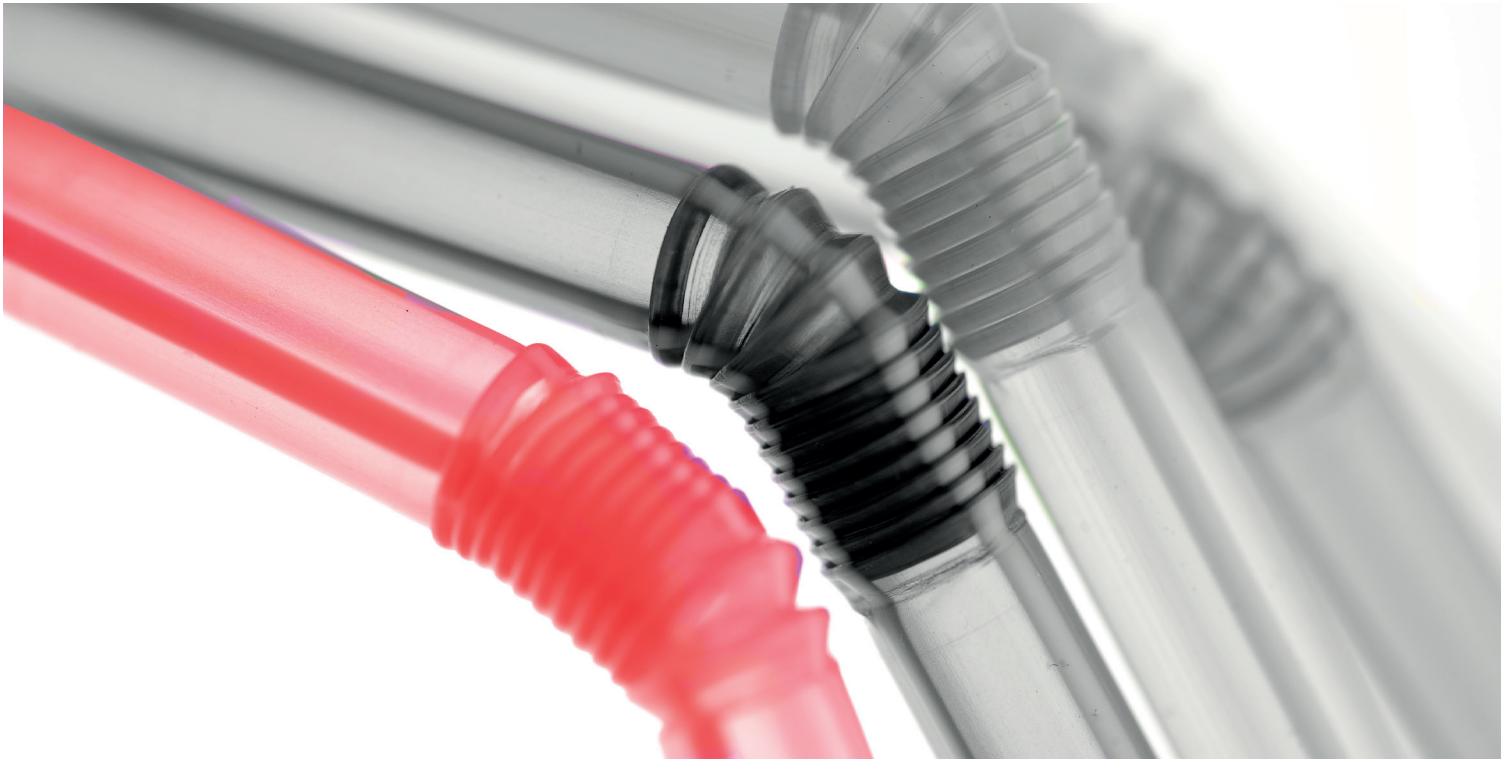


Made in Germany
Knee Joint series KINEGEN



KINEGEN series - advanced prosthetic knee joints with high functionality

Prosthetic knee joint systems to replace the missing, real knee joint. Therefore, the construction must provide very high technical demands, in order to enable the amputee to lead an active life again. The type of knee joint used depends primarily on the mobility- and weight level of the patient. This is the reason why the exact determination of this criteria must be done very attentive; in order to provide the best possible prosthetic care to the patient.

Not only must prosthetic knee joints replace the biological knee joint; in addition they also must partially take over the functions of the non-existing muscle system. For this task, the prosthetic knee joint must meet numerous demands - it must provide a high amount of safety to the patient; correspond to the dynamics of the prosthetic user and be adjustable to the user's gait pattern.

The KINEGEN series, developed by Streifeneder ortho.production

GmbH and produced in Germany, offers an excellent choice of technically superior prosthetic knee joints for every need. The high functionality combined with aesthetic design, provides more life quality to the prosthetic user in daily life as well as during leisure time.

The KINEGEN series at one glance



3A860 KINEGEN.smart

Standing stability is especially important for geriatric walkers. Often, locked joints are used which allow flexion of the lower leg (e.g. while sitting) only after release. These demands are covered by the KINEGEN.smart; which provides a load-dependent brake and a deactivatable, clearance-free lock.



3A1000 KINEGEN.air

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. This allows both, continuous adjustment of the motion resistance for flexion and extension as well as of the end position damping. Thus, the extension stop is comfortably damped prior to the full extension of the joint.



3A1800 KINEGEN.air-active

The KINEGEN.air-active is a polycentric knee joint with pneumatic swing phase control. The polycentric technology provides an especially large flexion angle and more stumbling protection due to the shortened leg during swing phase.



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

The polycentric knee joint KINEGEN.stream has been developed for highly active users. Due to its high performance hydraulic system, it provides individual adjustment to the needs of the prosthetic user. Various proximal connections are possible (pyramid adapter and M36 threaded connections).

3A860 KINEGEN.smart Brake Knee Joint with lock

With its colour and shape design, the new KINEGEN.smart 3A860 matches harmoniously with the knee joint series. Despite its particularly low construction height and low weight, it achieves a weight allowance of up to 125 kg and enables the technician to serve a particularly wide range of patients.

If the integrated lock is released for maximum standing stability, the KINEGEN.smart can be used as a brake knee joint. In this case, 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 end position damping, which comfortably absorbs the extension stop impact shortly before complete extension. Therefore the patient will not experience exposure to heavy or unnecessary forces on the residual leg and the gait pattern will be considerably harmonious. Depending on the desired adjustment, it is possible to achieve a completely impact-free feeling in the residual leg during knee-joint extension. The load-dependent brake and a back-shifted joint axis provide high standing stability.



3A1800 KINEGEN.air-active

Polycentric Knee Joint with pneumatic swing phase control and integrated extension assist spring

The polycentric technology provides an especially large flexion angle and more stumbling protection due to the shortened leg during swing phase. The pneumatic swing phase control in combination with the dynamic performance of the joint linkage ensures a harmonious and natural gait pattern of the prosthetic user. The pneumatic extension- and flexion resistance is continuously adjustable. The KINEGEN.air-active is low in maintenance and intuitive to operate.





especially
large flexion angle

pneumatic swing phase
control by means of ad-
justable pneumatic
twin-chamber

extension support
by integrated
extension assist
spring

3A2500 | 3A2500/3 | 3A2500/4 KINEGEN.stream Polycentric Knee Joint with hydraulic swing phase control






The polycentric knee joint KINEGEN.stream unites all benefits for highly active users. 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.

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. The user can now switch into free run mode even easier by means of the lateral push button with bicycle symbol. With the opposite push button, the user can switch back into walking mode.



     3A2500
3A2500/4

     3A2500/3
(as the 3-arm socket-adapter is allowed
only for maximum weight limit of 125 kg)

The swing phase control is adjusted by means of a powerful hydraulic damper. The new hydraulic construction features comfortable adjustment from the front, while the prosthesis user is standing.





three connection options
proximal (pyramid, 3- or
4-arm anchor connection)

convenient damper
adjustment from the
front in standing
position – simple
adjustment by
sensory feedback
(clicks)



simple
switching into bicycle
mode with simple-to-
reach push button

The KINEGEN.stream is available in three types Following proximal connection options are available:



adjustment core
(3A2500)



M36 for 4-arm
socket-adapter
(3A2500/4)



M36 for 3-arm
socket-adapter
(3A2500/3)



3A860 KINEGEN.smart
Brake knee joint with lock

max. body weight	125 kg
Activity level (walky)	1 to 2
proximal connection	adjustment core
distal connection	tube clamp Ø 30 mm
knee flexion angle	145°
total height	175 mm
proximal construction height	53 mm
distal construction height	122 mm
total height joint head	--
effective construction height	120 mm
effective proximal construction height	35 mm
effective distal construction height	85 mm
Weight	850 g



3A1000 KINEGEN.air Brake Knee Joint with pneumatic swing phase control	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
1.5 to 3	2 to 3	3 to 4	3 to 4	3 to 4
adjustment core	adjustment core	adjustment core	M36 for 4-arm socket-adapter	M36 for 3-arm socket-adapter
tube clamp Ø 34 mm	tube clamp Ø 30 mm	adjustment core	adjustment core	adjustment core
145°	150°	136°	136°	136°
249 mm	228 mm	224 mm	222 mm	217 mm
53 mm	53 mm	--	--	--
196 mm	196 mm	--	--	--
--	--	36 mm	36 mm	30 mm
185 mm	185 mm	196 mm	209 mm	203 mm
39 mm	14 mm	23 mm	36 mm	30 mm
146 mm	164 mm	173 mm	173 mm	173 mm
820 g	approx. 960 g	1110 g	1150 g	1120 g

Accessories

All knee joints of the KINEGEN series are equipped with the appropriate accessories for great all-round support. The overview shows a selection of the most important items.

The full range and more information can be found at www.streifeneder.com/op

Cosmetic Soft Foam Cover
Item-No.: 60A42/36-44

Cosmetic Soft Foam Cover
Item-No.: 62A52/40-44
and 62A152/40-44

Cosmetic Soft Foam Cover
Item-No.: 62A147/36-44

Nylon Cosmetic Stockings
Item-No.: 20A17/0-4

Nylon-Connection
Item-No.: 20A18/1-3

3A860 KINEGEN.smart
Brake Knee Joint with Lock

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

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

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



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