximum stance phase stability
- lock may be deactivated for more mobile users
- high stance stability through load-dependant brake and posterior positioned joint axis
- interior steplessly adjustable extension assist spring
- individually adjustable extension stop

### Technical data

- max. patient weight: 125 kg
- activity level (walky): 1 bis 2
- connection proximal: adjustment core
- connection distal: tube clamp Ø 30 mm
- knee flexion angle: 145°
- overall height: 115 mm
- effective height: 65 mm
- effective proximal height: 27 mm
- effective distal height: 38 mm

### Accessory

- cosmetic soft foam cover 60A42/36-44

	Item-No.
	3A860

**J** After deactivating the lock, the KINEGEN.smart may also be used as a knee joint with friction brake. The friction as well as the extension assist spring may be individually adjusted to the patients' needs.



## Cover Set for 3A860 KINEGEN.smart

### Components

- cover upper part and cover base part

	Item-No.
	3A860/E80



## Release Cord for 3A860 KINEGEN.smart

- perlon wire with joint connection and hand release

Bestell-Nr.

3A860/E95





## 3A1000 KINEGEN.air Brake Knee Joint with Pneumatic Swing Phase Control



- wide activity range
- pneumatic extension impact absorption for optimal wearing comfort
- high stance stability through load-dependant brake and posterior positioned joint axis
- knee certitude even when walking at angular levels
- easy adjustment via screws and brakes
- very smooth-running and therefore minimal expenditure of energy for the patient
- light weight (820 g without tube)
- incl. tube adapter 150A3/S400

### Technical data

- max. patient weight: 125 kg
- activity level (walky): 1,5 to 3
- connection proximal: adjustment core
- connection distal: tube clamp Ø 34 mm
- knee flexion angle: 145°
- overall height: 249 mm
- proximal height: 53 mm
- distal height: 196 mm
- effective height: 185 mm
- effective proximal height: 39 mm
- effective distal height: 146 mm

### Accessory

- cosmetic soft foam cover 61A47/36-44

Material	Weight	Item-No.
Aluminum	820 g	3A1000

## Spare Parts Set for 3A1000 KINEGEN.air



Item-No.
3A1000/E75

## Cover with Logo for 3A1000 KINEGEN.air



Item-No.
3A1000/E80



## 3A1800 KINEGEN.air-active Polycentric Knee Joint with Pneumatic Swing Phase Control and Integrated Extension Assist Spring

- pneumatic swing phase control by means of the adjustable pneumatic twin-chamber
- steplessly variable adjustment of the pneumatic extension- and flexion resistance for a natural gait pattern
- extension support using an integrated extension assist spring
- mechanical stance phase safety provided by polycentric technology
- shortened leg during the swing phase by means of polycentric knee joint construction
- large flexion angle
- low in maintenance
- intuitive operation
- simple cosmetic covering


### Technical data

- max. patient weight: 125 kg
- activity level (walky): 2 to 3
- proximal connection: pyramid adapter
- distal connection: tube clamp  $\varnothing$  30 mm
- knee flexion angle: 150°
- overall height: 228 mm
- overall height joint head: 28 mm
- effective height: 178 mm
- effective proximal height: 14 mm
- effective distal height: 164 mm

### Accessory

- cosmetic soft foam cover 61A147

Material	Weight	Item-No.
Aluminum/stainless steel	approx. 960 g	3A1800

 The pneumatic swing phase control in combination with the dynamic performance of the joint linkage ensures a harmonic and natural gait pattern of the prosthesis wearer.



## 3A2500 KINEGEN.stream Polycentric Knee Joint with Hydraulic Swing Phase Control

- adjustable hydraulic end position damping for optimal wearing comfort
- adaption to the walking speed
- shiftable proximal connection in A-P direction approx. 10 mm
- shortened leg during swing phase by polycentric knee joint construction
- simple adjustment options of the hydraulic extension- and flexion resistance by means of sensory feedback (clicks)
- integrated pneumatic chamber for extension assist
- simple and safe switching into freewheel mode (cycling mode) by means of push button
- various proximal connection options (pyramid and M36 threaded connection)
- energy saving initialization of swing phase
- mechanical stance phase control by polycentric technology (posterior position of pivot point)
- high-capacity hydraulics due to bigger cylinder volume - thermally inoffensive
- excellent running smoothness due to high-quality bearings


### Technical data

- max. patient weight: 150 kg
- activity level (walky): 3 to 4
- connection proximal: adjustment core
- connection distal: adjustment core
- knee flexion angle: 136°
- overall height: 224 mm
- overall height of joint head: 36 mm
- effective height: 196 mm
- effective proximal height: 23 mm
- effective distal height: 173 mm

### Accessory

- cosmetic soft foam cover 62A52 and 62A152

Material	Weight	Item-No.
Aluminum	1110 g	3A2500

 With the hydraulic swing phase control and the hydraulic shock absorption action we are able to create a harmonic gait pattern.



## 3A2500/4 KINEGEN.stream Polycentric Knee Joint with Hydraulic Swing Phase Control

- for knee disarticulation

### Technical data

- max. patient weight: 150 kg
- activity level (walky): 3 bis 4
- connection proximal: M36 for 4 prong socket adapter
- connection distal: adjustment core
- knee flexion angle: 136°
- overall height: 222 mm
- overall height of joint head: 36 mm
- effective height: 209 mm
- effective proximal height: 36 mm
- effective distal height: 173 mm

### Accessory

- cosmetic soft foam cover 62A52 and 62A152

Material	Weight	Item-No.
Aluminium	1150 g	3A2500/4



Please order the 4 prong socket adapter 10A25/S separately!



## 3A2500/3 KINEGEN.stream Polycentric Knee Joint with Hydraulic Swing Phase Control

- for knee disarticulation

### Technical data

- max. patient weight: 25 kg (since the 3 prong socket adapter has a maximum weight limit of 125 kg)
- activity level (walky): 3 to 4
- connection proximal: M36 for 3 prong socket adapter
- connection distal: adjustment core
- knee flexion angle: 136°
- overall height: 217 mm
- overall height joint head: 30 mm
- effective height: 203 mm
- effective proximal height: 30 mm
- effective distal height: 173 mm

### Accessory

- cosmetic soft foam cover 62A52 and 62A152

Material	Weight	Item-No.
Aluminum	1120 g	3A2500/3



Please order the 3 prong socket adapter 10A21/S separately!

## Pyramid Connection (proximal)



- suitable for all KINEGEN.stream knee joints
- connection: proximal
- incl. screw, nut and adjustment core

Material	Weight	Eff. height	Item-No.
Stainl. Steel	110 g	6 mm	3A2500/E50

# Knee Joints



## Connection M36 for 4-arm-anchor (proximal)

- suitable for all KINEGEN.stream knee joints
- connection proximal: M36 for 4-arm-anchor (10A25/S)
- incl. screw, nut and M36-adapter

Material	Weight	Eff. height	Item-No.
Stainl. Steel	150 g	20 mm	3A2500-4/E50



## Connection M36 for 3-arm-anchor (proximal)

- suitable for all KINEGEN.stream knee joints
- connection proximal: M36 for 3-arm-anchor (10A21/S)
- incl. screw, nut and M36-adapter

Material	Weight	Eff. height	Item-No.
Stainl. Steel	120 g	15 mm	3A2500-3/E50



## Synthetic Cover Set

- suitable for knee joints KINEGEN.stream 3A2500, 3A2500/4 and 3A2500/3
- 1 x cover front top
- 1 x cover front bottom
- 1 x side component right
- 1 x side component left

Item-No.
3A2500/E70



## Elastomer Damper for KINEGEN.stream

- suitable for knee joints KINEGEN.stream 3A2500, 3A2500/4 and 3A2500/3
- set including 3 pieces

Item-No.
3A2000/E80



## 3A16 Modular Single Axis Knee Joint -Stainless Steel-

- monocentric with receiver plate for socket attachment block

### Recommendation

- for trans-femoral amputees
- with medium functional level
- medium stance phase stability
- medium swing phase control
- very suitable for longer stump lengths

### Description

The knee axis connects the upper and lower joint sections with bushings. Stance phase stability is achieved by placing the knee axis posterior to the weight bearing line. Control of the swing phase is independently provided by the 21A30 Extension Assist and by adjustment of the axis friction.

### Technical data

- max. patient weight: 100 kg
- activity level (walky): 1
- knee flexion angle: approx. 155°
- height (knee center - upper edge): 25 mm

### Accessories

- modular extension assist 21A30, cosmetic soft foam cover 61A47/36-44

Material	Weight	Eff. height	Item-No.
Stainl. Steel	342 g	42 mm	3A16/S

# Knee Joints



## 3A18 Modular Single Axis Knee Joint -Stainless Steel-

- monocentric

### Recommendation

- for trans-femoral amputees
- with medium functional level
- medium stance phase stability
- medium swing phase control

### Description

The knee axis connects the upper and lower joint sections with bushings. Stance phase stability is achieved by placing the knee axis posterior to the weight bearing line. Control of the swing phase is independently provided by the 21A30 Extension Assist and by adjustment of the axis friction.

### Technical data

- max. patient weight: 100 kg
- activity level (walky): 1
- knee flexion angle: approx. 155°
- height (knee center – upper edge): 32 mm

### Accessories

- modular extension assist 21A30, cosmetic soft foam cover 61A47/36-44

Material	Weight	Eff. height	Item-No.
Stainl. Steel	358 g	42 mm	3A18/S

## Modular Extension Assist for 3A16 and 3A18

### Components

1 flexible plastic cover, 1 adjustment ring, 2 compression springs, 1 distal anchor shell, 1 wire bow



Item-No.
21A30





## 3A40 Modular Knee Joint -Light Metal-

- monocentric with manual lock

### Recommendation

- for trans-femoral amputees
- with lower functional level
- high stance phase stability
- no swing phase control

### Description

The lower joint section with tube clamp is connected through the knee axis to the upper joint section with adjustment core. The adjustable manual lock in the lower joint section secures the joint in the extension position. Lock is released using the lock cable.

### Technical data

- max. patient weight: 100 kg
- activity level (walky): 1
- knee flexion angle: approx. 140°
- head height (knee center – upper edge): 35 mm

### Accessories

- cosmetic soft foam cover 60A42/36-44, 60A47/36-44 or 60A52/36-44

Material	Weight	Eff. height	Item-No.
Aluminum/Stainl. Steel	290 g	42 mm	3A40/A

## Perlon Cable



- for lock handle
- and lock control unit 4A46

Length	Item-No.
2 m	21E18



## 3A33 Modular Single Axis Knee Joint -Titanium-

- monocentric
- with lock and spring extension assist

### Recommendation

- for trans-femoral amputees
- with lower functional level
- high stance phase stability
- no swing phase control

### Description

The knee axis connects the upper and lower joint section with bushings and ball bearings. The adjustable lock secures the knee in extension. Release of flexion via lock cable. Self-acting lock at full extension with the help of the extension assist.

### Technical data

- max. patient weight: 125 kg
- activity level (walky): 1
- knee flexion angle: approx. 120°
- head height (knee center – upper edge): 37 mm

### Accessories

- cosmetic soft foam cover 60A42/36-44, 60A47/36-44 or 60A52/36-44

Material	Weight	Eff. height	Item-No.
Titanium	407 g	82 mm	3A33/T



## 3A17 Modular Single Axis Knee Joint -Stainless Steel-

- monocentric
- with lock and spring extension assist

### Recommendation / Function

- identical in construction to 3A33

### Technical data

- max. patient weight: 150 kg
- activity level (walky): 1
- knee flexion angle: approx. 120°
- head height (knee center – upper edge): 37 mm

### Accessories

- cosmetic soft foam cover 60A42/36-44, 60A47/36-44 or 60A52/36-44

Material	Weight	Eff. height	Item-No.
Stainl. Steel	562 g	82 mm	3A17/S

## Locking Unit for 3A17 and 3A33



- complete
- applicable for left and right side

Item-No.
4A40

## Service Parts Set for 3A17 and 3A33



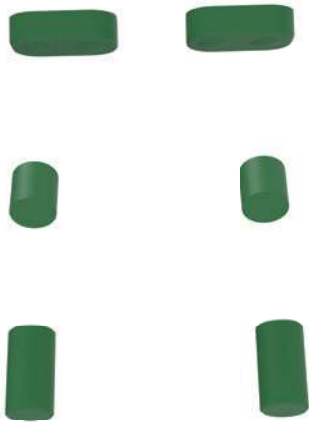
### Components

1 plastic knee cap, 1 socket head bolt, 1 plantar flexion bumper, 2 ball thrust bearings, 2 compression springs, 2 spring guide pins, 2 bushings, 1 spring housing, 1 countersink screw, 1 extension assist axis, 2 screws and 1 allen screw M3

Item-No.
3A17/E

## Elastomer Set for 3A860 KINEGEN.smart

- set of 3 x 2 pcs.
- suitable for knee joint 3A860 KINEGEN.smart



	<b>Item-No.</b>
	3A860/E90



## 3A34 Modular Single Axis Knee Joint -Titanium-

- monocentric
- with mechanical extension assist

### Recommendation

- for trans-femoral amputees
- with medium functional level
- medium stance phase stability
- medium swing phase control
- not suitable for unsecure users

### Description

The knee axis connects the upper and lower joint section with bushings and ball bearings. Stance phase stability is achieved by placing the knee axis posterior to the weight bearing line in alignment. Swing phase is controlled by axis friction and exchangeable extension assist springs.

### Technical data

- max. patient weight: 125 kg
- activity level (walky): 1 to 2
- knee flexion angle: approx. 120°
- head height (knee center – upper edge): 37 mm

### Accessory

- cosmetic soft foam cover 60A47

Material	Weight	Eff. height	Item-No.
Titanium	377 g	82 mm	3A34/T



## 3A22 Modular Single Axis Knee Joint -Stainless Steel-

- monocentric
- with mechanical extension assist

### Recommendation / Function

- identical in construction to 3A34

### Technical data

- max. patient weight: 150 kg
- activity level (walky): 1 to 2
- knee flexion angle: approx. 120°
- head height (knee center – upper edge): 37 mm

### Accessory

- cosmetic soft foam cover 60A47

Material	Weight	Eff. height	Item-No.
Stainl. Steel	532 g	82 mm	3A22/S

# Knee Joints



## Service Parts Set for 3A22 and 3A34

### Components

1 plastic knee cap, 1 threaded pin, 2 pressure ball bearings, 2 soft springs for ext. assist, 2 hard springs for ext. assist, 2 spring bolts, 1 bumper, 2 bushings, 2 spring sleeves, 1 pan screw, 1 allen screw M3 and 1 extension assist axis

Item-No.
3A22/E



scope of supply does not include tube/tube adapter

## 3A49 Modular Brake Knee Joint -Titanium-

- monocentric
- including extension assist 21A40

### Recommendation

- for trans-femoral amputees
- with medium functional level
- high stance phase stability
- medium swing phase control

### Description

The connection between upper and lower joint section is generated by the swing-and-friction axis and operates as a load dependent brake. This secures, in combination with the posterior positioning, the stance phase. The adjustment of the axis friction and spring load controls the swing phase.

### Technical data

- max. patient weight: 100 kg
- activity level (walky): 1 to 2
- knee flexion angle: approx. 150°
- head height (knee center – upper edge): 40 mm

### Accessory

- cosmetic soft foam cover 61A47/36-44

Material	Weight	Eff. height	Item-No.
Titanium	356 g	47 mm	3A49/T



scope of supply does not include tube/tube adapter

## 3A15 Modular Brake Knee Joint -Stainless Steel-

- monocentric
- including extension assist 21A40

### Recommendation / Function

- identical in construction to 3A49

### Technical data

- max. patient weight: 100 kg
- activity level (walky): 1 to 2

### Accessory

- cosmetic soft foam cover 61A47/36-44

Material	Weight	Eff. height	Item-No.
Stainl. Steel	534 g	47 mm	3A15/S

# Knee Joints

## Extension Assist for 3A15 and 3A49



### Components

1 flexible plastic cover, 1 adjustment ring, 2 compression springs, 1 distal anchor shell, 1 extension assist cable 304 mm

Item-No.
21A40

## Service Parts Set for 3A15 and 3A49



### Components

1 brake bushing, 1 extension stop, 1 bumper, 2 bearing washers (big), 2 bearing washers (small), 2 locking rings, 2 extension stops, 1 brake bushing circlip, 1 knee axis bolt and 1 knee axis

Item-No.
3A15/E1





## 3A36 Modular 4-Bar Linkage Knee Joint -Titanium-

- polycentric
- with integrated extension assist

### Recommendation

- for trans-femoral amputees
- with medium functional level
- medium stance phase stability
- medium swing phase control
- suitable also for hip disarticulation amputees

### Description

Upper and lower joint section are connected with linkage bars. The stance phase stability is achieved with the polycentric kinematic (adjustment of the instant center of rotation by adjustment of the stop). The stepless adjustment of the axis friction and of the extension assist spring controls the swing phase.

### Technical data

- max. patient weight: 100 kg
- activity level (walky): 1 to 2
- knee flexion angle: approx. 120°
- head height (knee center – upper edge): 37 mm

### Accessory

- cosmetic soft foam cover 61A47/36-44

Material	Weight	Eff. height	Item-No.
Titanium	447 g	82 mm	3A36/T



## 3A20 Modular 4-Bar Linkage Knee Joint -Stainless Steel-

- polycentric
- with integrated extension assist

### Recommendation / Function

- identical in construction to 3A36

### Technical data

- max. patient weight: 100 kg
- activity level (walky): 1 to 2
- knee flexion angle: approx. 120°
- head height (knee center – upper edge): 37 mm

### Accessory

- cosmetic soft foam cover 61A47/36-44

Material	Weight	Eff. height	Item-No.
Stainl. Steel	680 g	82 mm	3A20/S

## Service Parts Set for 3A20 and 3A36

### Components

1 plastic knee cap, 1 socket cap screw, 1 extension stop - complete, 1 extension bumper, 1 pin for extension assist, 1 spring for extension assist, 1 adjustment screw for extension assist, 1 ball - stainless steel, 2 lock nuts, 2 posterior axis pins, 4 bearing washers - brass, 4 washers



Item-No.
3A20/E



## 3A32 Modular 4-Bar Linkage Knee Joint -Titanium-

- for knee disarticulation
- polycentric

### Recommendation

- for knee disarticulation amputees
- with lower functional level
- high stance phase stability
- no swing phase control
- not suitable for amputees with moderate activity levels

### Description

The upper joint section with adjustment core and the lower joint section with pyramide are connected to each other with anterior and posterior linkage bars. The lamination anchor is the detachable connection to the socket. The adjustable lock secures the knee in extension. Lock is released using the lock cable.

### Technical data

- with lock
- max. patient weight: 125 kg
- activity level (walky): 1
- knee flexion angle: approx. 110°
- head height (knee center – upper edge): 18 mm

### Accessory

- cosmetic soft foam cover 60A47

Material	Weight	Eff. height	Item-No.
Titanium	658 g	120 mm	3A32/T

# Knee Joints



## 3A23 Modular 4-Bar Linkage Knee Joint -Stainless Steel-

- for knee disarticulation
- polycentric

### Recommendation / Function

- identical in construction to 3A32

### Technical data

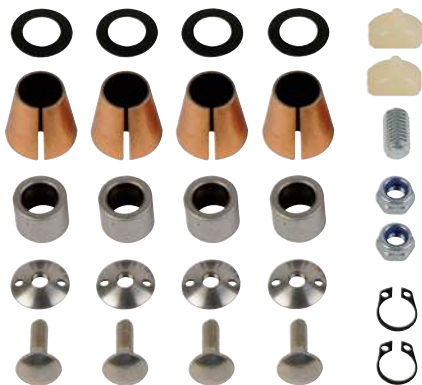
- with lock
- max. patient weight: 125 kg
- activity level (walky): 1
- knee flexion angle: approx. 110°
- head height (knee center – upper edge): 18 mm

### Accessory

- cosmetic soft foam cover 60A47

Material	Weight	Eff. height	Item-No.
Stainless Steel	878 g	120 mm	3A23/S

## Service Parts Set for 3A23 and 3A32



### Components

4 axis bushings, 4 slotted bushings, 2 bumpers, 4 plate washers, 2 circlips, 2 counter nuts, 1 threaded bolt, 4 round-head screws and 4 two-hole nuts

Item-No.
3A23/E

## Lock Control Unit



- accessory
- big lever for simple installation, useable for left and right
- adjustable for push and pull, replaces the factory-made lock handle

Material	Item-No.
Plastic	4A34

## Lock Control Unit with Lock Mechanism



- service part for 3A23 and 3A32
- can be exchanged as a complete unit

Item-No.
4A46



## 3A30 Modular 4-Bar Linkage Knee Joint -Titanium-

- for knee disarticulation
- polycentric
- with mechanical extension assist

### Recommendation

- for knee disarticulation amputees
- with medium functional level
- normal stability

### Description

The upper joint section with adjustment core and the lower joint section with pyramid are connected to each other with anterior and posterior linkage bars. The lamination anchor is the detachable connection to the socket. The stance phase stability is achieved through polycentric kinematics. Extension assist and axial friction are both adjustable.

### Technical data

- max. patient weight: 125 kg
- activity level (walky): 1 to 2
- knee flexion angle: approx. 110°
- head height (knee center – upper edge): 18 mm

### Accessory

- cosmetic soft foam cover 60A47

Material	Weight	Eff. height	Item-No.
Titanium	657 g	120 mm	3A30/T



## 3A21 Modular 4-Bar Linkage Knee Joint -Stainless Steel-

- for knee disarticulation
- polycentric
- with mechanical extension assist

### Recommendation / Function

- identical in construction to 3A30

### Technical data

- max. patient weight: 125 kg
- activity level (walky): 1 to 2
- knee flexion angle: approx. 110°
- head height (knee center – upper edge): 18 mm

### Accessory

- cosmetic soft foam cover 60A47

Material	Weight	Eff. height	Item-No.
Stainl. Steel	870 g	120 mm	3A21/S

## Lamination Anchor

- replacement part for 3A21, 3A23, 3A30 and 3A32



Material	Weight	max. ↑ kg	Item-No.
Stainl. Steel	130 g	125 kg	3A21/E1



## 3A54 Modular 4-Bar Linkage Knee Joint -Titanium-

- with adjustment core on both sides
- polycentric
- with mechanical extension assist

### Recommendation

- for knee disarticulation amputees
- with medium functional level
- normal stability

### Description

The upper and lower joint section is connected to each other with anterior and posterior linkage bars. The lamination anchor is the detachable connection to the socket. The stance phase stability is achieved through polycentric kinematics. Extension assist and axial friction are both adjustable.

### Technical data

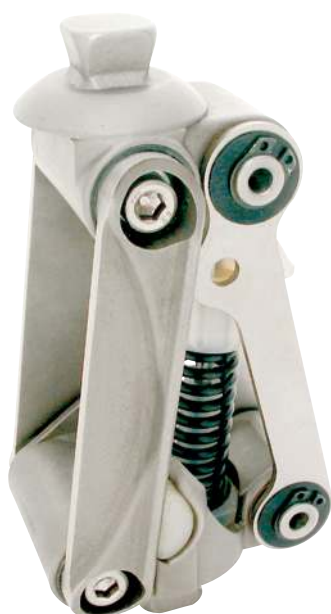
- max. patient weight: 125 kg
- activity level (walky): 1 to 2
- knee flexion angle: approx. 110°
- head height (knee center – upper edge): 28 mm

### Accessory

- cosmetic soft foam cover 60A47

Material	Weight	Eff. height	Item-No.
Titanium	567 g	116 mm	3A54/T





## 3A25 Modular 4-Bar Linkage Knee Joint -Stainless Steel-

- with adjustment core on both sides
- polycentric
- with mechanical extension assist

### Recommendation / Function

- identical in construction to 3A54

### Technical data

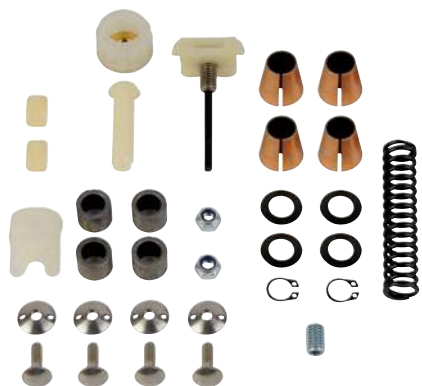
- max. patient weight: 125 kg
- activity level (walky): 1 to 2
- knee flexion angle: approx. 110°
- head height (knee center – upper edge): 28 mm

### Accessory

- cosmetic soft foam cover 60A47

Material	Weight	Eff. height	Item-No.
Stainl. Steel	768 g	116 mm	3A25/S

## Service Parts Set for 3A21, 3A25, 3A30 and 3A54



### Components

4 slotted bushings, 4 spring washers, 1 adjustment set screw, 2 locking rings, 2 lock nuts, 2 bumpers, 1 extension assist spring, 1 bearing for extension assist, 1 guide for extension assist, 1 plastic guide, 1 nut for extension assist, 4 round-head screws and 4 two-hole nuts

Item-No.
3A21/E



# Hip Joints



# Hip Joints

Hip prostheses are used for the following indications

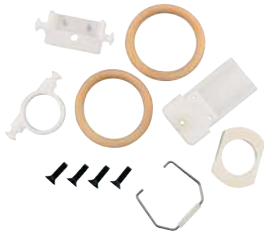
- Introtrochanteric amputation
- Hip disarticulation
- Hemipelvectomy

During alignment of the prosthetic components, it is crucial to pay special attention to the correct position of the joint. Please always make sure that the joint flexes properly in walking direction.

Since a hip joint is always attached to the pelvic cavity in front of the load line, the subsequent run of the tube towards the knee joint must have a posterior direction. This guarantees a backwards inclination of the knee joint axis according to the construction guidelines and a safe standing position of the patient. A tube clamp adapter (11A12/A or 11A20/T) having an inclination of 10° to 20° is inevitably required in most cases to connect the knee joint with the femoral tube.



To ensure stance control, it is always recommendable to use a polycentric knee joint e. g. 3A36 / 3A20 together with a hip prostheses.



## Service Parts Set for 7A4

### Components

1 distal slide control anchor, 1 wire bow with plastic roller, 1 proximal slide control anchor, 1 extension bumper, 2 rubber elastics, 4 countersink head bolts, 1 complete posterior strut

Item-No.
7A4/E



## Spare Hip Extension Assist for 7A4

Item-No.
7A4/E1



## Lamination Plate for 7A4

- lamination plate for modular hip joint 7A4 with screw connection

Item-No.
7A4/E2



## Service Parts Set for 7A5

### Components

1 tappet, 1 guide sleeve, 1 extension assist spring, 1 hexagon socket head screw M3, 1 extension stop bumper, 2 cap screws M8x25, 1 cap screw M5x30, 1 lock ring and 1 protective sleeve

Item-No.
7A5/E



## Lamination Plate for 7A5

- lamination plate for modular hip joint 7A5 with screw connection

Item-No.
7A5/E2



Socket Comfort








# Socket Comfort – at one glance

	ClearSil. compression	ClearSil.basic	ClearSil.stabil	ClearSil.cushion
Walky System				
Pear-shaped BK stump (trans-tibial stump)	××× post-operative	××		×
Normal cylindrical, BK stump (trans-tibial stump)	××× post-operative	××	××	××
Bony conical BK stump (trans-tibial stump)				××× for pressure-sensitive residual limb ends
Cylindrical AK-stump (trans-femoral stump)	××× post-operative			
Conical AK-stump (trans-femoral stump)	××× post-operative			

××× = optimal      ×× = good      × = suitable

Please see the introductory pages of this catalogue for more information about our Walky-system.



DuoSil.basic	ComfortSil.basic ComfortSil.soft	ClassicSil.basic ClassicSil.soft	AK-Control.Sil	ContexGel.basic ContexGel.soft ContecGel.soft+
				
×	×	×	×	×
	3 mm basic	3 mm basic		×
×	×	×	×	×
	3 mm basic	3 mm basic	for large BK-stumps	×
×	×	×		×
	6 mm soft	6 mm soft		×
			×	×
				use 3 mm version only
			×	×
				use 3 mm version only

# Socket Comfort

In orthopaedic technology, prosthetic care with silicone and polymer-gel-liners has been modern standard since approx. 20 years.

Accordingly, the term "polymer" means that the cushioning material has been made of "many identical particles". Silicone is a polymer material as well, excellently suitable for cushioning purposes in orthopaedic technology.

The softer and thicker the polymer layer is; the less suitable it is for higher activities resp. the shorter the lifespan of the polymer. Polymer-liners target the user group with level 1 or 3 in our walky-system or with very sensitive, bony residual limbs.

The thinner and more solid the polymer layer is, the more control of the prosthetic socket is provided and therefore it is suitable for patients with higher activity. The more solid material is usually silicone and therefore it is more durable than softer polymer. The user group for these liners usually are classified 2 to 4 in our walky-system.



### **Benefits of Liners by Streifeneder ortho.production GmbH for the user**

- Maximum wearing comfort of the prosthetic socket
- Punctual and surface cushioning for bony, scarred and difficult residual limbs
- Shape stability for excess soft tissue
- Targeted stump compression for reduction and prevention of oedema; post operative and preventative
- Reduction of stump volume changes (stump fluctuations)
- Reduced elongation due to integrated, textile reinforcement
- Skin caring ingredients such as medical white oil provide protection and care
- Safe adaption between user's stump and prosthesis by means of proven pin- or cord lock or vacuum socket technology (VST)
- Simple handling, easy cleaning and guaranteed longevity
- Easy rolling up and down of the liner due to smooth fabric cover
- Less restraining prosthetic care possible (renouncement of high condylar guard or upper thigh cuff with lateral splint guard)

### **Features**

- Additives with aseptic surface effects
- Improved polymer features
- Distal rotation control for more stability
- Anti-rotation strips for above-knee liners AK-Control.Sil 60L1
- New functional cover fabric

# Socket Comfort – FAQs

## **Skin irritations in the area of the liner edge (little blisters on the skin)?**

Skin irritations sometimes appear at the liner edge upon first use of polymer-liners. Usually, cutting the liner edge into shape with a pair of scissors helps. When cutting, the cutting edge can be broken with a small pair of half-round scissors. Another reason is putting on the liner under tension. Especially for problems in the rear, upper thigh area, a thinner liner is recommendable. Additionally, in order to minimize friction, the skin in the edge area can be coated with skin cream (e.g. Skin Protection Cream 10H3).

## **Skin irritations on the entire residual limb skin?**

Generally, the inside of all silicone and polymer-gel-liners must be washed prior to first use with lots of warm water and pH-neutral soap (e.g. with Skin-Care-Washing Lotion 10H2) and then dried with a paper towel. A new prosthesis always creates a new skin situation in the liner and every user may react in a different way. At the beginning, excessive sweating in the liner may lead to allergic reactions and therefore, hygiene is very important. The solution for this is also very careful washing of the liner with neutral soap (10H2) and lots of water.

Another reason for allergic reactions in connection with damage of the liner material may be caused by medication, which releases substances through the skin pores due to natural metabolic processes and lead to a chemical reaction with sweat. If this is the cause, a medical doctor or dermatologist must be consulted.

## **Excessive sweating in the liner does not stop. What could be the cause?**

If excessive and permanent sweating in the liner continues, size and fit of the liner in the prosthetic socket must be checked. Air locked in between residual limb skin and liner may lead to excessive sweating.

## **The BK-prosthesis wearer complains about red skin above and on the knee cap?**

Usually, it already helps to unroll the liner over a slightly bent knee, in order to reduce the skin tension in this area.

## **The pin is never positioned straight in the socket?**

Possible causes are either the stump position in the phase of putting the liner on with the result of an unfortunate flexion angle during entering the prosthetic socket. Or, a very distinctive socket shape, which squeezes the residual limb together with the liner into a certain direction when entering. Both will lead to unilateral friction spots in the hopper area of the locking system.

Putting the liner cup transversally onto the stump end may solve the problem.

Generally, already during plaster casting, the centered pin position at the liner must be considered, in order to avoid the above mentioned problems later.

### How do I care for the liner?

All liners must be carefully cleaned with Skin-Care-Washing Lotion 10H2 prior to first use, in order to remove possible residues from manufacturing and to avoid skin irritations.

Daily cleaning of the liner with Skin-Care-Washing Lotion 10H2 prevents skin irritations and extends the life time of the liner. For heavy-duty use, the liner may be put on each day in a position turned by a few centimeters, this will provide even wear.



# Socket Comfort – Silicone Liners

## Features of Silicone Liners by Streifeneder ortho.production GmbH

### Liners with quality seal

To improve the hygienic conditions for liner wearers, we use special additives which produce an aseptic surface effect. One of our additives is "Sterione" and is supplied by a company with the same name, SteriOne GmbH. This patented technology grants that the treated liner material permanently inhibits infestation of bacteria and micro-organisms. The liners sold by Streifeneder ortho.production GmbH have been awarded a quality seal and are approved as "antibacterial". The symbol shown below indicates the use of Sterione for antibacterial effect. This effect has also been approved by one more, independent testing institute

### The quality seal grants

- Effectiveness period of at least five years
- Elimination of 5 million germs per hour and square-centimeter



### The application of Sterione effectively prevents

- bacteria growth (e.g. pneumococco-bacilli and multi-resistant micro-organisms such as MRSA)
- Test strains *Staphylococcus aureus* and *Escherichia coli*

### Rotation control of Comfort.Sil Liner, Classic.Sil Liner and AK-Control.Sil Liner

- More rotation stability between liner and prosthetic socket
- Better guidance and control of the BK-prosthesis

### AK-Control.Sil Liner 60L1 with anti rotation strips

- More rotation stability between liner and prosthetic socket
- Better guidance and control of the BK-prosthesis

### Silver-grey fabric coating with improved features (rolling characteristics, longevity) of the silicone liners

- Recognition value for all Silicone Liners with fabric cover



## Benefits of Silicone Liners by Streifeneder ortho.production GmbH

- Excellent cleaning properties by closed-pore surface
- Outstanding skin comfort, as silicone is physiologically safe
- Oils contained in the silicone moisturise the residual limb skin
- Thin liner wall provides at the same time good shape stability
- Good circular elasticity for stump fluctuations
- Low longitudinal tension of silicone liners with fabric cover
- Positive compression benefits the stump
- Excellently suited for early care (interim care)
- Resistant against body fluids, chlorine and UV-light; sterilisable at approx. 120 °C (248 °F)
- Special sizes with matrix length of up to 18 cm available upon request

## How to choose the correct liner

### 1. Step

Size determination for a silicone liner – Measure the distal circumference approx. 4 cm above the tip of the stump. The first two numbers indicate the basic size, e. g. measured circumference 28 cm = size 28

Please order the silicone liner without fabric cover as follows

- For the initial supply two to three sizes smaller
- For the follow-up supply one to two sizes smaller

Please order the silicone liner with fabric cover as follows

- For the initial supply one to two sizes smaller
- For the follow-up supply zero to one size smaller

Please take these calculated values only as a guideline, since each patient has his or her individual requirements.

### 2. Step

Finding the correct matrix length for a silicone liner – The precise length of the stump as well as the structure of the bones is decisive for selecting the correct interior laminate.

We recommend

- A minimum of 6 cm into the bony structure
- Ending below the fibula head (distally) at the most

Customized model: We can manufacture special design liners with a matrix of 5 cm for very short stumps and liners up to 18 cm for long stumps.

### 3. Step

Trimming the silicone liner

- Easily cut the rim of the liner as desired using a pair of scissors.
- The reversal-safe intermeshing of the jersey fabric allows for a problem-free and individual trimming of the liner.





# Socket Comfort – Silicone Liners



## ClearSil.compression

Post surgical compression liner without internal matrix and without distal connection



total length: approx. 370 mm



### Designated use

- targeted stump compression after leg amputation
- early accommodation to silicone liner use
- early forming of the stump

### Characteristics

- silicone liner without internal matrix and without distal connection
- controlled compression
- bandaging not necessary, therefore no restriction due to wrong bandaging
- enhances blood circulation and reduces edema accumulation
- heat resistant, therefore suitable for steam sterilisation at 120 °C

### Material

- wall thickness: see sketch
- Clear-Sil-Silicone, firm, antibacterially fitted
- approx. 53 Shore 00
- without textile cover
- colour: translucent

### Warranty

- 12 months

Size	Item-No.
23,5, 25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45	1S22/..

Ordering example 1S22/23,5 = size 23,5

**S** For application of silicone liners without textile lining, skin care spray 10H5 must be used. Please use the supplied compression chart for documentation of the residual limb volume.

without picture

## ClearSil.compression Sets

Post surgical compression liner sets in various sizes

- application, characteristics and material like item 1S22

Set	Content	Item-No.
1	sizes 23,5, 25, 26,5	1S22/1
2	sizes 28, 30, 32, 34	1S22/2
3	sizes 36, 38, 40	1S22/3

# Socket Comfort – Silicone Liners



## ClearSil.basic

Silicone liner without internal matrix, with and without distal connection

### Designated use

- activity level (walky): 2 to 4
- well-suited for short residual limbs
- interim prostheses and early applications

### Characteristics

- silicone liner without internal matrix
- with and without distal connection
- distally very elastic
- due to the high stability, very suitable for medium active wearers of prostheses
- compresses the stump
- heat resistant, therefore suitable for steam sterilisation at 120 °C

### Material

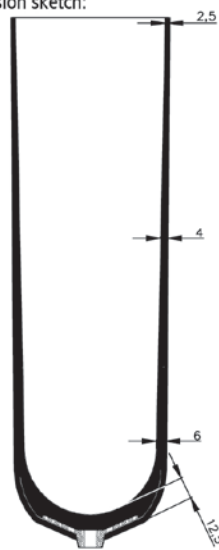
- wall thickness: see sketch
- Clear-Sil-Silicone, firm, antibacterially fitted
- approx. 53 Shore 00
- without textile cover
- colour: translucent

### Warranty

- 12 months



Dimension sketch:



Size	Distal connection	Item-No.
12, 14, 16, 18, 20, 21, 22, 23,5, 25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45	with	1S3/..
12, 14, 16, 18, 20, 21, 22, 23,5, 25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45	without	1S4/..

Ordering example: 1S3/12 = with distal connection, size 12

**Sizing:** Measure the distal circumference approx. 4 cm above the stump end and select the liner in the same size or one size smaller. For application of silicone liners without textile lining skin care spray 10H5 must be used.

total length: approx. 370 mm



# Socket Comfort – Silicone Liners



## DuoSil.basic

Two layer silicone liner with 10 cm internal matrix, with distal connection, made of DuoSil-Silicone

### Designated use

- activity level (walky): 1 to 3
- suitable as a basic fitting for medium active patients
- suitable for difficult stump conditions

### Characteristics

- two layer silicone liner
- with very soft internal silicone layer for high wearing comfort and optimal damping
- harder silicone layer on the outside gives the liner stability and tear resistance
- 10 cm inner matrix reduces axial expansion
- with distal connection

### Material

- wall thickness: see sketch
- DuoSil-Silicone, antibacterially fitted
- internal layer: approx. 40 Shore 00, external layer: approx. 50 Shore 00
- without textile cover
- colour: peach

### Warranty

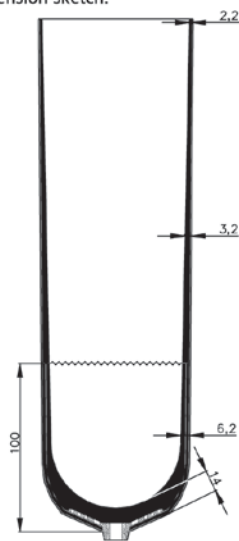
- 12 months

### Custom-made liners

All sizes of liners with different internal matrix of 5 - 18 cm length can be manufactured within 3 - 5 working days at no extra costs. All customized liners are reduced to a 3 months warranty.



Dimension sketch:



Size	Internal matrix	Item-No.
16, 18, 20, 21, 22, 23,5, 25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45	10 cm	1S18/..

Ordering example: 1S18/16 = size 16



**Sizing:** Measure the distal circumference approx. 4 cm above the stump end and select the liner in the same size or one size smaller. For application of silicone liners without textile lining skin care spray 10H5 must be used.

total length: approx. 370 mm



# Socket Comfort – Silicone Liners



## ComfortSil.basic

Silicone Liner made of soft 3 mm Comfort-Sil-Silicone

### Designated use

- activity level (walky): 1 to 3
- suitable as a basic fitting for geriatric patients
- for pressure sensitive patients

### Characteristics

- optimal wearing comfort and damping
- especially soft functional textile cover for easily rolling the liner up or down
- functional textile cover minimises longitudinal expansion
- excellent circular expansion adjusts to volume changes at the residual limb
- item 40L110: integrated 10 cm long matrix reduces the distal elongation at the residual limb
- distal rotation control supports guidance of prosthesis
- available with distal connections for all Streifeneder pin types and locking systems
- available without distal connection and rotation control for vacuum-socket-technology (VST)

### Material

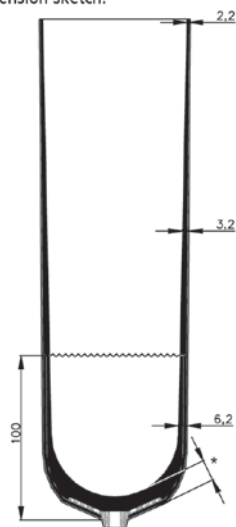
- wall thickness: 3 mm, see sketch
- Comfort-Sil-Silicone, soft, antibacterially fitted
- approx. 26 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- item 40L110 with PUR-rotation control
- colour: silver grey

### Warranty

- 6 months



Dimension sketch:



\* 14 mm without distal connection  
18,5 mm with distal connection

total length: approx. 370 mm

Size	Wall thickness	Internal matrix	Distal connection	Item-No.
16, 18, 20, 21, 22, 23,5, 25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45	3 mm	10 cm	with	40L110/..
16, 18, 20, 21, 22, 23,5, 25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45	3 mm	without	without	40L200/..

Ordering example: 40L110/16 = with distal connection, size 16. Scope of supply includes stand.

**Sizing:** Measure the distal circumference approx. 4 cm above the stump end and select the liner in the same size or one size smaller.



# Socket Comfort – Silicone Liners



## ComfortSil.soft

Silicone liner made of soft 6 mm Comfort-Sil-Silicone

### Designated use

- activity level (walky): 1 to 3
- suitable as a basic fitting for geriatric patients
- for pressure sensitive patients
- for bony residual limbs with low soft tissue coverage

### Characteristics

- optimal wearing comfort and damping
- especially soft functional textile cover for easily rolling the liner up or down
- functional textile cover minimises longitudinal expansion
- excellent circular expansion adjusts to volume changes at the residual limb
- item 41L110: integrated 10 cm long matrix reduces the distal elongation at the residual limb
- distal rotation control supports guidance of prosthesis
- available with and without distal connection
- suitable for all Streifeneder pin types and locking systems

### Material

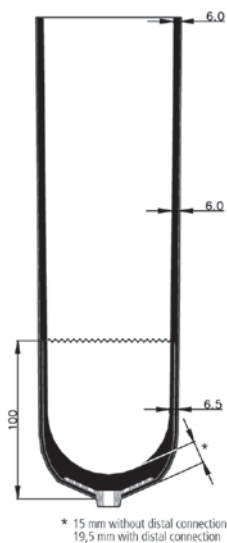
- wall thickness: 6 mm, see sketch
- Comfort-Sil-Silicone, soft, antibacterially fitted
- approx. 26 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- item 41L110 with PUR-rotation control
- colour: silver grey

### Warranty

- 6 months



Dimension sketch:



Size	Wall thickness	Internal matrix	Distal connection	Item-No.
16, 18, 20, 21, 22, 23,5, 25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45	6 mm	10 cm	with	41L110/..
16, 18, 20, 21, 22, 23,5, 25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45	6 mm	without	without	41L200/..

Ordering example: 41L110/16 = with distal connection, size 16. Scope of supply includes stand.

**Sizing:** Measure the distal circumference approx. 4 cm above the stump end and select the liner in the same size or one size smaller.

total length: approx. 370 mm



# Socket Comfort – Silicone Liners



## ClassicSil.basic

Silicone Liner made of 3 mm stable two layer Duo-Sil-Silicone

### Designated use

- activity level (walky): 2 to 4
- excellently suitable for standard care
- for normal pressure-sensitive users with sufficient soft tissue coverage
- „allrounder“

### Characteristics

- optimal wearing comfort and damping
- especially soft functional textile cover for easily rolling the liner up or down
- functional textile cover minimises longitudinal expansion
- excellent circular expansion adjusts to volume changes at the residual limb
- item 50L110: integrated 10 cm long matrix reduces the distal elongation at the residual limb
- distal rotation control supports guidance of prosthesis
- available with and without distal connection
- suitable for all Streifeneder pin types and locking systems

### Material

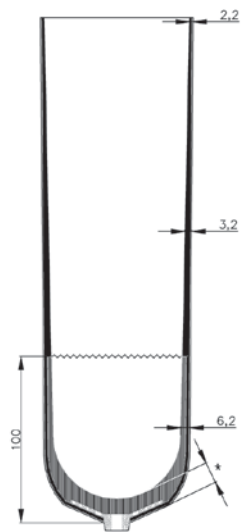
- wall thickness: 3 mm, see sketch
- two layer Duo-Sil-Silicone, stable, antibacterially fitted
- internal layer (on the skin): 26 Shore 00
- middle layer: 53 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- item 50L110 with PUR-rotation control
- colour: silver grey

### Warranty

- 12 months



Dimension sketch:



total length: approx. 370 mm

Size	Wall thickness	Internal matrix	Distal connection	Item-No.
16, 18, 20, 21, 22, 23,5, 25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45	3 mm	10 cm	with	50L110/..
16, 18, 20, 21, 22, 23,5, 25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45	3 mm	without	without	50L200/..

Ordering example: 50L110/16 = with distal connection, size 16. Scope of supply includes stand.



**Sizing:** Measure the distal circumference approx. 4 cm above the stump end and select the liner in the same size or one size smaller.



# Socket Comfort – Silicone Liners



## ClassicSil.soft

Silicone liner made of 6 mm two layer stable Duo-Sil-Silicone

### Designated use

- activity level (walky): 2 to 4
- excellently suitable for standard care
- for pressure-sensitive users with low soft tissue coverage

### Characteristics

- optimal wearing comfort and damping
- especially soft functional textile cover for easily rolling the liner up or down
- functional textile cover minimises longitudinal expansion
- excellent circular expansion adjusts to volume changes at the residual limb
- item 51L110: integrated 10 cm long matrix reduces the distal elongation at the residual limb
- distal rotation control supports guidance of prosthesis
- available with and without distal connection
- suitable for all Streifeneder pin types and locking systems

### Material

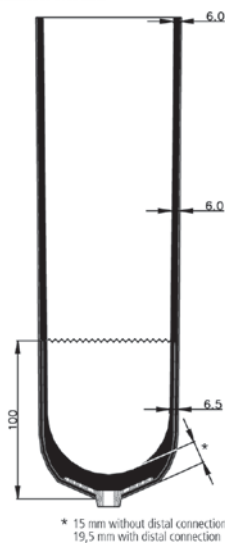
- wall thickness: 6 mm, see sketch
- two layer Duo-Sil-Silicone, stable, antibacterially fitted
- internal layer (on the skin): 26 Shore 00
- middle layer: 53 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- item 51L110 with PUR-rotation control
- colour: silver grey

### Warranty

- 12 months



Dimension sketch:



Size	Wall thickness	Internal matrix	Distal connection	Item-No.
16, 18, 20, 21, 22, 23,5, 25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45	6 mm	10 cm	with	51L110/..
16, 18, 20, 21, 22, 23,5, 25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45	6 mm	without	without	51L200/..

Ordering example: 51L110/16 = with distal connection, size 16. Scope of supply includes stand.

**Sizing:** Measure the distal circumference approx. 4 cm above the stump end and select the liner in the same size or one size smaller.

total length: approx. 370 mm



# Socket Comfort – Silicone Liners



## AK-Control.Sil

Trans-femoral silicone liner made of medium stable Control-Sil-Silicone, with distal connection and anti-rotation strips

### Designated use

- activity level (walky): 1 to 4
- ideal for liner-care of above-knee amputations and for care of voluminous below-knee amputations

### Characteristics

- 2 mm wall thickness for controlled expansion in the socket entry zone
- outer matrix (sewed-on strip) for reduction of longitudinal expansion (inhibited longitudinal expansion)
- anti-rotation strips on the outer matrix prevent twisting between liner and prosthetic socket
- especially soft functional textile cover for easily rolling the liner up or down
- very good radial expansion adjusts to volume changes of the residual limb
- rotation control to improve guidance of prosthesis
- with distal connection for all Streifeneder pin types and locking systems

### Material

- wall thickness: 2 mm, see sketch
- Control-Sil-Silicone, medium stable, antibacterially fitted
- approx. 40 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- three rows of silicone stripes on the textile strip in vertical direction
- with PUR-rotation control
- colour: silver grey / black

### Warranty

- 6 months



width of textile strip: 38 mm

Size	Wall thickness	Item-No.
25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45, 50, 55	2 mm	60L1/..

Ordering example: 60L1/25 = size 25. Scope of supply does include stand.

**Sizing:** Measure the distal circumference approx. 4 cm above the stump end and select the liner in the same size or one size smaller.

Dimension sketch:



total length: approx. 370 mm





# Socket Comfort – Silicone Liners



## AK-Control.Sil

Trans-femoral silicone liner made of medium stable Control-Sil-Silicone, with distal connection, without anti-rotation strips

### Designated use

- activity level (walky): 1 to 4
- ideal for liner-care of above-knee amputations and for care of voluminous below-knee amputations

### Characteristics

- 2 mm wall thickness for controlled expansion in the socket entry zone
- outer matrix (sewed-on strip) for reduction of longitudinal expansion (inhibited longitudinal expansion)
- especially soft functional textile cover for easily rolling the liner up or down
- very good radial expansion adjusts to volume changes of the residual limb
- rotation control to improve guidance of prosthesis
- with distal connection for all Streifeneder pin types and locking systems

### Material

- wall thickness: 2 mm, see sketch
- Control-Sil-Silicone, medium stable, antibacterially fitted
- approx. 40 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- crosswise elastic textile strip to limit longitudinal stroke
- with PUR-rotation control
- colour: silver grey / black

### Warranty

- 6 months



width of textile strip: 20 mm

Size	Wall thickness	Item-No.
25, 26,5, 28, 30, 32, 34, 36, 38, 40, 42, 45, 50, 55	2 mm	60L5/..

Ordering example: 60L5/25 = size 25. Scope of supply does include stand.

**Sizing:** Measure the distal circumference approx. 4 cm above the stump end and select the liner in the same size or one size smaller.

Dimension sketch:



total length: approx. 370 mm





# Socket Comfort – Gel Liners

## Benefits of Gel-Liners

- „Flow characteristics“ (viscoelasticity) of the polymer gel provide even pressure distribution in the socket; e.g. significantly reduce pressure- and shear forces
- Medical white oils in the polymer gel provide care for the stressed stump skin and maintain the natural skin moisture
- Contex-Gel Liners are mouldable at 60 °C – for optimal adaption to unusual stump shapes
- Various ventral wall thicknesses (3, 6, 9 mm) with constant thin dorsal wall thickness (3 mm); e.g. additional cushioning for soft tissue substitution especially in pressure sensitive areas
- Conical liner shape for better adaption to most stump conditions
- Available with distal connection for all pin types and lock series sold by Streifeneder ortho.production
- Available without distal connection for targeted stump moulding and for vacuum socket technology (VST)
- Excellently suited for prosthetic care of below-knee residual limbs, knee-ex articulations and above-knee residual limbs
- For users with difficult stumps and low to medium activity



# Socket Comfort – Gel Liners

## Benefits of Gel-Liners

### Hints for the technician / user

Streifeneder Polymer Gel has been dermatologically tested, inhibits bacteria and is hydro allergenic. It absorbs pressure, is protective and has a skin-care effect and therefore makes the Contex-Gel-Liner very comfortable.

Gel-Liner require softly moulded prosthetic sockets! Edgy moulded socket shapes create possible pressure points at small surfaces, which may lead to premature material fatigue. Sharp prosthetic socket edges also cause premature tear of the ContexGel products. Please consider this when manufacturing the prosthetic socket and construct rounded edges.

Do not select a liner too small, as this may reduce the shock absorption characteristics (see Contex-Gel-Liner measuring chart).

The liner should not be shortened more than 10 cm circular above the socket edge.

Before first use, all Contex-Gel products must be cleaned with Skin-Care-Washing Lotion 10H2 and lots of warm water.

Generally, daily cleaning of the Contex-Gel-Liner resp. the Contex-Gel-Knee Sleeve is mandatory.

Please sensitize the users for these recommendations.

All products made of Streifeneder polymer gel are easy to clean. Cleaning does not affect their features. For cleaning, we recommend our pH-neutral washing lotion 10H2 and lots of warm water to rinse off the soap. After washing, the Contex-Gel-Liner is dried on the supplied liner stand. Usually, washing is done every evening / day, so enable the liner to dry at night.



# Socket Comfort – Gel Liners



## ContexGel.basic

ContexGel-Liner, 3 mm, made of soft ContexGel

### Designated use

- activity level (walky): 1 to 3
- for above-knee and below-knee amputees
- suitable to substitute soft tissue at the residual limb end
- for bony, pressure sensitive or difficult leg stumps

### Characteristics

- thermoplastic mouldable at 60 °C (140 °F)
- optimal wearing comfort and good shock absorption in the entire stump area
- especially soft functional textile cover for easily rolling the liner up or down
- functional textile cover minimises longitudinal expansion
- excellent circular expansion adjusts to volume changes at the residual limb
- distal rotation control supports guidance of prosthesis
- available with distal connections for all Streifeneder pin types and locking systems
- available without distal connection for vacuum system technology (VST)

### Material

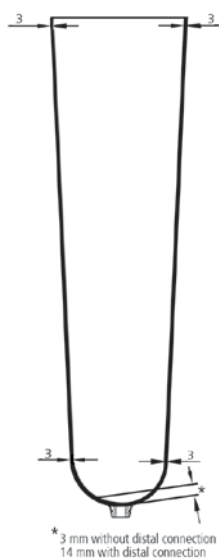
- wall thickness: 3 mm, conical shape
- soft ContexGel with medical white oil, antibacterially fitted
- approx. 25 – 30 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- item 20L100 with PUR-rotation control
- colour: anthracite

### Warranty

- 6 months



Dimension sketch:



total length: approx. 420 mm



Size	Distal	Proximal	Distal connection	Item-No.
S	16 – 23 cm	25 – 36 cm	with	20L100/S
M	19 – 30 cm	30 – 43 cm	with	20L100/M
L	24 – 34 cm	38 – 58 cm	with	20L100/L
XL	28 – 39 cm	41 – 63 cm	with	20L100/XL
XXL	32 – 44 cm	43 – 69 cm	with	20L100/XXL
S	16 – 23 cm	25 – 36 cm	without	20L200/S
M	19 – 30 cm	30 – 43 cm	without	20L200/M
L	24 – 34 cm	38 – 58 cm	without	20L200/L
XL	28 – 39 cm	41 – 63 cm	without	20L200/XL
XXL	32 – 44 cm	43 – 69 cm	without	20L200/XXL

Scope of supply does include stand.

# Socket Comfort – Gel Liners



## ContexGel.basic

ContexGel-Liner, 3 mm, made of soft ContexGel, with outer matrix

### Designated use

- activity level (walky): 1 to 3
- for above-knee and below-knee amputees
- suitable to substitute soft tissue at the residual limb end
- for bony, pressure sensitive or difficult leg stumps

### Characteristics

- thermoplastic mouldable at 60 °C (140 °F)
- optimal wearing comfort and good shock absorption in the entire stump area
- especially soft functional textile cover for easily rolling the liner up or down
- outer matrix limits longitudinal stroke in the distal area
- functional textile cover minimises longitudinal expansion
- excellent circular expansion adjusts to volume changes at the residual limb
- distal rotation control supports guidance of prosthesis
- available with distal connections for all Streifeneder pin types and locking systems
- available without distal connection for vacuum system technology (VST)

### Material

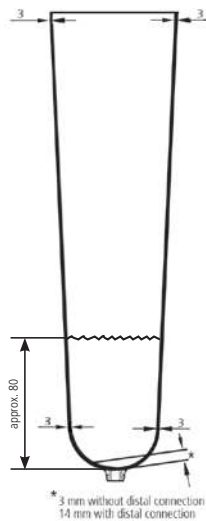
- wall thickness: 3 mm, conical shape
- soft ContexGel with medical white oil, antibacterially fitted
- approx. 25 – 30 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- item 25L100 with PUR-rotation control
- colour: anthracite

### Warranty

- 6 months



Dimension sketch:



total length: approx. 420 mm



Size	Distal	Proximal	Distal connection	Item-No.
S	16 – 23 cm	25 – 36 cm	with	25L100/S
M	19 – 30 cm	30 – 43 cm	with	25L100/M
L	24 – 34 cm	38 – 58 cm	with	25L100/L
XL	28 – 39 cm	41 – 63 cm	with	25L100/XL
XXL	32 – 44 cm	43 – 69 cm	with	25L100/XXL
S	16 – 23 cm	25 – 36 cm	without	25L200/S
M	19 – 30 cm	30 – 43 cm	without	25L200/M
L	24 – 34 cm	38 – 58 cm	without	25L200/L
XL	28 – 39 cm	41 – 63 cm	without	25L200/XL
XXL	32 – 44 cm	43 – 69 cm	without	25L200/XXL

Scope of supply does include stand.

# Socket Comfort – Gel Liners



## ContexGel.soft

ContexGel-Liner, anterior wall thickness 6 mm, posterior wall thickness 3 mm, made of soft ContexGel

### Designated use

- activity level (walky): 1 to 3
- for below-knee amputees
- suitable to substitute soft tissue at the tibia edge and stump end
- for bony and difficult leg stumps

### Characteristics

- thermoplastic mouldable at 60 °C (140 °F)
- optimal wearing comfort and very good shock absorption in the anterior stump area
- especially soft functional textile cover for easily rolling the liner up or down
- thinner wall thickness in the posterior dorsal area improves knee flexion at prosthetic socket
- functional textile cover minimises longitudinal expansion
- excellent circular expansion adjusts to volume changes at the residual limb
- distal rotation control supports guidance of prosthesis
- available with distal connections for all Streifeneder pin types and locking systems
- available without distal connection for vacuum system technology (VST)

### Material

- anterior wall thickness 6 mm, posterior wall thickness 3 mm, conical shape
- soft ContexGel with medical white oil, antibacterially fitted
- approx. 25 – 30 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- item 21L100 with PUR-rotation control
- colour: anthracite

### Warranty

- 6 months



Dimension sketch:



\* 4,5 mm without distal connection  
14 mm with distal connection

total length: approx. 420 mm

Size	Distal	Proximal	Distal connection	Item-No.
S	16 – 23 cm	25 – 36 cm	with	21L100/S
M	19 – 30 cm	30 – 43 cm	with	21L100/M
L	24 – 34 cm	38 – 58 cm	with	21L100/L
XL	28 – 39 cm	41 – 63 cm	with	21L100/XL
XXL	32 – 44 cm	43 – 69 cm	with	21L100/XXL
S	16 – 23 cm	25 – 36 cm	without	21L200/S
M	19 – 30 cm	30 – 43 cm	without	21L200/M
L	24 – 34 cm	38 – 58 cm	without	21L200/L
XL	28 – 39 cm	41 – 63 cm	without	21L200/XL
XXL	32 – 44 cm	43 – 69 cm	without	21L200/XXL

Scope of supply does include stand.



# Socket Comfort – Gel Liners



## ContexGel.soft

ContexGel-Liner, anterior wall thickness 6 mm, posterior wall thickness 3 mm, made of soft ContexGel, with outer matrix

### Designated use

- activity level (walky): 1 to 3
- for below-knee amputees
- suitable to substitute soft tissue at the tibia edge and stump end
- for bony and difficult leg stumps

### Characteristics

- thermoplastic mouldable at 60 °C (140 °F)
- optimal wearing comfort and very good shock absorption in the anterior stump area
- especially soft functional textile cover for easily rolling the liner up or down
- outer matrix limits longitudinal stroke in the distal area
- thinner wall thickness in the posterior dorsal area improves knee flexion at prosthetic socket
- functional textile cover minimises longitudinal expansion
- excellent circular expansion adjusts to volume changes at the residual limb
- distal rotation control supports guidance of prosthesis
- available with distal connections for all Streifeneder pin types and locking systems
- available without distal connection for vacuum system technology (VST)

### Material

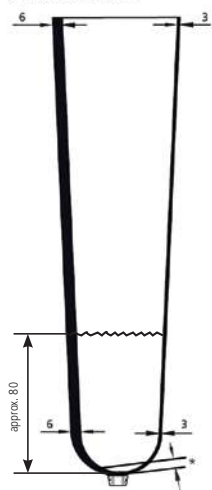
- anterior wall thickness 6 mm, posterior wall thickness 3 mm, conical shape
- soft ContexGel with medical white oil, antibacterially fitted
- approx. 25 – 30 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- item 26L100 with PUR-rotation control
- colour: anthracite

### Warranty

- 6 months



Dimension sketch:



total length: approx. 420 mm

Size	Distal	Proximal	Distal connection	Item-No.
S	16 – 23 cm	25 – 36 cm	with	26L100/S
M	19 – 30 cm	30 – 43 cm	with	26L100/M
L	24 – 34 cm	38 – 58 cm	with	26L100/L
XL	28 – 39 cm	41 – 63 cm	with	26L100/XL
XXL	32 – 44 cm	43 – 69 cm	with	26L100/XXL
S	16 – 23 cm	25 – 36 cm	without	26L200/S
M	19 – 30 cm	30 – 43 cm	without	26L200/M
L	24 – 34 cm	38 – 58 cm	without	26L200/L
XL	28 – 39 cm	41 – 63 cm	without	26L200/XL
XXL	32 – 44 cm	43 – 69 cm	without	26L200/XXL

Scope of supply does include stand.





# Socket Comfort – Gel Liners



## ContexGel.soft+

ContexGel-Liner, anterior wall thickness 9 mm, posterior wall thickness 3 mm, made of soft ContexGel

### Designated use

- activity level (walky): 1 to 3
- for below-knee amputees
- suitable to substitute soft tissue at the tibia edge and stump end
- for bony, very pressure sensitive or difficult leg stumps

### Characteristics

- thermoplastic mouldable at 60 °C (140 °F)
- optimal wearing comfort and excellent shock absorption in the anterior stump area
- especially soft functional textile cover for easily rolling the liner up or down
- thinner wall thickness in the posterior dorsal area improves knee flexion at prosthetic socket
- functional textile cover minimises longitudinal expansion
- excellent circular expansion adjusts to volume changes at the residual limb
- distal rotation control supports guidance of prosthesis
- available with distal connections for all Streifeneder pin types and locking systems
- available without distal connection for vacuum system technology (VST)

### Material

- wall thickness: anterior wall thickness 9 mm, posterior wall thickness 3 mm, conical shape
- soft ContexGel with medical white oil, antibacterially fitted
- approx. 25 – 30 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- item 22L100 with PUR-rotation control
- colour: anthracite

### Warranty

- 6 months



Dimension sketch:



\* 6 mm without distal connection  
14 mm with distal connection

total length: approx. 420 mm

Size	Distal	Proximal	Distal connection	Item-No.
S	16 – 23 cm	25 – 36 cm	with	22L100/S
M	19 – 30 cm	30 – 43 cm	with	22L100/M
L	24 – 34 cm	38 – 58 cm	with	22L100/L
XL	28 – 39 cm	41 – 63 cm	with	22L100/XL
XXL	32 – 44 cm	43 – 69 cm	with	22L100/XXL
S	16 – 23 cm	25 – 36 cm	without	22L200/S
M	19 – 30 cm	30 – 43 cm	without	22L200/M
L	24 – 34 cm	38 – 58 cm	without	22L200/L
XL	28 – 39 cm	41 – 63 cm	without	22L200/XL
XXL	32 – 44 cm	43 – 69 cm	without	22L200/XXL

Scope of supply does include stand.



# Socket Comfort – Gel Liners



## ContexGel.soft+

ContexGel-Liner, anterior wall thickness 9 mm, posterior wall thickness 3 mm, made of soft ContexGel, with outer matrix

### Designated use

- activity level (walky): 1 to 3
- for below-knee amputees
- suitable to substitute soft tissue at the tibia edge and stump end
- for bony, very pressure sensitive or difficult leg stumps

### Characteristics

- thermoplastic mouldable at 60 °C (140 °F)
- optimal wearing comfort and excellent shock absorption in the anterior stump area
- especially soft functional textile cover for easily rolling the liner up or down
- thinner wall thickness in the posterior dorsal area improves knee flexion at prosthetic socket
- functional textile cover minimises longitudinal expansion
- outer matrix limits longitudinal stroke in the distal area
- excellent circular expansion adjusts to volume changes at the residual limb
- distal rotation control supports guidance of prosthesis
- available with distal connections for all Streifeneder pin types and locking systems
- available without distal connection for vacuum system technology (VST)

### Material

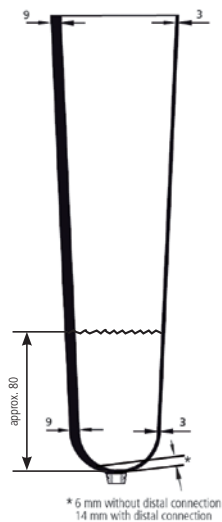
- wall thickness: anterior wall thickness 9 mm, posterior wall thickness 3 mm, conical shape
- soft ContexGel with medical white oil, antibacterially fitted
- approx. 25 – 30 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- item 27L100 with PUR-rotation control
- colour: anthracite

### Warranty

- 6 months



Dimension sketch:



total length: approx. 420 mm

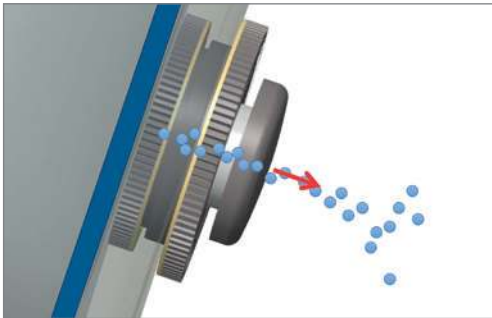


Size	Distal	Proximal	Distal connection	Item-No.
S	16 – 23 cm	25 – 36 cm	with	27L100/S
M	19 – 30 cm	30 – 43 cm	with	27L100/M
L	24 – 34 cm	38 – 58 cm	with	27L100/L
XL	28 – 39 cm	41 – 63 cm	with	27L100/XL
XXL	32 – 44 cm	43 – 69 cm	with	27L100/XXL
S	16 – 23 cm	25 – 36 cm	without	27L200/S
M	19 – 30 cm	30 – 43 cm	without	27L200/M
L	24 – 34 cm	38 – 58 cm	without	27L200/L
XL	28 – 39 cm	41 – 63 cm	without	27L200/XL
XXL	32 – 44 cm	43 – 69 cm	without	27L200/XXL

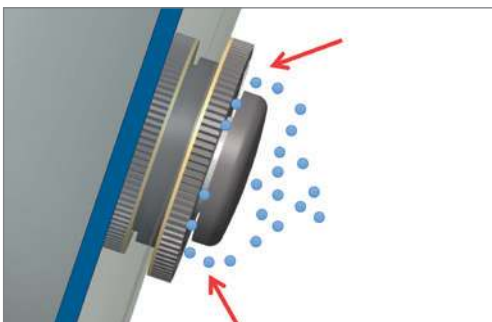
Scope of supply does include stand.

# Socket Comfort – Application Aids

The application aids ContexGel.Knee Sleeve (30L1 and 30L5), AK- and BK-Suspenders (300A1 and 23A1) by Streifeneder ortho.production provide correct support and position of leg prostheses. Especially in vacuum socket technology (VST) for below-knee short prostheses, a closed system without air intrusion is very important. The ContexGel.Knee Sleeve works like a knee- resp. sealing cap; and prevents intrusion of air and together with the exhaust valve (6P50, Active.valve) safely holds the leg prosthesis at the residual limb of the user.



exhaust phase – the compressed air is released through the valve



comfort phase – the vacuum can be regulated by pressing the button

When standing up and in stance phase, the exhaust valve provides a continuous vacuum, which prevents the leg prosthesis from slipping away and therefore minimizes uncomfortable shear- and friction forces on the residual limb. Defined pressure balance can be achieved by using the easy-to-reach pressure button; to take load off the prosthesis user's residual limb, e.g. while sitting.

Traditional varieties of prosthetic applications can be found in a modern version in our AK-Suspenders and BK-Suspenders. These so-called holding supports for above-knee and below-knee prostheses also provide correct connections and at the same time support the guidance of leg prostheses.

## Benefits for the user

- Easier putting the prosthesis on and better wearing guidance of the prosthesis with our without exhaust valve or liner system
- Slip resistant materials at the inside prevent slipping of the prosthetic socket
- Stable and reinforced transversely elastic fabrics optimally adapt to the stump shape
- Wide range of size variety covers individual user conditions



# Socket Comfort – Application Aids



## ContexGel.sleeve

ContexGel knee sleeve, 3 mm uniform



satined knee area of the inner surface



### Designated use

- ContexGel-Knee Sleeves are suitable for below-knee amputees as knee holding support or as sealing cap for vacuum-socket technology (VST)
- additional guidance for the knee and stabilisation for short prostheses
- smaller sizes are used as holding supports in arm prosthetics

### Characteristics

- thermoplastic mouldable at 60 °C (140 °F)
- satined knee area prevents tension sensations in the knee joint area
- for optimal hold in the distal and proximal area
- especially soft functional textile cover for easily rolling the liner up or down
- functional textile cover minimises longitudinal expansion
- excellent circular expansion adjusts to the socket- and stump-anatomy
- product recommendation additionally for vacuum-socket technology (VST)

### Material

- wall thickness: 3 mm, conical shape
- soft ContexGel with medical white oil, antibacterially fitted
- approx. 25 – 30 Shore 00
- abrasion-proof textile cover made of polyamide/elastane
- colour: anthracite 30L1 / sand 30L5

### Warranty

- 3 months

Colour: Anthracite

Size	Distal	Proximal	Length	Item-No.
S	15 – 23 cm	23 – 35 cm	37 cm	30L1/S
M	21 – 31 cm	29 – 44 cm	37 cm	30L1/M
L	28 – 43 cm	36 – 52 cm	38,5 cm	30L1/L
XL	34 – 48 cm	42 – 58 cm	38,5 cm	30L1/XL
XXL	38 – 52 cm	43 – 64 cm	38,5 cm	30L1/XXL

Colour: Sand

Size	Distal	Proximal	Length	Item-No.
S	15 – 23 cm	23 – 35 cm	37 cm	30L5/S
M	21 – 31 cm	29 – 44 cm	37 cm	30L5/M
L	28 – 43 cm	36 – 52 cm	38,5 cm	30L5/L
XL	34 – 48 cm	42 – 58 cm	38,5 cm	30L5/XL
XXL	38 – 52 cm	43 – 64 cm	38,5 cm	30L5/XXL



## ContexGel.protect

Protective cover for ContexGel.sleeve



### Designated use

- protective cover for sharp-edged prosthetic sockets

### Characteristics

- expandable protective cover prevents premature tear of the ContexGel knee sleeves
- the protective cover is worn underneath the ContexGel knee sleeve
- the distal inner side is equipped with a silicone edge, which prevents slipping at the prosthetic socket
- additional adhering not necessary

### Material

- durable and expandable functional fabric, made of polyurethane/polyamide/elastane
- colour: black

### Warranty

- 6 months

Size	Side	For knee sleeve	Length	Item-No.
S	universal	size S	19 cm	3S50/S
M	universal	size M	19 cm	3S50/M
L	universal	size L	22 cm	3S50/L
XL	universal	size XL + XXL	22 cm	3S50/XL

# Socket Comfort – Application Aids



## AK-Suspender

AK-Prosthesis Support



scope of supply does not include components

### Designated use

- fixes a prosthesis at the user's pelvis and prevents slipping of the prosthesis from the residual limb
- the suspender is used to support above-knee (AK-) suspension sockets, if sufficient vacuum cannot be achieved

### Characteristics

- facilitates putting the prosthesis on and improves guidance during wearing the AK-prosthesis without rubber valve or liner system
- slip resistant, elastic neoprene at the inside of the leg section adheres to the socket
- stable, reinforced transversely elastic material in the pelvic / hip area optimally adjusts to the body shape
- individual adjustment options by two frontal hook- and loop fasteners

### Material

- leg section: 100 % neoprene (cellular rubber), outer textile lining: 100 % polyamide (PA)
- pelvic section: 46 % polyamide (PA), 30 % viscose (CV), 24 % elasthane (EL)
- colour: silver/anthracite
- machine washable at 30 °C

Size	Hip circ.	Circ. medial/ socket edge	Side	Item-No.
S	60 – 74 cm	36 – 40 cm	right	300A1/RS
M	66 – 80 cm	40 – 44 cm	right	300A1/RM
L	76 – 90 cm	44 – 48 cm	right	300A1/RL
XL	86 – 100 cm	48 – 52 cm	right	300A1/RXL
XXL	96 – 110 cm	52 – 56 cm	right	300A1/RXXL
S	60 – 74 cm	36 – 40 cm	left	300A1/LS
M	66 – 80 cm	40 – 44 cm	left	300A1/LM
L	76 – 90 cm	44 – 48 cm	left	300A1/LL
XL	86 – 100 cm	48 – 52 cm	left	300A1/LXL
XXL	96 – 110 cm	52 – 56 cm	left	300A1/LXXL

# Socket Comfort – Application Aids



## BK-Suspender

Knitted Holding Aid for BK-protheses



scope of supply does not include components

### Designated use

- additional fixation of the BK-prosthesis at the leg; prevents slipping of the prosthesis of the residual limb
- supports the prosthesis guidance
- supports and takes load off the knee joint capsule when wearing a short prosthesis

### Characteristics

- high circular elasticity, nearly no elasticity in the vertical area
- anatomical, flexional shape

### Material

- 75 % PA polyamid, 25 % EL elasthan (without latex)
- colour: silver/anthracite

### Warranty

- 3 months

PU = 2 pieces

Size	Circ. distal	Circ. proximal	Length	Item-No.
S	26 – 30 cm	34 – 38 cm	35 cm	23A1/S
M	29 – 33 cm	38 – 42 cm	35 cm	23A1/M
L	32 – 36 cm	42 – 46 cm	35 cm	23A1/L
XL	35 – 39 cm	46 – 50 cm	35 cm	23A1/XL

For right and left side.

## Rubber Suspension Sleeve



- for swimming/bathing protheses
- with reinforcement at top and bottom

Length	Proximal	Distal	Item-No.
450 mm	360 mm	200 mm	4P70/K
450 mm	380 mm	230 mm	4P70/M
450 mm	400 mm	230 mm	4P70/G



# Socket Comfort – Application Aids



## Slide.fit

Slip-on aid for above knee prostheses

### Designated use

- slip-on aid for above knee prostheses (for suspension sockets)

### Characteristics

- the gliding material surface of the slip-on aid simplifies putting on the above-knee prosthesis
- long and stiffened sliding aid simplifies application through valve opening of the prosthetic socket
- due to the large grip-tongue, pulling out through the valve opening becomes more energy-saving
- contrast colour stitching for size identification

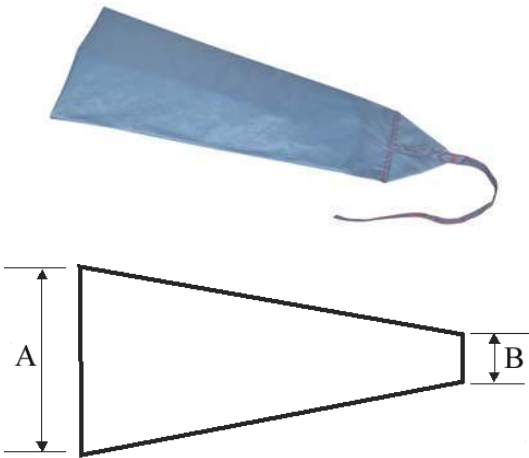
### Material

- fabric: 100 % PA polyamide
- coating: 100 % PUR polyurethane

### Warranty

- 3 months

PU = 1 pc. with storage bag



Stump circ. distal up to (B)	Stump circ. proximal up to (A)	Length of donning aid	Colour	Item-No.
24 cm	40 cm	43 cm	yellow	17A1/XS
26 cm	44 cm	50 cm	red	17A1/S
28 cm	56 cm	50 cm	dark blue	17A1/M
30 cm	68 cm	50 cm	green	17A1/L
36 cm	76 cm	52 cm	light blue	17A1/XL
38 cm	88 cm	60 cm	orange	17A1/XXL



## DAW-Slipper

Slip-on aid for above knee prostheses

### Designated use

- slip-on aid for above knee prostheses (for suspension sockets)

### Characteristics


- the smooth outside helps sliding into the AK prosthesis easier
- the loop of approx. 80 cm length helps pulling in and out through the valve opening
- very durable nylon quality with reinforced distal end
- original DAW product

### Material

- 100 % PA (nylon), colour: white
- very fine, smooth and openly knitted quality
- the knitting technique prevents ladders
- machine washable at 30 °C



AK-circumference	Length	Item-No.
26 - 32 cm	50 cm	13A2/1
33 - 40 cm	50 cm	13A2/2
41 - 50 cm	50 cm	13A2/3
51 - 60 cm	50 cm	13A2/4
61 - 70 cm	50 cm	13A2/5

 AK-circumference must be measured at the height of the upper prosthesis socket.

# Socket Comfort – Application Aids



## Streifycone for Soft-Socket

### Designated use

- pre-fabricated conus with distal end cap for time-saving production of soft-sockets


### Characteristics

- the material Streifyfoam (expanded soft-polyethylene) is optimally thermoplastic mouldable at 130 °C
- does not shrink, features excellent restoring force and is easily cleaned with ph-neutral soapy water

### Material

- closed-cell foam material and therefore very hygienic and non-irritant to the skin
- thickness: 5 mm, Shore A 35 – 40
- height: 425 mm for all sizes

Distal circ.	Proximal circ.	Ø distal end cap	Size	Item-No.
190 mm	390 mm	116 mm	S	6S1/S
230 mm	420 mm	136 mm	M	6S1/M
260 mm	470 mm	136 mm	L	6S1/L

 Heat lying flat in the infrared-oven (50M25) or standing upright in the heating cabinet (50M4) at 130 °C for approx. 10 – 15 minutes, then pull it over the dry cast model. For bonding the distal end cap, it is best to use our forte contact glue (118P13).

# Socket Comfort – Care Products & Accessories

In addition to the right liner, stump sock or sheath the gentle care and cleaning is important for high wearing comfort and skin protection. The care products from Streifeneder help the user to protect liner and skin, offer maximum hygiene and are easy to use.





# Socket Comfort – Care Products & Accessories



## Stump Care Agent PC30V

- stump care cream for external application, for the wearers of prostheses, as well as of other orthopaedic appliances and accessories
- prevents pressure and rubbing zones
- also conditions and strengthens the skin
- applicable for decubitus prophylaxis
- free of skin irritating substances

Volume	Item-No.
100 ml	10H1/100
250 ml	10H1/250



## Skin Care -Washing Lotion-

- cleans skin, prostheses, orthoses and liners with gentle care
- prevents skin irritations
- pH-neutral
- prevents body odour

Volume	Item-No.
250 ml	10H2



## Skin Care -Skin Protection Cream-

### Material

- silicoderm F, based on silicone-oil

### Application

- skin protection especially prior to and after casting works

### Characteristics

- develops an efficient protective film
- protects the physiological acid film
- economical use

PU = 1 tube

Content	Item-No.
35 ml	10H3



## Skin Care -Moisturising Lotion-

- conditions and regenerates dry and stressed skin
- protects against pressure and rubbing
- soothes skin irritations
- reduces sweat and odour

Volume	Item-No.
250 ml	10H4

# Socket Comfort – Care Products & Accessories



## Skin Care -Spray-



- spray for liners without textile covers
- the silicone liner receives a slide-on layer with the spray
- for easier putting on and off
- optimal grip by rapid vaporescence

Volume	Item-No.
200 ml	10H5
Refill bottle for Skin Care Spray 1000 ml	10H5/1



## Rotary Cutter

- cuts textile and liner material without difficulty
- the rotary blade facilitates contouring accuracy
- blade diameter 45 mm

Item-No.
166P55



## Replacement Blade

- for item 166P55

Cut of blade	Diameter	Item-No.
straight	45 mm	166P55/1



## Wave Cut Scissors

- cutting surface with serrated edge (1 wave 2 cm)
- for cutting and shaping Silicone- and Contex-Gel-Liners
- prevents tearing of cutting edges of liners caused by stretching
- improves distribution of circular shearing forces on the residual limb skin, which reduces skin irritations

Length	Item-No.
240 mm	166P36

# Socket Comfort – Stump Care

The demands on a stump sock are very high and manifold. The outer surface should be as smooth as possible, yet hard-wearing; while the collar should be elastic and prevent incisions of the skin. When directly worn on the skin, breathability, anti-allergic properties, rapid drying, good adherence and close meshed textiles are desirable to protect against friction. Stump socks from Streifeneder are available in various designs depending on the desired use – e.g. made of terrycloth, cotton or nylon, or suitable for ak-, bk- or arm-stumps.

With our exclusive selection of DAW protection covers, we offer protective covers with appraised quality and reliability. The exceptionally thin seam – a special trademark- distinguishes the nylon DAW protection cover. The use of new manufacturing machines allows for a yet improved and even more regular knitting pattern.



Sharp-edged socket trim lines result in premature wear of the stump sock. Therefore, please make sure to manufacture round edges.

Please take into account that the hem of the DAW nylon protective cover (10 cm) is not to be measured when determining the length. This hem is turned back over the rim of the socket to prevent the sock from sliding into the socket. At the same time, it covers the socket trim line and thereby protects the clothing.




- Available with or without pin hole, in different thicknesses, materials and colours
- Large selection of stump socks for above-knee, below-knee and arm stumps
- Increases durability life of gel liners
- Postoperative compression therapy
- Compensates stump volume changes
- Additional cushioning towards liner or inner socket
- Thermoactive
- Long-lasting

# Socket Comfort – Streifyderm

Streifyderm refers to our cushioning stump socks with integrated polymer gel.

With the Streifyderm stump socks, Streifeneder ortho.production is able to offer additional high-quality products for a below the knee prosthetic fitting. Streifeneder stump socks stand out due to their excellent combination of elastic nylon fabric ("Spandex") and softly cushioning polymer gel.

 Please wash all socks with mild, pH-neutral soap and lukewarm water.



The polymer-gel contains medical mineral oils, that offer the following advantages

- Nurturing the skin through constant release of mineral oils during wearing.
- Reduction of mechanical stress (shearing forces) on the already particularly stressed stump skin.
- Cushions and protects particularly delicate stump areas such as the edge of the shinbone, fibula head and the end of the residual limb.
- Has a pressure discharging effect on the above mentioned stump areas.
- Adaption of the Streifyderm stump socks to the stump shape in the course of wear.




# Socket Comfort – Compression Stump Socks

In order to reduce the post-operative oedema after an amputation, the attending physician will prescribe a compressing stump sock therapy. The compression stump socks (shrinkers) are used to reduce the post-operative swelling and to bring the residual limb into proper shape and constant volume.

Depending on the size of the oedema and the pressure sensitivity of the user, two different compression classes are available (compression class Ccl. 1 = light compression; compression class Ccl. 2 = medium compression).

Regular use of the compression stump sock provides correct modelling of the residual limb and preparation of the limb for the prosthesis. Mainly, the goal is to achieve a cylindrical or conical shape of the residual limb; which will simplify putting on the leg prosthesis; resp. the compression socks will prevent development of new oedemas after taking the leg prosthesis off.

 Please use our chart „compression therapy“ in the instruction manual to note the daily volume of the residual limb.

Users sensitive to pressure can also wear two compression socks of compression class Ccl. 1 (light) over each other to increase the effect.

To simplify putting on the compression stump socks, please wear rubber gloves.

Please inform your customer that long fingernails or sharp-edged rings may damage the compression stump sock.



# Socket Comfort – Stump Socks

## Stump Sock StreifyDerm

2 mm polymer gel

- for the prosthetic provisioning of the lower extremities
- stump sock consisting of nylon textures and coated with 2 mm polymer gel



Gel length / size	Stump length	Circ. distal	Circ. proximal	Item-No.
20 cm / 1	25 – 34 cm	17 – 24 cm	17 – 26 cm	26A10/1
25 cm / 2	38 – 44 cm	18 – 28 cm	18 – 32 cm	26A10/2
25 cm / 3	38 – 44 cm	20 – 34 cm	20 – 38 cm	26A10/3
33 cm / 4	43 – 49 cm	20 – 34 cm	20 – 38 cm	26A10/4
25 cm / 5	43 – 49 cm	23 – 37 cm	23 – 43 cm	26A10/5
33 cm / 6	46 – 54 cm	23 – 37 cm	23 – 43 cm	26A10/6
33 cm / 7	46 – 54 cm	28 – 42 cm	28 – 49 cm	26A10/7
33 cm / 8	46 – 54 cm	31 – 50 cm	31 – 56 cm	26A10/8

## Stump Sock StreifyDerm Cushion

3 mm polymer gel

- for the prosthetic provisioning of the lower extremities
- consisting of nylon texture and coated with 3 mm polymer gel



Gel length / size	Stump length	Circ. distal	Circ. proximal	Item-No.
20 cm / 1	25 – 34 cm	17 – 24 cm	17 – 26 cm	26A20/1
25 cm / 2	38 – 44 cm	18 – 28 cm	18 – 32 cm	26A20/2
25 cm / 3	38 – 44 cm	20 – 34 cm	20 – 38 cm	26A20/3
33 cm / 4	43 – 49 cm	20 – 34 cm	20 – 38 cm	26A20/4
25 cm / 5	43 – 49 cm	23 – 37 cm	23 – 43 cm	26A20/5
33 cm / 6	46 – 54 cm	23 – 37 cm	23 – 43 cm	26A20/6
33 cm / 7	46 – 54 cm	28 – 42 cm	28 – 49 cm	26A20/7
33 cm / 8	46 – 54 cm	31 – 50 cm	31 – 56 cm	26A20/8

## Stump Sock StreifyDerm Endurance

two nylon textures and 2 mm polymer gel

- for the prosthetic provisioning of the lower extremities
- consisting of two nylon textures and with 2 mm polymer gel in between



Gel length / size	Stump length	Circ. distal	Circ. proximal	Item-No.
20 cm / 1	25 – 34 cm	17 – 24 cm	17 – 26 cm	26A30/1
25 cm / 2	38 – 44 cm	18 – 28 cm	18 – 32 cm	26A30/2
25 cm / 3	38 – 44 cm	20 – 34 cm	20 – 38 cm	26A30/3
33 cm / 4	43 – 49 cm	20 – 34 cm	20 – 38 cm	26A30/4
25 cm / 5	43 – 49 cm	23 – 37 cm	23 – 43 cm	26A30/5
33 cm / 6	46 – 54 cm	23 – 37 cm	23 – 43 cm	26A30/6
33 cm / 7	46 – 54 cm	28 – 42 cm	28 – 49 cm	26A30/7
33 cm / 8	46 – 54 cm	31 – 50 cm	31 – 56 cm	26A30/8

# Socket Comfort – Stump Socks



## Below-Knee Compression Stocking

with silicone-knops grip top, antibacterially fitted



### Mode of action

- compression therapy; the respective compression class is determined by the responsible medical doctor. Standard-compression pressure for compression class 1 (light) is 18 - 21 mm Hg, (2,4 – 2,8 hPa); for compression class 2 (medium) it is 23 – 32 mm Hg, (3,1 – 4,3 hPa)

### Indication

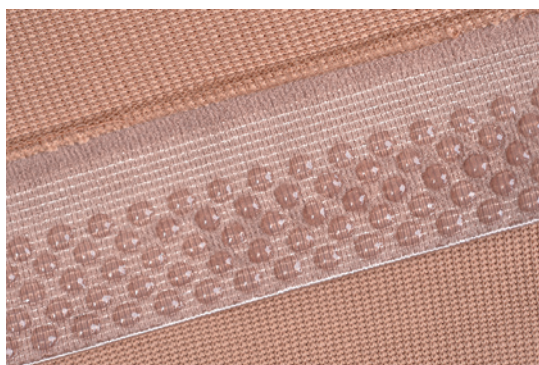
- for reduction of post-surgical oedema after below-knee amputation
- for preparation and plaster-casting of the residual limb for the prosthesis
- for oedemata prevention after taking the leg prosthesis off

### Contraindication

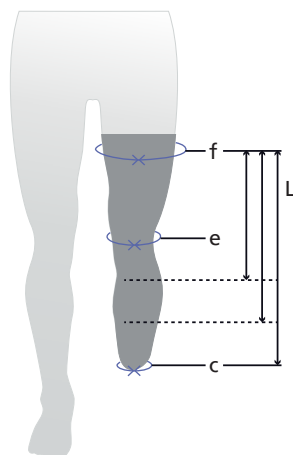
- open wounds
- non-reducible oedemata
- stasis dermatitis (dermatitis varicosa)
- peripheral artery occlusive disease (PAOD)
- thrombophlebitis acuta
- decompensated heart insufficiency

### Material

- circular knitted fabric, antibacterially fitted
- 78 % polyamide
- 22 % elastane
- with silicone-knobs grip top



Size	Circ. f	Circ. e	Circ. c	Length L
XS	41 cm	31 cm	29 cm	30, 38, 46 cm
S	44 cm	34 cm	32 cm	30, 38, 46 cm
M	47 cm	37 cm	35 cm	30, 38, 46 cm
L	50 cm	40 cm	38 cm	30, 38, 46 cm
XL	53 cm	43 cm	41 cm	30, 38, 46 cm
XXL	56 cm	46 cm	44 cm	30, 38, 46 cm



Compression class 1: 452A1 + size + length / Compression class 2: 452A2 + size + length

Ordering example: 452A1/XS30 = compression class 1, size XS, length 30 cm



For documentation of the volume, use the chart in the instruction manual.



# Socket Comfort – Stump Socks



## Above-Knee Compression Stocking

with hip attachment, antibacterially fitted



### Mode of action

- compression therapy; the respective compression class is determined by the responsible medical doctor. Standard-compression pressure for compression class 1 (light) is 18 - 21 mm Hg, (2,4 – 2,8 hPa); for compression class 2 (medium) it is 23 – 32 mm Hg, (3,1 – 4,3 hPa)

### Indication

- for reduction of post-surgical oedema after above-knee amputation
- for preparation and plaster-casting of the residual limb for the prosthesis
- for oedemata prevention after taking the leg prosthesis off

### Contraindication

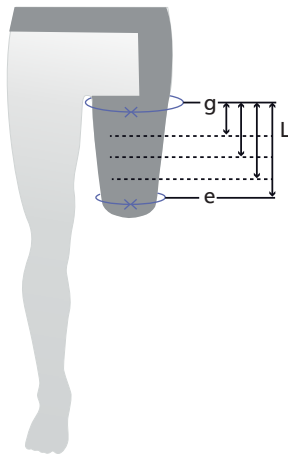
- open wounds
- non-reducible oedemata
- stasis dermatitis (dermatitis varicosa)
- peripheral artery occlusive disease (PAOD)
- thrombophlebitis acuta
- decompensated heart insufficiency

### Material

- circular knitted fabric, antibacterially fitted
- 78 % polyamide
- 22 % elastane
- with hip attachment



Size	Circ. g	Circ. e	Length L
XS	44 cm	31 cm	20, 25, 30, 35 cm
S	48 cm	34 cm	20, 25, 30, 35 cm
M	52 cm	37 cm	20, 25, 30, 35 cm
L	56 cm	40 cm	20, 25, 30, 35 cm
XL	60 cm	43 cm	20, 25, 30, 35 cm
XXL	64 cm	46 cm	20, 25, 30, 35 cm



Compression class 1: 451A1 + size + length / Compression class 2: 451A2 + size + length

Ordering example: 451A1/XS20 = compression class 1, size XS, length 20 cm



For documentation of the volume, use the chart in the instruction manual.



# Socket Comfort – Stump Socks



## DAW-Nylon-Sheath

standard type, conical universal shape



### Designated use

- the DAW nylon sheath is worn directly on the skin to keep the skin dry and to prevent irritation by reducing friction, which provides better adhesion between skin and prosthesis
- optimal compression of the tissue, therefore ideal support of blood reflux and stimulation of the capillary vessels

### Characteristics

- the soft inner surface is comfortable on the skin
- the whipped seam of the cuff marks the outside
- the smooth outside facilitates getting into the prosthesis resp. makes it easier to put on additional sock

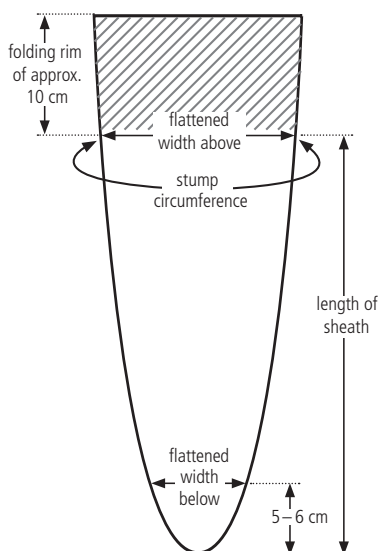
### Material

- 100 % PA (nylon)
- colour: white
- very fine, smooth and openly knitted quality
- the knitting technique prevents ladders
- machine washable at 30 °C



Form	Length in cm	Item-No.
A	20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75	25A50/A..
B	25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80	25A50/B..
C	20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75	25A50/C..
D	20, 25, 30, 35, 40, 45, 50, 55, 60, 65	25A50/D..
E	20, 25, 30, 35, 40, 45, 50	25A50/E..

Dimension sketch:

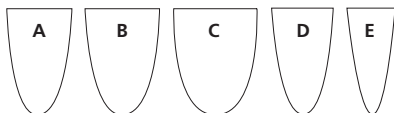


Forms

Form	Stump circ.*	Approx. width above x below sheath
A	40-50 cm	15 x 9 cm, 20 x 10 cm
B	50-60 cm	20 x 10 cm
C	more than 60 cm	25 x 17 cm
D	30-40 cm	15 x 9 cm
E	up to 30 cm	arm stump sock

Ordering example: 25A50/A20 = form A, length 20 cm

Forms:



# Socket Comfort – Stump Socks



## DAW-Nylon-Sheath

for knee disarticulation



### Designated use

- the DAW nylon sheath is worn directly on the skin to keep the skin dry and to prevent irritation by reducing friction, which provides better adhesion between skin and prosthesis
- optimal compression of the tissue, therefore ideal support of blood reflux and stimulation of the capillary vessels

### Characteristics

- the soft inner surface is comfortable on the skin
- the whipped seam of the cuff marks the outside
- the smooth outside facilitates getting into the prosthesis resp. makes it easier to put on additional sock
- the special contour at the distal end optimally adapts to the anatomical shape of the knee disarticulation residual limb

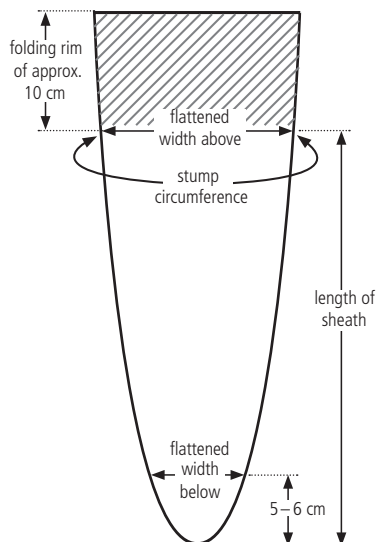
### Material

- 100 % PA (nylon)
- colour: white
- very fine, smooth and openly knitted quality
- the knitting technique prevents ladders
- machine washable at 30 °C

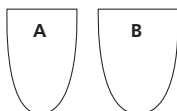
Form	Thigh circ.	Knee circ.	Length in cm	Item-No.
A	up to 50 cm	up to 35 cm	40, 45, 50, 55	25A51/A..
B	up to 60 cm	up to 35 cm	40, 45, 50, 55	25A51/B..

Ordering example: 25A51/A40 = form A, length 40 cm

Dimension sketch:



Forms:



# Socket Comfort – Stump Socks



## Terrycloth Stump Sock for BK-amputees

thick quality, straight shape



### Designated use

- very effective to even out differing volume, due to voluminous inside with terry-cloth loops
- item-no. 25A10 with vulcanised rubber opening for pin, to be worn over any liner
- item-no. 25A11 without opening for pin, may be worn directly on the skin or over any sheath, e.g. item-no. 25A50

### Characteristics

- very comfortable wear due to high cotton content
- the terry-cloth loops on the inside provide excellent cushioning effect and climate management, since this voluminous type may store abundant moisture
- very stretchable and yet dimensionally stable knitting technique

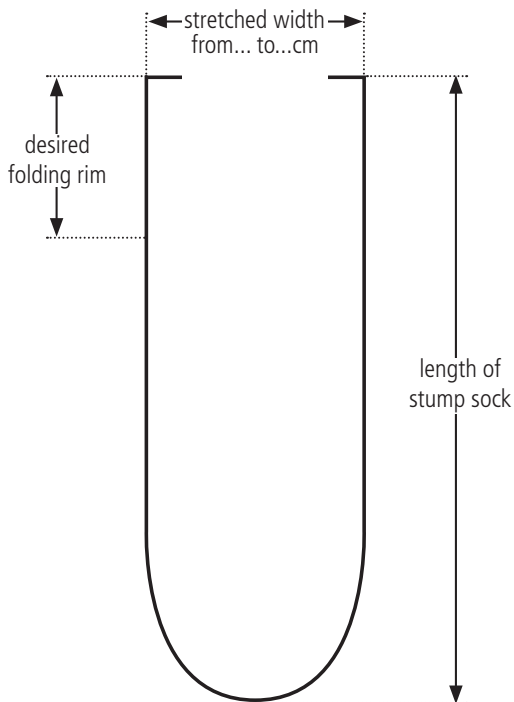
### Material

- 85 % (CO) cotton, 15 % (PA) textured (crinkled) polyamide silk
- machine washable up to 60 °C



Length in cm	Colour	Item-No. with hole for pin	Item-No. without hole for pin
20, 25, 30, 35, 40, 45, 50, 55, 60	blue	25A10/.B	25A11/.B
20, 25, 30, 35, 40, 45, 50, 55, 60	peach	25A10/.H	25A11/.H
20, 25, 30, 35, 40, 45, 50, 55, 60	black	25A10/.S	25A11/.S
20, 25, 30, 35, 40, 45, 50, 55, 60	turquoise	25A10/.T	25A11/.T
20, 25, 30, 35, 40, 45, 50, 55, 60	white	25A10/.W	25A11/.W

Dimension sketch:



Ordering example: 25A11/20B = without hole for pin, length 20 cm, colour blue. In colours green, yellow, purple or red available upon request.

**S** If a cuff is desired, its length must be added to the stocking length. Size is determined by sock length only. For bigger circumferences of the residual limb, the sock length becomes shorter due to stretching. The sock stretches from approx. 10 cm up to 20 cm.



# Socket Comfort – Stump Socks



## Terrycloth Stump Sock for BK-amputees

thick quality, straight shape, with wool content



### Designated use

- very effective to even out differing volume, voluminous knit ware due to crinkled fibre
- item-no. 25A12 with vulcanised rubber opening for pin, to be worn over any liner
- item-no. 25A13 without opening for pin, may be worn directly on the skin or over any sheath e.g. item-no. 25A50

### Characteristics

- the terry-cloth loops on the inside provide excellent cushioning effect and climate management, since this voluminous type may store abundant moisture
- very comfortable wear and warming effect due to wool content
- during wearing, the stocking shape adapts to the individual shape of the residual limb

### Material

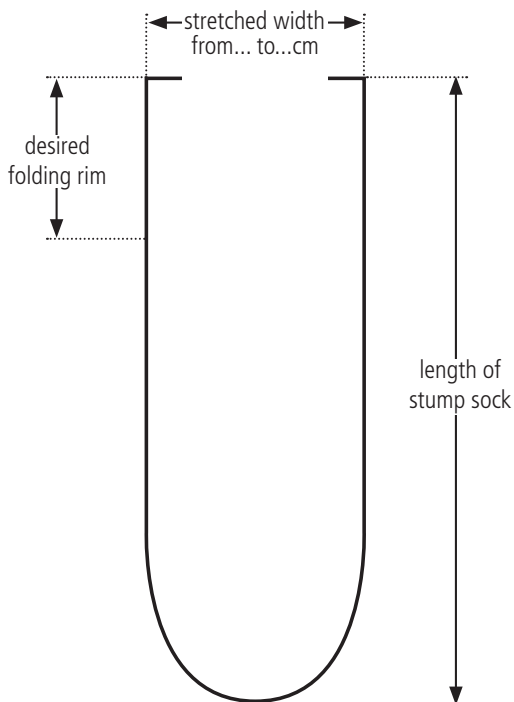
- 50 % (WO) wool, 25 % PA (acryl), 10 % PA (polyamid), 15 % (PA) textured (crinkled) polyamide silk
- colour: off-white
- machine washable up to 60 °C

Length in cm	Type	Item-No.
25, 35, 40, 45, 55, 65	with hole for pin	25A12/..
25, 30, 35, 40, 45, 50, 55, 60, 65	without hole for pin	25A13/..

Ordering example: 25A12/25 = with hole for pin, length 25 cm

**I** If a cuff is desired, its length must be added to the stocking length. Size is determined by sock length only. For bigger circumferences of the residual limb, the sock length becomes shorter due to stretching. The sock stretches from approx. 10 cm up to 20 cm.

Dimension sketch:



# Socket Comfort – Stump Socks



## Terrycloth Stump Sock for BK-amputees

extra thick quality, straight shape, with Lycra content



### Designated use

- very effective to even out differing volume, due to voluminous inside with terry-cloth loops
- this type without opening for pin may be worn over any liner or directly on the skin
- an additional sheath, e.g. item-no. 25A50 may be worn directly on the skin in order to keep the skin dry
- light compression effect, due to Lycra content

### Characteristics

- extremely stretchable (more than double of unstretched width) due to Lycra content
- very high dimensional stability by Lycra content, i.e. the material always retightens to its original shape
- very comfortable wear due to high cotton content
- the terry-cloth loops on the inside provide excellent cushioning effect and climate management, since this voluminous type may store abundant moisture



### Material

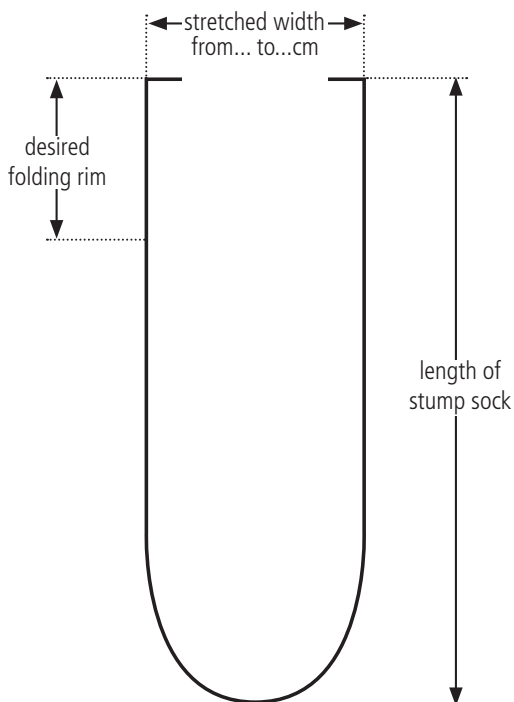
- 95 % (CO) cotton, 5 % (EL) elastane (Lycra)
- colour: white
- machine washable up to 60 °C

Length in cm	Type	Item-No.
20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 75	without hole for pin	25A14/..

Ordering example: 25A14/20 = length 20 cm

**I** If a cuff is desired, its length must be added to the stocking length. Size is determined by sock length only. For bigger circumferences of the residual limb, the sock length becomes shorter due to stretching. The sock stretches from approx. 7,5 cm up to 19 cm.

Dimension sketch:



# Socket Comfort – Stump Socks



## Cotton Stump Sock for BK-amputees

thin, smooth quality, straight shape, with high elastane content



### Designated use

- item-no. 25A20 with vulcanised rubber opening for pin, to be worn over any liner
- item-no. 25A21 without opening for pin, may be worn directly on the skin
- effective to even out differing volume
- light compression effect, due to high elastane content

### Characteristics

- very high stretching ability and shape stability due to high elastane content, i.e. the material always retightens to its original shape
- very comfortable wear and skin tolerance due to high cotton content

### Material

- 85 % (CO) cotton, 15 % (EL) elastane
- colour: white
- machine washable up to 60 °C

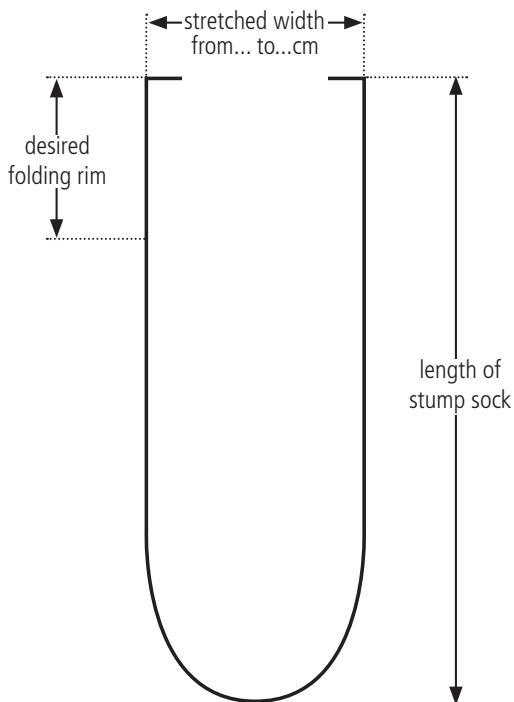


Length in cm	Type	Item-No.
20, 25, 30, 35, 40, 45, 50, 55, 60	with hole for pin	25A20/..
20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 75	without hole for pin	25A21/..

Ordering example: 25A20/20 = with hole for pin, length 20 cm

**I** If a cuff is desired, its length must be added to the stocking length. Size is determined by sock length only. For bigger circumferences of the residual limb, the sock length becomes shorter due to stretching. The sock stretches from approx. 8 cm up to 16 cm.

Dimension sketch:



# Socket Comfort – Stump Socks



## Cotton Stump Sock for BK-amputees

thin, smooth quality, straight shape, with elastane content



### Designated use

- item-no. 25A23 with vulcanised rubber opening for pin, to be worn over any liner
- item-no. 25A24 without opening for pin, may be worn directly on the skin
- effective to even out differing volume
- light compression effect, due to elastane content

### Characteristics

- very high stretching ability and shape stability due to high elastane content, i.e. the material always retightens to its original shape
- very comfortable wear and skin tolerance due to high cotton content
- flat, single layer cuff

### Material

- 95 % (CO) cotton, 5 % (EL) elastane
- colour: off-white
- machine washable up to 60 °C

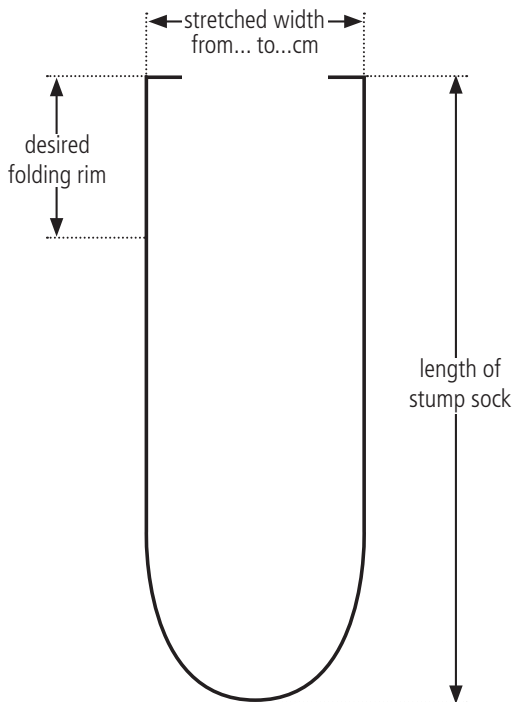


Length in cm	Type	Item-No.
20, 25, 30, 35, 40, 45, 50, 55	with hole for pin	25A23/..
20, 25, 30, 35, 40, 45, 50, 55, 60	without hole for pin	25A24/..

Ordering example: 25A23/20 = with hole for pin, length 20 cm

**I** If a cuff is desired, its length must be added to the stocking length. Size is determined by sock length only. For bigger circumferences of the residual limb, the sock length becomes shorter due to stretching. The sock stretches from approx. 8 cm up to 16 cm.

Dimension sketch:



# Socket Comfort – Stump Socks



## Nylon Stump Sock for BK-amputees

very fine-knit, thin quality, straight shape



### Designated use

- to be worn over the liner to effectively protect the liner

### Characteristics

- with vulcanised rubber opening for pin
- the whipped seam of the cuff marks the inside; the smooth side of the knitted fabric must face outwards

### Material

- 100 % PA (nylon), knitted fabric, similar to opaque tights
- colour: white
- machine washable up to 60 °C

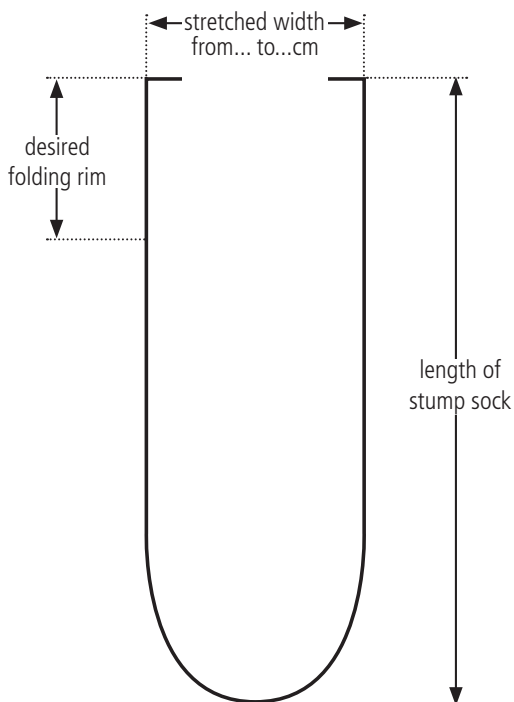
Length in cm	Type	Item-No.
20, 25, 30, 35, 40, 45, 50, 55	with rubber vulcanised pin hole	25A31/..

Ordering example: 25A31/25 =with rubber vulcanised pin hole, length 25 cm

**S** If a cuff is desired, its length must be added to the stocking length. Size is determined by sock length only. For bigger circumferences of the residual limb, the sock length becomes shorter due to stretching. The sock stretches from approx. 11 cm up to 20 cm.



Dimension sketch:



# Socket Comfort – Stump Socks



## Nylon Stump Sock for BK-amputees

thin, fine-knit quality, straight shape, large pin opening

### Designated use

- to be worn over the liner to effectively protect the liner

### Characteristics

- the pin opening, diam. approx. 4 cm, is formed by a knitted cuff (e.g. suitable for a KISS® Lanyard system)
- the whipped seam of the cuff marks the inside; the smooth side of the knitted fabric must face outwards

### Material

- 100 % PA (nylon), open knitted fabric, similar to opaque tights
- colour: white
- machine washable up to 60 °C

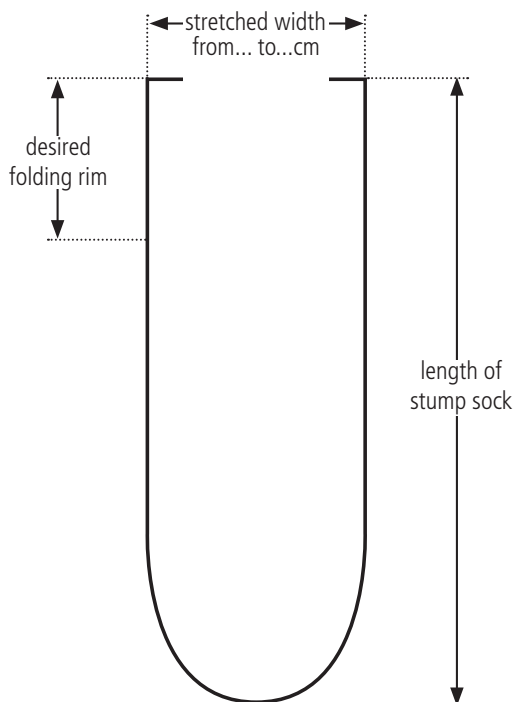


Length in cm	Type	Item-No.
25, 35, 45	with knitted hole for pin	20A61/..

Ordering example: 20A61/25 = length 25 cm

**I** If a cuff is desired, its length must be added to the stocking length. Size is determined by sock length only. For bigger circumferences of the residual limb, the sock length becomes shorter due to stretching. The sock stretches from approx. 10 cm up to 20 cm.

Dimension sketch:



# Socket Comfort – Stump Socks



## Terrycloth Stump Sock for AK-amputees

thick quality, conical form



### Designated use

- very effective to even out differing volume, due to voluminous inside with terry-cloth loops
- item-no. 25A15 with vulcanised rubber opening for pin, to be worn over any liner
- item-no. 25A16 without opening for pin, may be worn directly on the skin or over any sheath e.g. item-no. 25A50

### Characteristics

- conical shape, therefore with lateral flat cover seam
- very comfortable wear due to high cotton content
- the terry-cloth loops on the inside provide excellent cushioning effect and climate management, since this voluminous type may store abundant moisture
- very stretchable and yet dimensionally stable knitting technique

### Material

- 85 % (CO) cotton, 15 % (PA) textured (crinkled) polyamide silk
- colour: white
- machine washable up to 60 °C

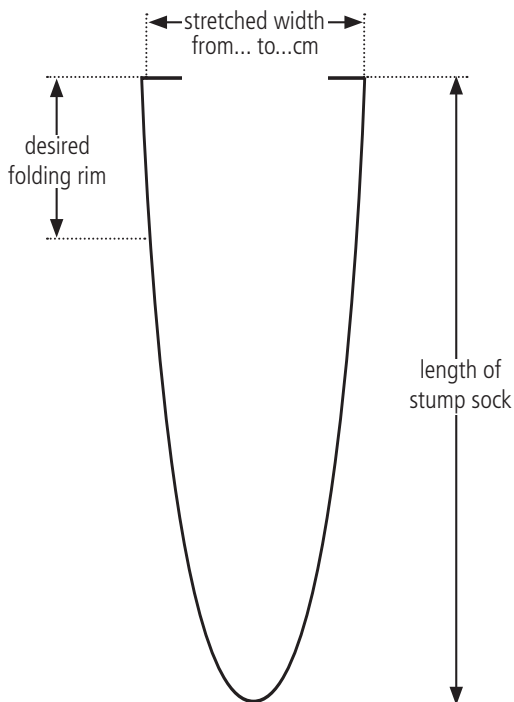


Length in cm	Type	Item-No.
20, 25, 30, 35, 40, 45, 50, 55, 60	with hole for pin	25A15/..
20, 25, 30, 35, 40, 45, 50, 55, 60	without hole for pin	25A16/..

Ordering example: 25A15/20 = with hole for pin, length 20 cm

**I** If a cuff is desired, its length must be added to the sock length. Size is determined by sock length only. For bigger circumferences of the residual limb, the sock length becomes shorter due to stretching. The sock stretches from approx. 16 cm up to 27 cm.

Dimension sketch:



# Socket Comfort – Stump Socks



## Cotton Stump Sock for AK-amputees

thin, smooth quality, conical shape, with elastane content



### Designated use

- with vulcanised rubber opening for pin for ak-amputees
- to be worn over any liner and effective to even out differing volume

### Characteristics

- extremely stretchable and dimensional stability by elastane content, i.e. the material always retightens to its original shape
- very comfortable wear and skin tolerance due to high cotton content
- flat, single layer cuff
- conical shape, with flat lateral cover seam

### Material

- 95 % (CO) cotton, 5 % (EL) elastane
- colour: off-white
- machine washable up to 60 °C

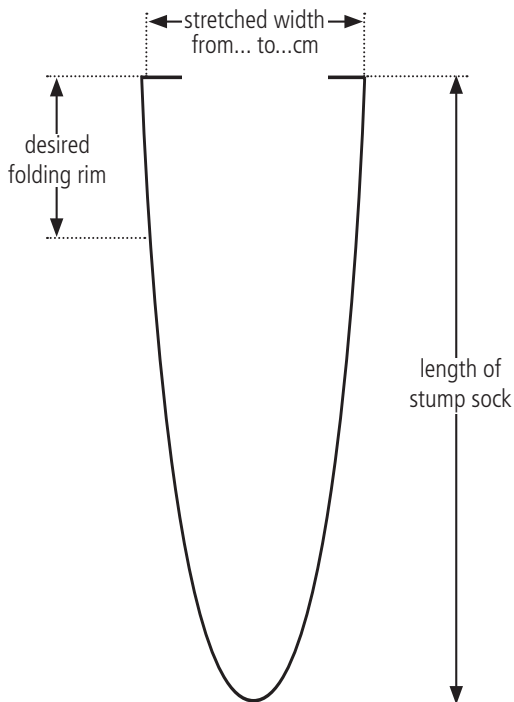
Length in cm	Type	Item-No.
25, 30, 35, 40, 45, 50, 55	with hole for pin	25A25/..



Ordering example: 25A25/25 = length 25 cm

**I** If a cuff is desired, its length must be added to the sock length. Size is determined by sock length only. For bigger circumferences of the residual limb, the sock length becomes shorter due to stretching. The sock stretches from approx. 14 cm up to 28 cm.

Dimension sketch:





# Socket Comfort – Stump Socks



## Nylon Stump Sock for AK-amputees

very fine-knit, thin quality, conical shape



### Designated use

- with vulcanised rubber opening for pin for ak-amputees
- to be worn over the liner to effectively protect the liner

### Characteristics

- the whipped seam of the cuff marks the inside; the smooth side of the knitted fabric must face outwards
- conical shape, therefore with lateral flat cover seam

### Material

- 100 % PA (nylon), knitted fabric, similar to opaque tights
- colour: white
- machine washable up to 60 °C

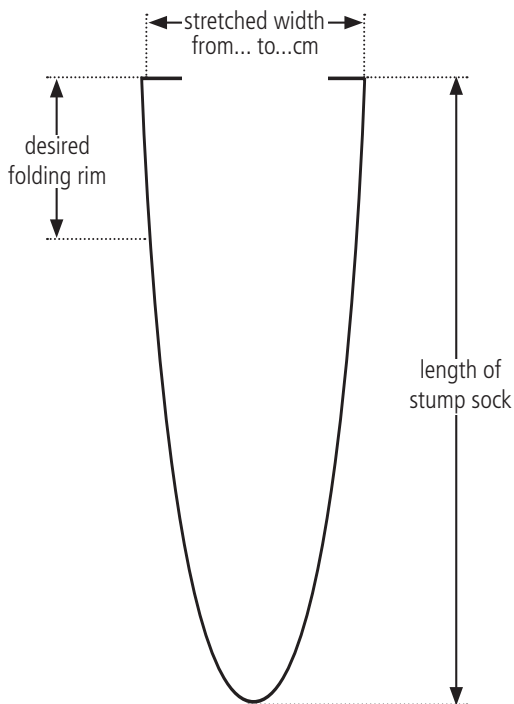
Length	Type	Item-No.
25, 30, 35, 40, 45, 50, 55	with hole for pin	25A35/..

Ordering example: 25A35/25 = length 25 cm



**I** If a cuff is desired, its length must be added to the sock length. Size is determined by sock length only. For bigger circumferences of the residual limb, the sock length becomes shorter due to stretching. The sock stretches from approx. 19 cm up to 32 cm.

Dimension sketch:



# Socket Comfort – Stump Socks



## Wool Stump Sock for AK- and BK-amputees

strong quality, 3 threads, conical shape



### Designated use

- effective to even out differing volume
- strong fabric (pink seam)
- this type without opening for pin may be worn directly on the skin
- between skin and stump sock a sheath, e.g. item-no. 25A50 must be worn

### Characteristics

- very comfortable wear and warming effect due to wool content
- during wearing, the stocking shape adapts to the individual shape of the residual limb
- provides excellent cushioning effect and climate management, since wool may absorb abundant moisture, without feeling damp

### Material


- 70 % (WO) wool, 30% (CV) rayon
- colour: off-white
- machine washable at 30 °C

Wool stump sock with hole for pin available upon request.

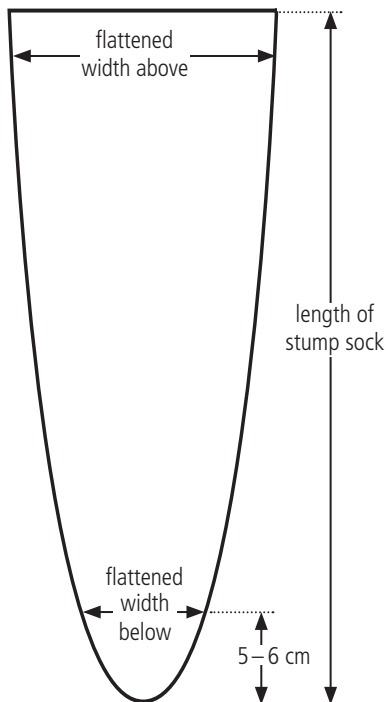


Length in cm	Form in cm	Item-No.
30, 35, 40, 45, 50, 55, 60, 65, 70, 75	20 x 10 unstretched, 25 x 13 stretched	20A74/..

Ordering example: 20A74/30 = length 30 cm

 If a cuff is desired, its length must be added to the length of the sock.

Dimension sketch:



# Socket Comfort – Stump Socks



## Wool Stump Sock for AK- and BK-amputees

medium strong quality, 2 threads, conical form



### Designated use

- effective to even out differing volume
- medium strong fabric (white seam)
- this type without opening for pin may be worn directly on the skin
- between skin and stump sock a sheath, e.g. item-no. 25A50 must be worn

### Characteristics

- very comfortable wear and warming effect due to wool content
- during wearing, the stocking shape adapts to the individual shape of the residual limb
- provides excellent cushioning effect and climate management, since wool may absorb abundant moisture, without feeling damp

### Material


- 70 % (WO) wool, 30 % (CV) rayon
- colour: off-white
- machine washable at 30 °C

Wool stump sock with hole for pin available upon request.

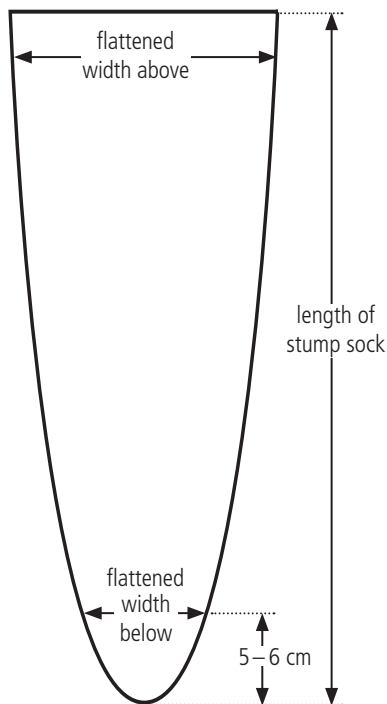


Length in cm	Form in cm	Item-No.
25, 30, 35, 40, 45, 50	15 x 9 unstretched, 19 x 12 stretched	20A57/..
25, 30, 35, 40, 45, 50, 55, 60, 65, 70	20 x 10 unstretched, 25 x 13 stretched	20A58/..

Ordering example: 20A57/25 = length 25 cm, form 15 x 9 cm (unstretched) resp. 19 x 12 cm (stretched)

 If a cuff is desired, its length must be added to the length of the sock.

Dimension sketch:





# Locking Systems



# Locking Systems

In order to create a safe connection between liner and prosthesis, Streifeneder offers locking systems, which are optimally tailored to the users' needs. The large choice of locking systems enables the technician to create a socket connection that is adapted to the patients' requirements.

Every Streifeneder lock system unlocks under tensile load, which enables the patient to easily unlock the prosthesis even under tension, e. g. in a sitting position. A lockable mechanism is offered as an accessory for our clutch locks, which makes it easier for geriatric patients in particular to take off the prosthesis.

The Locking Systems differ on the one hand by the type of locking and on the other hand by the design of the housing.

Various types of locking systems provide the technician with the necessary freedom to design an individual prosthetic alignment. Each Streifeneder locking system can be combined with any type of liner.



Streifeneder locking units stand out due to a high service life and a flexible scope of functions.

A well-thought housing design offers a maximum amount of flexibility with regard to the alignment possibilities of a prosthesis.

The locking systems are delivered with all necessary dummies and laminating aids.

Detailed and illustrated operating instructions simplify the alignment of the prosthesis.

For every use, Streifeneder offers a matching system.

# Three Different Pin Systems



**Serie S1 – Clutch Lock**

The Streifeneder lock series S1 is a continuous pin fastening system with worm thread. This prevents any movement and generates a user-friendly connection. The pin pulls downwards and the patient additionally also has the possibility to draw himself manually downwards and therefore does not have to carry out the connection under pressure.

The locking mechanism developed by Streifeneder always ensures a simple unlocking of the locking system – even under severe tensile stress by the prosthesis. The precision retaining bearing ensures a long lifetime even for highly active patients.



**Serie S2 – Shuttle Lock**

The Streifeneder lock series S2 is locked under pressure with an indented pin. The shuttle pin generates an audible clicking noise when engaging and thereby gives the user the security to be safely connected to the prosthesis. This is a benefit especially for geriatric users.

The simple design of the system ensures an easy and rapid maintenance. Due to the design of the pin, it is easy to put on the prosthesis without getting jammed.

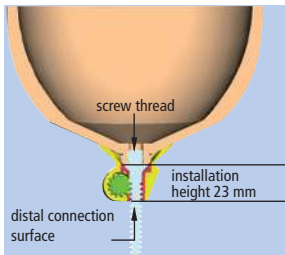


**Serie S3 – Easy Lock**

The Streifeneder lock series S3 is a continuous pin fastening system with a smooth pin. The Easy-Pin is silently locked under pressure. This gives the user a safe locking for the entire length of the pin.

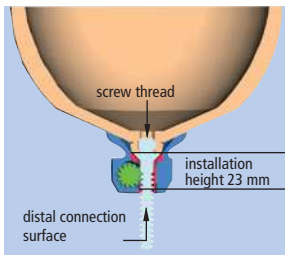
The high-quality material of the pin ensures a very long lifespan even under extreme stress. The fine structuring of the pin at the same time allows for a stepless and safe locking.

# Assembly Height of the Locking Systems



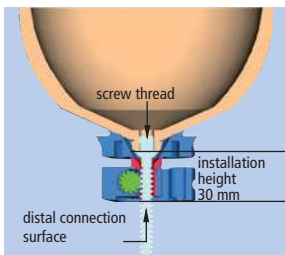
## Series 100

The lock series 100 is made of synthetic material, which makes it light as a feather and very small. It is suitable for users of any weight category. The alignment can easily be corrected in connection with a socket adapter if it deviates from the plumb line.



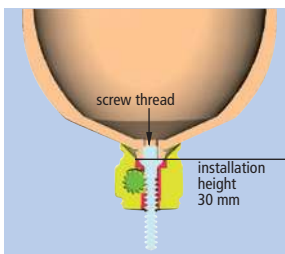
## Series 150

The lock series 150 is characterized by its small construction and its high-strength aluminum housing. The alignment can easily be corrected in connection with a socket adapter if it deviates from the plumb line.



## Series 200

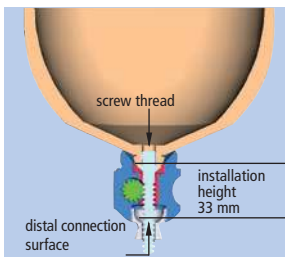
The lock series 200 is made of aluminum and stands out due to its light and flat design. Distally, various socket adapters can be used.



## Series 300

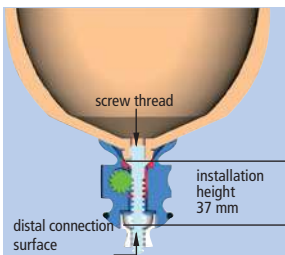
The lock series 300 is made of weight-optimized synthetic material. It is suitable for both laminated and thermoplastic sockets and can entirely be replaced by means of working with deep-drawing dummy. Various mold inserted discs and socket adapters can be installed at the distal end.





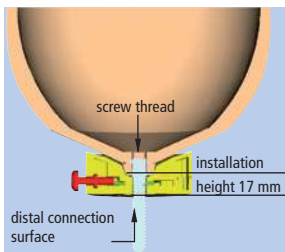
### Series 400

The lock series 400 is made of aluminum and is fixed by means of a three-prong socket adaptor. Special advantages of this lock series is the pyramid adapter, which is already integrated into the lock and the rotational adjustment possibility.



### Series 500

The lock series 500 is made of aluminum and has a distal pyramid adapter. It is especially suited for a rapid and easy manufacture of laminated or thermo-plastic prosthetic sockets for stumps without distinct contractures and plumb line deviations.



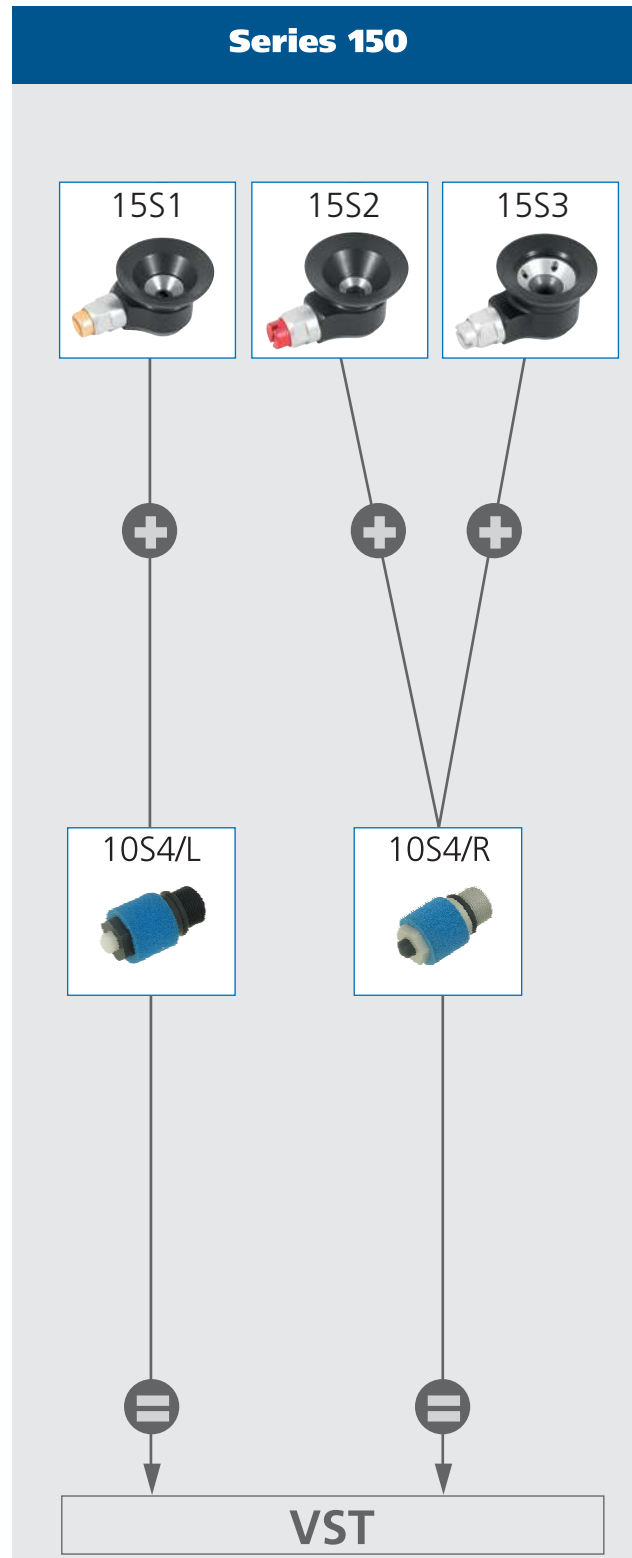
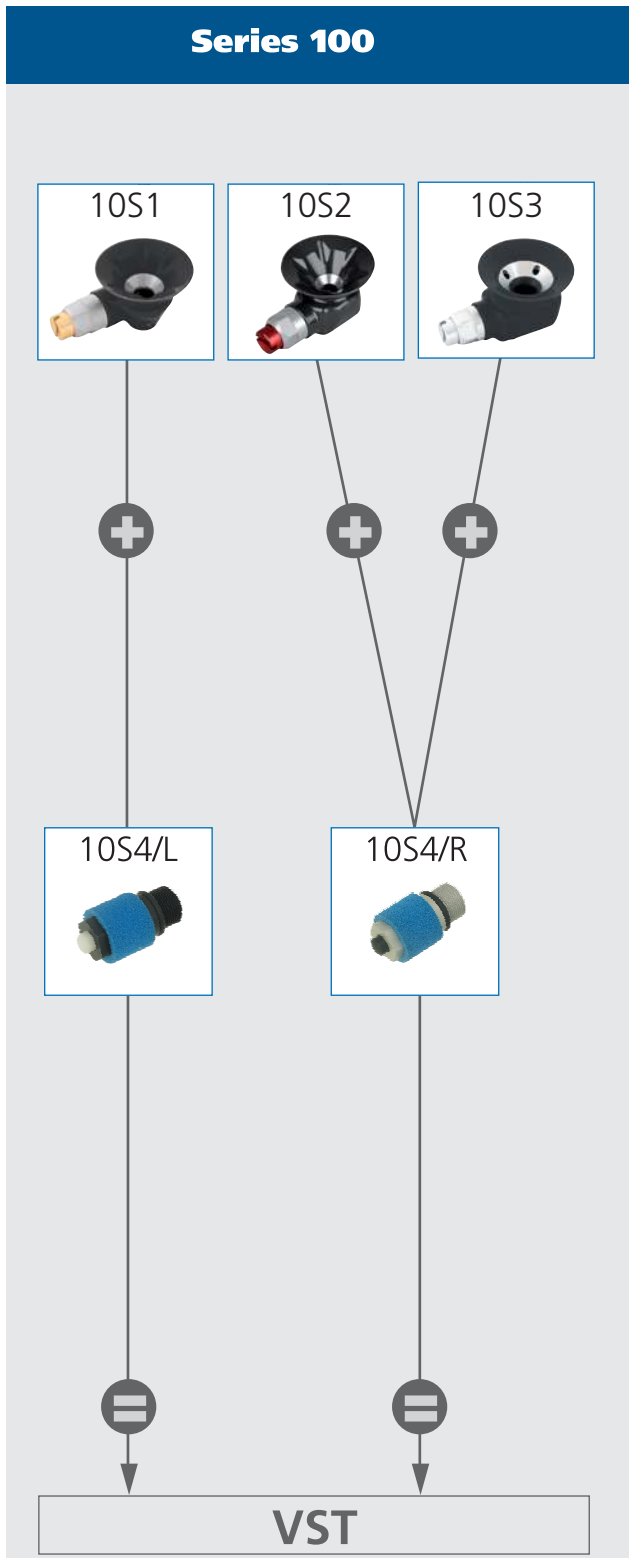
### Series 600

The lock series 600 is made of synthetic material. It is lightweight and equipped with an integrated four-hole connector and has a low assembly height. It is particularly recommended for trans-femoral supplies and long stumps of the lower leg.

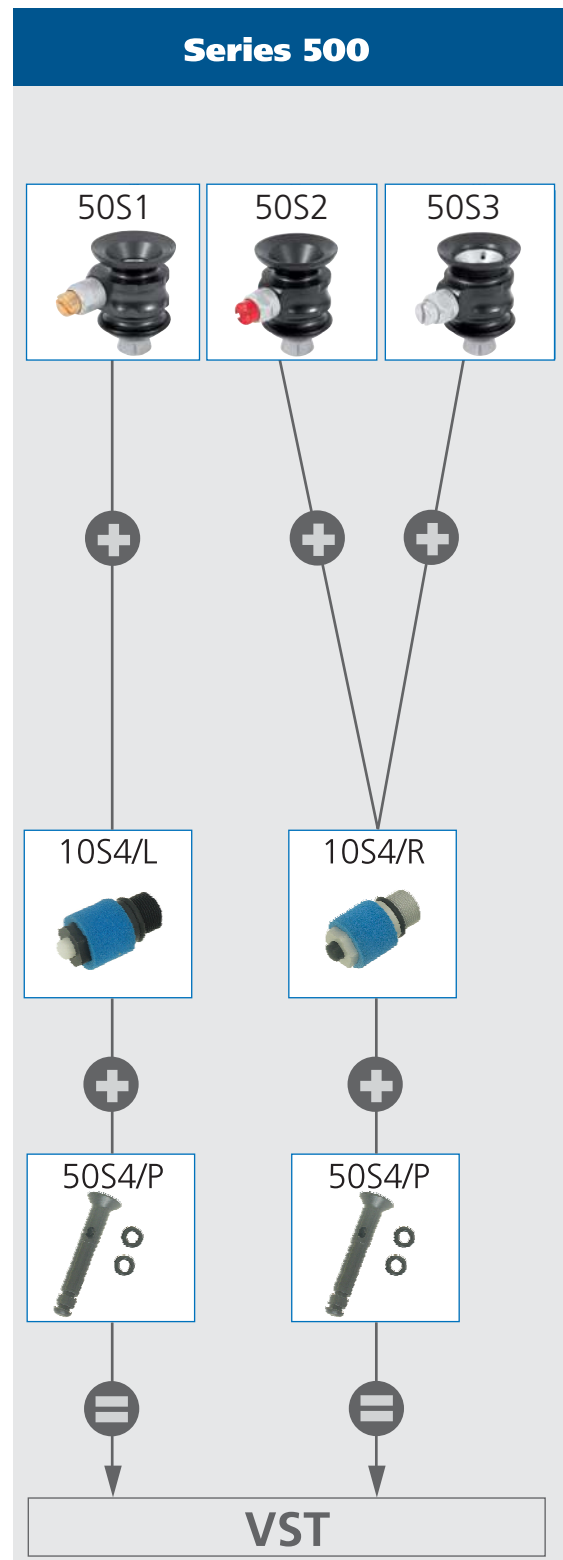
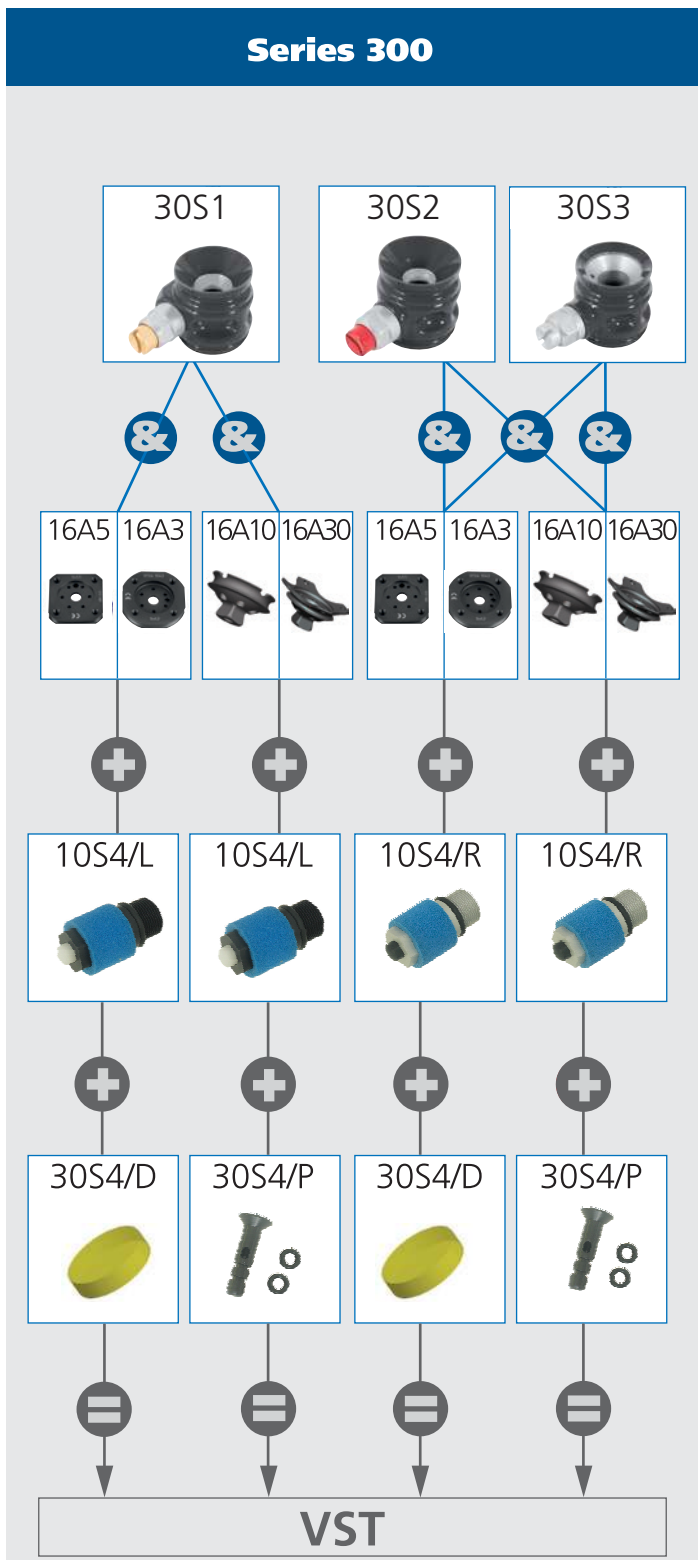
# VST Modular System

What does the patient expect from a prosthesis? This is clearly defined in modern orthopaedics.

The artificial limb must be functional and safe and must offer maximum quality. However, the economic aspects will play an even more important role in the future. Therefore, it is our task to implement the increased requirements in an appropriate manner. The result is a special vacuum system – the possibility to switch between the pin system and the vacuum system.



All components are exclusively made of high-quality and corrosion-resistant materials. To switch from the pin system to the vacuum system you need a maximum of five components (depending on the series). Thus, up to 12 different locking systems (with pin) can be converted. Depending on the condition of the stump, you can always switch between the systems especially during the interim phase. Long-term tests have shown that the vacuum technology has a positive impact on the gait pattern of the patient because rotation and pistoning – as a rule – will not occur or only to a small extent.







## Cord Locking System -Modular-

- installation height: 26 mm
- very light construction
- suitable for thermoplastic sockets
- easy to put on
- very suitable for geriatric and insecure patients
- with plastic cover for external socket fixation
- with latching clamp
- weight: 24 g

Install. height of disc	Item-No.
26 mm	8S1



## Protective Covering

- for lanyard lock 8S1

Item-No.
8S1/E4



## Cord Locking System -for Lamination-

- installation height: 18 mm
- very light construction
- easy to put on
- very suitable for geriatric and insecure patients
- with lamination dummy made of silicone for direct lamination of the cord channel into the socket (silicone cord with locking clamp also available separately, item-no. 9S1/E2)
- weight: 30 g

Install. height of disc	Item-No.
18 mm	9S1



## Lamination Disc for Cord Locking System

- lamination disc, 18 mm for cord locking system 9S1

Install. height	Item-No.
18 mm	9S1/E1

# Locking Systems



## Lanyard with Liner Connection Screw

- for lanyard lock 8S1 and 9S1
- easy pulling into the socket

Item-No.
----------

8S1/E2
--------



## Latching Clamp

- for lanyard lock 8S1 and 9S1

Item-No.
----------

8S1/E3
--------



## Lanyard

- for lanyard lock 8S1 and 9S1

PU = 5 m

Item-No.
----------

8S1/E200
----------



## Winding Button Set

- for lanyard lock 8S1 and 9S1
- complete winding button
- one-handed fixation of laces

PU = 1 set

Item-No.
----------

8S1/E5
--------



## Lock Series 100

- no body weight restriction because the lock is not a weight bearing component
- activity level (walky): 1 to 4 for 10S1 and 10S2
- activity level (walky): 1 to 3 for 10S3
- effective height: approx. 23 mm
- suitable for laminated sockets
- plastic housing is temperature resistant up to 200 °C

The locks of the series 100 distinguish themselves by a very small construction and a shock-resistant plastic housing. Inserted into an AK or BK socket with common lamination techniques, they serve as liner locks. In connection with a socket attachment block 12A3, 12A5 oder 12A7 you can easily correct the deviation of the socket gradient and the plumb line.

- very small construction
- very light
- rotation secured pin guide made of stainless steel
- locking unit is completely exchangeable
- with lamination dummy 10S1/E6L (for 10S1), 10S1/E6 (for 10S2 and 10S3)
- including of sealing grease 22A100
- please order press button extensions for geriatric patients or big sockets separately
- the individual casing varieties can also be ordered separately with the following item numbers: 10S1/E1 for 10S1, 10S2/E1 for 10S2, 10S3/E1 for 10S3

All necessary lamination adapters for the locking unit are included in the delivery.

Lock type	With pin	Weight	Item-No.
Clutch-Lock 101	geared	58 g	10S1
Shuttle-Lock 102	rastered	56 g	10S2
Easy-Lock 103	plain	60 g	10S3



# Locking Systems



## Lamination Dummy for Series 100

- replacement part
- helps during adjustments on the plaster positive

Application	Item-No.
Shuttle- and Easy-Lock	10S1/E6
Clutch-Lock (left-handed thread)	10S1/E6L





## Lock Series 150

- no body weight restriction because the lock is not a weight bearing component
- activity level (walky): 1 to 4 at 15S1 and 15S2
- activity level (walky): 1 to 3 at 15S3
- effective height: approx. 23 mm
- suitable for thermoplastic and laminated sockets
- aluminum housing

The locks of the series 150 distinguishes itself by a very small construction and a high-strength aluminum housing. The aluminum housing can be taken out of the thermoplastic socket and can be utilised for the laminated socket. Processing follows according to common thermoplastic resp. lamination techniques. In connection with a socket attachment block 12A3, 12A5 or 12A7 you can easily correct the deviation of the socket gradient and the plumb line.

- very small construction
- rotation secured pin guide made of stainless steel
- locking unit is completely exchangeable
- with lamination dummy 10S1/E6L (for 15S1), 10S1/E6 (for 15S2 and 15S3)
- including of sealing grease 22A100
- please order press button extensions for geriatric patients or big sockets separately



Lock	With pin	Weight	Item-No.
Clutch-Lock 151	geared	95 g	15S1
Shuttle-Lock 152	rastered	90 g	15S2
Easy-Lock 153	plain	85 g	15S3

# Locking Systems



## Vacuum-Clutch-Lock

- no body weight restriction because the lock is not a weight bearing component
- effective height: approx. 23 mm
- extremely good adhesion of the residual limb in the prosthesis
- precisely adjustable vacuum by simple use of the press button
- valve unit 10S4/L completely exchangeable
- with lamination dummy 10S1/E6L
- quickly convertible into pin system

Material	Weight	Item-No.
Aluminum	70 g	15S4



## Lamination Dummy for Series 150

- replacement part
- helps during adjustments on the plaster positive

Application	Item-No.
Shuttle- and Easy-Lock	10S1/E6
Clutch-Lock (left-handed thread)	10S1/E6L



## Lock Series 200

- max. patient weight: 125 kg
- activity level (walky): 1 to 4 at 20S1 and 20S2
- activity level (walky): 1 to 3 at 20S3
- effective height approx. 30 mm
- suitable for thermoplastic and laminated sockets
- aluminum housing

For the modular construction of prostheses, the flat locking systems of the series 200 offer a variety of combination possibilities.

- light, flat construction
- rotation secured lamination disc
- continuous guide bushing made of stainless steel
- distally with channel for planar connection of all socket adapters with 4-hole connection
- easy cleaning and replacing of complete locking unit is possible without dismantling the prostheses
- including lamination disc with dummy 20S1/E5
- please order press button extensions for geriatric patients or big sockets separately

All necessary lamination adapters for the locking unit are included in the delivery.



Lock type	With pin	Weight	Item-No.
Clutch-Lock 201	geared	188 g	20S1
Shuttle-Lock 202	rastered	172 g	20S2
Easy-Lock 203	plain	178 g	20S3

# Locking Systems



## Lamination Disc for Series 200

- replacement part for 20S1, 20S2 and 20S3
- with lamination dummy 20S1/E51
- and 4 hexagonal socket head bolts 22A2/M6x8

Diameter	Item-No.
64 mm	20S1/E5



## Dummy for Lamination Disc Series 200

- replacement part for 20S1/E5
- consists of taper and bolt

Item-No.
20S1/E51



## Countersunk Screw

- replacement part
- M6 x 40 mm
- for direct load transmission from lamination disc to different adapters

Length	Item-No.
40 mm	22A5/M6x40



## Deep-Drawing Adapter Ring

- accessory
- necessary for the production of thermoplastic sockets
- proximal connection to the lamination disc 20S1/E5 of this ring improves the pin guidance in the socket

Material	Item-No.
Plastic	20S1/E53



## Lock Series 300

- max. patient weight: 100 kg
- activity level (walky): 1 to 4 at 30S1 and 30S2
- activity level (walky): 1 to 3 at 30S3
- effective height: approx. 30 mm
- 33 mm with hopper
- suitable for thermoplastic and laminated sockets
- plastic housing is temperature resistant up to 200 °C

The new weight-optimised lock series 300 made of wear-resistant plastic is very suitable for direct lamination or for complete exchange, if you utilise a lamination dummy 30S1/D56 - 30S1/D76. You can attach different lamination discs and socket adapters with 6 screws in the distal end of the socket.



- including of hopper Ø 66 mm
- including of sealing grease 22A100
- very light construction made of plastic
- multifunctionally applicable
- continuous guide bushing, rotation secured, made of stainless steel
- locking unit is completely exchangeable
- for direct lamination in connection with: lamination disc, round -aluminum- 16A3 / lamination disc, angular -aluminum- 16A5 / socket adapter with adjustment core and lamination anchor -titanium- 16A10 or 16A30 (please order separately)
- suitable for lamination dummy 30S1/D56, D66 and D76
- easy cleaning and replacing of complete locking unit is possible without dismantling the prostheses
- with lamination dummy 30S1/E6L (for 30S1), 30S1/E6 (for 30S2 and 30S3)
- please order press button extensions for geriatric patients or big sockets separately
- the individual casing varieties can also be ordered separately with the following article numbers: 30S1/E1 for 30S1, 30S2/E1 for 30S2, 30S3/E1 for 30S3

All necessary lamination adapters for the locking unit are included in the delivery.

Lock type	With pin	Weight	Item-No.
Clutch-Lock 301	geared	77 g	30S1
Shuttle-Lock 302	rastered	82 g	30S2
Easy-Lock 303	plain	80 g	30S3

# Locking Systems



## Lamination Disc, round or square -Aluminum-

- accessory
- with lamination dummy 22A13 for sealing
- rotation secured
- for direct lamination please use countersink screws 22A6/M6x14
- with 4 countersink screws 22A5/M6x14 (zinc-plated) for attaching of socket adapters
- and 6 mounting screws 22A4/29x95 for attachment to the lock series 300

Material	Shape / weight	Eff. height	max. ↑kg	Item-No.
Aluminum	Ø 64 mm / 45 g	9 mm	150 kg	16A3
Aluminum	[ ] 52 mm / 32 g	9 mm	150 kg	16A5

## Lamination Dummy



- replacement part
- for lamination disc 16A3 and 16A5
- for optimal sealing of the holes and threads without plasticine
- simple and safe handling

Item-No.
22A13

## Mini Lamination Disc -Titanium-



- accessory
- with adjustment core
- rotation secured, for direct lamination
- with 6 mounting screws 22A4/29x95 for attachment to the lock series 300

Material	Shape / weight	Eff. height	max. ↑kg	Item-No.
Titanium	Ø 47 mm / 48 g	6 mm	75 kg	16A10



## Lamination Anchor -Titanium-

- accessory
- with adjustment core
- with 6 mounting screws 22A4/29x95 for attachment to the lock series 300

Material	Shape / weight	Eff. height	max. ↑ kg	Item-No.
Titanium	4-prong / 52 g	6 mm	100 kg	16A30



## Hopper

- accessory
- suitable for all locks of the lock series 300
- for attaching and clamping

For lock	Diameter	Item-No.
30S2, 30S3	56 mm	30S1/E56
30S1, 30S2, 30S3	66 mm	30S1/E66
30S1, 30S2, 30S3	76 mm	30S1/E76



## Lamination Dummy

- accessory
- for all locks of the lock series 300 with hopper
- available in plastic or aluminum
- with retainer
- for transfer of the lock unit into the socket we recommend our lock unit milling cutter 150P1 with Ø 22 mm

For lock	Ø / Material	Item-No.
30S2, 30S3	56 mm / POM	30S1/D56
30S2, 30S3	56 mm / Aluminum	30S1/AD56
30S1, 30S2, 30S3	66 mm / POM	30S1/D66
30S1, 30S2, 30S3	66 mm / Aluminum	30S1/AD66
30S1, 30S2, 30S3	76 mm / POM	30S1/D76
30S1, 30S2, 30S3	76 mm / Aluminum	30S1/AD76

# Locking Systems



## Lamination Dummy for Lock Series 300

- replacement part
- helps during adjustments on the plaster positive
- seals up the lock unit

Application	Item-No.
Clutch-Lock (left-handed thread)	30S1/E6L
Shuttle- and Easy-Lock	30S1/E6





## Lock Series 400

- max. patient weight: 125 kg
- activity level (walky): 1 to 4 at 40S1 and 40S2
- activity level (walky): 1 to 3 at 40S3
- effective height: approx. 33 mm
- suitable for thermoplastic and laminated sockets
- aluminum housing

With the big lamination anchor, the series 400 is specially applicable for BK and AK sockets with very big distal circumferences. The housing, made of a high quality aluminum alloy, is distally fitted with an adjustment core for a compact construction.

- with lamination anchor 10A21/S (110 g) for direct lamination into the socket
- with distal adjustment core
- easy cleaning and exchange of complete lock unit
- with lamination dummy 22A9
- including of sealing grease 22A100
- please order press button extensions for geriatric patients or big sockets separately

All necessary lamination adapters for the locking unit are included in the delivery.



Lock type	With pin	Weight	Item-No.
Clutch-Lock 401	geared	158 g	40S1
Shuttle-Lock 402	rastered	147 g	40S2
Easy-Lock 403	plain	136 g	40S3

# Locking Systems



## Socket Adapter -Stainless Steel-

- accessory
- for lock series 400
- with M36 inner thread
- for direct lamination
- including socket cap screw 22A2/M5x30

Material	Weight	Eff. height	max. ↑ kg	Item-No.
Stainl. Steel	92 g	8 mm	125 kg	10A21/S



Please order 22A9 separately!



## Lamination Dummy for Lock Series 400

- accessory
- for positioning of the socket adapter onto the plaster positive

Item-No.
22A9



## Lock Series 500

- max. patient weight: 125 kg
- activity level (walky): 1 to 4 for 50S1 and 50S2
- activity level (walky): 1 to 3 for 50S3
- effective height: approx. 37 mm
- suitable for thermoplastic and laminated sockets
- aluminum housing

The advantage of the lock series 500 is the time-saving manufacturing of thermoplastic sockets. Through the simple construction the housing will be completely enclosed by the socket material. The integrated cutting protection allows a fast and safe uncovering of the adjustment core.

- housing with pull-in channel
- continuous guide bushing made of stainless steel
- easy cleaning and replacing of complete locking unit is possible without dismantling the prostheses
- including of lamination dummy 50S1/E5L (for 50S1), 50S1/E5 (for 50S2 and 50S3)
- including of sealing grease 22A100
- please order press button extensions for geriatric patients or big sockets separately

All necessary lamination adapters for the locking unit are included in the delivery.

Lock type	With pin	Weight	Item-No.
Clutch-Lock 501	geared	170 g	50S1
Shuttle-Lock 502	rastered	162 g	50S2
Easy-Lock 503	plain	160 g	50S3

## Lamination Dummy for Lock Series 500

- accessory
- for deep-drawing or lamination



Application	Item-No.
Clutch-Lock (left-handed thread)	50S1/E5L
Shuttle-Lock and Easy-Lock	50S1/E5

# Locking Systems



## Lock Series 600

- max. patient weight: 136 kg
- activity level (walky): 1 to 3
- effective height: approx. 17 mm
- suitable for thermoplastic and laminated sockets as well as for exoskeletal construction
- advantageous for CAD socket technique
- plastic housing is temperature resistant up to 200 °C

The lock series 600 distinguishes itself by an extremely low installation height with integrated 4-hole connection. Thus even long BK- and AK-stumps can be fitted. With the reusable lamination dummy you may manufacture thermoplastic as well as laminated sockets. For an exoskeletal construction a lamination disc allows an attachment of the lock in the inside of the socket. With the CAD socket technique it is possible to mould the place holder for the lock on the stump positive already on the computer. This saves costs and time for an optimal pin progression.

- very flat construction
- integrated 4-hole connection
- highly resistant plastic housing
- simple installation and dismantling
- with lamination disc 16A40 suitable for exoskeletal construction
- mountable without spacer through socket adapter 10A90/T
- ideal for CAD socket technique
- simple and time-saving manufacturing of thermoplastic sockets with one lamination dummy
- demountable housing for cleaning purposes

Lock type	With pin	Weight	Item-No.
Shuttle-Lock	rastered	78 g	60S2



## Lamination Dummy

- accessory
- for 600 series lock
- suitable for thermoplastic and laminated sockets
- reusable

Material	Diameter	Item-No.
Aluminum	65 mm	60S2/D



## Lamination Disc

- accessory
- for 600 series lock

Material	Weight	max. ↑ kg	Item-No.
Plastic	45 g	136 kg	16A40

## Service Parts Kit for Shuttle Lock 60S2



- incl. press button extension
- POM disc for extended pin guidance

	Item-No.
	60S2/E

## Spare Pin for Shuttle Lock 60S2



Length	Item-No.
270 mm	60S2/E270
650 mm	60S2/E650

## Vacuum Lock 30S4



- effective height: 25 mm
- offers a high level of safety and comfort
- special muffler reduces noise
- suitable for thermoplastic and laminated sockets
- heat resistant plastic up to 200 °C
- no elongation in the socket
- exactly adjustable regulation of the valve
- incl. lamination dummy 30S4/E6 (separately available) and o-ring set 30S4/E9 (separately available as spare part set)

Weight	max. ↑ kg	Item-No.
75 g	150 kg	30S4

## Dummy for Vacuum-Lock 30S4



This dummy is especially made for the production of check sockets with Vacuum-Lock-System 30S4. The dummy allows for the application of all liner sizes and kinds of liners and is reusable.

- sealing ring included
- with fastener
- and spare sealing ring

Material	Diameter	Item-No.
Aluminum	50 mm	30S4/AD50

# Locking Systems



## Vacuum-Valve

- for lock series 100, 150, 300 and 500
- low maintenance valve due to filter screen
- vacuum can be regulated precisely
- compatible to nearly all streifeneder pin lock-systems
- quick and easy installation and retrofitting without any special tools
- special muffler reduces noise

Thread	Item-No.
left-handed	10S4/L
right-handed	10S4/R



## Sealing Disc

- for sealing kit, to seal the lock series 300

Material	Weight	Item-No.
Silicone	10 g	30S4/D



## Sealing Plunger, Series 500

- for sealing kit, to seal the lock series 500
- o-ring set 30S4/E8 available as spare part set (PU = 10 pcs.)

Material	Weight	Item-No.
POM black	30 g	50S4/P



## Sealing Plunger, Series 300

- for sealing kit, to seal the lock series 300 in combination with 16A10 and 16A30
- o-ring set 30S4/E8 available as spare part set (PU = 10 pcs.)

Material	Weight	Item-No.
POM black	24 g	30S4/P



## Silencer

- for vacuum valve 10S4/L and 10S4/R

PU	Item-No.
1 pc.	10S4/E6



## O-Ring

- for vacuum valve 10S4/L and 10S4/R
- separately available or as set

PU	Item-No.
1 pc.	10S4/E7
5 pcs.	30S4/E7



## Replacement Lock Unit

- for locking systems
- complete
- for simple exchange

Application	For pin	Item-No.
Clutch-Lock	geared	10S1/E2
Shuttle-Lock	rastered	10S2/E2
Easy-Lock	plain	10S3/E2



## Replacement Push Button

- accessory
- gold anodized
- suitable for all clutch-lock locking systems

Application	Material	Item-No.
Clutch-Lock	Aluminum	10S1/E21



## Clutch Lock Block Unit, lockable

- through pressing and smooth distortion of the press button the lock unit is permanently blocked
- thus the patient can use both hands for taking off the prostheses
- the re-engineered lock mechanism allows an easy deblocking of the pin under load
- suitable for all clutch lock housings
- replace present lock unit with the blockable one

Application	For pin	Item-No.
Clutch-Lock	geared	10S1/E2V



## Integrated Patient Key

- for clutch lock
- directly drawing in through the ring is possible

	Item-No.
	10S1/40



## Push Button Extension

- suitable for all lock types
- for geriatric patients or big socket diameters
- big button with finger dent
- easy reduction, finger dent remains in place

Material	Length	Diameter	Item-No.
Plastic	45 mm	21 mm	10S1/45



## Push Button Extension

- suitable for all lock types
- for geriatric patients or big socket diameters
- pre-grooved button extension eases cutting
- turn button helps to pull the PIN-Liner into the socket

Material	Length	Diameter	Item-No.
Aluminum	70 mm	16 mm	10S1/70



## Push Button Extension extra long

- suitable for all lock types
- extra long extension

Material	Length	Diameter	Item-No.
Aluminum	85 mm	16 mm	10S1/85



## Push Button Extension with slot

- suitable for all lock types
- pre-grooved button extension eases cutting

Material	Length	Diameter	Item-No.
Aluminum	50 mm	13 mm	10S1/50





## Patient Key

- accessory
- for readjustment of a clutch-lock-locking unit
- for installation of the liner pin
- suitable for all lamination dummies of the lock

Material	Item-No.
Stainl. Steel	10S1/E4



## Socket Head Spanner

- accessory
- for exchange of the lock mechanisms of the lock systems
- with span 16 mm
- with handle

Length	Span	Item-No.
200 mm	16 mm	173P15/16



## Replacement Lock Washer

- for all easy-lock systems
- including spring
- for exchange inside the lock body

Item-No.
10S3/E



## Service-Set for Easy Locks 10S3, 15S3, 30S3, 50S3

- for easy-locks
- components: guide bushing, closing lit

Item-No.
10S3/E30



## Mounting Key

- accessory
- for the exchange of the easy-lock lock washer

Item-No.
10S300

# Locking Systems



## Easy-Lock Pin -with Drill Hole-

- usable especially for lock system 10S3 and 15S3
- for direct screwing into the liners' distal connection
- drawstring as a pulling in aid for more voluminous residual limbs
- cord (8S1/E200) not included in scope of delivery

Length	Item-No.
50 mm	10S3/E450



## Replacement Pin

- accessory
- for lock systems
- for direct screwing into the liners' distal connection
- comes in various lengths

Length	For	Pin type	Item-No.
35 mm	Clutch-Lock	geared pin	10S1/E335
50 mm	Clutch-Lock	geared pin	10S1/E350
65 mm	Clutch-Lock	geared pin	10S1/E365
85 mm	Clutch-Lock	geard pin long	10S1/E385
35 mm	Shuttle-Lock	rastered pin	10S2/E335
50 mm	Shuttle-Lock	rastered pin	10S2/E350
65 mm	Shuttle-Lock	rastered pin	10S2/E365
35 mm	Easy-Lock	plain pin	10S3/E335
50 mm	Easy-Lock	plain pin	10S3/E350
65 mm	Easy-Lock	plain pin	10S3/E365



## Pin Cover

Item-No.
22A11



## Lock Unit Milling Cutter

- accessory
- for milling of the push button if you utilise a lamination dummy of the series 300

Diameter	Item-No.
22 mm	150P1



## High Performance Maintenance Spray



- accessory
- recommendable for all lock systems
- full-synthetic lubricant, no bonding or resinating of surfaces
- abrasion reducing
- cleaning
- protective against corrosion
- suppresses dampness

Volume	Item-No.
500 ml	117P22



## Sealing Grease (Stick Wax)

### Material

- stick wax
- colour: yellowish

### Application

- for tight sealing during the lamination process of locking systems

### Characteristics

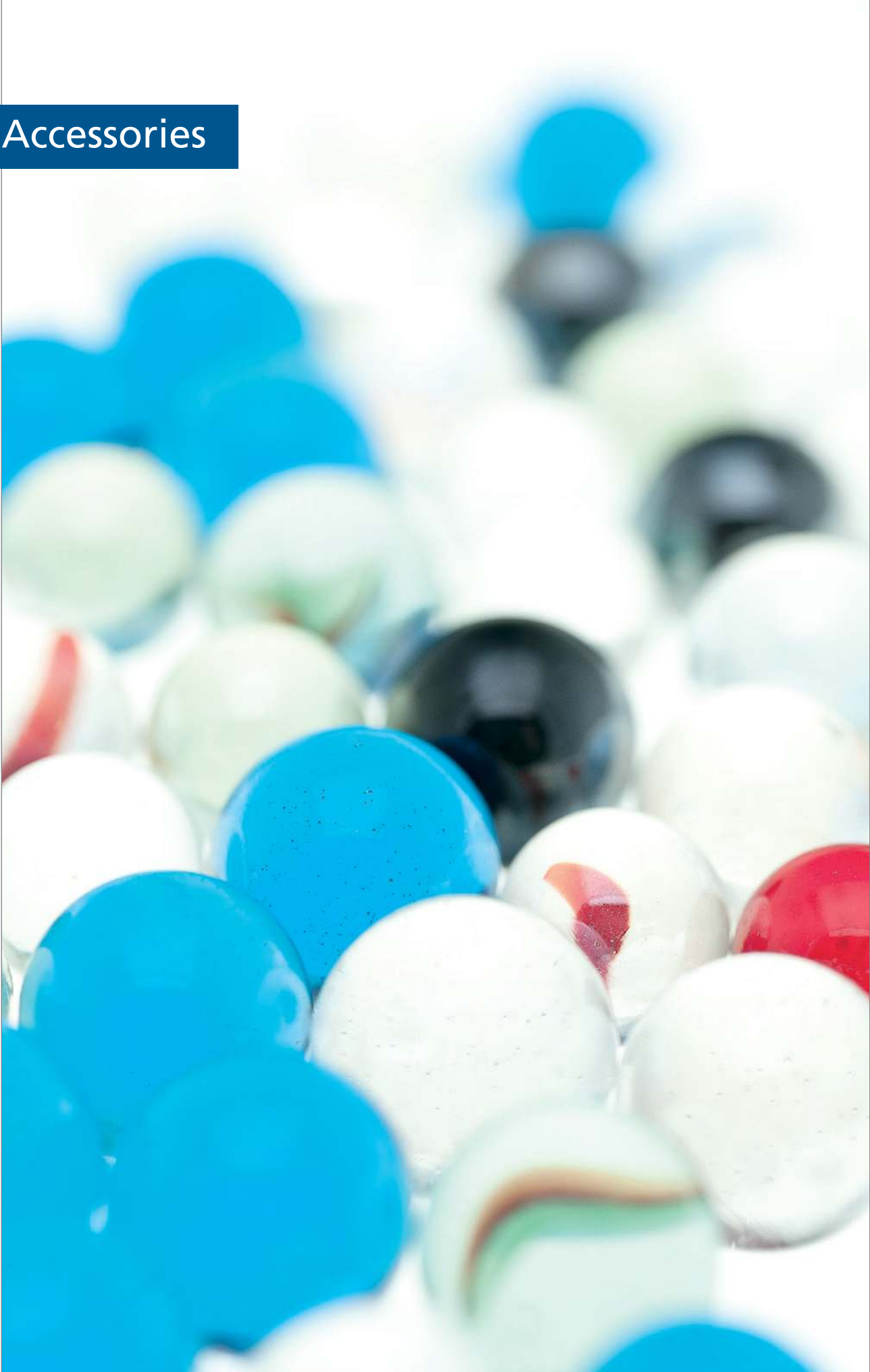
- sticky
- highly temperature resistant

PU = 1 tin

Content	Item-No.
5 ml	22A100



Accessories



# Accessories

To provide the most natural look of leg prostheses, various types of foam coverings are available. Some of our foam coverings have been pre-moulded in circumference and knee height. Our foam coverings are available and suitable for all of our Knee Joints. They are equipped with drill holes of 30 and 34 mm. We offer different slipover knee-highs to finish a well-adapted cosmetic leg and to achieve a look as natural as possible.

In case of prosthetic feet which require foot adapters, it is very important that the screw shows a particularly high strength. Furthermore, the correct torque has to be observed and the screw connection has to be secured with Loctite if necessary. We offer several types of screws, which match thread and insert well.

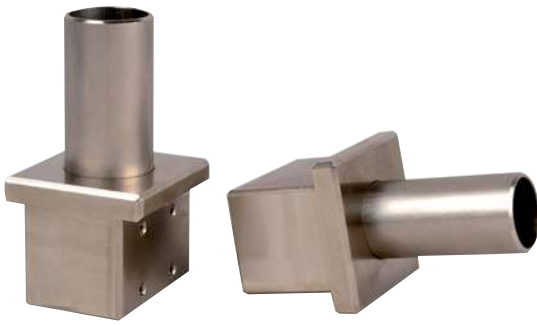
The torque wrench is an important tool to reach the required torques, which are an elemental part of quality assurance during the final assembly of a prostheses. Please remember to verify its exactness by regular calibrations, which should be carried out in fixed intervals if possible. We would be pleased to carry out this service for you.

A prosthetic construction also includes valves, which ensure a safe and optimum connection between socket and stump. We offer you various designs within the range of flat and screw valves. Screw valves are integrated into special plastic sockets, which are made of different materials depending on the requirement. Screw valves can be used in a transparent „PET-Check-sockets“ as well as in flexible inner sockets for above-knee prosthesis. They allow the patient to handle the valves in a simple and safe way by means of a valve body that can be screwed in via a flappable handle.









## Tube Carrier for Clamping Table

- safe clamping of prostheses components with tube clamping into the clamping table
- hard-wearing tool made of nickel-plated steel
- suitable for all clamping tables

Tube ø	Weight	Item-No.
30 mm	930 g	76M11/30
34 mm	870 g	76M11/34



## Replacement Tube for Tube Carrier 76M11

- replacement tube for tube carrier 76M11

Material	Diameter	Item-No.
Steel	30 mm	76M11/30E2
Steel	34 mm	76M11/34E2



## Adjustment Core Clamping Jaws

- safe clamping of prostheses components with pyramid adapter into the clamping table
- magnets facilitate the use of the clamping jaws
- hard-wearing tool made of nickel-plated steel
- suitable for all clamping tables

Weight	Item-No.
820 g	76M10



## Magnetic Felt Jaws

- with magnetic adhesive strip

PU = 1 pair

Width	Item-No.
125 mm	165P23



## Derma-Flex Cosmetic Skin

Foot size	Item-No.
22 - 27 cm	3P42/S
25 - 33 cm	3P42/L

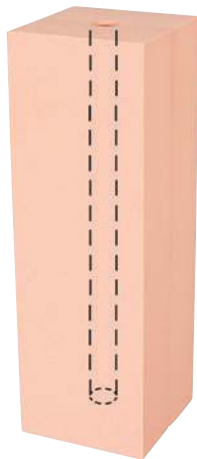
 For glueing the Derma-Flex Cosmetic Skin to the upper edge of the laminated socket, use our super glue / atomic glue flexible, item-no. 118P31.



## Cosmetic Soft Foam Cover

- made of PUR soft foam
- for modular trans-tibial and knee-disarticulation prostheses
- not pre-shaped
- colour: peach
- with Ø 30 mm bore
- for left- and right-side application
- please order the adequate nylon stockings 20A19 separately

Length	Ø above	Ø below	Item-No.
50 cm	18,5 cm	16 cm	60A7

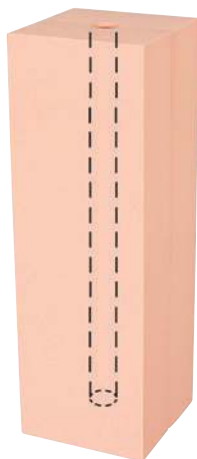


## Cosmetic Soft Foam Cover

- made of PE-foam
- for modular and trans-tibial prostheses
- not pre-shaped
- cuboid colour peach
- with Ø 30 mm bore
- for left- and right-side application
- mouldable at 100 - 130 °C

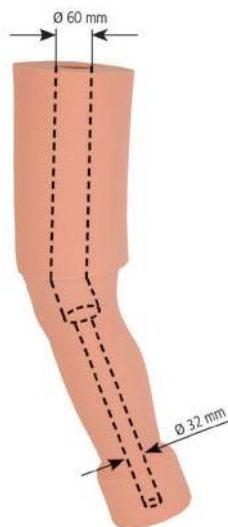
Length	Width	Depth	Item-No.
50 cm	16 cm	16 cm	60A8

## Cosmetic Soft Foam Cover



- made of PE-foam
- for modular and trans-tibial prostheses
- not pre-shaped
- cuboid colour peach
- with bore (Ø 34 mm)
- for left- and right-side application
- thermoplastic mouldable at 100 – 130 °C

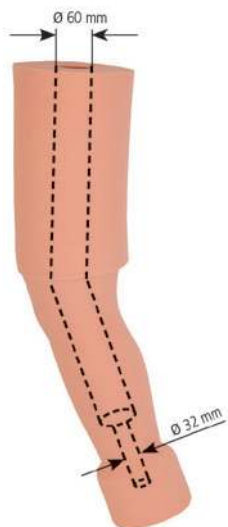
Length	Width	Depth	Item-No.
50 cm	16 cm	16 cm	60A9



## Cosmetic Soft Foam Cover

- made of PUR soft foam
- for modular trans-femoral and hip-disarticulation prostheses, for universal use
- very distinctive pre-shaped calf
- 30° knee flexion
- colour: peach
- with step bore (Ø 60 mm / Ø 32 mm)
- choose between different knee heights and calf circumferences
- the knee height signifies the distance, floor to knee center
- please order the adequate nylon cosmetic stockings 20A17 separately
- please order the adequate nylon connection 20A18 separately

Side	Knee height	Calf circ.	Item-No.
left	42 cm	36 cm	60A42/36L
right	42 cm	36 cm	60A42/36R
left	42 cm	40 cm	60A42/40L
right	42 cm	40 cm	60A42/40R
left	42 cm	44 cm	60A42/44L
right	42 cm	44 cm	60A42/44R
left	47 cm	36 cm	60A47/36L
right	47 cm	36 cm	60A47/36R
left	47 cm	40 cm	60A47/40L
right	47 cm	40 cm	60A47/40R
left	47 cm	44 cm	60A47/44L
right	47 cm	44 cm	60A47/44R
left	52 cm	36 cm	60A52/36L
right	52 cm	36 cm	60A52/36R
left	52 cm	40 cm	60A52/40L
right	52 cm	40 cm	60A52/40R
left	52 cm	44 cm	60A52/44L
right	52 cm	44 cm	60A52/44R

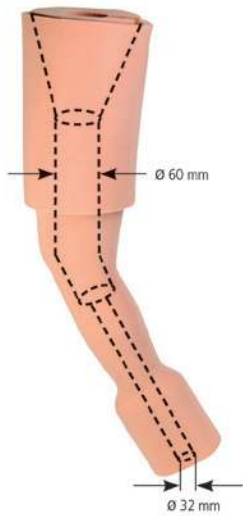


## Cosmetic Soft Foam Cover

- same version like 60A47, but with step-bore extra-long
- especially for knee joint 3A15 and 3A49

Side	Knee height	Calf circ.	Item-No.
left	47 cm	36 cm	61A47/36L
right	47 cm	36 cm	61A47/36R
left	47 cm	40 cm	61A47/40L
right	47 cm	40 cm	61A47/40R
left	47 cm	44 cm	61A47/44L
right	47 cm	44 cm	61A47/44R

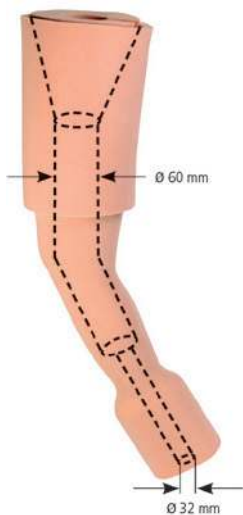
## Cosmetic Soft Foam Cover



- for modular trans-femoral prostheses, for universal use
- 35° knee flexion
- colour: peach
- identical to item 60A42, but with conical pre-drilling
- cosmetic moulded ankle and knee area

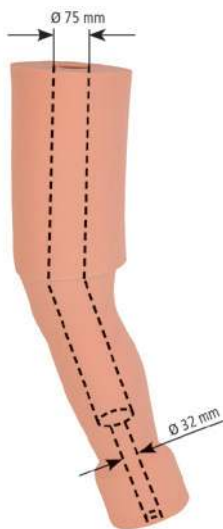
Side	Knee height	Calf circ.	Item-No.
left	47 cm	36 cm	60A147/36L
right	47 cm	36 cm	60A147/36R
left	47 cm	40 cm	60A147/40L
right	47 cm	40 cm	60A147/40R
left	47 cm	44 cm	60A147/44L
right	47 cm	44 cm	60A147/44R

## Cosmetic Soft Foam Cover



- identical to item 60A147, but with step-bore extra-long
- especially for knee joint KINEGEN.air-active 3A1800

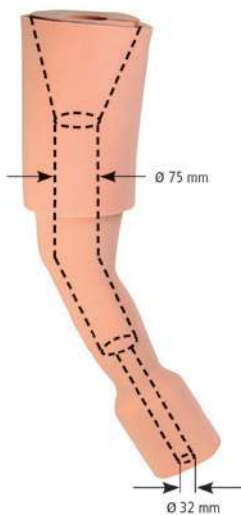
Side	Knee height	Calf circ.	Item-No.
left	47 cm	36 cm	61A147/36L
right	47 cm	36 cm	61A147/36R
left	47 cm	40 cm	61A147/40L
right	47 cm	40 cm	61A147/40R
left	47 cm	44 cm	61A147/44L
right	47 cm	44 cm	61A147/44R



## Cosmetic Soft Foam Cover

- for modular trans-femoral prosthesis
- especially for knee joint KINEGEN.stream 3A2000, 3A2100, 3A2200
- 30° knee flexion
- with step-bore extra-long (Ø 75 mm / Ø 32 mm)

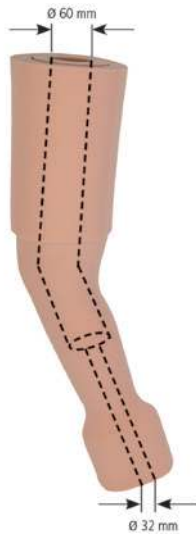
Side	Knee height	Calf circ.	Item-No.
left	52 cm	40 cm	62A52/40L
right	52 cm	40 cm	62A52/40R
left	52 cm	44 cm	62A52/44L
right	52 cm	44 cm	62A52/44R



## Cosmetic Soft Foam Cover

- for modular trans-femoral prosthesis
- especially for knee joint KINEGEN.stream 3A2000, 3A2100, 3A2200
- 30° knee flexion
- with conical pre-bore and with step-bore extra-long (Ø 75 mm / Ø 32 mm)

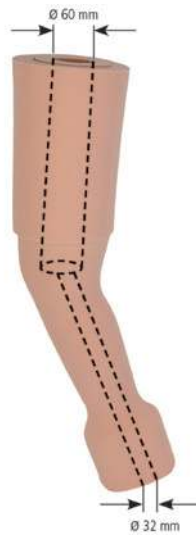
Side	Knee height	Calf circ.	Item-No.
left	52 cm	40 cm	62A152/40L
right	52 cm	40 cm	62A152/40R
left	52 cm	44 cm	62A152/44L
right	52 cm	44 cm	62A152/44R



## Cosmetic Soft Foam Cover

- for large circumferences, for universal use
- with 2-step-bore ( $\varnothing$  60 mm /  $\varnothing$  32 mm)
- for left- and right-side application

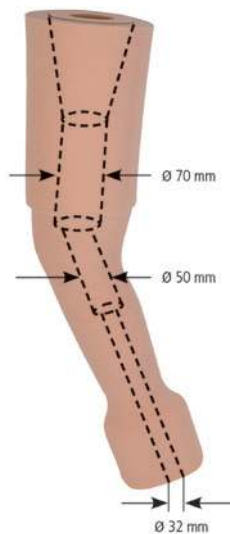
Side	Knee height	Calf circ.	Item-No.
both sides	52 cm	52 cm	65A10



## Cosmetic Soft Foam Cover

- for modular trans-femoral prosthesis, universal application
- with 2-step-bore ( $\varnothing$  60 mm /  $\varnothing$  32 mm)

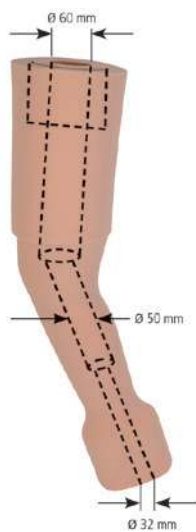
Side	Knee height	Calf circ.	Item-No.
left	52 cm	44 cm	65A11/44L
right	52 cm	44 cm	65A11/44R



## Cosmetic Soft Foam Cover

- for modular trans-femoral prosthesis, universal application
- with conical trans-femoral bore
- with 3-step-bore ( $\varnothing$  70 mm /  $\varnothing$  50 mm /  $\varnothing$  32 mm)

Side	Calf circ.	Item-No.
left	40 cm	65A12/40L
right	40 cm	65A12/40R
left	44 cm	65A12/44L
right	44 cm	65A12/44R



## Cosmetic Soft Foam Cover

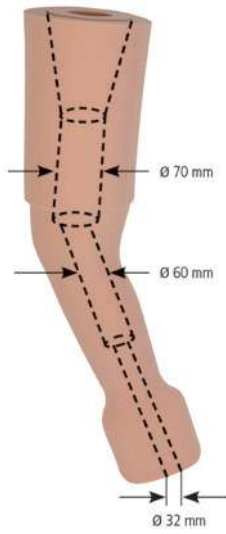
- for modular trans-femoral prosthesis, universal application
- with 3-step-bore ( $\varnothing$  60 mm /  $\varnothing$  50 mm /  $\varnothing$  32 mm)

Side	Knee height	Calf circ.	Item-No.
left	52 cm	40 cm	65A13/40L
right	52 cm	40 cm	65A13/40R
left	52 cm	44 cm	65A13/44L
right	52 cm	44 cm	65A13/44R



## Cosmetic Soft Foam Cover

- for modular trans-femoral prosthesis, universal application
- with conical trans-femoral bore
- with 3-step-bore (Ø 70 mm / Ø 60 mm / Ø 32 mm)



Side	Knee height	Calf circ.	Item-No.
left	52 cm	44 cm	65A14/44L
right	52 cm	44 cm	65A14/44R



## Nylon Stockings

- for BK-protheses
- with knitted, elastic cuff
- material: 100 % polyamid (nylon)

PU = 1 pair



Colour peach

Leg length	Foot length	Cuff circ.	Item-No.
36 cm	20 cm	25 cm	20A19/1
41 cm	21 cm	25 cm	20A19/2
46 cm	21 cm	27 cm	20A19/3

Colour cafe

Leg length	Foot length	Cuff circ.	Item-No.
36 cm	20 cm	25 cm	20A19/1C
41 cm	21 cm	25 cm	20A19/2C
46 cm	21 cm	27 cm	20A19/3C



## Nylon Cosmetic Stockings

- for modular above knee (AK), knee-disarticulation (KD) and hip-disarticulation (HD) prostheses
- with siliconised topband, stitched on the socking
- material: 100 % polyamid (nylon)

PU = 1 pair



Colour peach

Leg length	Foot length	Cuff circ.	Item-No.
59 cm	20 cm	36 cm	20A17/0
62 cm	20 cm	36 cm	20A17/1
66 cm	21 cm	38 cm	20A17/2
72 cm	21 cm	40 cm	20A17/3
84 cm	22 cm	40 cm	20A17/4

Colour cafe

Leg length	Foot length	Cuff circ.	Item-No.
59 cm	20 cm	36 cm	20A17/0C
62 cm	20 cm	36 cm	20A17/1C
66 cm	21 cm	38 cm	20A17/2C
72 cm	21 cm	40 cm	20A17/3C
84 cm	22 cm	40 cm	20A17/4C



## Nylon-Connection

- connects the cosmetic soft foam with the above knee (AK) socket
- colour: peach
- with siliconised topband, stitched on the socking
- material: 100 % polyamid (nylon)

PU = 1 piece



Length	Cuff width	Item-No.
22 cm	34 cm	20A18/1
22 cm	35 cm	20A18/2
22 cm	36 cm	20A18/3

## Rubber Cover for S.A.C.H. Foot

- for water proof walking aids (prostheses)
- protective cover for bathing prostheses



Side	Size	Item-No.
left	universal	1P24/L
right	universal	1P24/R

 For processing the rubber cover for the SACH-Foot in a swimming prosthesis (exo-skeletal construction), please use our super glue / atomic glue flexible, item-no. 118P31.



## Exhaust Valve for BK Amputations Active.valve

- applicable for BK-amputations in PET-check-sockets and final prostheses
- secures the prosthesis in the socket by vacuum
- produces vacuum during stance phase
- pressure equalization by means of large push button
- very light weight, low construction height and simple mounting
- including laminating dummy
- fully assembled upon delivery
- suitable for thermoplastic and laminated prosthesis sockets
- only in connection with knee sleeve ContexGel.Knee Sleeve (30L1)
- suitable only for silicone- or polymer-gel-liners without distal connection

Material	Weight	Item-No.
Aluminum	5 g	6P50



## Service Parts Kit for Exhaust Valve 6P50

### Components

- 1 lid
- 1 wave spring
- 1 flat seal Ø 14 mm, transparent, 40 shore A
- 1 flat seal Ø 15 mm, transparent, 40 shore A
- 1 flat seal Ø 15 mm, black, 80 shore A

Weight	Item-No.
5 g	6P50/E13



## Replacement Dummy Set for Exhaust Valve 6P50

### Components

- 1 dummy
- 1 fixing screw

Weight	Item-No.
1,5 g	6P50/E15



## Screw Valve for Thermoforming Technique


- due to a specially designed thread a quick and easy fastening and loosening of the valve body is guaranteed
- laterally fixable lever via elastomer
- easy to handle because of a large surface of the push button
- incl. lamination dummy
- aluminum

### Accessories

(please order separately):

- 2 two-hole keys 6P22 are needed for tightening the upper and lower screw ring

Material	Item-No.
Aluminum	6P20/T

 The screw valve 6P20/T is to apply solely for fittings of AK-sockets and only with vacuum forming techniques.



## Screw Valve for Lamination Technique

- due to a specially designed thread a quick and easy fastening and loosening of the valve body is guaranteed
- laterally fixable lever via elastomer
- easy to handle because of a large surface of the push button
- incl. lamination dummy
- aluminum

Material	Item-No.
Aluminum	6P25/L

 The screw valve 6P25/L is to apply solely for fittings of AK-sockets and only with lamination techniques.



## Valve Body for Screw Valves

- for items 6P20/T and 6P25/L

Material	Item-No.
Aluminum	6P20/TE2



## Two Hole Key

- for Screw Valve 6P20/T

Item-No.
6P22



## Flat Rubber Valve -Automatic-

- with seat ring, automatic air outlet and thumb flap, Ø 40 mm

Description	Item-No.
Flat rubber valve	6P36
Replacement valve core for 6P36	6P30



## Flat Rubber Valve -Plastic Pin-

- with seat ring, tapered valve pin made of plastic and thumb flap, Ø 40 mm

Description	Item-No.
Flat rubber valve	6P38
Replacement valve core for 6P38	6P32



## Flat Rubber Valve -Stainless Steel Pin-

- with seat ring, tapered valve pin made of stainl. steel and thumb flap, Ø 40 mm

Description	Item-No.
Flat rubber valve	6P27



## Tube With Seat Ring

- for valves with outer Ø 40 mm

Inner ø x outer ø	Item-No.
24 x 28 mm	28A1



## Seat Ring

- for items 6P27, 6P34, 6P36 and 6P38

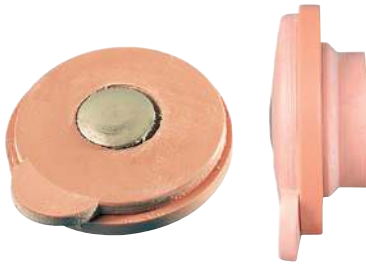
Diameter	Item-No.
40 mm	6P29



## Valve Body for Flat Rubber Valves

- for items 6P27, 6P36 and 6P38

Diameter	Item-No.
outer 35 mm / inner 25 mm	6P39



## Rubber Valve with Seat Ring

- with thumb flap

Diameter	Item-No.
40 mm	6P34



## Rubber Housing

- replacement for flat rubber valve 6P36 and 6P38, with thumb flap

Diameter	Item-No.
40 mm	6P35



## Storing Bag for Prostheses made of PE (LD-PE)

- made of PE (LD-PE)
- PU = 10 pieces

Length x Width	Colour	Item-No.
120 x 40 cm	blue	164P25



## Carrying Bag for Prostheses made of Cotton

- for AK-prostheses
- wear-resistant
- made of cotton
- with adjustable shoulder belt
- with inner pocket and handle belt
- PU = 1 piece


Length x Width	Colour	Item-No.
110 x 34 cm	blue	164P11

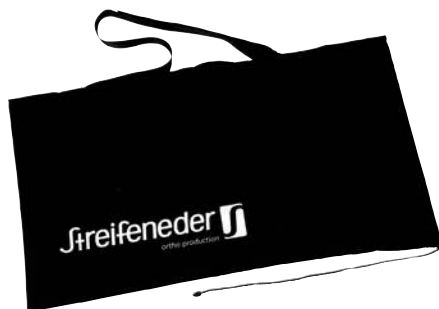


## Nylon-Carrying Bag for Prostheses

- for AK-prostheses
- wear-resistant nylon
- with adjustable shoulder belt
- with handle belt
- PU = 1 piece

Length x Width	Colour	Item-No.
110 x 42 cm	black	164P11/N


 Upon request, the bags are also available with your company logo. Minimum order quantity: 100 pcs..



## Nylon-Carrying Bag for Prostheses

- for BK-prostheses
- wear-resistant nylon
- with adjustable shoulder belt
- with handle belt
- PU = 1 piece

Length x Width	Colour	Item-No.
75 x 38 cm	black	164P11/K

 Upon request, the bags are also available with your company logo. Minimum order quantity: 100 pcs..





## M.A.S. Tool Kit

- for simple measuring of the muscular and bony structure for manufacturing of anatomical AK (above knee)-sockets

in aluminum case, contains:

- 163P31 Tuber-M-L-Gauge
- 163P32/S Diagonometer
- 163P33 Ramus Angle Gauge
- 163P34 Plurimeter-V
- 163P35 M.A.S. Compressive Measuring Tape
- 163P36 Digital Camera

Item-No.
163P30



## M.A.S. Tool Kit

- like item 163P30 but without digital camera

Item-No.
163P29



## Tuber-M-L-Gauge

- scale in two measurement ranges
- measurement range 1: determination of distances in BK and AK areas (A-P and M-L)
- measurement range 2: determination of stump lengths

Item-No.
163P31



## Diagonometer

- concave and flat contact face
- diagonal measuring
- measurement range 70 – 125 mm

Item-No.
163P32



## Ramus Angle Gauge

- measurement range +/- 60°
- for measuring the ramus angle
- for measuring extension and flexion as well as ab- and adduction in BK and AK ranges

Item-No.

163P33



## Plurimeter-V

- for measuring of the flexion position of the residual leg
- automatic raster for each quarter rotation
- easy finding of the 0-preliminary setting

Item-No.

163P34



## M.A.S. Compressive Measuring Tape

- tension control via springs
- adjustable tension on 2 kg and 4 kg
- this allows a uniform reproducible way of measuring

Item-No.

163P35



## Digital Camera

- brand name camera (depending on offer)

Item-No.

163P36

picture similar



## Above-Knee Socket

- uncoped, poplar wood
- circ. = stump circumference

Size	Circ.	Dimensions Depth x width x height	Item-No.
1	35 – 49 cm	215 x 190 x 365 mm	5P6/1
2	44 – 57 cm	220 x 215 x 365 mm	5P6/2
3	47 – 60 cm	240 x 210 x 365 mm	5P6/3



## Wooden Tongue

- for connections of wooden pieces of exoskeletal prosthetics

PU = 20 pieces

Length x Height x Thickness	Item-No.
80 x 40 x 4 mm	6P13



## Trouser Protector, flat

Length	Side	Item-No.
20,5 cm	left	6P16/L
20,5 cm	right	6P16/R



## Knee Protector

- with channel for a webbing strap 65T1/45BW (45 mm)
- big incised flaps

Item-No.
4P14/P



## Clamp for Webbing Strap

- oval, stainless steel, stainless nickel-plated, for 35 mm limiting strap 55T8/35W

	Item-No.
	4P11



## Lateral Belt Retainer Plate with Screw

### Material

- steel
- nickel-plated

### Application

- for attachment of so-called „Schlesier's bandage“ at the lateral socket wall of above knee prostheses

### Characteristics

- trochanter plate with three drill-holes for direct attachment to the lateral socket wall

PU = 1 piece

Neck height	Ø Base plate	Item-No.
8 mm	35 mm	8P14



## Suspension Nut

Diameter	Thread	Item-No.
21,5 mm	M4	8P10



## Lamination Disk

### Material

- stainless steel

### Application

- to anchor in silicone (HTV), pre-preg and laminating resins

### Characteristics

- with 3 slots
- corrosion-resistant

PU = 1 piece

Thread diameter x Head diameter x Length	Item-No.
M4 x 15 x 4,8 mm	34P9



## Suspension Stud Screw

- nickel-plated and polished

Head diameter	Thread	Item-No.
11 mm	M4	8P7/1



## Transtibial Prosthetic Leg Splint

- with ball bearing
- upper bar length: 270 mm
- lower bar length: 125 mm
- bar width: 20 mm
- bar thickness: 3 mm
- milled head: 20 x 4 mm
- ball bearing: 4 x 13 x 5 mm
- weight: 310 g

PU = 1 pair

Item-No.
21P44



## Ball Bearing

- ball bearing for transtibial prosthetic leg splint 21P44

Material	Size	Item-No.
Stainl. steel	4 x 13 x 5 mm	32P7



## Ball Bearing

- complete

Size	Item-No.
4 x 16 x 5 mm	32P5
4,5 x 18 x 5 mm	32P6
5 x 16 x 5 mm	32P1
6 x 19 x 6 mm	32P3



## Binding Head Screw

- joint screw

A = total length, B = head diameter, C = for ball bearing size, D = thread size

A	B	C	D	Item-No.
13 mm	12 mm	4 x 16 x 5 mm	M5	32P21
16 mm	12 mm	5 x 16 x 5 mm	M5	32P11/12
16 mm	14 mm	5 x 16 x 5 mm	M5	32P11/14
18 mm	14 mm	6 x 19 x 6 mm	M6	32P13



## Truss Head Screw

- nickel-plated

Thread	Head $\varnothing$	Length	Item-No.
M3	8 mm	5 mm	30P4/2
M3,5	8 mm	5 mm	30P4/5



## Socket Cap Screw

Material	Size	Weight	Item-No.
Steel zinc-plated	M4 x 15 mm	2,4 g	22A2/M4x15
Steel 12.9 black	M4 x 22 mm	3,0 g	22A2/M4x22
Steel 10.9 zinc-plated	M5 x 10 mm	3,0 g	22A2/M5x10
Steel zinc-plated	M5 x 14 mm	3,2 g	22A2/M5x14
Steel 12.9 black	M5 x 20 mm	4,0 g	22A2/M5x20
Steel 12.9 black	M5 x 30 mm	5,4 g	22A2/M5x30
Steel zinc-plated	M6 x 8 mm	4,2 g	22A2/M6x8
Steel 12.9 black	M6 x 10 mm	5,0 g	22A2/M6x10
Steel zinc-plated	M6 x 16 mm	5,2 g	22A2/M6x16
Steel zinc-plated	M6 x 30 mm	7,9 g	22A2/M6x30
Steel 12.9 zinc-plated	M6 x 35 mm	8,5 g	22A2/M6x35
Titanium	M6 x 50 mm	8 g	16A60/M6
Steel 12.9 zinc-plated	M8 x 60 mm	24 g	16A22/M8
Titanium	M8 x 60 mm	18 g	16A60/M8
Titanium	M8 x 85 mm	25 g	22A3/8x85
Steel 12.9 zinc-plated	M10 x 60 mm	44 g	16A22/M10
Titanium	M10 x 60 mm	24 g	16A60/M10
Titanium	M10 x 90 mm	35 g	22A3/10x90
Steel 12.9 zinc-plated	M10 x 90 mm	55 g	22A2/M10
Steel 12.9 zinc-plated	M8 x 90mm	27 g	22A2/M8



## Socket Cap Screw

Material	Size	Weight	Item-No.
Steel	M6 x 8 mm	4,0 g	22A3/M6x8



## Washer, steel

Thread	Ø size	Weight	Item-No.
M8	18 x 2 mm	2,8 g	16A7/M8U
M10	22 x 2,5 mm	5,2 g	16A7/M10U



## Lock Washer, steel

Thread	Ø size	Weight	Item-No.
M10	18 mm	1,2 g	16A8/M10F
M8	15 mm	0,7 g	16A8/M8F



## Countersunk Screw

Material	Size	Weight	Item-No.
Steel 10.9 zinc-plated	M5 x 16 mm	3,8 g	22A5/M5x16
Steel zinc-plated	M6 x 10 mm	3,0 g	22A5/M6x10
Steel 10.9 zinc-plated	M6 x 12 mm	3,4 g	22A5/M6x12
Steel 10.9 zinc-plated	M6 x 14 mm	3,6 g	22A5/M6x14
Steel 12.9 black	M6 x 20 mm	4,3 g	22A5/M6x20
Steel 12.9 zinc-plated	M6 x 25 mm	5,0 g	22A5/M6x25
Steel	M6 x 35 mm	7,0 g	22A5/M6x35
Steel 10.9	M6 x 40 mm	8,0 g	22A5/M6x40
Steel 10.9	M6 x 14 mm	3,5 g	22A6/M5x14
Steel 10.9	M6 x 16 mm	5,5 g	22A6/M6x14
Steel 10.9 zinc-plated	M6 x 14 mm	4,0 g	22A6/M6x16



## Adjustment Set Screw/Hexagon Threaded Pin

Material	Size	Weight	Item-No.
Steel black	M5 x 8 mm	2,0 g	22A2/M5x8
Steel zinc-plated	M6 x 12 mm	2,4 g	22A2/M6x12
Steel black	M8 x 12 mm	2,9 g	22A1/M8x12
Steel zinc-plated	M8 x 12 mm	2,9 g	22A2/M8x12
Steel zinc-plated	M8 x 14 mm	3,0 g	22A2/M8x14
Steel black	M8 x 16 mm	3,2 g	22A1/M8x16
Steel zinc-plated	M8 x 16 mm	3,2 g	22A2/M8x16



## Rounded Head Screw

Material	Size	Weight	Item-No.
Steel zinc-plated	M2,9 x 9,5 mm	1,5 g	22A4/29x95
Steel zinc-plated	M2,9 x 13 mm	1,8 g	22A4/29x13



# Little ABC's of Orthopaedics

- A** **Abdomen** – area of the body between chest and pelvis  
**Abdominal** – relating to the abdomen  
**Abduction** – movement of a body part away from the midline of the body  
**Acetabulum** – concave pelvic component of the hip joint receiving the femoral head  
**Adduction** – movement of a body part towards the midline of the body  
**Alternating** – exchanging, altering  
**Amelia** – complete absence of one or several extremities  
**Anatomy** – science of structure of organisms  
**Anesthesia** – loss of feeling or sensation/narcosis  
**Anterior** – front  
**Anteversion** – forward tilt of a body part  
**Antivarus** – against varus malalignment  
**Aponeurosis** – a fibrous sheet of tissue by which certain muscles are attached to bones  
**Articulation, articulating** – a joint, concerning a joint  
**Atrophy, to atrophy** – shrinkage, wastage of biological tissue (e. g. muscle atrophy)  
**Axilla, axillary** – the armpit, relating to the armpit
- B** **Bandage, to bandage** – wrapping, dressing; sense of: elastic support, applying bandages, taping  
**Biceps** – two headed (e. g. biceps muscle)  
**Bow-leg** – varus malalignment of the longitudinal axis of the leg
- C** **Calcaneus** – heel bone  
**Capsular** – retaining to an articular capsule  
**Catalyser** – chemical agent causing a chemical reaction (e. g. hardening powder, -paste)  
**Caudal** – towards the tail, below, backside  
**Cerebrum, cerebral** – the major part of the brain, occupying the upper part of the cranium, pertaining to the cerebrum  
**Cervical (cervical-region)** – pertaining to the neck area  
**Chronic** – long term (disease; opposite of acute)  
**Condyle, condylar** – joint head, pertaining to the joint head  
**Congruence, congruent** – match, matching, identical  
**Concave** – hollow, curved inwards  
**Conservative** – conciliatory, maintaining, in the sense of non-surgical  
**Constitution** – physical shape  
**Contraction, to contract** – tightening, shortening of soft tissue with joint malposition  
**Contralateral** – reciprocal, located on the other side of the body  
**Contusion** – bruise  
**Convex** – curved to the front or outside

# Little ABC's of Orthopaedics

**C** Claw foot – flexion contraction of the toes

Cranial – head, above

Cyst – abnormal, closed sac-like structure within a tissue that contains a liquid, gaseous, or semisolid substance (e. g. Baker's-cyst in the back of the knee)

**D** Decubitus, decubital – pressure damage, pressure sore

Derotation – correctional rotation

Detorsion – back rotation, correctional rotation (e. g. detorsion insole)

Dexter – right

Diagnosis, to diagnose – searching and finding a cause and details of disease

Digital – pertaining to finger or toe

Digitus – finger or toe

Dislocation, dislocate – shift, to shift

Distal – away, away from body

Distorsion – sprained, twisted (e. g. joints)

Dorsal – back side

Duroplast – synthetic material, which is, once it has hardened, not mouldable anymore by heat

**E** Endogenous – caused by inner reasons

Et – and

Exogenous – caused by outer reasons

Extension – stretching, extension of a body part

Extra – beyond

Extremities – limbs

**F** Fascia – covering around muscles and tendons

Femur – bone that extends from the pelvis to the knee

Fixation, fixed – position that cannot be altered passively

Flexion – bending a joint (opposite of extension)

Fracture – break in a bone

Frontal – to the front (front surface)

**G** Gibbus – curve in the spine causing a bump or hump on the back, strong kyphotic spine deformation

Gluteus, gluteal – buttocks muscle, pertaining to buttocks

Gocht manoeuvre – special technique to mold the plaster-cast for the ischium bar

Gonarthrosis, gonitis – inflammation of the knee joint

# Little ABC's of Orthopaedics

**H** Haematoma – bruise

Hallux – big toe

Hammer toe – flexed contraction position of a toe in the middle or end joint during dorsal tilting of the metacarpophalangeal joint

Heidelberg angle – AFO (ankle foot orthosis to lift the forefoot)

Hemi – half

Heterogenous – mixed combination, disparate

Hinge joint (*Articulatio ginglymus*) – single-axle joint (e. g. finger joint)

Hyper lordosis – lumbar lordosis, hollow back

Homogenous – uniform, congeneric

Hyper – prefix: more than the norm

Hypo – prefix: less than the norm

**I** Idiopathic – spontaneous, independent, starting without known reason (e. g. idiopathic scoliosis)

Immobilization, to immobilize – to prevent motion of a joint or segment

Incongruity, incongruent – mismatch, mismatched

Incontinence – inability to control urination or defecation

Indication, to indicate – advice, necessity, to advise, make something necessary

Infra – under or below

Initial – beginning

Insert – orthopaedic foot support, foot cushion for customized shoes

Instability, instable – missing stability, loose

Insufficiency, insufficient – functional weakness, inadequate

Interim treatment – temporary, tentative treatment before the final treatment

Irreversible – final, permanently

Ischium, ischial – seat bone, pertaining to the seat bone

Ischium bar – support point of the seat bone in prostheses or orthoses

**K** KBM (abbreviation) – Kondylen Bettung Münster

Knee cap – molded knee brace made of textile rubberlike fabric

Kyphosis – rather flat backward bent scoliosis

**L** Lesion – injury

Level Pelvis – aligned pelvis

Lateral – away from the center

Ligament, ligamentary – band of fibrous tissue connecting bones, concerning the ligaments

Longuette – oblong reinforcing material, usually several layers (e. g. plaster bandage)

Luxation, to luxate – sprain, to sprain

# Little ABC's of Orthopaedics

**M** Medial – inside, center, toward the mid-line

Metatarsal – long bones between the tarsal bones and the toes

Modular system – orthopaedic aid or prosthesis construction with various finished components (modular concept)

Morbus – disease, ailment

**N** Naviculare – short term for os naviculare = navicular bone of foot (or hand – scaphoid bone)

Necrosis – necrotic – dead tissue, mortified

Neuropathy, neuropathic – nervous disorder, nervous affection

**O** Oedema, oedematic – swelling, swollen

Orthosis – splint, brace device, corset, support

Orthopaedics – science of recognition and treatment of inherent or acquired defects of the musculoskeletal system (orthos = straight, right and paedia = childhood)

Orthoprosthesis – construction of a proximal orthotic element and a distal prosthetic element

Ossification, osseous – bone formation, bony

Osteomyelitis – infection of bone and bone marrow

Osteosynthesis – connection of two or more bones by means of metal plates, screws, nails or wires

**P** Pad – upholstering device in an orthosis or shoe

Palma, palmar – inner hand surface, pertaining to the inner hand surface

Palpation, to palpate – examination by touching with the hand

Paralysis, paralytic – loss of motor function, lame (only in the sense of limpness)

Paresis, paretic – loss of motor function (limp or spastic)

Patella – kneecap

Pathological – unnatural, abnormal, morbid

Pelvic obliquity – misaligned pelvis, asymmetrical pelvis height (e. g. caused by unequal leg length)

Periphery, peripheral – outer region, outside (e. g. peripheral arterial disease = PAD)

Peroneus, peroneal – retaining to the calf-bone (e. g. nervus peroneus communis)

Peroneus-spring – ankle-foot orthosis to lift and guide the foot in case of limpness/loss of control

Pes – foot

Pes adductus – forefoot inverted, adducted, medially misaligned forefoot-position

Pes calcaneus – walking on the heel (steep slope position of the forefoot)

Pes cavus – contracted foot (excessive longitudinal arch of the foot)

Pes equinus – pointed foot (excessive plantar flexion of the whole foot)

Pes equinus varus adductus – club foot (combined malposition of the foot)

Pes planus – flat foot (collapsed medial arch)

Pes planus valgus – knock-flat foot (collapsed medial arch with kinked lower ankle joint)

# Little ABC's of Orthopaedics

- P** **Plantar** – pertaining to the foot sole
- Poliomyelitis** – paralysis caused by the polio virus infecting the anterior horn cells of the spinal cord
- Pollex** – thumb
- Poly** – prefix: multi, several
- Post** – prefix: after, behind
- Posterior** – behind, toward the back of...
- Postoperative post op** – after surgery
- Pre** – prefix: before, prior to
- Pressure lesion** – surface damage of skin and tissue due to extensive pressure exposure
- Prevention** – precaution
- Prognosis, prognostic** – preview, expected
- Progredience, progredient** – progression (of disease), advancing
- progressive** – advancing
- Prominence, prominent** – protrusion, protruding
- Pronation** – rotation of hand or foot in long axis facing outwards or dorsally
- Prophylaxis, prophylactic** – prevention, preventive
- Prosthesis** – externally applied device used to replace wholly, or in part, an absent or deficient limb segment
- Proximal** – nearest to the trunk; towards the trunk
- Pseudo arthrosis** – non-union of a fractured bone
- PTB – (abbreviation)** – patella tendon bearing = patella tendon – load principle
- PTS – (abbreviation)** – PTB–supracondylar prosthesis = lower leg prosthesis, reaching over femurcondyles

- Q** **Quadriceps** – short for Musculus quadriceps = four headed muscle in the anterior thigh
- Quengel Hinged Brace** – joint bending or stretching brace with hinges

- R** **Radius** – spoke bone, one of the forearm bones
- Recidivism, recidiving** – relapse, recurrence (of a disease), relapsing
- Reclination, to reclinate** – backward tilt, to tilt backwards
- Redression, to redress** – to force or bend back
- Rehabilitation, to rehabilitate** – enabling persons with disabilities to reach and maintain their optimal sensory, intellectual, psychiatric and/or social functional levels
- Retroversion** – backward turn
- Reversible** – convertible
- Rotation, to rotate** – turn, turning

# Little ABC's of Orthopaedics

- S** **Sagittal** – following the arrow, straight direction
- Saddle joint (articulatio sellaris)** – double-axis joint (e. g. thumb saddle joint Carpometacarpal-I-joint)
- Shore-hardness** – measuring unit for the degree of hardness of elastic materials
- Sinister** – left
- Scoliosis, scoliotic** – lateral deviation of the spine and rotation of the vertebrae around the long axis of the spine
- Spasticity, spastic** – cramping, cramped
- Spina, spinal** – referring to the spine (vertebral column)
- Spondyle** – retaining to the spine (e. g. spondyle arthrosis = arthrosis of the vertebral joints)
- Subductus** – laying underneath (e. g. digitus subductus = toe, laying crossed underneath)
- Subluxation** – partial dislocation of a joint
- Superductus** – laying over (e. g. digitus sperductus = toe, laying over dorsally)
- Supination** – rotation of hand or foot around long axis with palm forward or foot inward
- Supination wedge** – medial or inner elevation of an orthopaedic insole
- Supra** – prefix: upper, above
- Swiss cam lock / Swiss lock system** – detention of a splint joint (e. g. of an orthotic brace)
- Symphysis** – pubic symphysis, midline cartilaginous pubic bone connection (synchondrosis)
- Symptom, symptomatic** – sign, Indication of a disease, indicating a disease
- Syndesmosis** – slightly movable articulation where the contiguous bony surfaces are united by an interosseous ligament
- Syndrome** – disease pattern
- Synostosis** – bony fusion between two bones

- T** **Talus** – bone that articulates with the tibia and fibula to form the ankle joint
- Tarsus, tarsal** – heel part of the foot, pertaining to the heel part of the foot
- Thermoplast** – plastic material re-shapeable under heat application
- Three-point-correction principle** – correctional therapy by leverage effect with surface pressure-application at three contact points
- Thomas splint** – a long leg relief splint that extends from a ring at the hip to beyond the foot, e. g. for aseptic hip joint necrosis
- Tonus** – tension condition of muscles
- Torsion** – twisting
- Trochanter** – muscle insertion point, bony protrusion lateral-proximally at the femur
- Tuber** – hunch, knob (e. g. tuber ischiadicum)
- Tuberosity** – bony protrusion, muscle insertion/fixation point

- U** **Ulna** – inner and longer of the two bones of the forearm

# Little ABC's of Orthopaedics

- V** **Valgus** – X-shaped joint alignment
- Varicosis** – disease of the veins, varication
- Varices** – distended veins
- Varus** – O-shaped joint alignment
- Ventral** – relating to or situated on or close to the abdomen; abdominal, front
- Vertex** – centre of a curve, maximum of a curve
- Volar** – relating to the palm of the hand
- V2A-steel** – stainless steel

- W** **Walking** – milling, softening, staking e. g. orthopaedic leather

Source: "Children's orthopaedic techniques by R. Bernbeck, J. Pramschiefer, H. D. Stolle", published by Thieme, Stuttgart





# Explanation of Symbols

## Textile Care Symbols



Hand wash



30 °C normal wash



40 °C normal wash



60 °C normal wash



Do not iron



Do not bleach



No dry cleaning



Do not tumble dry



Spray disinfection

## Danger Symbols



Flame



Exclamation mark





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