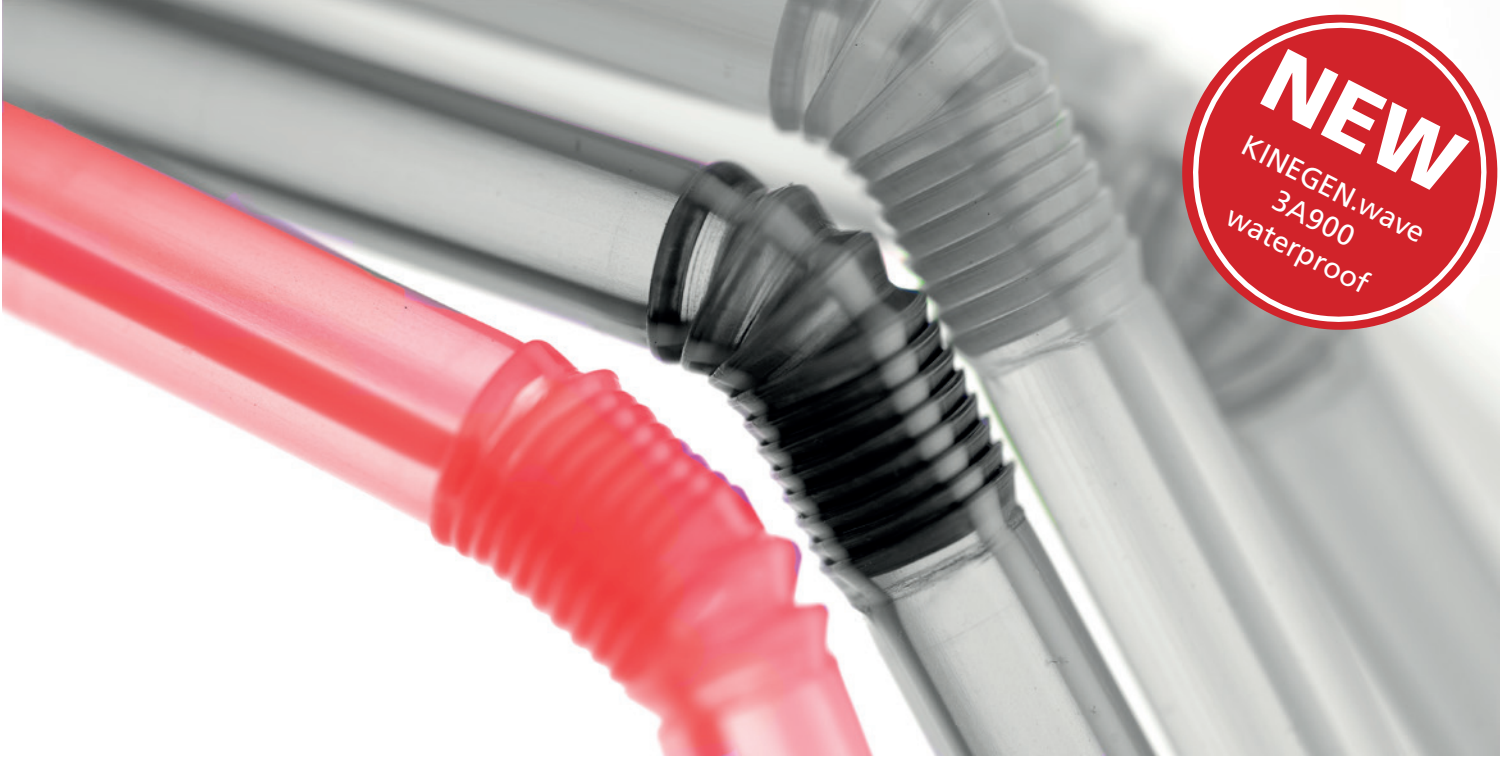


Design meets function  
Knee joint series KINEGEN



**NEW**  
KINEGEN.wave  
3A900  
waterproof



## KINEGEN series - sophisticated prosthetic knee joints with high functionality

Prosthetic knee joints are intended to replace the function of a lost limb and assist in the restoration of an amputees ability to walk. In order to achieve this, the device needs to meet high technical and quality standards. This ensures that the patient can lead an independent and carefree life. Which knee joint is used depends primarily on the mobility and weight class of the patient. For this reason, close attention must be paid to the precise identification of these criteria to ensure best possible care for the patient.

Prosthetic knee joints not only have to replace the biological knee joint, but in many cases replace the functionality of a large part of the entire missing limb. The prosthetic knee joint must meet numerous requirements - it should provide the patient with a high degree of safety, correspond to the dynamics of the prosthesis wearer and be adaptable to the patient's gait pattern.

The KINEGEN series therefore offers an excellent selection of technically sophisticated prosthetic knee joints for every need.

The high functionality combined with an aesthetic design enables the prosthesis wearer to enjoy a better quality of life, both in everyday life and in leisure time.

## The KINEGEN series at a glance



### 3A860 KINEGEN.smart

Stability is especially important for geriatric walkers. Locked joints are often used, which release the flexion of the lower leg (e.g. for sitting) only after unlocking.

These demands are taken into account in the KINEGEN.smart, which has a load-dependent brake and a lock that can be deactivated.



### 3A1000 KINEGEN.air

Swing phase-controlled joints for medium walking speeds such as the KINEGEN.air are equipped with a load-dependent brake, knee-extending spring element and pneumatics.

This allows for continuous adjustment of the movement resistances for flexion and extension as well as the end position damping. This comfortably dampens the extension stop just before full extension of the joint.



### **3A900 | 3A900/1 KINEGEN.wave**

The KINEGEN.wave is a polycentric, water-proof knee joint. The pivot point is offset to the rear of the knee joint which increases the stance phase stability. The safety is further enhanced through a lock which can be deactivated for higher mobility patients. For the first time, it is possible to bathe, shower or swim with a knee joint from the KINEGEN series.



### **3A1800 KINEGEN.air-active**

The KINEGEN.air-active is a polycentric knee joint with pneumatic swing phase control. The polycentrics allow for a particularly large flexion angle and offer more trip safety due to the leg shortening in the swing phase.



### **3A2500 | 3A2500/4 | 3A2500/3 KINEGEN.stream**

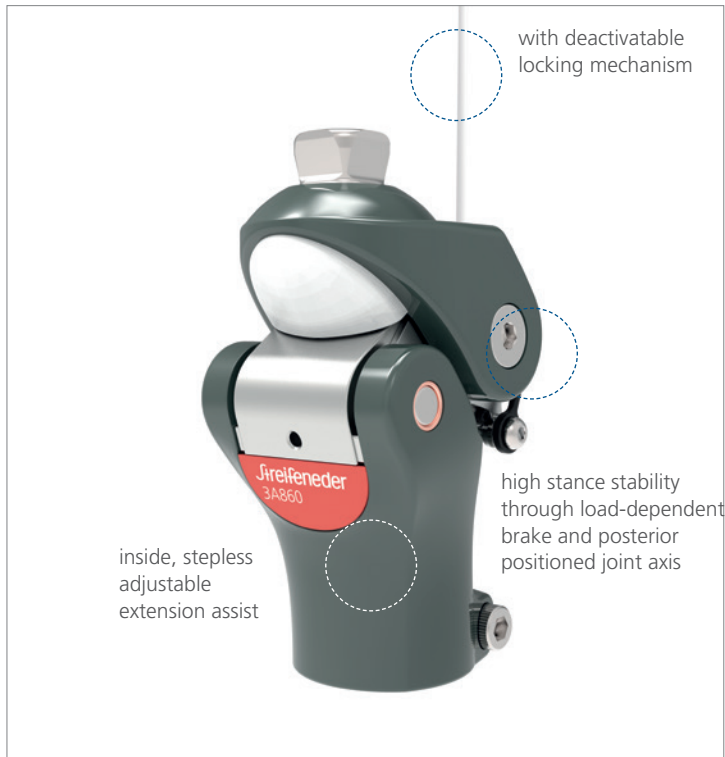
The polycentric knee joint KINEGEN.stream is designed for highly active patients. Due to the powerful hydraulics, an optimal individual adjustment to the prosthesis wearer is possible. Various connections are possible proximally (pyramid and M36 thread).

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

With its colour and shape concept, the KINEGEN.smart 3A860 fits harmoniously into the knee joint series. Despite the particularly low mounting height and the low own weight, it achieves a weight approval of up to 125 kg and enables the technician to cover a particularly wide range of patients.

If the integrated lock is released for maximum stability, the KINEGEN.smart can be used as a brake knee joint. Here, both the braking force and the extension assist can be individually adjusted to the user.









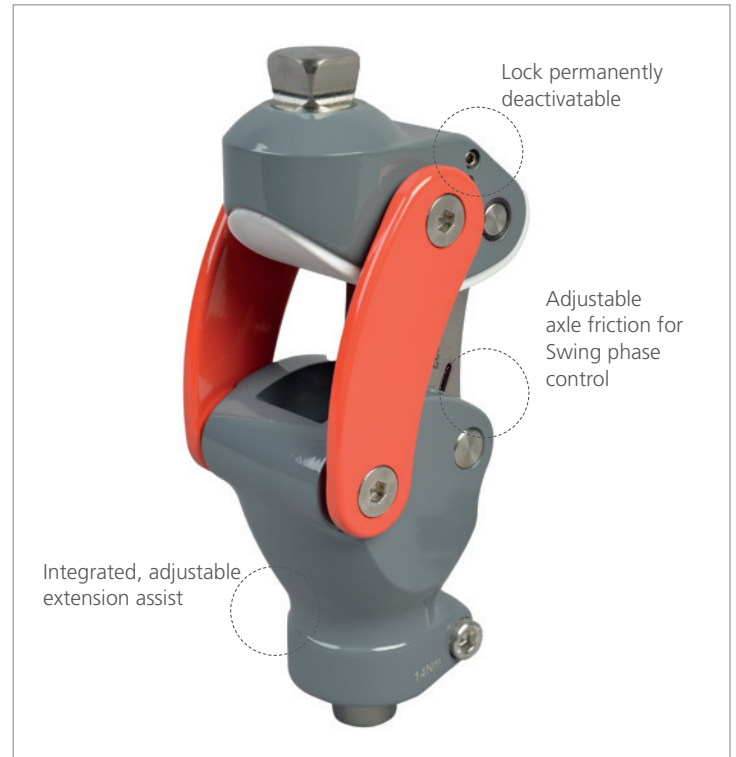
## 3A1000 KINEGEN.air Brake Knee Joint with Pneumatic Swing Phase Control

A fundamental benefit of the KINEGEN.air is the precisely adjustable shock absorbing action which damps the extension impact comfortably shortly before complete extension. Therefore the patient will not experience exposure to heavy or unnecessary forces on the residual limb and the gait pattern will be considerably smoother. Depending on the desired adjustment it is possible to achieve a completely impactfree feeling in the residual limb during knee-joint extension. High stance stability through load-dependent brake and posterior positioned joint axis.



## 3A900 KINEGEN.wave Polycentric Waterproof Knee Joint with Lock

A major plus point of the KINEGEN.wave 3A900 is its water resistance: Prosthesis wearers can move carefree and freely in fresh, salt or even chlorinated water with the polycentric knee joint. This increases flexibility and comfort for the user. Geriatric walkers in particular also require a maximum safety standard, which the KINEGEN.wave optimally fulfils with a high stance phase safety and a lock that can be deactivated. The robust joint is the ideal interim and initial fitting and is perfect for use in rehabilitation therapies in the swimming pool.



The KINEGEN.wave is available in two versions. The following proximal connections are available:



Adjustment core (3A900)



M36 thread (3A900/1)



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

The polycentrics allow for a particularly large flexion angle and offer more trip safety due to the leg shortening in the swing phase. The pneumatic swing phase control in combination with the dynamics of the multi-joint chain ensures a harmonious and natural gait pattern for the prosthesis user. The pneumatic extension and flexion resistance can be continuously adjusted. The KINEGEN.air-active is low-maintenance and intuitive to operate.





especially large flexion angle

pneumatic swing phase control by means of the adjustable pneumatic twin-chamber

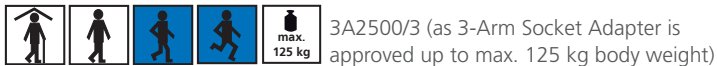
Extension assist due to integrated spring

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

The KINEGEN.stream polycentric knee joint combines all the advantages for highly active users. The axle arrangement allows for maximum dynamics, while a powerful hydraulic unit with precise adjustment options enables individually optimized adaptation of the joint to the prosthesis user. The infinitely adjustable end-position cushioning helps to increase wearing comfort.

The KINEGEN.stream is equipped with a free run mode that allows the prosthesis wearer to limit the resistance in the joint to a minimum by switching over during activities such as cycling. The push button with bicycle symbol on the side of the joint now makes it even easier for the prosthesis wearer to switch to free run mode independently. The opposite push button allows the user to switch back to walking mode.

The swing phase control is regulated by a powerful hydraulic damper. Thanks to the new design of the hydraulics, the damper can be conveniently adjusted from the front while the prosthesis wearer is standing.





The KINEGEN.stream is available in three versions. The following connections are possible proximally:



Adjustment core (3A2500)



M36 for 4-Arm Socket Adaptor 3A2500/4



M36 for 3-Arm Socket Adaptor (3A2500/3)









	<b>3A860 KINEGEN.smart</b> Brake Knee Joint with Lock	<b>3A1000 KINEGEN.air</b> Brake Knee Joint with Pneu- matic Swing Phase Control	<b>3A900 KINEGEN.wave</b> Polycentric Knee Joint with Lock - waterproof
max. body weight	125 kg	125 kg	125 kg
Mobility class (Walky):	1 to 2	1.5 to 3	1 to 2
Proximal Connection	Adjustment Core	Adjustment Core	Adjustment Core
Distal Connection	Tube Clamp Ø 30 mm	Tube Clamp Ø 34 mm	Tube Clamp Ø 30 mm
Knee Flexion Angle	145 °	145 °	145 °
Total Height	115 mm	249 mm	165 mm
Proximal Height	N/A	53 mm	N/A
Distal Height	N/A	196 mm	N/A
Overall Height of Joint Head	N/A	N/A	N/A
Effective Height	65 mm	185 mm	108 mm
Effective Proximal Height	27 mm	39 mm	25 mm
Effective Distal Height	38 mm	146 mm	83 mm
Weight	550 g	820 g	715 g



**3A900/1 KINEGEN.wave**  
Polycentric Knee Joint  
with Lock - waterproof

**3A1800 KINEGEN.air-active** Polycentric Knee Joint with Pneumatic Swing Phase Control

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

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

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

125 kg

125 kg

150 kg

150 kg

125 kg

1 to 2

2 to 3

3 to 4

3 to 4

3 to 4

M36 Thread

Adjustment Core

Adjustment Core

M36 for  
4-Arm Socket Adapter

M36 for  
3-Arm Socket Adapter

Tube Clamp Ø 30 mm

Tube Clamp Ø 30 mm

Adjustment Core

Adjustment Core

Adjustment Core

145 °

150 °

136 °

136 °

136 °

157 mm

228 mm

224 mm

222 mm

217 mm

aforementioned

53 mm

N/A

N/A

N/A

aforementioned

196 mm

N/A

N/A

N/A

aforementioned

N/A

36 mm

36 mm

30 mm

99 mm

185 mm

196 mm

209 mm

203 mm

16 mm

14 mm

23 mm

36 mm

30 mm

83 mm

164 mm

173 mm

173 mm

173 mm

700 g

approx. 960 g

1110 g

1150 g

1120 g

## Accessories

For an all-round perfect fitting, all knee joints of the KINEGEN series have corresponding accessories.

The overview shows a selection of the most important articles.

You can find the complete selection and further information at [www.streifeneder.com/op](http://www.streifeneder.com/op).

<b>3A860 KINEGEN.smart</b> Brake Knee Joint with Lock	
Cosmetic Soft Foam Cover Item-No.: 60A42/36-44	
Cosmetic Soft Foam Cover Item-No.: 62A52/40-44 und 62A152/40-44	
Cosmetic Soft Foam Cover Item-No.: 61A147/36-44	
Nylon Cosmetic Stockings Item-No.: 20A17/0-4	
Nylon-Connection Item-No.: 20A18/1-3	

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

**3A900 KINEGEN.wave**  
Polycentric Knee Joint  
with Lock - waterproof

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

**3A2500 KINEGEN.stream Poly-**  
centric Knee Joint with Hydraulic  
Swing phase control







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