

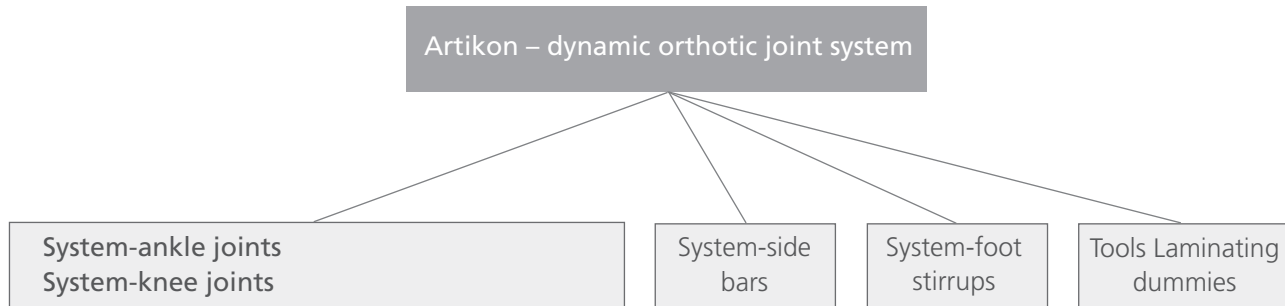
Dynamic, precise, safe Artikon – Modular Orthotic Joint System



Artikon – Orthotic Joint System

With the new Artikon series, Streifeneder ortho.production GmbH offers high quality system joints, system bars and system-foot stirrups for the construction of dynamic ankle, thigh and knee orthoses.

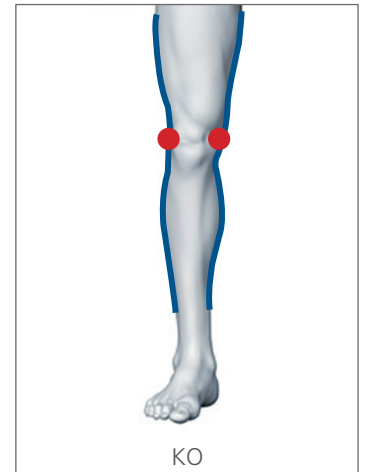
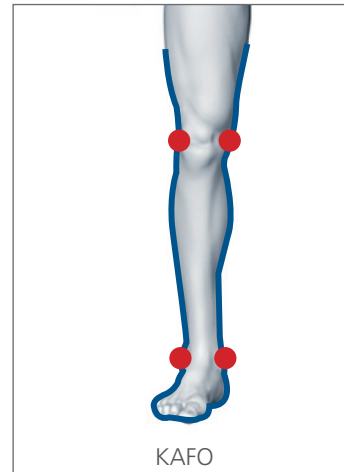
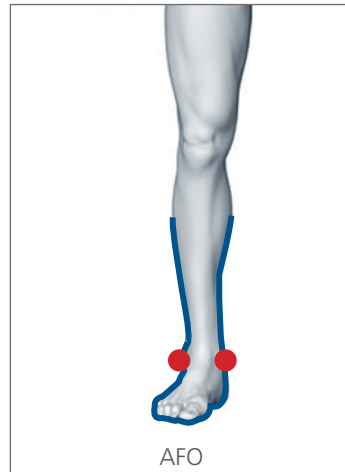
The construction of these orthoses supports the dynamic functions of the body and they can be used for indications such as paralysis following poliomyelitis, hemiplegia and peroneal paralysis. They are used for motion control, stability and relief; they support the restricted musculature and help to achieve a gait pattern as physiological and harmonious as possible.



International classification by included joints

FO	Foot-Orthosis
AFO	Ankle-Foot-Orthosis
KAFO	Knee-Ankle-Foot-Orthosis
HKAFO	Hip-Knee-Ankle-Foot-Orthosis
KO	Knee-Orthosis
HO	Hip-Orthosis

Use of the joints



System-Ankle Joints
Artikon.malleo 1J10 und 1J30



System-Knee Joints
Artikon.genu 2J10 und 2J10V





Simple assembly, high functionality

The Artikon-products feature high-quality materials, state-of-the-art workmanship and excellent functionality and because of their useful features, help the orthopaedic technician to construct complex orthotic aids.

Torx wrenches are supplied with each joint, are necessary for mounting the joints. Depending on the user profile, the Artikon series can be installed in 16 or 20 mm system width. Joints are available in straight or offset shape for patients' various anatomical requirements.

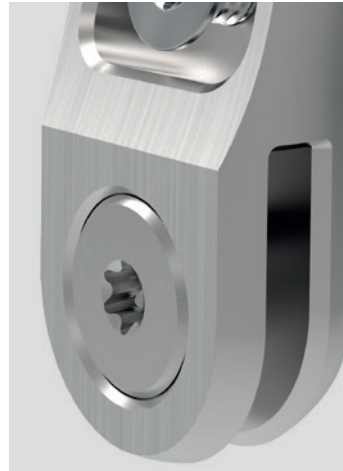
Greater mobility and quality of life – advantages for the user

- perfect anatomical motion sequence control
- return to a more active lifestyle
- restoration and maintenance of mobility

All features at a glance



simple installation of the system joints with a Torx key



system joints are made of high quality stainless steel and are therefore very robust, durable and corrosion-resistant



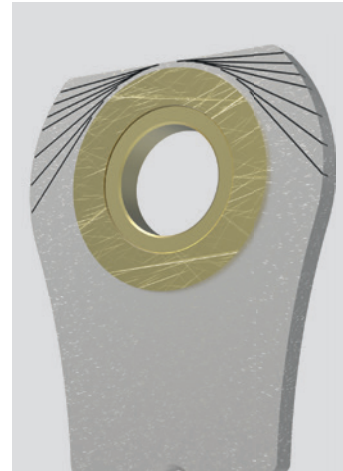
appealing look – the precise CNC manufacturing process achieves high surface quality and fitting accuracy



can be used individually due to varied system widths and different shapes



perfect work results thanks to matching accessories such as lamination dummies and adjustment tools



auxiliary lines on the system foot stirrups make grinding easier to adjust the scope of motion; foot stirrups made of high quality stainless steel, thrust washers and oil-free bushing made of bronze



precious time saved: the knee joints without locks can be obtained in a tapered form, and time-consuming grinding using the cast resin method is no longer necessary





System-Ankle Joints



The Artikon.malleo system-ankle joints are freely moving and are used for bilateral motion control. If a foot-lifting function is desired, special ankle joints with compression springs are available. These support dorsal extension in the upper ankle joint, thereby causing a dynamic lifting of the foot during the swing phase.

Artikon.malleo System-Ankle Joints without springs

- material: stainless steel
- lateral side of the joint straight, medial side of the joint offset (1J10/16 and 1J10/20)
- lateral and medial sides of the joint straight (1J11/16 and 1J11/20)
- lateral and medial sides of the joint offset (1J12/16 and 1J12/20)

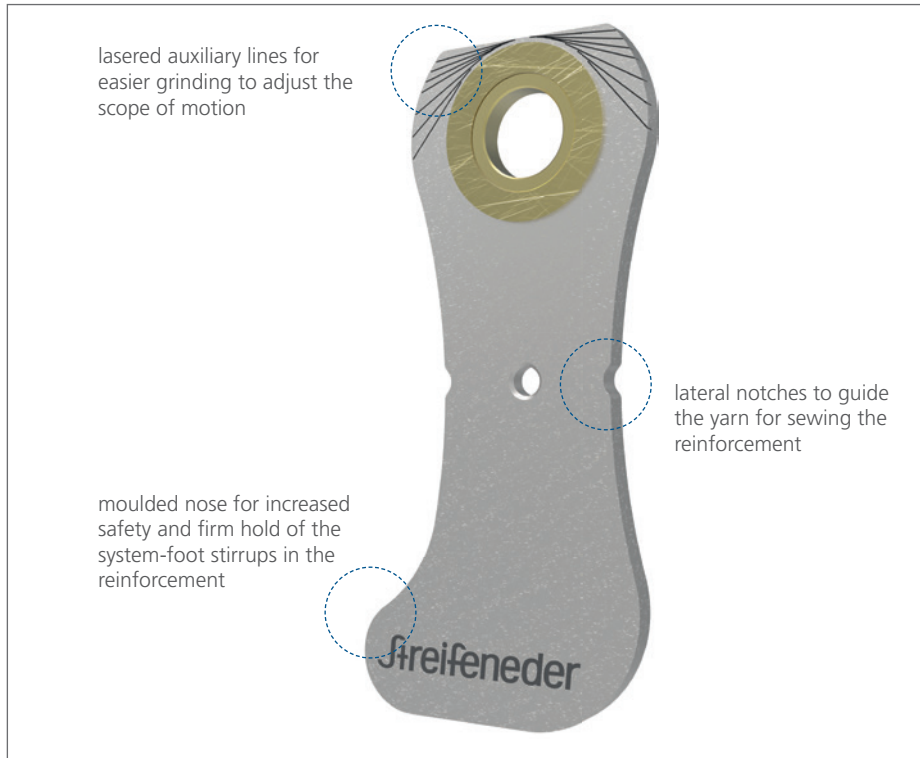


Artikon.malleo System-Ankle Joints with springs

- material: stainless steel
- lateral side of the joint straight, medial side of the joint offset (for the left side: 1J30/16L and 1J30/20L) (for the right side: 1J30/16R and 1J30/20R)
- lateral and medial sides of the joint straight (1J31/16 and 1J31/20)
- lateral and medial sides of the joint offset (1J32/16 and 1J32/20)



System-Foot Stirrups



The Artikon.malleo system-foot stirrups form the second moving part of the ankle joint and are constructed in two different types - for rivet and lamination technology.

In order to adjust the scope of motion, the orthopaedic technician has to grind the foot stirrup. To facilitate this work step and to achieve precise work results, auxiliary markers can be found on the end of the foot stirrup at 5° intervals.

The dorsal and plantar flexion of the foot stirrups without springs can be ground to a maximum of 50°. For optimal spring force, the dorsal extension of the foot stirrups with springs can be ground individually up to a maximum of 20°.

Artikon.malleo System-Foot Stirrups for System-Ankle Joints without springs

- material: foot stirrups made of stainless steel, thrust washers and oil-free bushing made of bronze
- for rivet technology (1J20/16 and 1J20/20)
- for lamination technology (1J21/16 and 1J21/20)

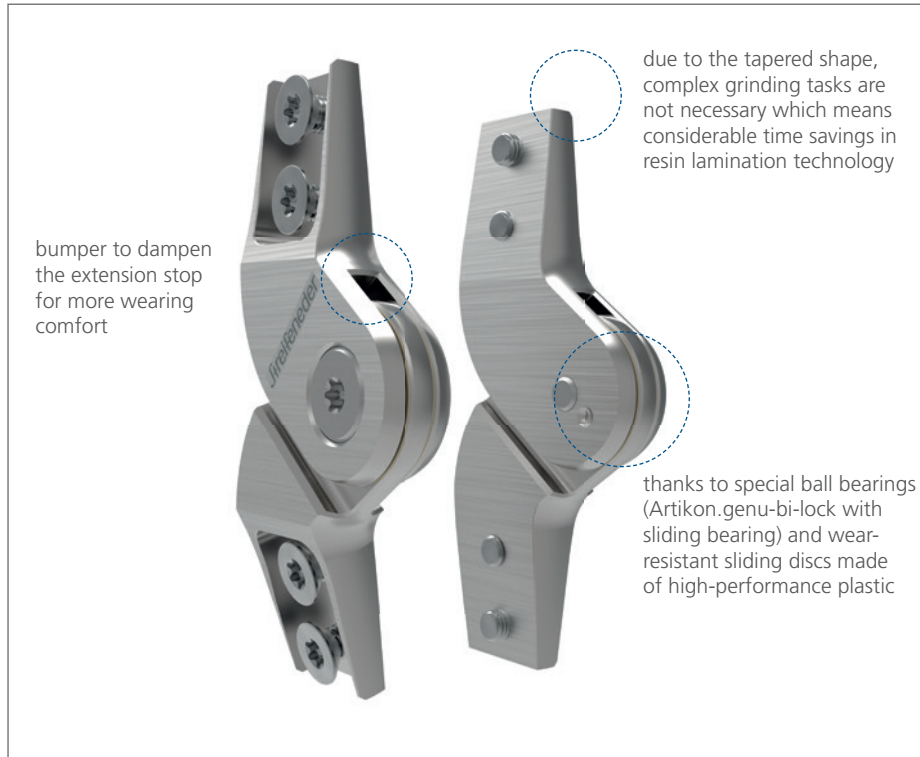


Artikon.malleo System-Foot Stirrups for System-Ankle Joints with springs

- material: foot stirrups made of stainless steel, thrust washers and oil-free bushing made of bronze
- for rivet technology (1J40/16 and 1J40/20)
- for lamination technology (1J41/16 and 1J41/20)



System-Knee Joints



The monocentric system-knee joints Artikon.genu are intended for bilateral movement guidance and support of the human knee joint. Since the joints in the pivot point are relocated back to the rail, the rails can be optimally positioned on the upper and lower legs. The joints without lock, Artikon.genu, are also available in tapered form. Thanks to their narrow design at the ends, these can be used directly in the moulding method. The time-consuming grinding of the joints is no longer necessary.

The sliding discs made of high-performance plastic and the specially developed and exchangeable slide bearings ensure that the joints run smoothly. A bumper embedded in the knee joint helps to cushion the impact and significantly increases wearing comfort, meaning that unpleasant impacts experienced by the patient are absorbed and harmoniously balanced.

Artikon.genu System-Knee Joints

- material: stainless steel
- left: straight lateral joint side on the left, offset medial joint side at the bottom, straight medial joint side at the upper side
(for left side 2J10/16L and 2J10/20L)
(for right side: 2J10/16R und 2J10/20R)
- straight lateral joint side, straight medial joint side
(2J11/16 and 2J11/20)



Artikon.genu System-Knee Joints, tapered

- material: stainless steel
- left: straight lateral joint side on the left, offset medial joint side at the bottom, straight medial joint side at the upper side
(for left side: 2J10/16LV and 2J10/20LV)
(for right side: 2J10/16RV and 2J10/20RV)
- straight lateral joint side, straight medial joint side
(2J11/16V and 2J11/20V)

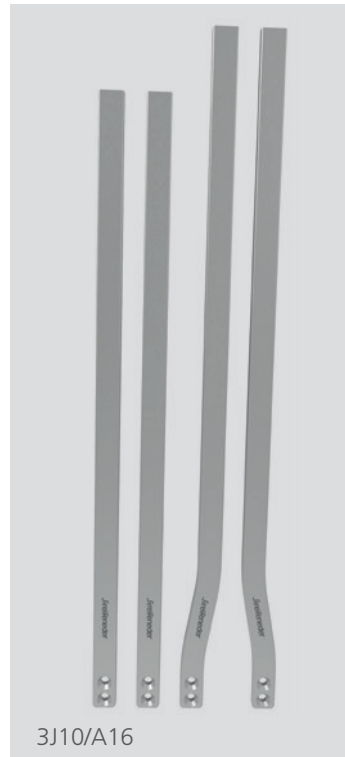


System-Side Bars

The system-laminating- and system-side bars are used as connectors between the joints or between the joint and the orthosis. The technician is able to choose between light-weight aluminum and high-quality stainless steel and between two system widths (16 or 20 mm) as necessary. The high level of accuracy of fit means that the bars do not need to be ground to fit into the bar boxes.

Artikon System-Side Bars

- material: aluminum (3J10/A16 and 3J10/A20)
- material: stainless steel (3J10/S16 and 3J10/S20)



Artikon System-Laminating Bars

- material: stainless steel (3J20/S16 and 3J20/S20)

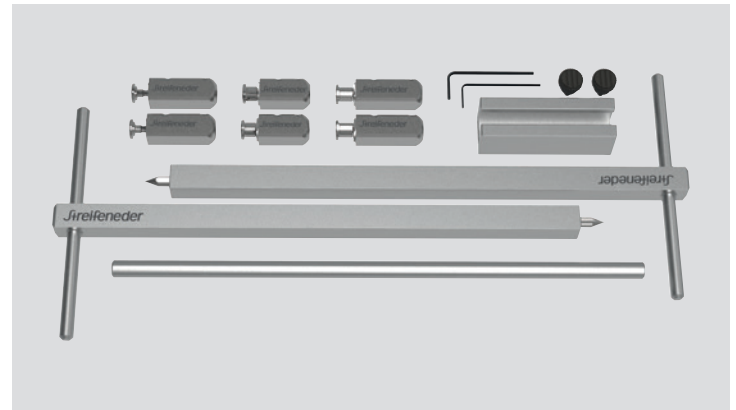




Tools and accessories

For precise processing of the orthotic joints, our programme contains a matching and extensive range of tools (145M60), as well as lamination dummies for the system-ankle joints 1J10/..D and 1J30/..D and system-knee joints 2J10/..D.

You can find more detailed information on this in our product information about the Artikon series on www.streifeneder.com/op.



Artikon.junior Knee Joint Bars for children

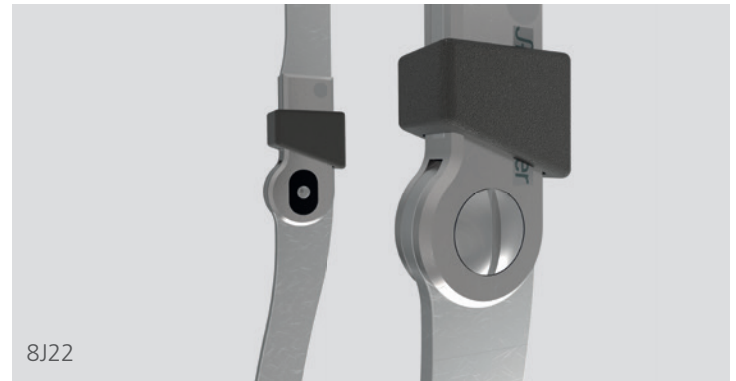
The knee joint bars Artikon.junior were developed for child-appropriate care of patients with flaccid paralysis, such as following an instance of poliomyelitis or spastic paralysis such as infantile cerebral palsy (ICP). The rails are tailored towards the special needs of children both when selecting the materials and with regard to the safety aspects and they help young patients to achieve greater mobility in their everyday lives.

Safety by means of a ring lock

In order to achieve a high level of safety both when standing and when walking, the bars are equipped with ring locks. When the joint is fully extended, the lock falls into the lower end position, locking the knee joint. In order to bend the joint (for example when sitting down), the ring lock simply has to be lifted gently by hand. This releases the lock.

Mobility achieved by light weight and flat construction

Artikon.junior knee joints are made of stainless steel. Since the upper and lower parts of the bars are made of light yet very stable aluminum, however, the little patients are only burdened with a small amount of weight. The knee joint bars profile is of flat construction. This flat construction means the final orthosis remains compact, is not particularly bulky and offers precisely the freedom of motion needed for children's activities. The technician is able to set the system width to 12 mm (8J22/S12), 14 mm (8J22/S14) or 16 mm (8J22/S16), depending on the various individual requirements.



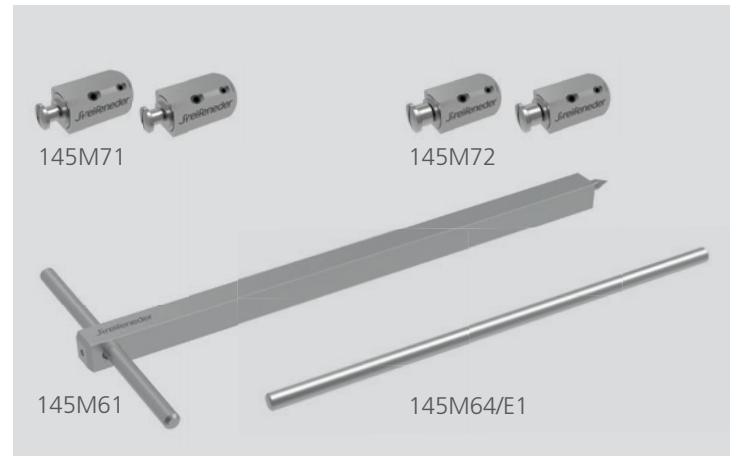


Artikon.junior – Tools and accessories

The following tool sets are available for simple, quick processing of Artikon.junior knee joint bars:

- for bar widths of 12 and 14 mm: tool 145M71
- for bar widths of 16 mm: tool 145M72
- for simple installation of the adjustment axis: 145M61
- positioning aid for aligning the adjustment adapters: aligning bar 145M64/E1

For the greatest possible motion in the ankle joint,
we recommend our orthotic joints
Elastic Joint 10J1 – 14J1.



Casting and laminating – everything from one supplier

Streifeneder ortho.production GmbH offers a wide range of materials for all your resin-lamination processing needs. This includes, among others, acrylic and epoxy resins, colour paste and helpful accessories from mixing cups to stockinettes.

You can find more information in our main catalogue
Materials & Equipment on: www.streifeneder.com/op

The training centre Streifeneder ortho.training offers practice-oriented seminars on orthosis construction from A to Z and on the manufacture of an orthosis using cast resin technology.
Find out more on: www.streifeneder.com/training

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300W129/E 2019-01

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