

ORTHO
SYSTEMS

2000
2026

Years in motion



Excellence in Neuro-Orthopedics

Your Patient – Our Contribution

Products
Download

Orthotics 14.0
Valid from July 2026

About Us



ORTHO-SYSTEMS

is a small and relatively young company for the industry, being founded in the year 2000.

With ingenuity and creative technical solutions, we are the only supplier to cover all essential components of orthotics: ankle, knee and hip joints, quick-release mechanisms, extension assists, as well as standing and walking podiums.

We place utmost importance on quality, from design stages and material selection through to production. Customer satisfaction has confirmed this and motivates us further. "Made in Germany" is a claim which compels us to the highest standards. Fabrication, assembly and distribution take place at our base in Kirchheim under the strictest management. Our in-house control and integration of every aspect enable us to constantly improve our products and remain innovative.

Convince yourself. We look forward to hearing from you!

Your *Ortho-Systems-Team*



2000
2026

Years in motion

Our Superpower



Contents



Ortho-Systems	Our Expertise and Milestones		Page 6–7
	Upright Bars and Reliability through Precision		Page 8–9
	Precision and No Assembly Required		Page 10–11
	Unilateral is Standard		Page 12–13
Internet Shop	Configurator and Products/Shop	Page 24–25	
	Transactions and Your Logged-in Area	Page 26–27	
	Replacement Parts and User Management	Page 28–29	
Tools	Assembly tools	Page 204–205	
	Workshop tools	Page 206–209	

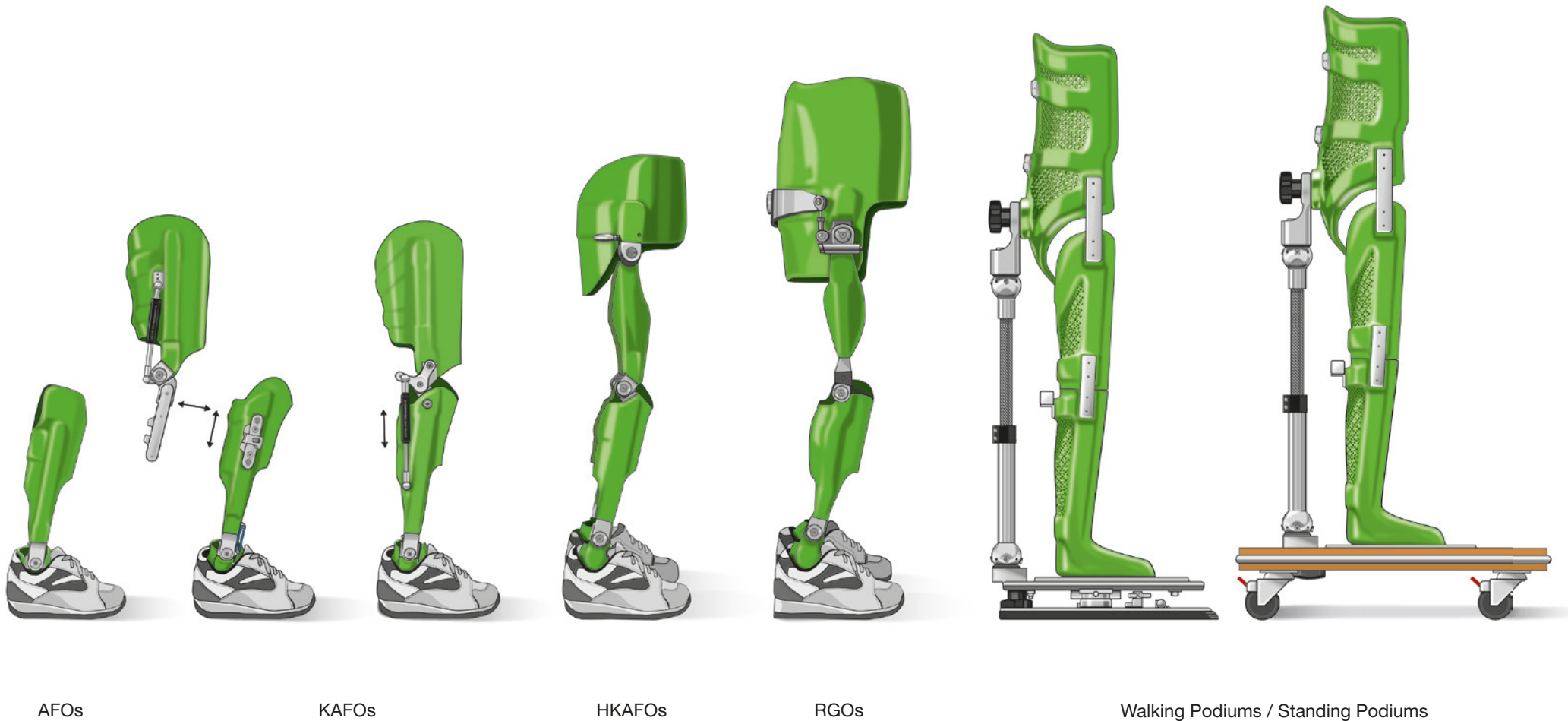
Contents



Ankle	Functional Overview Ankle Joints	Page 40–41	
	Ankle Joints	Page 42–67	
Free-motion knee	Functional Overview Free-Motion Posterior Offset Knee Joints	Page 84–85	
	Overview Free-Motion Knee Joints with Extension Assist	Page 86–87	
	Free-motion knee joints	Page 88–103	
Locked Knee	Functional Overview Locked Knee Joints	Page 104–105	
	Overview Locked Knee Joints with Extension Assist	Page 106–107	
	Locked Knee Joints	Page 108–137	
Additions	Functional Overview Separators	Page 138–139	
	Separator Quick-Release Mechanism	Page 140–145	
	Donning Aid Rudi	Page 146–147	
Partially Restricted Hip	HKAFO Hip Joints in Comparison	Page 160–161	
	Functional Overview HKAFO Hip Joints	Page 162–163	
	HKAFO Hip Joints	Page 164–175	
Reciprocating Hip	RGO Hip Joints in Comparison and Functional Overview	Page 182–183	
	RGO Custom Fabricated Pelvic Connection	Page 184–185	
	RGO Hip Joints	Page 186–191	
Podium	Walking Podiums in Comparison and Functional Overview	Page 192–193	
	Walking Podiums	Page 194–197	
	Standing Podiums in Comparison and Functional Overview	Page 198–199	
	Standing Podiums	Page 200–203	

Our Dedication Defines our Vocation

As the sole supplier offering components to cover all areas of walking orthoses, our unique position stems from an in-depth understanding of the wide variety of orthotic devices and their particular needs. This expertise allows us to provide our customers with tailored advice, ensuring they receive the ideal product suited to their specific requirements. Drawing on our extensive knowledge from AFOs to walking podiums, we want to share these insights with you, our valued customers, through this catalog. Our aim is to enable you to produce the best possible orthosis using our products.



Milestones

Innovations from ORTHO-SYSTEMS that have improved the world of orthotics



System

We designed the first **weight classification** for orthotic joints.
In the past, one distinguished only between adult and children's joints, which is unthinkable now.
Today, weight limit specifications are common practice.

Strength

Concept for **laminating rotationally-stable orthoses**.
Previously, most orthoses were either metal and leather or vacuum-formed plastic.
The instability made walking considerably more difficult and in the case of heavy patients almost impossible.
Fortunately, alternatives to soft and instable orthoses are available today.

Targeted

The **first Configurator** in the industry and in 2004 honored by the German Federal Minister of Economics.
During configuration, a code is generated from the patient data which recommends appropriate joints. Our latest version Configurator 7.2 is unmatched in terms of function, clarity and speed.

Stability

The **unilateral concept** for knee and ankle joints, with defined flexibility and rotational stability.
Double-sided joints should only be used with orthoprostheses and in exceptional cases.
Unilateral walking orthoses are today's standard.

Durability

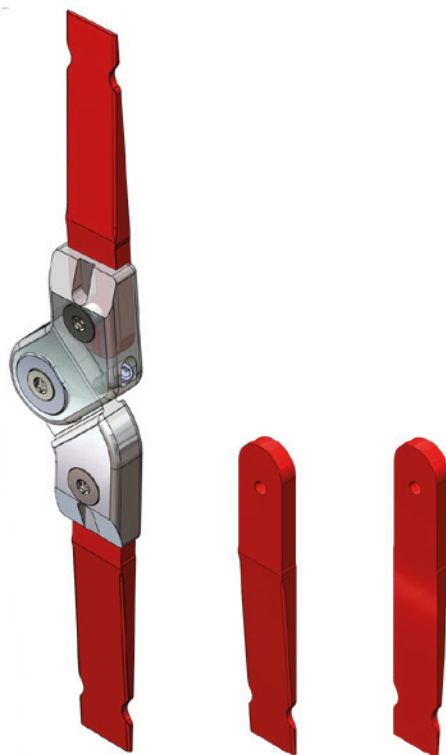
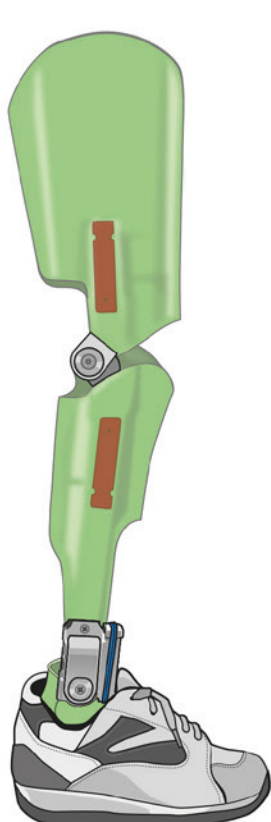
Improved joint assembly with anti-rotation lock and synthetic washers calibrated to 1/100 of a millimeter.
Hard to believe orthotic joints were once delivered with so much play that double-sided fabrication was necessary just to stabilize the orthosis.

Forces

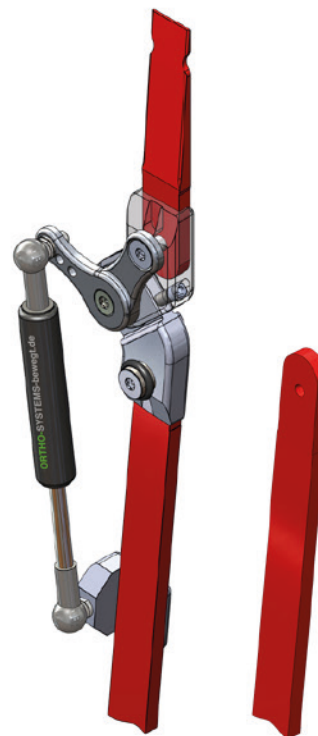
Development of the **first ankle joint with power unit** (carbon spring patent).
Up to this point, the only available joints with springs were for preventing foot drop.
Today, dynamic ankle joints with supporting or straightening forces are an integral part of orthotic management.

Upright Bars

The connection between the orthotic joint and the orthosis is one of the most highly stressed and safety-critical areas of a walking orthosis. A key element is the recess on the joint for the upright, which transfers forces into the side bars. Our orthotic joints use a unique design that combines **a precise, machined fit with a deliberately offset threaded hole**. By positioning the hole away from the main load path, the material remains strong where it matters most, resulting in a durable and reliable connection. This design also allows the upright to be securely fixed with a single screw instead of two, simplifying assembly. Here, the precise fit ensures accurate positioning and load transfer, while the screw provides the clamping force. Separating these two functions reduces interaction and improves **long-term stability**.



Short Upright
Flat and tapered sides



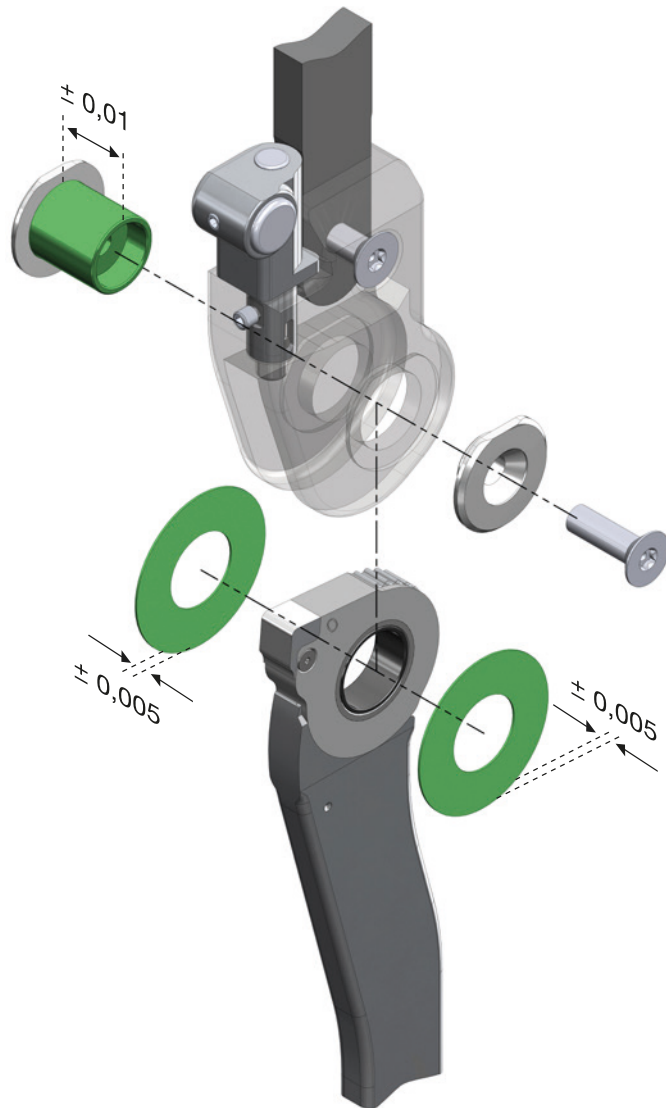
Full-length Upright



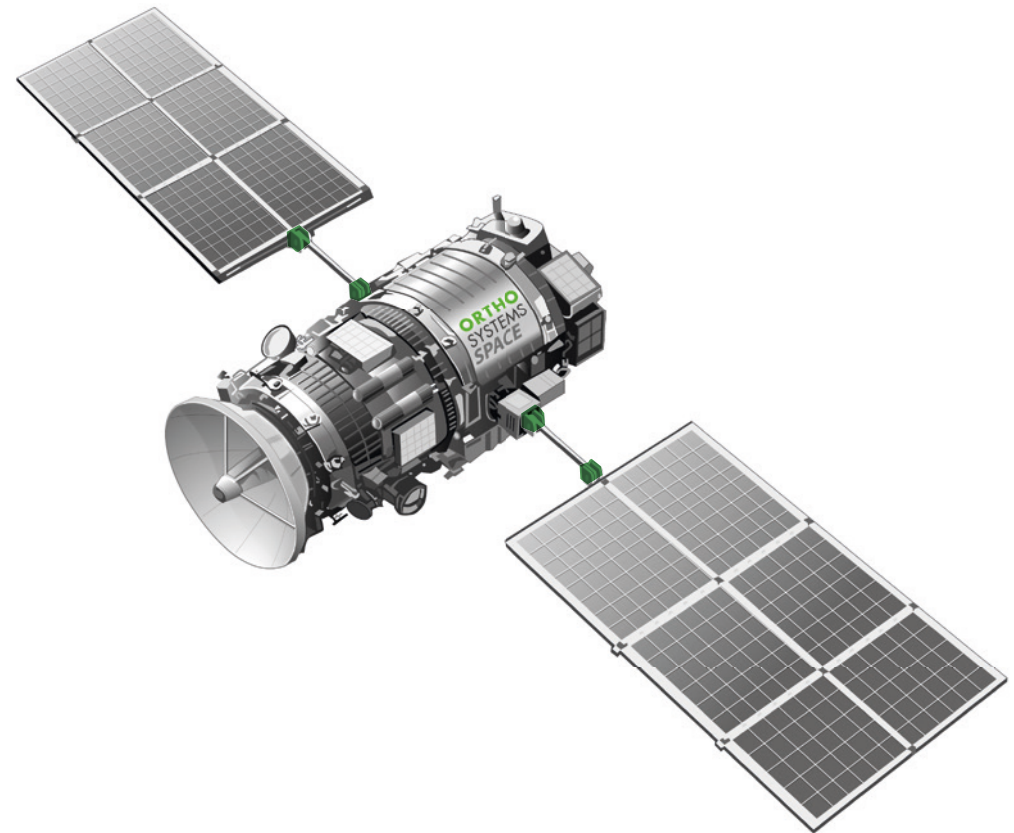
We distinguish between **short and full-length** uprights. Short uprights are tapered on one side and flat on the other and can be flipped as needed. They are particularly suitable for prepreg orthoses. Full-length uprights extend along the entire orthosis and provide additional support and stability, for example with acrylic resin laminations. They are also essential when using extension assist add-ons or the overlapping technique for growth adjustments.

Reliability through Precision

Precision in the manufacture of orthotic joints—as in satellite engineering—is not just a quality feature, but a fundamental requirement for proper function. Our joints combine precise design with play-free assembly adjusted to within 1/100 mm, ensuring that all components operate reliably under the varied conditions of everyday use. This guarantees **lasting stability** and preserves function over the **full lifespan**.



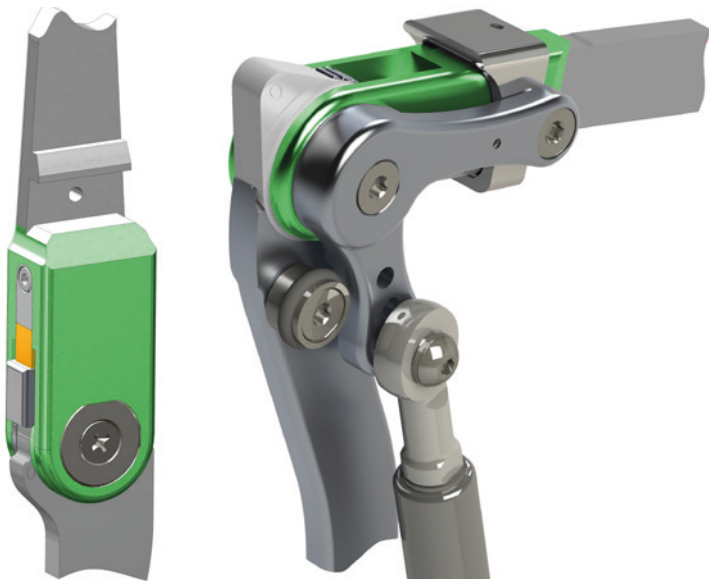
Precision-adjusted Varo-0-PS knee joint



Communications Satellite

Machined From One Piece

Maximum stability for knee and ankle joints is achieved using precision-milled joint forks. Despite the increased complexity of fabrication, we have opted for this type of assembly because it is renowned for its exceptional reliability, guaranteeing flawless function even under intense stress. This design minimizes the number of individual components, reducing potential weak points.



Maximum Stability

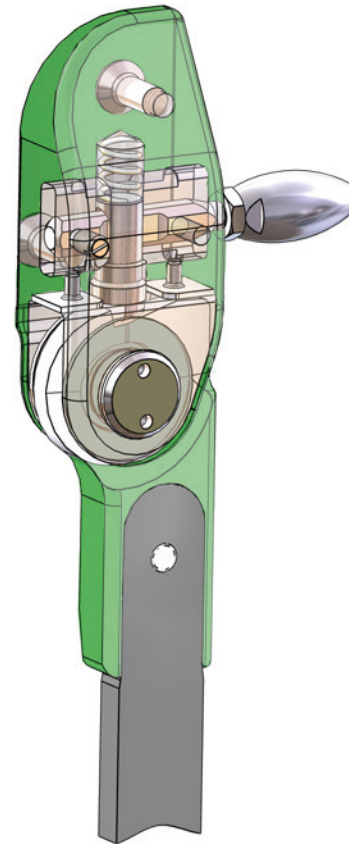
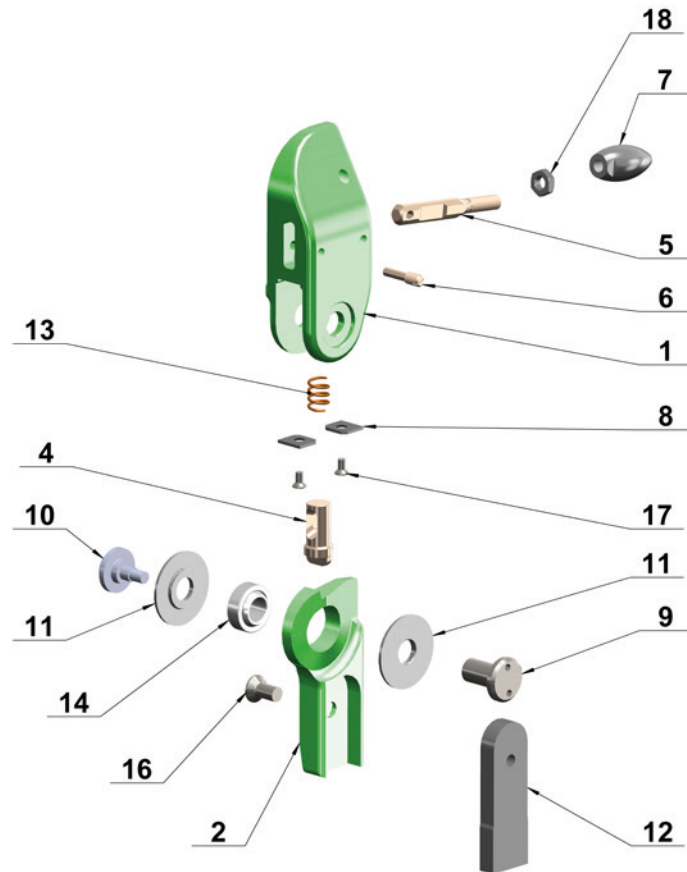


Time-Tested and Proven

High quality standards extend to maintenance as well, avoiding mere preemptive part replacement and instead focusing on thorough checks to ensure everything is correctly secured and functioning. This benefits not only you as the customer and the environment, but is particularly important for your patients.

No Assembly Required

Our products are shipped fully assembled, aligning with our commitment to excellence. Delivering separate items and expecting customers to put them together does not meet our standards.



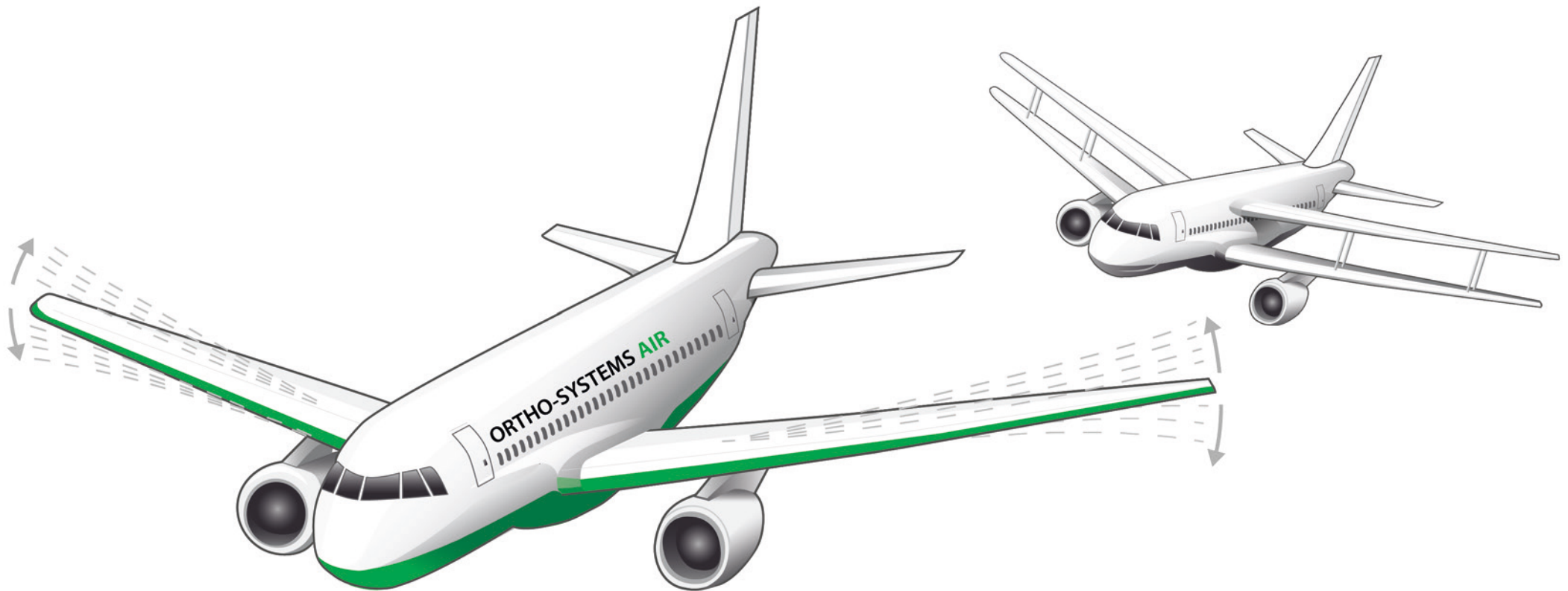
Calibrated, put together, and double-checked by us

No one buys a car in pieces

During the assembly of our joints, we undertake a precise selection and calibration of all components to ensure that each part not only meets quality standards but also fits perfectly with the others. We calibrate our products to one hundredth of a millimeter and rigorously test them for function. Every step of the process is meticulously documented, and we assign a unique serial number to each medical device. Furthermore, we provide comprehensive instructions for use so that our customers can use the product safely and effectively.

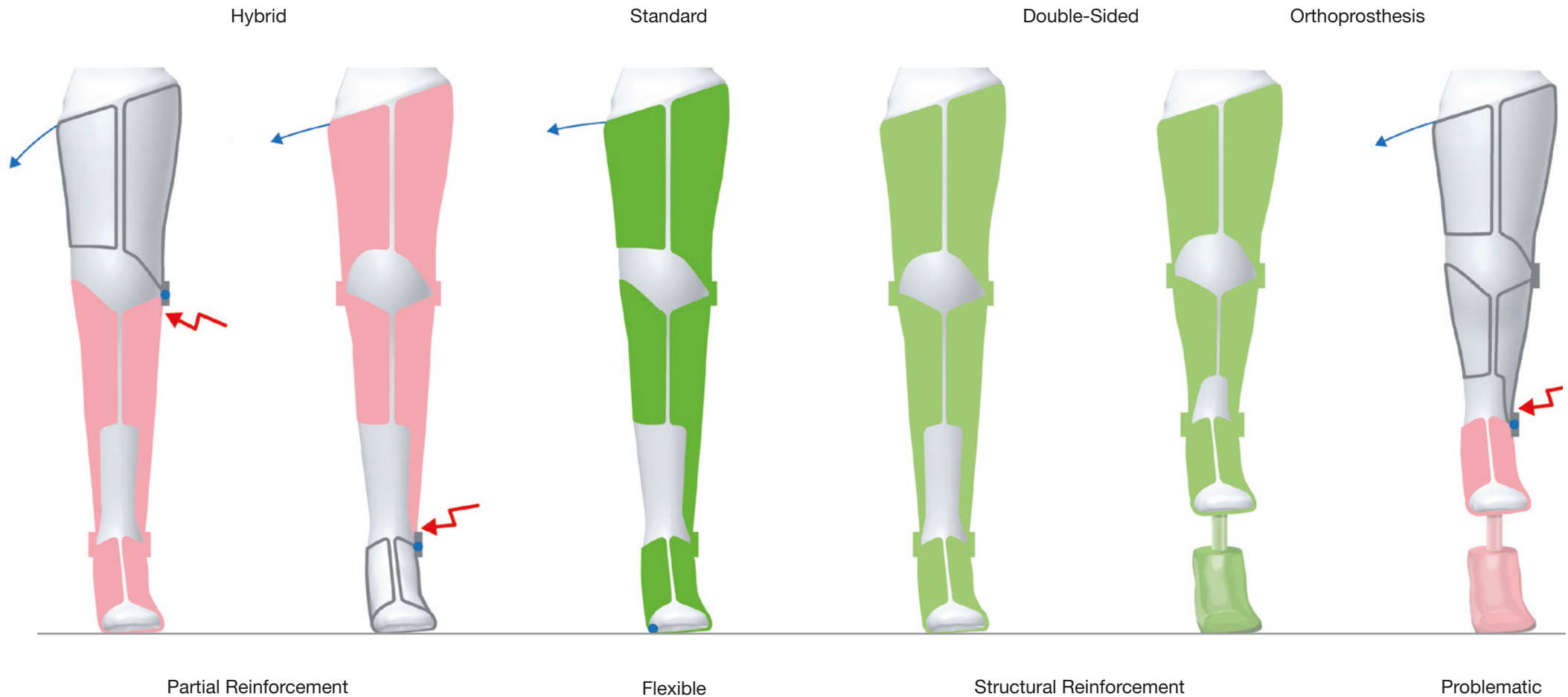
Unilateral is Standard

Under heavy loads, flexible orthoses can bend in a controlled manner, which gives them greater resilience compared to rigid orthoses. This adaptability helps reduce structural fatigue, making them less prone to cracking and material fatigue. Additionally, unilateral orthoses offer an aesthetic design while also providing savings in material and weight.



As little as possible, as much as necessary

The design of an orthosis must be aesthetically appealing, as well as practical, functional, and stable. A single area that becomes a weak point due to unnecessary reinforcement can jeopardize the entire system, regardless of the strength in other areas. Such a weak point might rapidly lead to breaks in structural or joint components. A flexible, unilateral design can adapt to changing load conditions and reduce stress on individual parts, which in turn extends the lifespan and decreases maintenance costs. For orthoses subjected to very high loads, such as for heavy patients or orthoprotheses, the structural stability can be increased by using double-sided joints.



Attention: If your planned orthosis design deviates from our unilateral standard, our weight classification system will not be applicable. Please contact us for assistance.

Configurator 7.2



Put together your joint selection in just a few minutes!

Quick and Concise

A maximum of seven individual details are required.

Targeted Support

Entering data in the select boxes automatically adjusts subsequent boxes

Our system generates an indicator which **suggests appropriate** products on the following page



To our Configurator

Optimized for tablet,
desktop and notebook

Optional information
can also be entered.

Logged-in customers can
save their shopping cart,
print it, and edit it at any time.

Products / Shop

Our time and money saving features at a glance

Wherever you are, find everything you need quickly and efficiently in our online shop.
Discover the possibilities!



Configuration

of your joints in just a few minutes



Accessories

to expand function



Quick Selection

using select boxes or text search



Materials

for fabrication



Orthotics and Prosthetics

with extensive product information



Tools

for technicians

www.ortho-systems-inmotion.com



To our shop

Optimized for tablet,
desktop and notebook



Everything at a Glance

Comprehensive overview of all your transactions



Shipped Products
Search, find or transfer data to a new shopping cart

My Orders
Save your shopping carts and view all documents in pdf format

Configurator Data
Add or edit information.

Personal Login

Configurator 7.2
Start Now

Your Digital Data

Simple and efficient administration in your logged-in area



User Management

For the primary user to manage employee access rights



E-Mail Address Manager

For electronic invoicing, quotes, order confirmations and credit notes



Terms

Your company discounts, shipping and payment conditions



Volume

Your sales figures by time frames and product groups



Payment History

Your average payment times per fiscal year by comparison



Address Book

For editing invoice and delivery addresses as well as contact persons

www.ortho-systems-inmotion.com

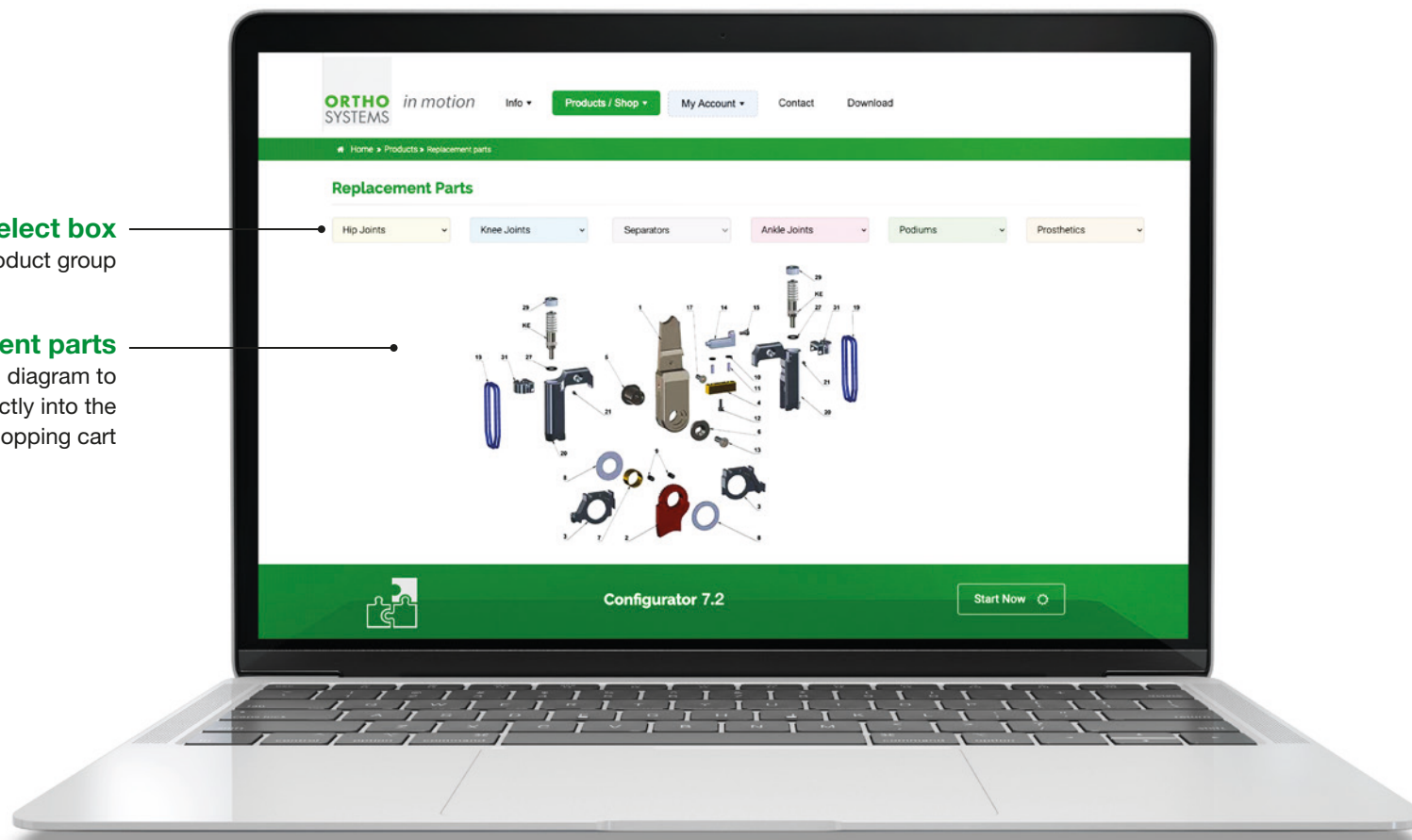


Replacement Parts

Just click on what you need and add it to the shopping cart!

Use the select box
go directly to the product group

Replacement parts
from the expanded diagram to
size selection directly into the
shopping cart



To replacement
part overview

Optimized for tablet,
desktop and notebook

User Management

Ensuring maximum security for your customer and patient data with the authorized user system



The primary user adds authorized users

Access rights managed by the primary user according to authorized user needs

Security The primary user can delete authorized users

MAIN USER		ACCESS TO...					
Name	About us: You as customer	My Account: Shipped Products	My Account: My Orders	Master Data: Address Book	Master Data: Terms	Master Data: Volume	
Management	✓	✓	✓	✓	✓	✓	

AUTHORIZED USER		ACCESS TO...					
Name	About us: You as customer	My Account: Shipped Products	My Account: My Orders	Master Data: Address Book	Master Data: Terms	Master Data: Volume	
Chris Mustermann	✗	✓	✓	✓	✓	✓	
John Doe	✗	✓	✓	✓	✓	✓	
Juan Perez Fulano	✗	✓	✓	✓	✗	✗	
Chewbacca	✓	✓	✓	✗	✓	✓	

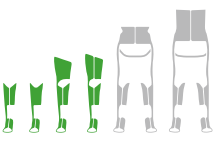
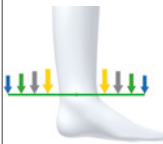
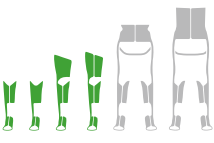
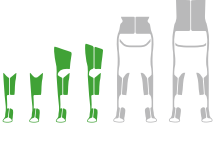
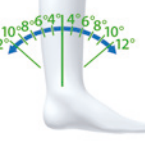
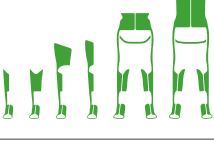
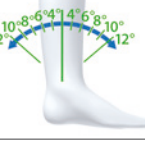
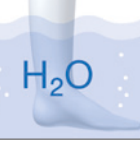
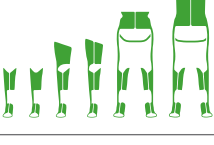
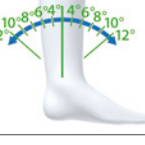
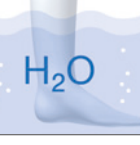
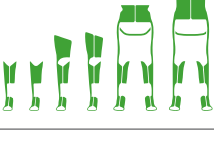
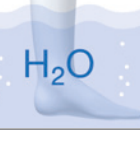
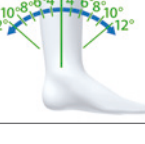
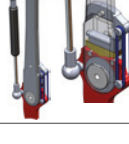
Functional Overview Ankle Joints

All ankle joints are shipped fully assembled. The joints are free of play, self-lubricating, and dirt-resistant. The Naveta, Jumper, Shuttle, and Basic ankle joints maintain the foot in maximum dorsiflexion during swing phase using sustained joint friction, thereby significantly reducing the risk of tripping. For patients requiring more dorsiflexion force, the Ela-Dor model with interchangeable tension bands is a better option (adjustable force).



Orthosis	Adjustable Alignment	Modular	Force-Options	Range of Motion	Swing phase	Quick Adjustment	No Grinding necessary	Noise Dampening	Water Resistant		
											Ela-Dor Pages 42-43
											Naveta Pages 44-45
											Jumper Pages 46-47
											Shuttle Pages 48-49
											Basic Pages 50-51
											Easy-A Easy-T Pages 52-53

Modular, expandable ankle joints available as combi-products with accessories. The modular options Turbo, Uno-front, Uno-back, -Flex and -Dor can be added or exchanged at any time and enhance the function of the ankle joint. Force options are defined as follows: blue (light), green (mild), grey (medium) and yellow (strong).

Orthosis	Adjustable Alignment	Modular	Force-Options	Range of Motion	Swing phase	Quick Adjustment	No Grinding necessary	Noise Dampening	Water Resistant	
										 Shuttle with Turbo Pages 54-55
										 Shuttle with Uno-front Pages 56-57
										 Shuttle with Uno-back Pages 58-59
										 Shuttle with Dor Pages 60-61
										 Shuttle with Flex Pages 62-63
										 Ela-FI-Ex Pages 64-65
										 Ela-FI-Ex with Post Pages 66-67

Ela-Dor Ankle Joint



Features

Sizes available for **small to large** patients

Interchangeable movement stops. **No grinding necessary!**

+ **Active dorsiflexion assist** during swing phase

+ Active support and **dampening at heel strike**

+ Durable tension bands in **varying strengths**

Cartridge system for **quick and easy adjustment** of movement stops

Upper section fabricated from **high-strength aluminum**

Machined brass movement stops guarantee **exact angles** throughout the lifetime of the orthosis

Up to **12° dorsiflexion** and **12° plantarflexion**

Noise dampening, quiet operation promotes acceptance

Depending on the required force, **one, two, or three tension bands** can be fitted.

Lightweight, rigid aluminum stirrup

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Integrated upright bar ensures **optimal transfer of force**

Upper section **CNC-machined from one piece** of material for increased stability

Precise assembly calibrated to 1/100mm with self-lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

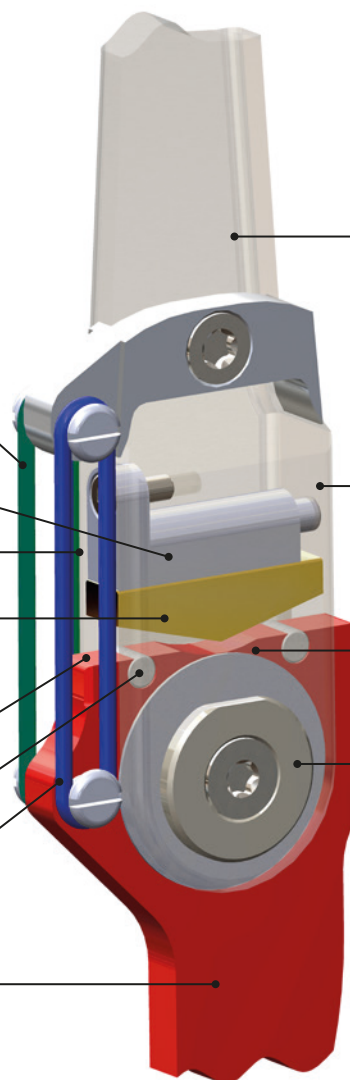
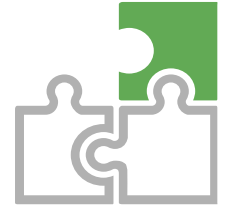


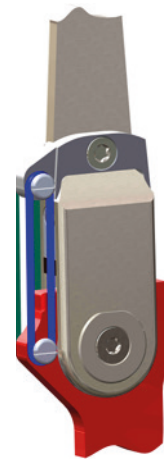
Fig. right



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)			Joint	
Article No.	AFO/KAFO	HKAFO/RGO	Width	Thickness
Ela-Dor-22	up to 15 kg	up to 15 kg	35 mm	14,0 mm
Ela-Dor-25	up to 25 kg	up to 25 kg	37 mm	14,5 mm
Ela-Dor-28	up to 35 kg	up to 35 kg	41 mm	14,5 mm
Ela-Dor-32	up to 50 kg	up to 50 kg	47 mm	19,0 mm
Ela-Dor-34	up to 70 kg	up to 70 kg	49 mm	19,0 mm
Ela-Dor-38	up to 85 kg	up to 85 kg	55 mm	22,0 mm



Adjustable Alignment	Modular	Force Options	Range of Motion	Swing Phase	Quick Adjustment	Interchangeable Stops	No Grinding Necessary	Noise Dampening	Water Resistant
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Naveta Ankle Joint



Features

Sizes available for **small to large** patients

Interchangeable movement stops. **No grinding necessary!**

+ Maintenance free, sustained joint friction **resists foot drop** during swing phase without springs

+ **Adjustable friction** for a smooth heel rocker

Cartridge system for **quick and easy adjustment** of movement stops

Upper section fabricated from **high-strength aluminum**

Machined brass movement stops guarantee **exact angles** throughout the lifetime of the orthosis

Up to **12° dorsiflexion** and **12° plantarflexion** stops

Noise dampening, quiet operation promotes acceptance

Lightweight, rigid aluminum stirrup

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Integrated upright bar ensures **optimal transfer of force**

Upper section **CNC-machined from one piece** of material for increased stability

Precise assembly calibrated to 1/100mm with self-lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

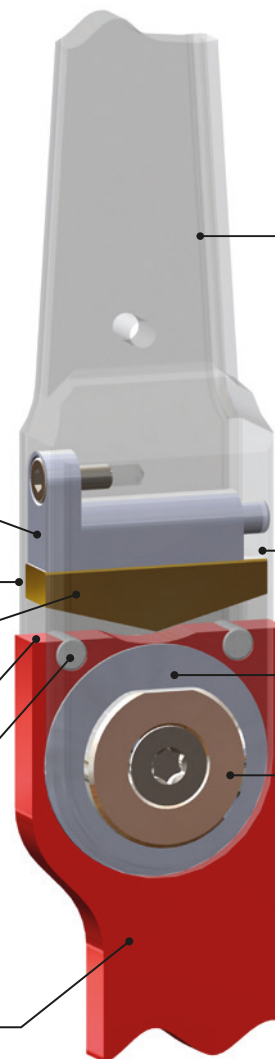
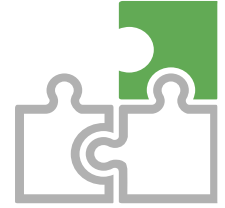


Fig. right



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)			Joint	
Article No.	AFO/KAFO	HKAFO/RGO	Width	Thickness
Naveta-22	up to 15 kg	up to 15 kg	22 mm	14,0 mm
Naveta-25	up to 25 kg	up to 25 kg	25 mm	14,5 mm
Naveta-28	up to 35 kg	up to 35 kg	28 mm	14,5 mm
Naveta-32	up to 50 kg	up to 50 kg	32 mm	19,0 mm
Naveta-34	up to 70 kg	up to 70 kg	34 mm	19,0 mm
Naveta-38	up to 85 kg	up to 85 kg	38 mm	22,0 mm



Adjustable Alignment	Modular	Force Options	Range of Motion	Swing Phase	Quick Adjustment	Interchangeable Stops	No Grinding Necessary	Noise Dampening	Water Resistant
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Jumper Ankle Joint



Features

Sizes available for **small to large** patients

+ Interchangeable movement stops. **No grinding necessary!**

+ Maintenance free, sustained joint friction **resists foot drop** during swing phase without springs

+ **Adjustable friction** for a smooth heel rocker

Upper section fabricated from **high-strength aluminum, titanium or stainless steel**

Machined brass movement stops guarantee **exact angles** throughout the lifetime of the orthosis

Up to **12° dorsiflexion** and **12° plantarflexion** stops

Noise dampening, quiet operation promotes acceptance

Lightweight, rigid aluminum stirrup

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Available with **long or short upright**

Machined upright and offset connection ensure **optimal transfer of force**

Upper section **CNC-machined from one piece** of material for increased stability

Precise assembly calibrated to 1/100mm with self-lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

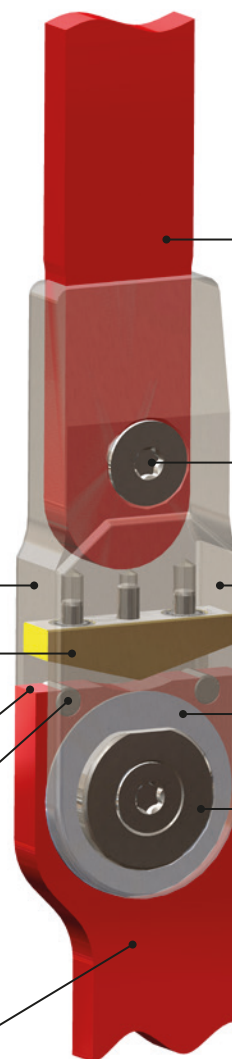
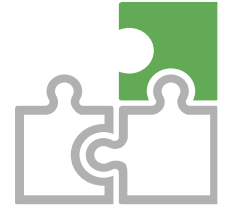
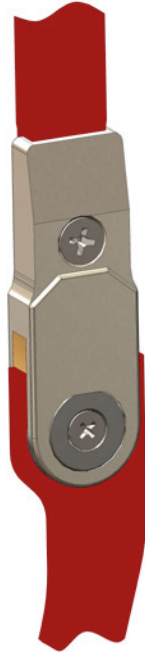


Fig. right



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)					Joint		Material	
Article No.	AFO	KAFO	HKAFO/RGO		Width	Thickness	Upper Section	Stirrup
Jumper-22	up to 15 kg	up to 15 kg	up to 15 kg		22 mm	12,0 mm	Al	Al
Jumper-25	up to 25 kg	up to 25 kg	up to 25 kg		25 mm	13,0 mm	Al	Al
Jumper-28	up to 35 kg	up to 35 kg	up to 35 kg		28 mm	13,0 mm	Al	Al
Jumper-32	up to 50 kg	up to 50 kg	up to 50 kg		32 mm	19,0 mm	Al	Al
Jumper-34	up to 70 kg	up to 70 kg	up to 70 kg		34 mm	16,0 mm	Al	Al
Jumper-34-Plus	up to 70 kg	up to 70 kg	-		34 mm	16,0 mm	Ti	Al
Jumper-34-extra	up to 70 kg	-	-		34 mm	16,0 mm	V2A	V2A
Jumper-38	up to 85 kg	up to 85 kg	up to 90 kg		38 mm	20,0 mm	Al	Al
Jumper-38-Plus	up to 85 kg	up to 90 kg	-		38 mm	20,0 mm	V2A	Al
Jumper-38-extra	up to 110 kg	-	-		38 mm	20,0 mm	V2A	V2A

									
Adjustable Alignment	Modular	Force Options	Range of Motion	Swing Phase	Quick Adjustment	Interchangeable Stops	No Grinding Necessary	Noise Dampening	Water Resistant

Shuttle Ankle Joint



Features

Sizes available for **small to large** patients

Interchangeable movement stops. **No grinding necessary!**

+ Maintenance free, sustained joint friction **resists foot drop** during swing phase without springs

+ **Adjustable friction** for a smooth heel rocker

Additional functions with the **Uno-back, Turbo, Uno-front, Dor and Flex** add-ons

Cartridge system for **quick and easy adjustment** of movement stops

Upper section fabricated from **high-strength aluminum**

Machined brass movement stops guarantee **exact angles** throughout the lifetime of the orthosis

+ **Up to 12° dorsiflexion and 12° plantarflexion stops**

Noise dampening, quiet operation promotes acceptance

+ **Independent adjustment of ankle angle** up to 15° in each direction

Lightweight, rigid aluminum stirrup

Standard

Fully assembled as one item for clear cost estimates and uncomplicated ordering

Integrated upright bar ensures **optimal transfer of force**

Upper section **CNC-machined from one piece** of material for increased stability

Precise assembly calibrated to 1/100mm with self-lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

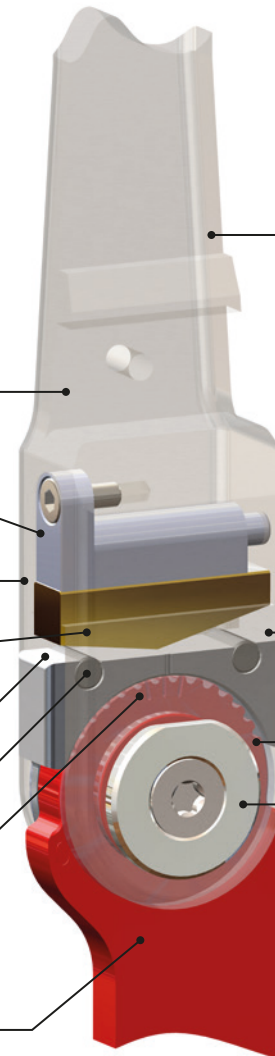
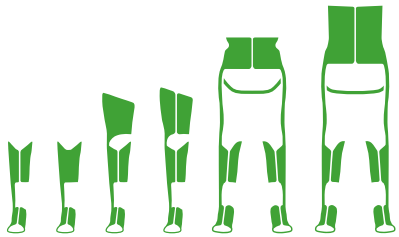
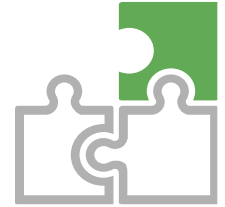


Fig. left



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)			Joint	
Article No.	AFO/KAFO	HKAFO/RGO	Width	Thickness
Shuttle-22	up to 15 kg	up to 15 kg	22 mm	15,5 mm
Shuttle-25	up to 25 kg	up to 25 kg	25 mm	18,0 mm
Shuttle-28	up to 35 kg	up to 35 kg	28 mm	18,0 mm
Shuttle-30	up to 45 kg	up to 45 kg	30 mm	21,0 mm
Shuttle-32	up to 55 kg	up to 55 kg	32 mm	21,0 mm
Shuttle-34	up to 70 kg	up to 70 kg	34 mm	22,0 mm



Adjustable Alignment	Modular	Force Options	Range of Motion	Swing Phase	Quick Adjustment	Interchangeable Stops	No Grinding Necessary	Noise Dampening	Water Resistant
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Basic Ankle Joint



Features

Small size for **toddlers**

+ Maintenance free, sustained joint friction **resists foot drop** during swing phase without springs

+ **Adjustable friction** for a smooth heel rocker

Fabricated from **high-strength aluminum**

Quick changes to alignment and movement stops with self-locking setscrews

Range of motion up to **20° dorsiflexion** and **20° plantarflexion**

Quiet movement stops promote acceptance

Lightweight aluminum stirrup

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Integrated upright bar ensures **optimal transfer of force**

Upper section **CNC-machined from one piece** of material for increased stability

Precise assembly calibrated to 1/100mm with self-lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

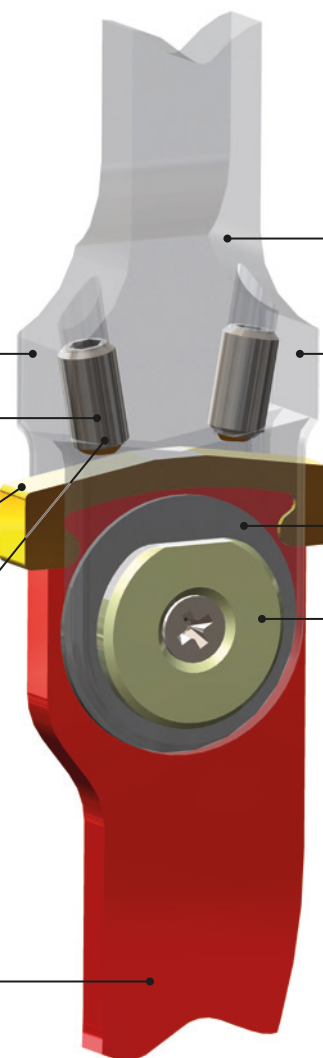
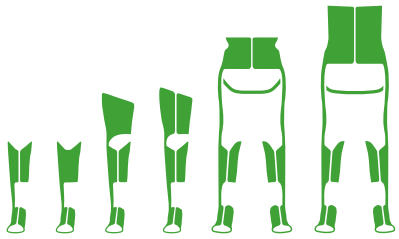
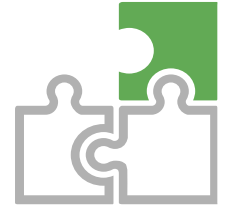


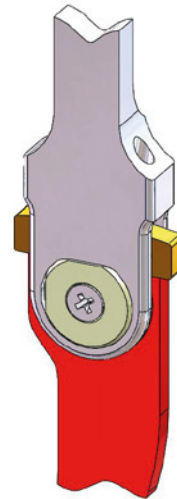
Fig. left



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)			Joint	
Article No.	AFO/KAFO	HKAFO/RGO	Width	Thickness
Basic-18	up to 10 kg	up to 10 kg	18 mm	8,0 mm



Adjustable Alignment	Modular	Force Options	Range of Motion	Swing Phase	Quick Adjustment	Interchangeable Stops	No Grinding Necessary	Noise Dampening	Water Resistant

Easy-A and Easy-T Ankle Joint

Features

Waterproof for all situations

- + Active support during **midstance**
- + Active support of the **heel rocker**
- + Resists foot drop during **swing phase**
- + Combine between 2 different **spring forces** or **stop pins**

Noise dampening, quiet operation promotes acceptance

+ Upper section fabricated from **high-strength aluminum or titanium**

Robust, **stainless steel** springs and ball bearings

Bronze movement stops

Range of motion up to **17° dorsiflexion** and **17° plantarflexion** for adjustments to alignment and stops

Exclusive contour for **more stability**

Anchoring points to secure lamination materials

Pre-bent on request

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Available with **long or short upright**

Upper section **CNC-machined from one piece** of material for increased stability

Machined upright and offset connection ensure **optimal transfer of force**

Precise assembly calibrated to 1/100mm with self-lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

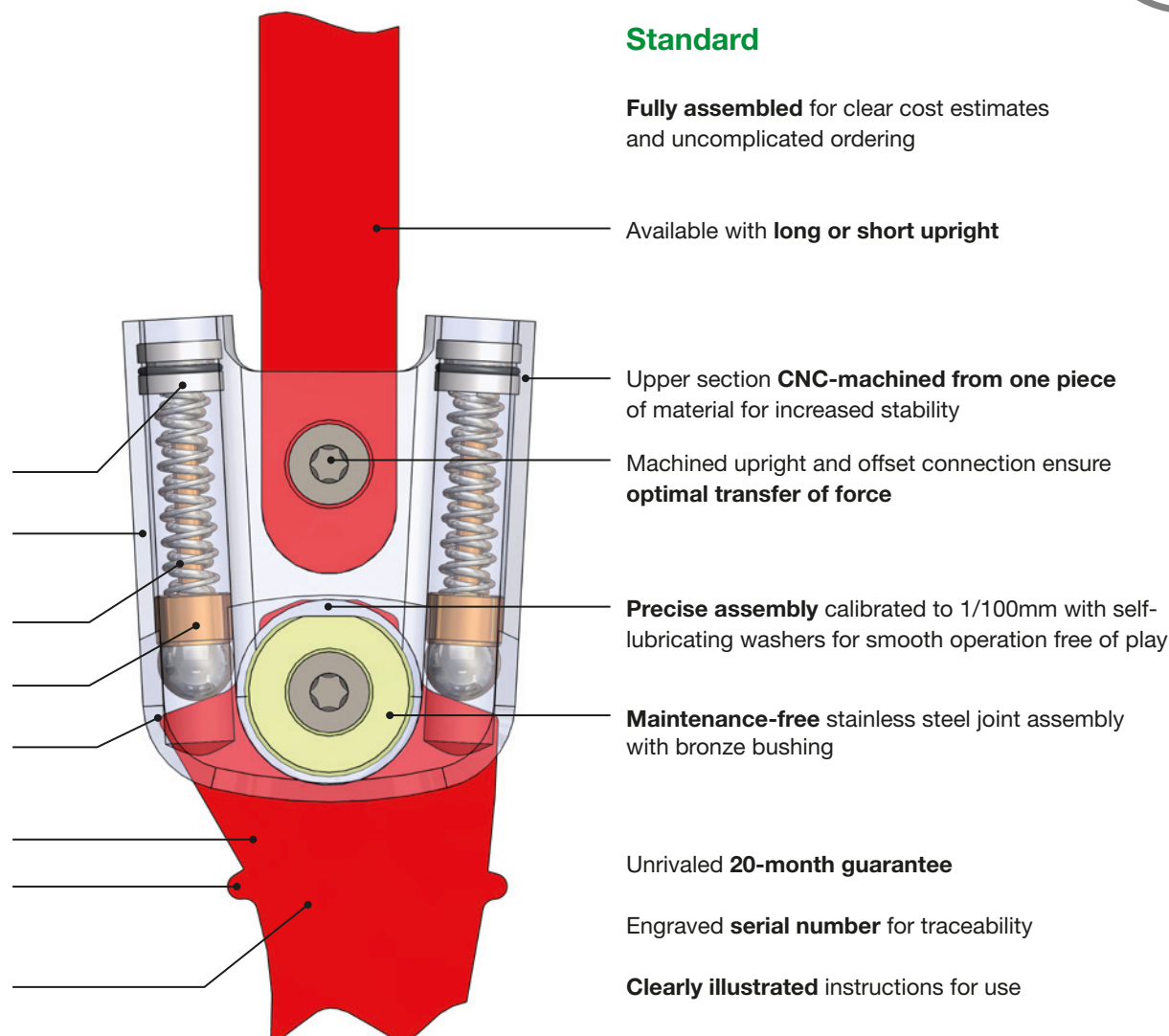
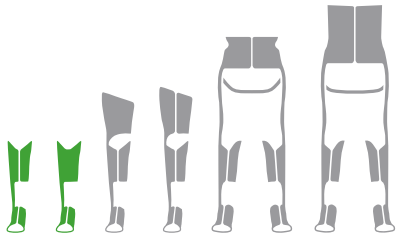
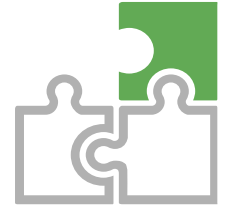


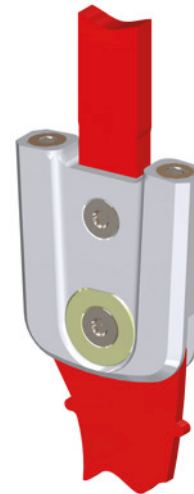
Fig. left

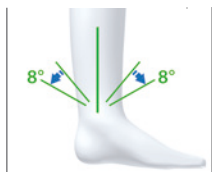
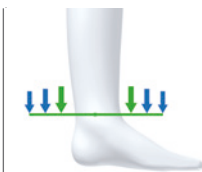


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)				Joint		
Article No.	Article No.	AFO/KAFO	For More Force	Width	Thickness	Height
Easy-A-19	Easy-T-19	up to 10 kg	up to 10 kg	34 mm	9,0 mm	42 mm
Easy-A-22	Easy-T-22	up to 15 kg	up to 10 kg	39 mm	9,5 mm	46 mm
Easy-A-25	Easy-T-25	up to 25 kg	up to 15 kg	44 mm	11,5 mm	52 mm
Easy-A-28	Easy-T-28	up to 40 kg	up to 30 kg	49 mm	12,0 mm	58 mm



	Modular					Interchangeable Stops			
Adjustable Alignment		Force Options	Range of Motion	Swing Phase	Quick Adjustment		No Grinding Necessary	Noise Dampening	Water Resistant

Shuttle-Turbo

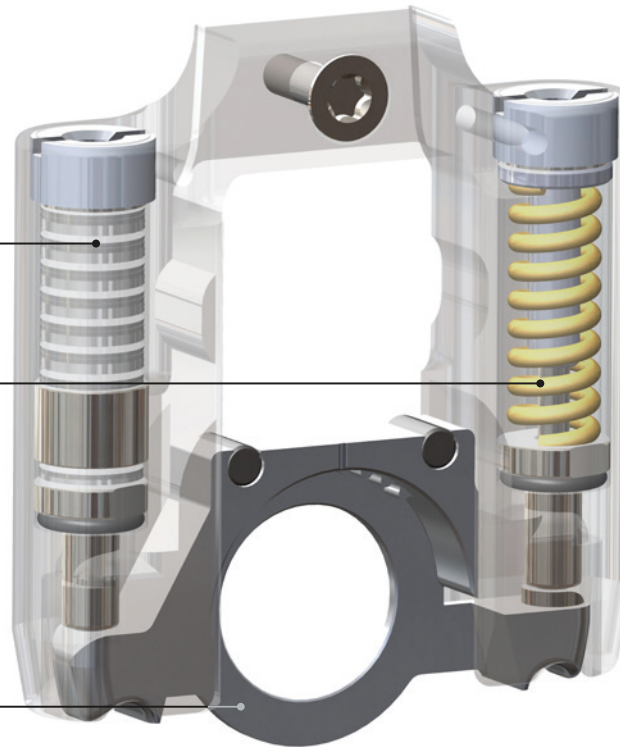


Features

Standard

- + **Anterior power unit** uses interchangeable spring forces (dorsiflexion resistance) to **support** calf musculature
- + **Posterior power unit** uses medium to strong forces (plantarflexion resistance) for **reducing** correctable equinus. Weaker forces are used to dampen heel strike for **a smooth heel rocker**

Segment attaches to the Shuttle ankle joint stirrup



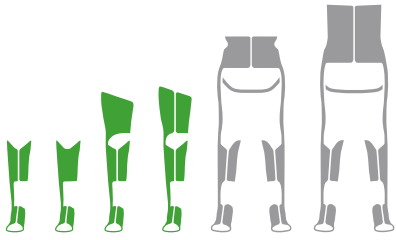
Available **separately or as combi-product** together with the Shuttle ankle joint

Precise assembly calibrated to 1/100mm for smooth operation free of play

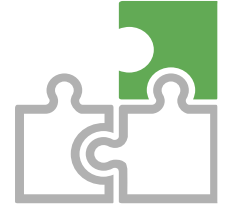
Serial number for traceability

Clearly illustrated instructions for use

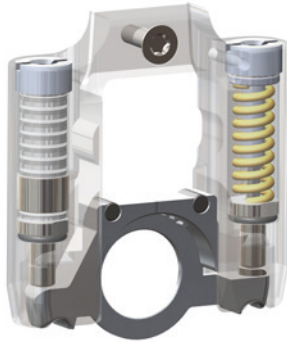
Fig. left

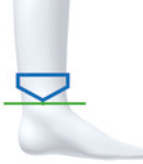


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product		AFO/KAFO		Article No.
Shuttle-Turbo-22		up to 15 kg		SH-Turbo-22
Shuttle-Turbo-25		up to 25 kg		SH-Turbo-25
Shuttle-Turbo-28		up to 35 kg		SH-Turbo-28
Shuttle-Turbo-30		up to 45 kg		SH-Turbo-30
Shuttle-Turbo-32		up to 55 kg		SH-Turbo-32
Shuttle-Turbo-34		up to 70 kg		SH-Turbo-34

									
Adjustable Alignment	Modular	Force Options	Range of Motion	Swing Phase	Quick Adjustment	Interchangeable Stops	No Grinding Necessary	Noise Dampening	Water Resistant

Shuttle-Uno-front



Features

+ **Anterior power unit** uses interchangeable spring forces (dorsiflexion resistance) **to support** calf musculature

+ **Tension bands** provide **dorsiflexion assist** during swing phase and dampen heel strike for a **smooth heel rocker**

Segment attaches to the Shuttle ankle joint stirrup



Fig. left

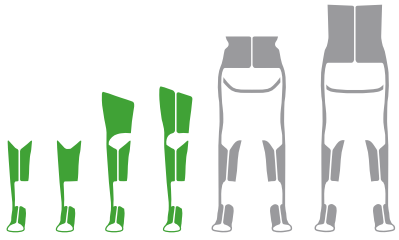
Standard

Available **separately or as combi-product** together with the Shuttle ankle joint

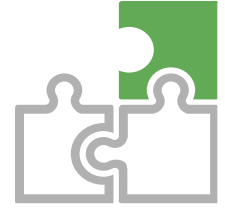
Precise assembly calibrated to 1/100mm for smooth operation free of play

Serial number for traceability

Clearly illustrated instructions for use

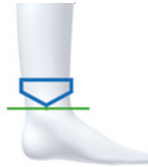


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product		AFO/KAFO		Article No.
Shuttle-Uno-front-22		up to 15 kg		SH-Uno-front-22
Shuttle-Uno-front-25		up to 25 kg		SH-Uno-front-25
Shuttle-Uno-front-28		up to 35 kg		SH-Uno-front-28
Shuttle-Uno-front-30		up to 45 kg		SH-Uno-front-30
Shuttle-Uno-front-32		up to 55 kg		SH-Uno-front-32
Shuttle-Uno-front-34		up to 70 kg		SH-Uno-front-34

					Quick Adjustment				Water Resistant
Adjustable Alignment	Modular	Force Options	Range of Motion	Swing Phase		Interchangeable Stops	No Grinding Necessary	Noise Dampening	

Shuttle-Uno-back



Features

Posterior power unit uses medium to strong forces (plantarflexion resistance) for **reducing** correctable equinus. Weaker forces are used to dampen heel strike for **a smooth heel rocker**

Tension bands provide **a smooth rollover** during stance phase

Segment attaches to the Shuttle ankle joint stirrup

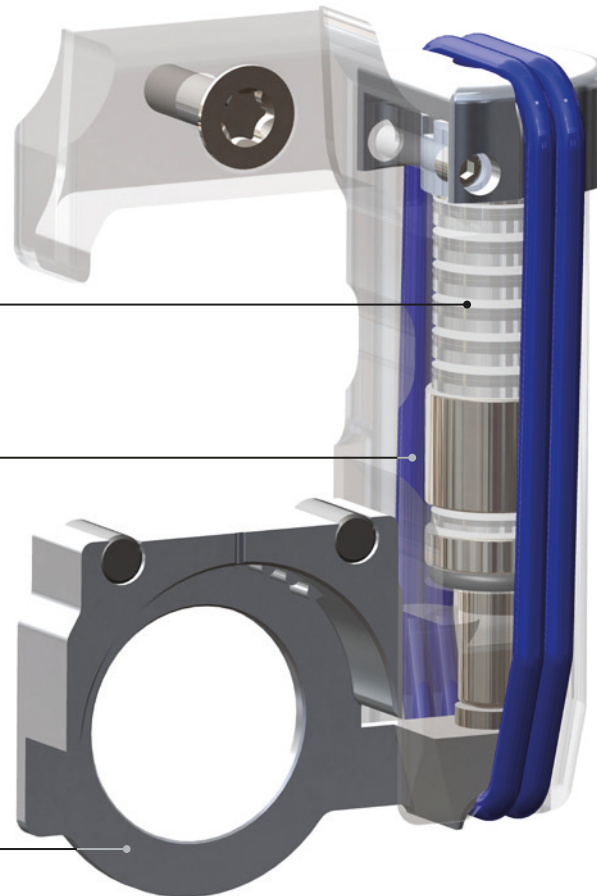


Fig. left

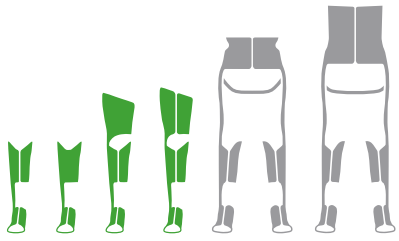
Standard

Available **separately or as combi-product** together with the Shuttle ankle joint

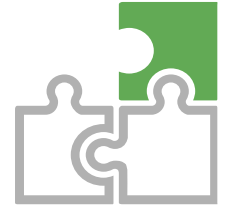
Precise assembly calibrated to 1/100mm for smooth operation free of play

Serial number for traceability

Clearly illustrated instructions for use



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product		AFO/KAFO		Article No.
Shuttle-Uno-back-22		up to 15 kg		SH-Uno-back-22
Shuttle-Uno-back-25		up to 25 kg		SH-Uno-back-25
Shuttle-Uno-back-28		up to 35 kg		SH-Uno-back-28
Shuttle-Uno-back-30		up to 45 kg		SH-Uno-back-30
Shuttle-Uno-back-32		up to 55 kg		SH-Uno-back-32
Shuttle-Uno-back-34		up to 70 kg		SH-Uno-back-34

					Quick Adjustment				Water Resistant
Adjustable Alignment	Modular	Force Options	Range of Motion	Swing Phase		Interchangeable Stops	No Grinding Necessary	Noise Dampening	

Shuttle-Dor



Features

- + Anteriorly attached tension band provides **dorsiflexion assist** during swing phase and active support and dampening at heel strike

Segment attaches to the Shuttle ankle joint stirrup

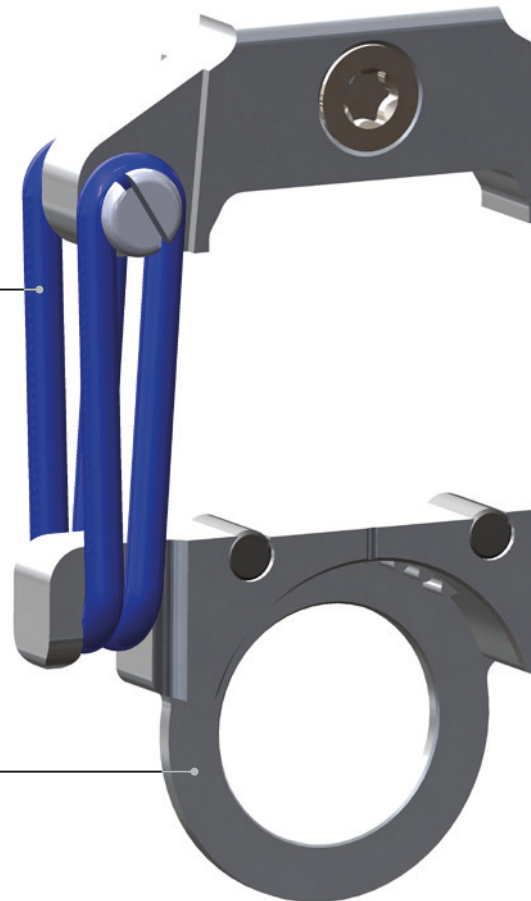


Fig. left

Standard

Available **separately or as combi-product** together with the Shuttle ankle joint

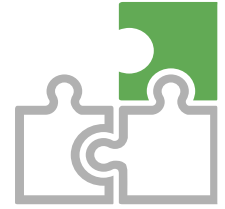
Precise assembly calibrated to 1/100mm for smooth operation free of play

Serial number for traceability

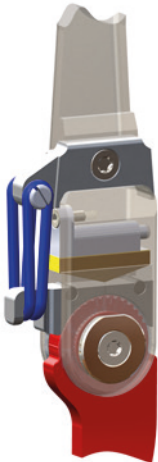
Clearly illustrated instructions for use

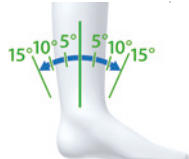
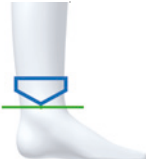


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product		AFO/KAFO	HKAFO/RGO		Article No.
Shuttle-Dor-22		up to 15 kg	up to 15 kg		SH-Dor-22
Shuttle-Dor-25		up to 25 kg	up to 25 kg		SH-Dor-25
Shuttle-Dor-28		up to 35 kg	up to 35 kg		SH-Dor-28
Shuttle-Dor-30		up to 45 kg	up to 45 kg		SH-Dor-30
Shuttle-Dor-32		up to 55 kg	up to 55 kg		SH-Dor-32
Shuttle-Dor-34		up to 70 kg	up to 70 kg		SH-Dor-34

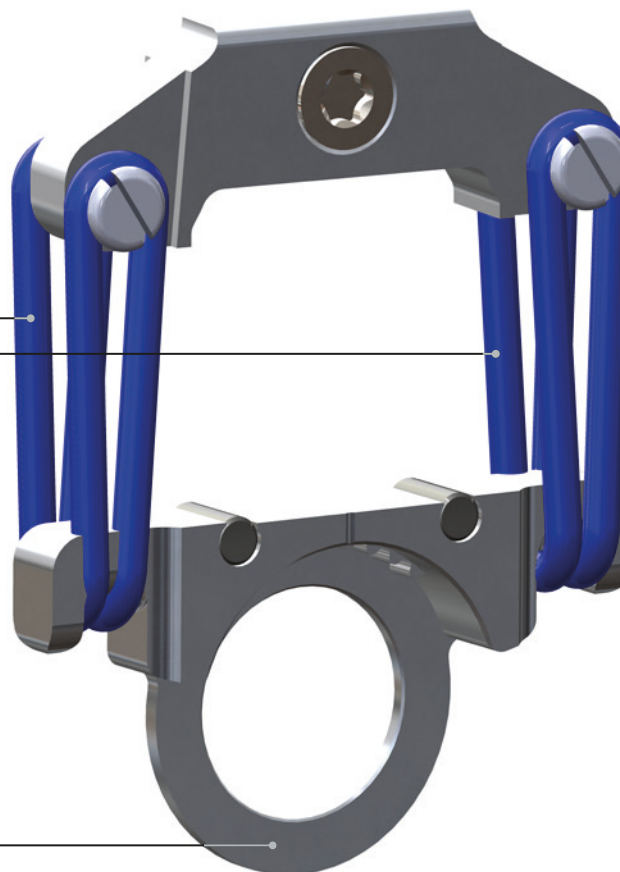
 Adjustable Alignment	 Modular	 Force Options	 Range of Motion	 Swing Phase	 Quick Adjustment	 Interchangeable Stops	 No Grinding Necessary	 Noise Dampening	 Water Resistant
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Shuttle-Flex



Features

- + Tension bands provide a **dampening** function at heel strike and smooth heel rocker. During standing, they provide a **centering**, stabilizing force



Segment attaches to the Shuttle ankle joint stirrup

Standard

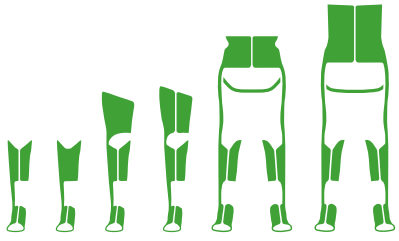
Available **separately or as combi-product** together with the Shuttle ankle joint

Precise assembly calibrated to 1/100mm for smooth operation free of play

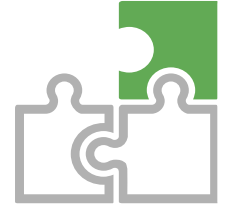
Serial number for traceability

Clearly illustrated instructions for use

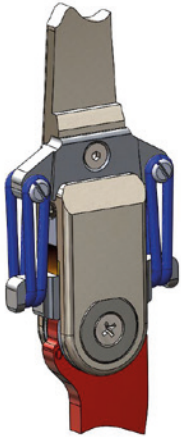
Fig. left

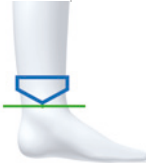


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product		AFO/KAFO	HKAFO/RGO		Article No.
Shuttle-Flex-22		up to 15 kg	up to 15 kg		SH-Flex-22
Shuttle-Flex-25		up to 25 kg	up to 25 kg		SH-Flex-25
Shuttle-Flex-28		up to 35 kg	up to 35 kg		SH-Flex-28
Shuttle-Flex-30		up to 45 kg	up to 45 kg		SH-Flex-30
Shuttle-Flex-32		up to 55 kg	up to 55 kg		SH-Flex-32
Shuttle-Flex-34		up to 70 kg	up to 70 kg		SH-Flex-34

									
Adjustable Alignment	Modular	Force Options	Range of Motion	Swing Phase	Quick Adjustment	Interchangeable Stops	No Grinding Necessary	Noise Dampening	Water Resistant

Ela-FI-Ex Ankle Joint



Features

Sizes available for **small to large** patients

Interchangeable movement stops. **No grinding necessary!**

+ Resists foot drop during **swing phase**

+ Active support during **midstance**

+ Active support of the **heel rocker**

Durable tension bands in **varying strengths**

Cartridge system for **quick and easy adjustment** of movement stops

Upper section fabricated from **high-strength aluminum**

Machined brass movement stops guarantee **exact angles** throughout the lifetime of the orthosis

Up to **12° dorsiflexion** and **12° plantarflexion**

Noise dampening, quiet operation promotes acceptance

Depending on the required force, one, two, or three tension bands can be fitted.

Lightweight, rigid aluminum stirrup

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Integrated upright bar ensures **optimal transfer of force**

Upper section **CNC-machined from one piece** of material for increased stability

Precise assembly calibrated to 1/100mm with self-lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

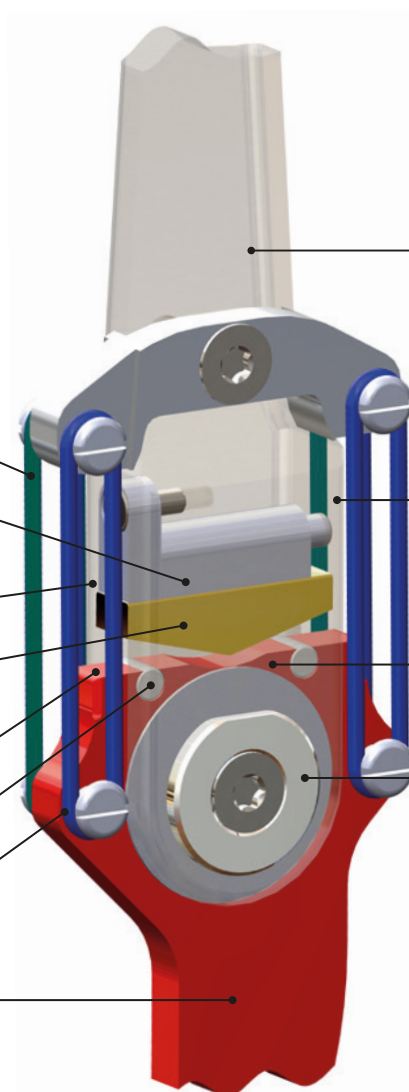
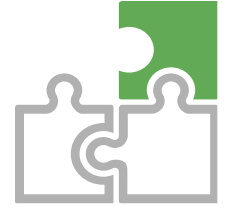
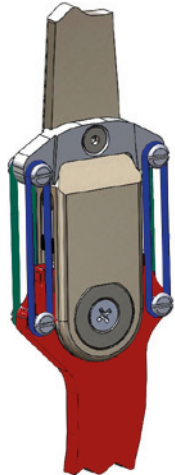


Fig. right



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



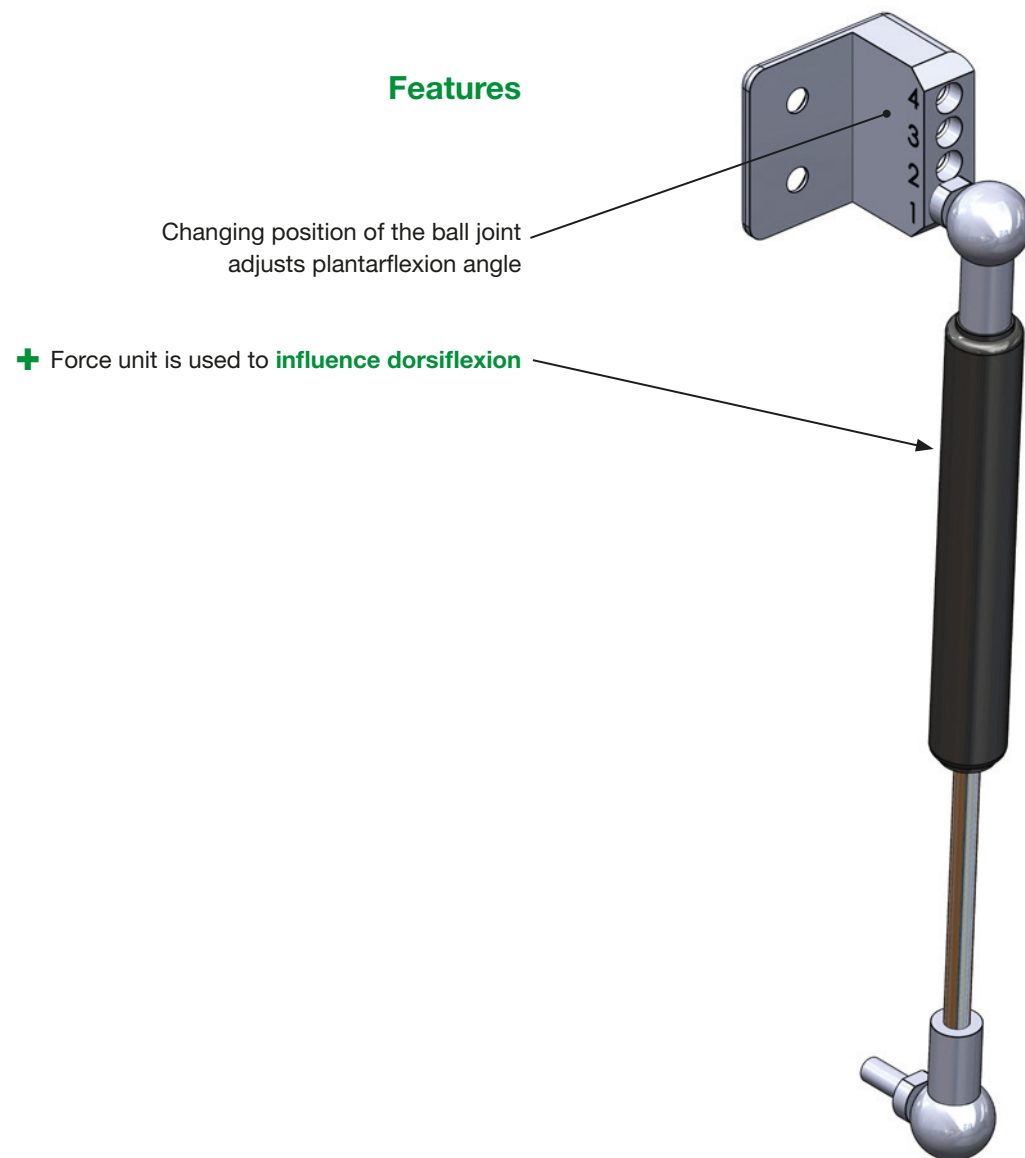
Weight Classification (body weight)				Joint	
Article No.	AFO/KAFO	HKAFO/RGO		Width	Thickness
Ela-FI-Ex-22	up to 15 kg	up to 15 kg		40 mm	14,0 mm
Ela-FI-Ex-25	up to 25 kg	up to 25 kg		44 mm	14,5 mm
Ela-FI-Ex-28	up to 35 kg	up to 35 kg		47 mm	14,5 mm
Ela-FI-Ex-32	up to 50 kg	up to 50 kg		55 mm	19,0 mm
Ela-FI-Ex-34	up to 70 kg	up to 70 kg		58 mm	19,0 mm
Ela-FI-Ex-38	up to 85 kg	up to 85 kg		68 mm	22,0 mm

Adjustable Alignment	Modular	Force Options	Range of Motion	Swing Phase	Quick Adjustment	Interchangeable Stops	No Grinding Necessary	Noise Dampening	Water Resistant
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Ela-FI-Ex-Post



Features



Standard

Fully assembled complete with everything needed
for a functional add-on to the Ela-FI-Ex ankle joint

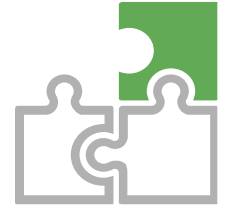
Serial number for traceability

Clearly illustrated instructions for use

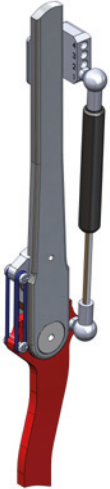
Fig. left



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product		AFO		Article No.
Ela-FI-Ex-Post-22		up to 15 kg		Post-22
Ela-FI-Ex-Post-25		up to 25 kg		Post-25
Ela-FI-Ex-Post-28		up to 35 kg		Post-28

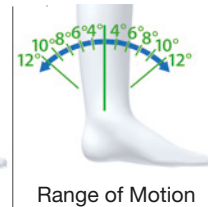
Adjustable
Alignment



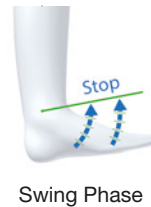
Modular



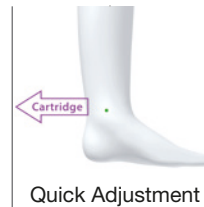
Force Options



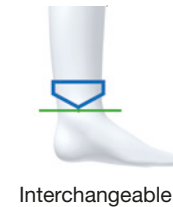
Range of Motion



Swing Phase



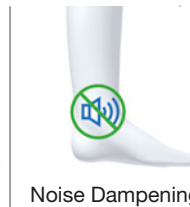
Quick Adjustment



Interchangeable
Stops



No Grinding
Necessary



Noise Dampening

Water Resistant

Functional Overview Free Motion Posterior Offset Knee Joints

All knee joints are shipped fully assembled. The titanium joints are free of play, self-lubricating, dirt-resistant and available in 5-7 sizes per model. All models feature an extension stop damper. Modular extension assist options can be added or changed at any time.



Orthosis	Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Noise Dampening	Water Resistant	
										Liber Pages 88-89
										Liber-IN Pages 94-95
										Indi Pages 100-101

► Information on “HKAFO instead of KAFO” can be found on pages 74 -75.

Functional Overview Free Motion Posterior Offset Knee Joints with Extension Assist

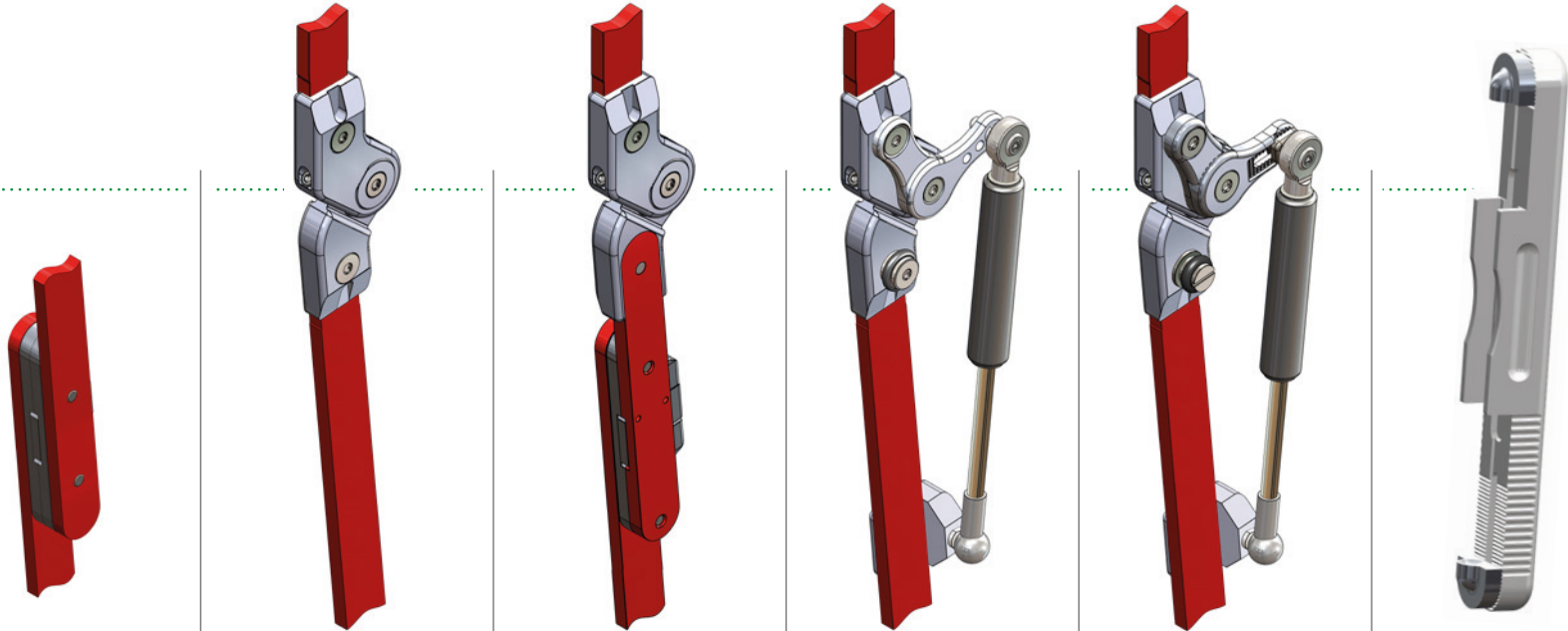
Modular, expandable knee joints available as a combi-product with accessories. The modular options, such as Extensor and Strecker, can be added or exchanged at anytime and enhance the function of the knee joint. All cylinders are available in wide range of forces.



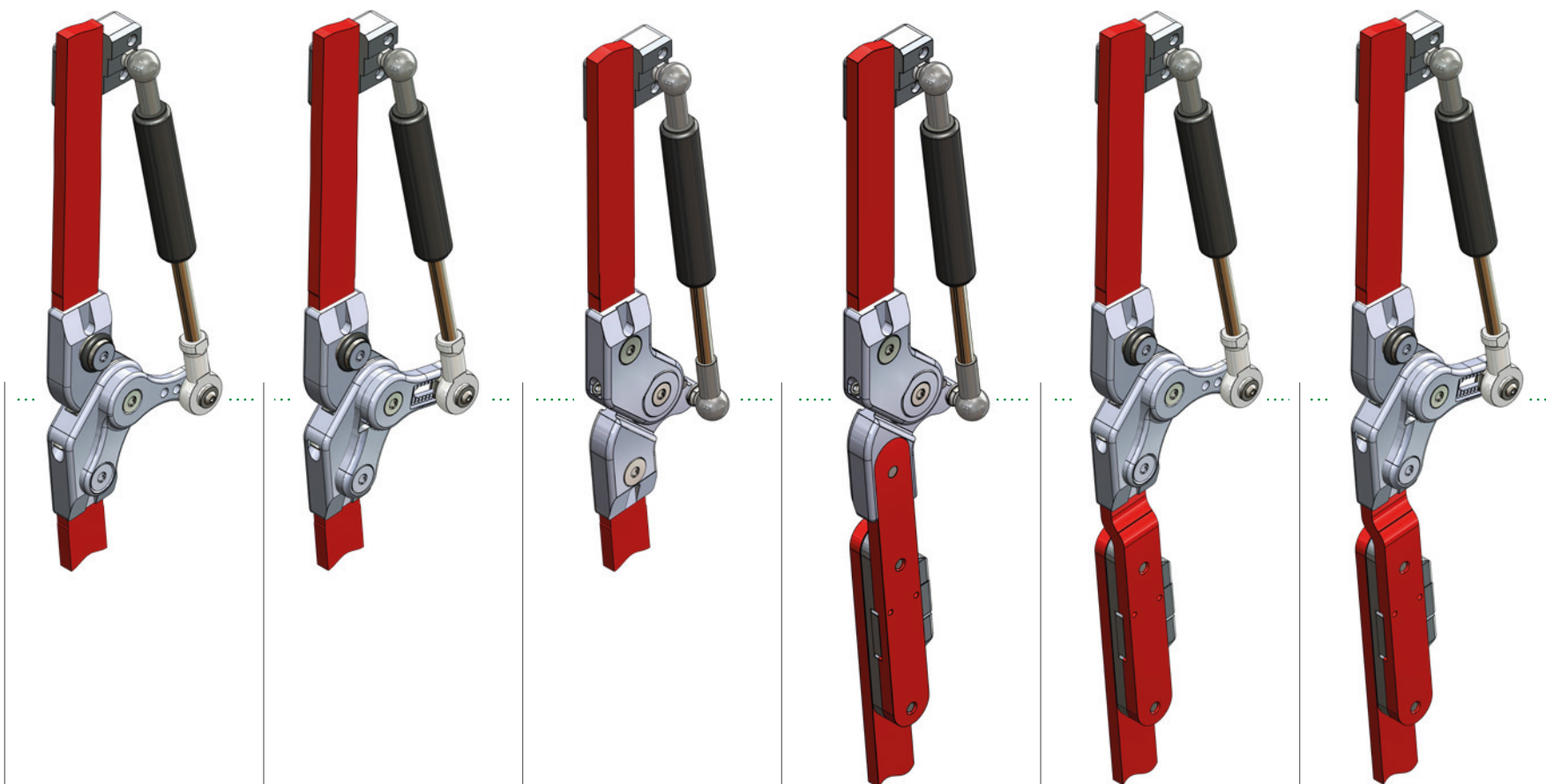
Orthosis	Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Noise Dampening	Water Resistant	
										Liber-with Extensor-S Pages 90-91
										Liber-with Extensor-N Pages 92-93
										Liber-IN with Extensor-IN-S Pages 96-97
										Liber-IN with Extensor-IN-N Pages 98 - 99
										Indi with Strecker Pages 102-103

Free Motion Knee Joints with Extension Assists and Separators

The modular accessories Extensor and Strecker can be added at any time to provide a functional expansion of the knee joint. Equipping the orthosis with a Separator enables detachment of the AFO section. The **Donning Aid Rudi** allows the cylinder to be held in any position between 90° and 150° (30°). When using the Extensor-S or Strecker models, the cylinder can be removed together with the donning aid.



Knee Joint Type		Liber	Liber	Liber-	Liber-	
Application		HKAFO / KAFO	HKAFO / KAFO	HKAFO / KAFO	HKAFO / KAFO	
Modular Add-on				with Extensor-S	with Extensor-N	
Force Adjustment				3 Positions	7 Positions	
Max. Flexion Angle		140°	140°	115°	95 to 125°	
Assitive Force				up to max. force	normal force	
Cylinder Detachable				possible		
Thickness						
Build Height						
Donning Aid				yes	yes	Rudi Donning Aid
Addition	Separator-E		Separator-S			
Change from	RGO/HKAFO/KAFO to AFO		HKAFO/KAFO to AFO			
Growth Adjustment			via the Separator in lower leg			
	Pages 140-141	Pages 88-89	Pages 88-89, 142-143	Pages 90-91	Pages 92-93	Pages 146 - 147



Knee Joint Type	Liber-IN-	Liber-IN-	Indi-	Indi-	Liber-IN-	Liber-IN-
Application	HKAFO / KAFO	HKAFO / KAFO	HKAFO / KAFO	HKAFO / KAFO	HKAFO / KAFO	HKAFO / KAFO
Modular Add-on	with Extensor-S-IN	with Extensor-N-IN	with Strecker	with Strecker	with Extensor-S-IN	with Extensor-N-IN
Force Adjustment	3 Positions	7 Positions	1 Position	1 Position	3 Positions	7 Positions
Max. Flexion Angle	115°	95° to 125°	115°	115°	115°	95° to 125°
Assitive Force	up to max. force	normal force	up to max. force	up to max. force	up to max. force	normal force
Cylinder Detachable	possible		possible	possible	possible	
Thickness			slimmer	slimmer		
Build Height			reduced	reduced		
Donning Aid	yes	yes	yes	yes	yes	yes
Addition				Separator-S	Separator-X	Separator-X
Change from				HKAFO/KAFO to AFO	HKAFO/KAFO to AFO	HKAFO/KAFO to AFO
Growth Adjustment				via the Separator in lower leg	via the Separator in lower leg	via the Separator in lower leg
	Pages 96 -97	Pages 98-99	Pages102 - 103	Pages 102 -103, 142 -143	Pages 96 -97, 144 -145	Pages 98 -99, 144 -145

Liber Knee and Hip Joint



Features

Waterproof for all situations

Sizes available for the **smallest to largest** patients

Available with **long or short uprights**

Additional functions with the
Extensor-N or **Extensor-S** add-ons

+ Maximum **extension 5°** and **flexion 140°**

+ **Posterior offset** proportionally adjusted to joint size

+ **Noise dampener** with self-locking
setscrew for higher patient acceptance

Fabricated from **high-strength titanium**

Standard

Fully assembled for clear cost estimates
and uncomplicated ordering

Machined uprights and offset connection ensure
optimal transfer of force

Upper section **CNC-machined from one piece**
of material for increased stability

Precise assembly calibrated to 1/100mm with self-
lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly
with bronze bushing

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

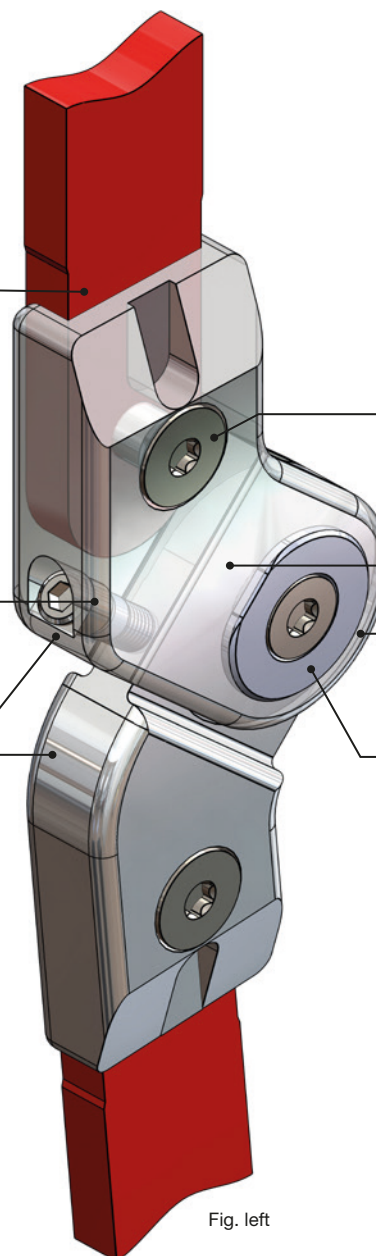
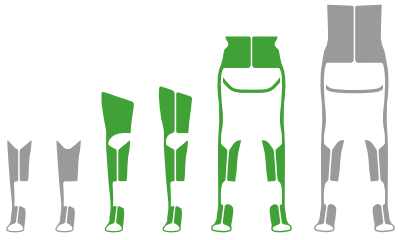
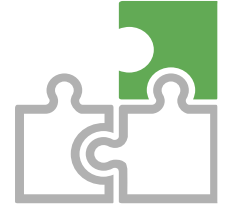


Fig. left

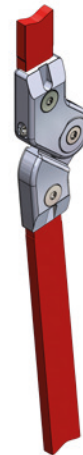


We recommend using our configurator to make your selection (KAFO/HKAFO).
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No.	KAFO	HKAFO	HKAFO Hip
Liber-22	up to 15 kg	up to 15 kg	up to 15 kg
Liber-25-Plus	up to 30 kg	up to 25 kg	up to 25 kg
Liber-28	up to 40 kg	up to 35 kg	up to 35 kg
Liber-30	up to 50 kg	up to 45 kg	up to 45 kg
Liber-30-Plus	up to 70 kg	up to 60 kg	up to 60 kg
Liber-34	up to 110 kg	up to 85 kg	up to 85 kg
Liber-34-Plus	up to 140 kg	up to 110 kg	up to 110 kg



Joint

Length	Width	Thickness	Weight	Posterior Offset
73 mm	22 mm	12 mm	38 g	12,5 mm
93 mm	25 mm	12 mm	76 g	15,5 mm
103 mm	28 mm	14 mm	111 g	16,5 mm
112 mm	30 mm	16 mm	143 g	17,5 mm
112 mm	30 mm	16 mm	143 g	17,5 mm
123 mm	34 mm	19 mm	210 g	22,0 mm
123 mm	34 mm	24 mm	270g	22,0 mm

Locked	Extension 5°	Flexion 130°	Posterior Offset	Modular	Force Options	No Grinding Necessary	Noise Dampening	Water Resistant H ₂ O
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Liber-Extensor-S



Features

+ **Force unit** assists knee extension and helps when sitting down and standing up

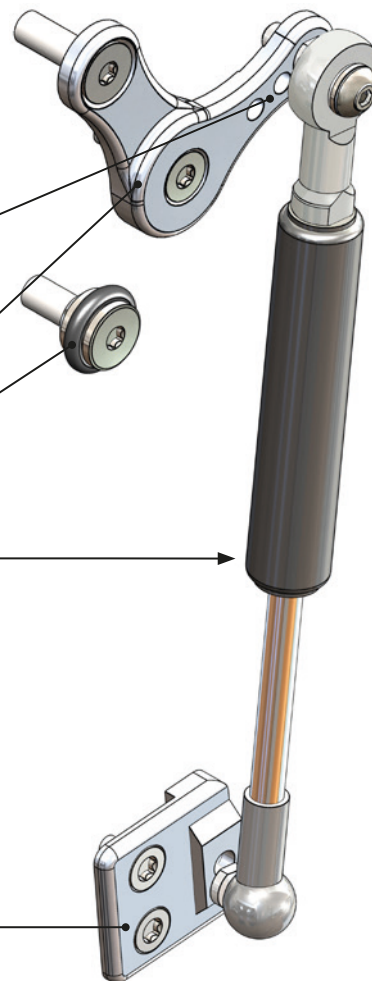
+ **3 positions** to shift lever arm and increase or decrease torque

+ **Flexion up to 115°** for comfortable sitting

Cushioned flexion stop

Wide range of **force options** available

2 different styles of base plate for versatility: retrofit or incorporated



Standard

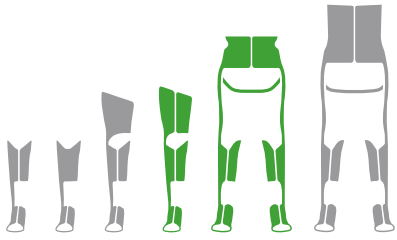
Fully assembled complete with everything needed for a functional add-on to the Liber knee joint

Available separately or as **combi-product** together with the Liber knee joint

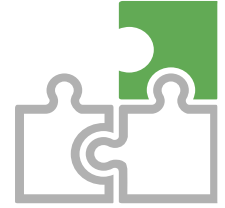
Serial number for traceability

Clearly illustrated instructions for use

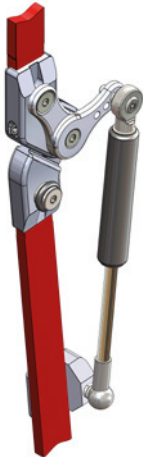
Fig. left

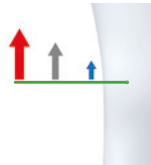


We recommend using our configurator to make your selection (KAFO/HKAFO).
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product		KAFO	HKAFO		Article No.
Liber-Extensor-S-22		up to 15 kg	up to 15 kg		Extensor-S-22
Liber-Extensor-S-25-Plus		up to 30 kg	up to 25 kg		Extensor-S-25-Plus
Liber-Extensor-S-28		up to 40 kg	up to 35 kg		Extensor-S-28
Liber-Extensor-S-30		up to 50 kg	up to 45 kg		Extensor-S-30
Liber-Extensor-S-30-Plus		up to 70 kg	up to 60 kg		Extensor-S-30-Plus
Liber-Extensor-S-34		up to 85 kg	up to 85 kg		Extensor-S-34

								
Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Noise Dampening	Water Resistant

Liber-Extensor-N



Feature

+ **Force unit** assists knee extension and helps when sitting down and standing up

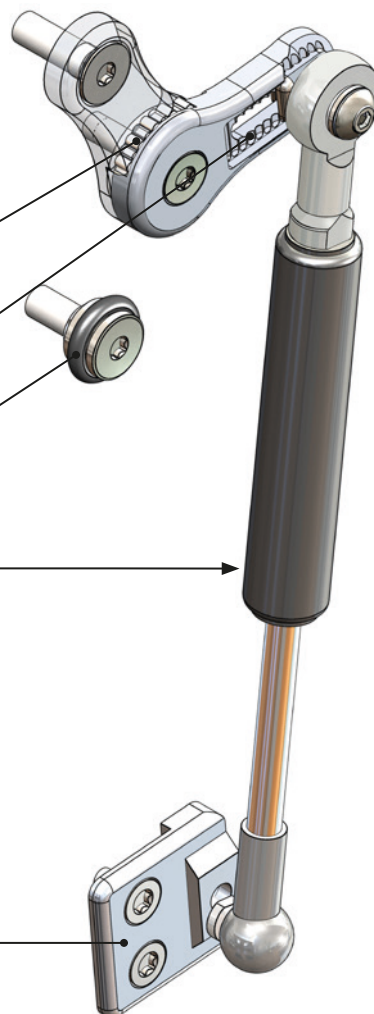
+ **2-piece adjustable body** to vary flexion stop between **95°** and **125°**

+ **7 positions** to shift lever arm and increase or decrease torque

Cushioned flexion stop

Wide range of **force options** available

2 different styles of base plate for versatility: retrofit or incorporated



Standard

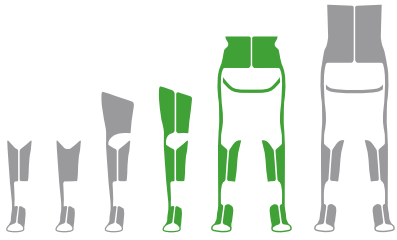
Fully assembled complete with everything needed for a functional add-on to the Liber knee joint

Available separately or as **combi-product** together with the Liber knee joint

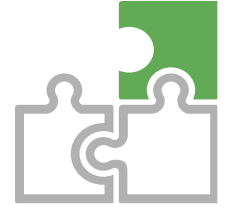
Serial number for traceability

Clearly illustrated instructions for use

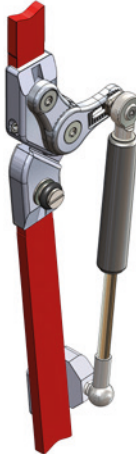
Fig. left

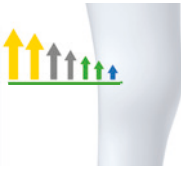


We recommend using our configurator to make your selection (KAFO/HKAFO).
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product		KAFO	HKAFO		Article No.
Liber-Extensor-N-22		up to 15 kg	up to 15 kg		Extensor-N-22
Liber-Extensor-N-25-Plus		up to 30 kg	up to 25 kg		Extensor-N-25-Plus
Liber-Extensor-N-28		up to 40 kg	up to 35 kg		Extensor-N-28
Liber-Extensor-N-30		up to 50 kg	up to 45 kg		Extensor-N-30
Liber-Extensor-N-30-Plus		up to 70 kg	up to 60 kg		Extensor-IN-30-Plus
Liber-Extensor-N-34		up to 85 kg	up to 85 kg		Extensor-N-34

								
Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Noise Dampening	Water Resistant

Liber-IN Knee and Elbow Joint

Features

Waterproof for all situations

Sizes available for the **smallest to largest** patients

Available with **long or short uprights**

Additional functions with the
Extensor-N or **Extensor-S** add-ons

+ Maximum **extension 5°** and **flexion 140°**

+ **Posterior offset** proportionally adjusted to joint size

+ **Noise dampener** with self-locking
setscrew for higher patient acceptance

Fabricated from **high-strength titanium**

Standard

Fully assembled for clear cost estimates
and uncomplicated ordering

Machined uprights and offset connection ensure
optimal transfer of force

Upper section **CNC-machined from one piece**
of material for increased stability

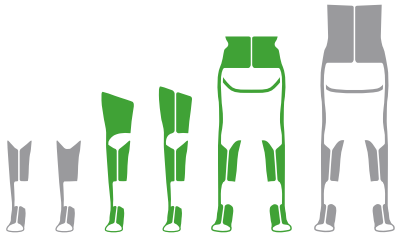
Precise assembly calibrated to 1/100mm with self-
lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly
with bronze bushing

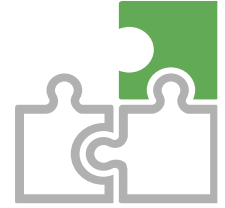
Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use



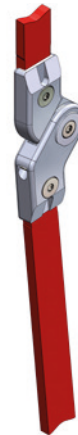
We recommend using our configurator to make your selection (KAFO/HKAFO).
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No.	KAFO	HKAFO	EO*
Liber-IN-22	up to 15 kg	up to 15 kg	up to 30 kg
Liber-IN-25-Plus	up to 30 kg	up to 25 kg	up to 90 kg
Liber-IN-28	up to 40 kg	up to 35 kg	–
Liber-IN-30	up to 50 kg	up to 45 kg	–
Liber-IN-30-Plus	up to 70 kg	up to 60 kg	–
Liber-IN-34	up to 110 kg	up to 85 kg	–

* EO = Elbow Orthosis



Joint

Length	Width	Thickness	Weight	Posterior Offset
73 mm	22 mm	12 mm	38 g	12,5 mm
93 mm	25 mm	12 mm	76 g	15,5 mm
103 mm	28 mm	14 mm	111 g	16,5 mm
112 mm	30 mm	16 mm	143 g	17,5 mm
112 mm	30 mm	16 mm	143 g	17,5 mm
123 mm	34 mm	19 mm	210 g	22,0 mm

Locked	Extension 5°	Flexion 130°	Posterior Offset	Modular	Force Options	No Grinding Necessary	Noise Dampening	Water Resistant H ₂ O
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Liber-IN-Extensor-IN-S



Feature

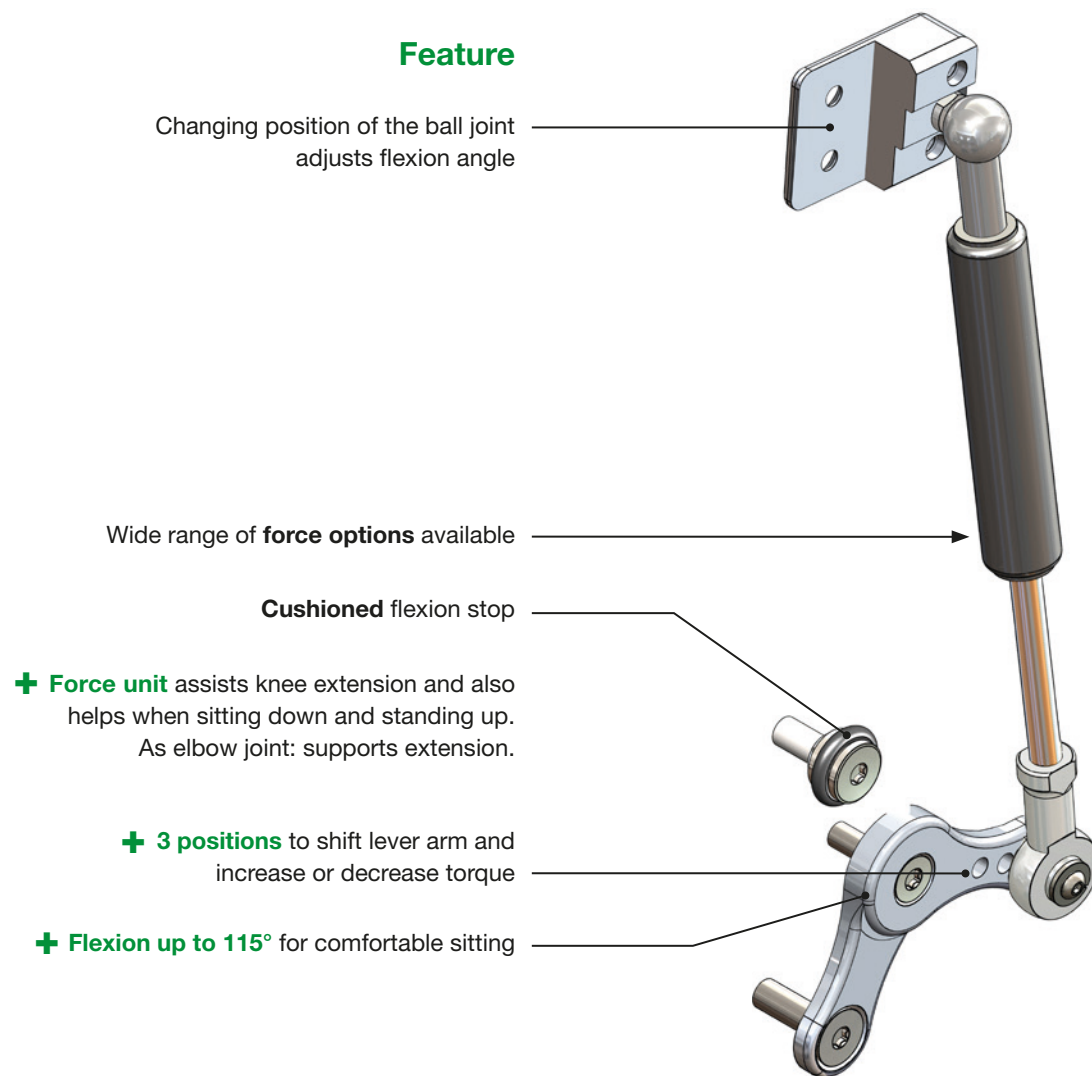


Fig. left

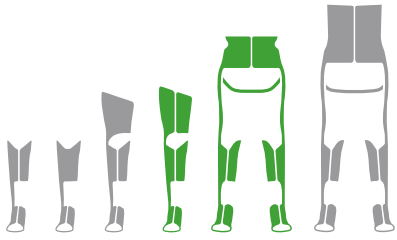
Standard

Fully assembled complete with everything needed for a functional add-on to the Liber knee joint

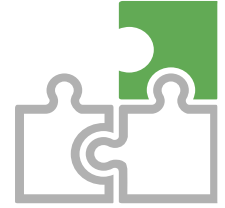
Available separately or as **combi-product** together with the Liber knee joint

Serial number for traceability

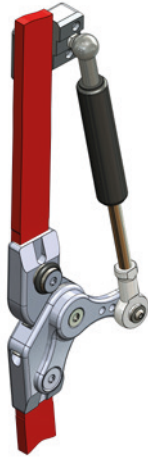
Clearly illustrated instructions for use



We recommend using our configurator to make your selection (KAFO/HKAFO).
The configurator considers, among other factors, weight to height ratios.

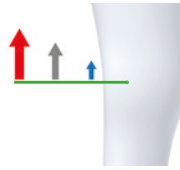


Weight Classification (body weight)

Article No. Combi-product		KAFO	HKAFO	EO*		Article No.
Liber-IN-Extensor-IN-S-22		up to 15 kg	up to 15 kg	up to 30 kg		Extensor-IN-S-22
Liber-IN-Extensor-IN-S-25-Plus		up to 30 kg	up to 25 kg	up to 60 kg		Extensor-IN-S-25-Plus
Liber-IN-Extensor-IN-S-28		up to 40 kg	up to 35 kg	up to 110 kg		Extensor-IN-S-28
Liber-IN-Extensor-IN-S-30		up to 50 kg	up to 45 kg	-		Extensor-IN-S-30
Liber-IN-Extensor-IN-S-30-Plus		up to 70 kg	up to 60 kg	-		Extensor-IN-S-30-Plus
Liber-IN-Extensor-IN-S-34		up to 85 kg	up to 85 kg	-		Extensor-IN-S-34

* EO = Elbow Orthosis

IN = Inverse. An inverted configuration allows for combination with the Separator-X. See pages 144-145 for details.

								
Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Noise Dampening	Water Resistant

Liber-IN-Extensor-IN-N



Feature

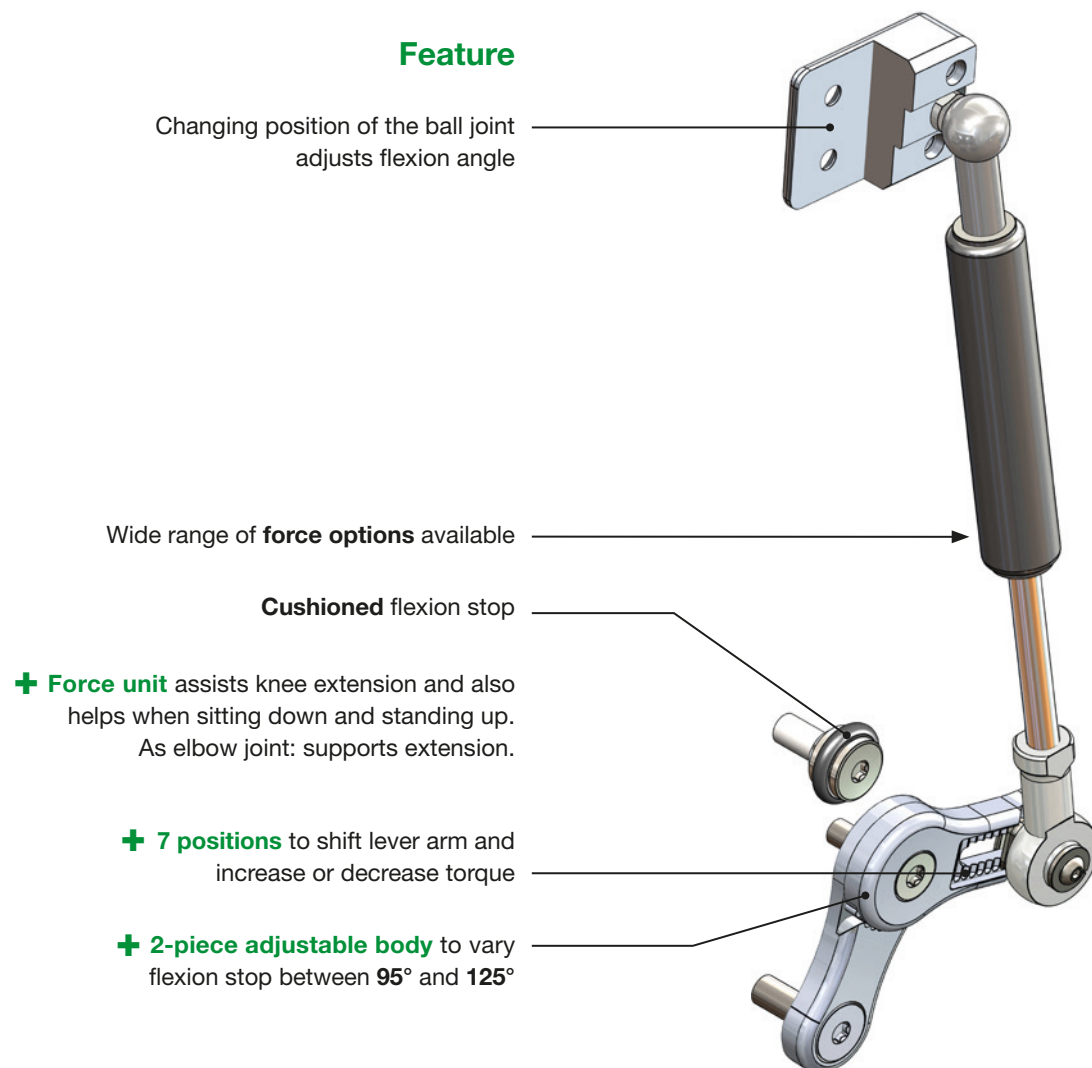


Fig. left

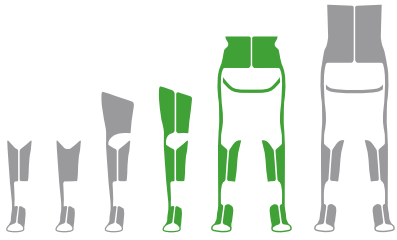
Standard

Fully assembled complete with everything needed for a functional add-on to the Liber knee joint

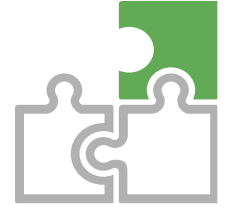
Available separately or as **combi-product** together with the Liber knee joint

Serial number for traceability

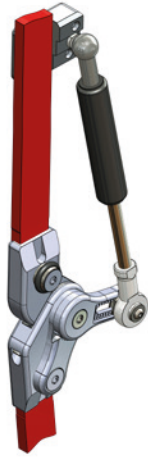
Clearly illustrated instructions for use



We recommend using our configurator to make your selection (KAFO/HKAFO).
The configurator considers, among other factors, weight to height ratios.

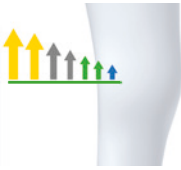


Weight Classification (body weight)

Article No. Combi-product		KAFO	HKAFO	EO*		Article No.
Liber-IN-Extensor-IN-N-22		up to 15 kg	up to 15 kg	up to 30 kg		Extensor-IN-N-22
Liber-IN-Extensor-IN-N-25-Plus		up to 30 kg	up to 25 kg	up to 60 kg		Extensor-IN-N-25-Plus
Liber-IN-Extensor-IN-N-28		up to 40 kg	up to 35 kg	up to 110 kg-		Extensor-IN-N-28
Liber-IN-Extensor-IN-N-30		up to 50 kg	up to 45 kg	-		Extensor-IN-N-30
Liber-IN-Extensor-IN-N-30-Plus		up to 70 kg	up to 60 kg	-		Extensor-IN-N-30-Plus
Liber-IN-Extensor-IN-N-34		up to 85 kg	up to 85 kg			Extensor-IN-N-34

* EO = Elbow Orthosis

IN = Inverse. An inverted configuration allows for combination with the Separator-X. See pages 144-145 for details.

								
Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Noise Dampening	Water Resistant

Indi Knee Joint



Features

Waterproof for all situations

Sizes available for the **smallest to largest** patients

Available with **long or short uprights**

+ Maximum **extension 5°** and **flexion 115°**

+ **Posterior offset** proportionally adjusted to joint size

+ **Noise dampener** with self-locking setscrew for higher patient acceptance

Additional functions with the **Strecker add-on**

Fabricated from **high-strength titanium**

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Machined uprights and offset connection ensure **optimal transfer of force**

Upper section **CNC-machined from one piece** of material for increased stability

Precise assembly calibrated to 1/100mm with self-lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

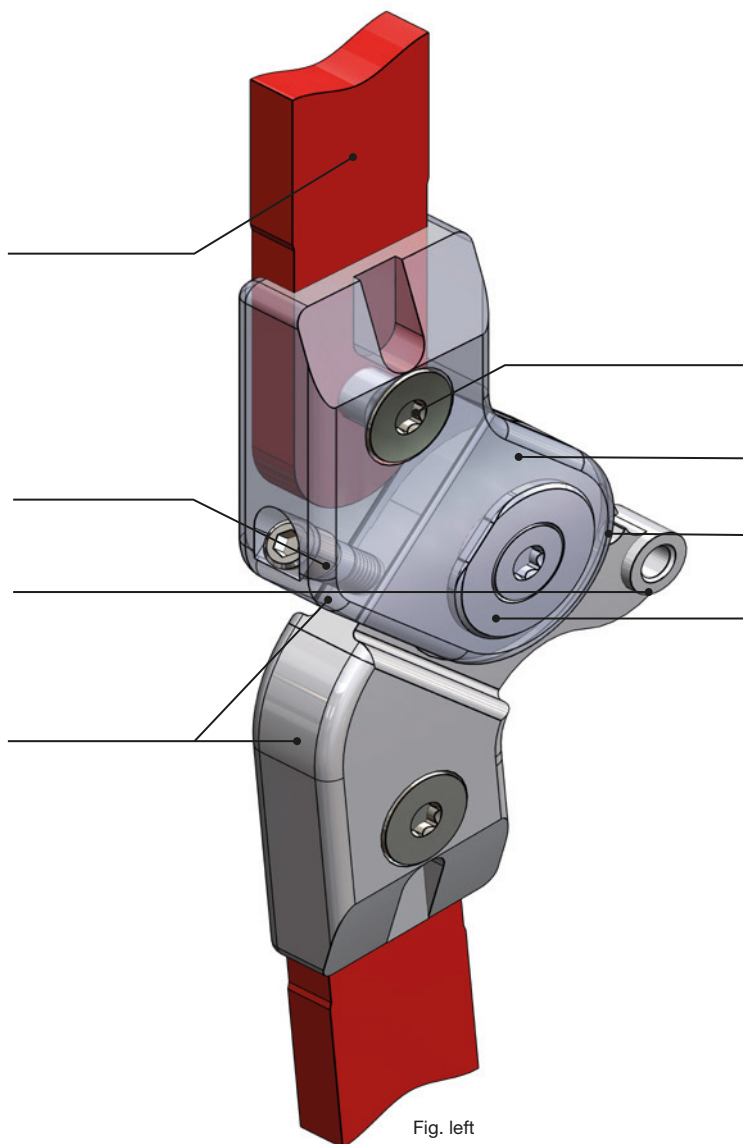
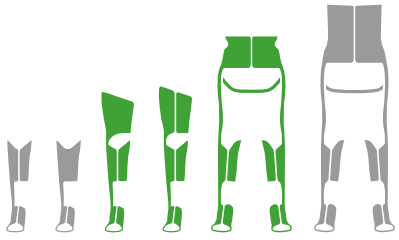
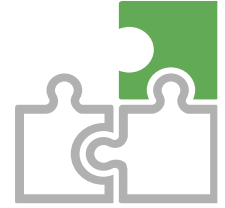
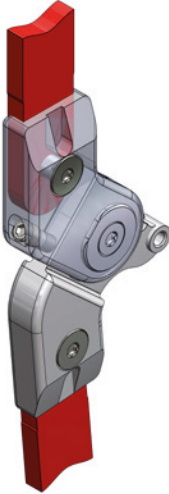


Fig. left



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)			Joint					
Article No.	KAFO	HKAFO		Length	Width	Thickness	Weight	Posterior Offset
Indi-25-Plus	up to 30 kg	up to 25 kg		93 mm	25 mm	12 mm	83 g	15,5 mm
Indi-28	up to 40 kg	up to 35 kg		103 mm	28 mm	14 mm	119 g	16,5 mm
Indi-30	up to 50 kg	up to 45 kg		112 mm	30 mm	16 mm	152 g	17,5 mm
Indi-30-Plus	up to 70 kg	up to 60 kg		112 mm	30 mm	16 mm	152 g	17,5 mm
Indi-34	up to 85 kg	up to 85 kg		123 mm	34 mm	19 mm	230 g	22,0 mm

								
Locked	Extension 5°	Flexion 115°	Posterior Offset	Modular	Force Options	No Grinding Necessary	Noise Dampening	Water Resistant

Indi-Strecker



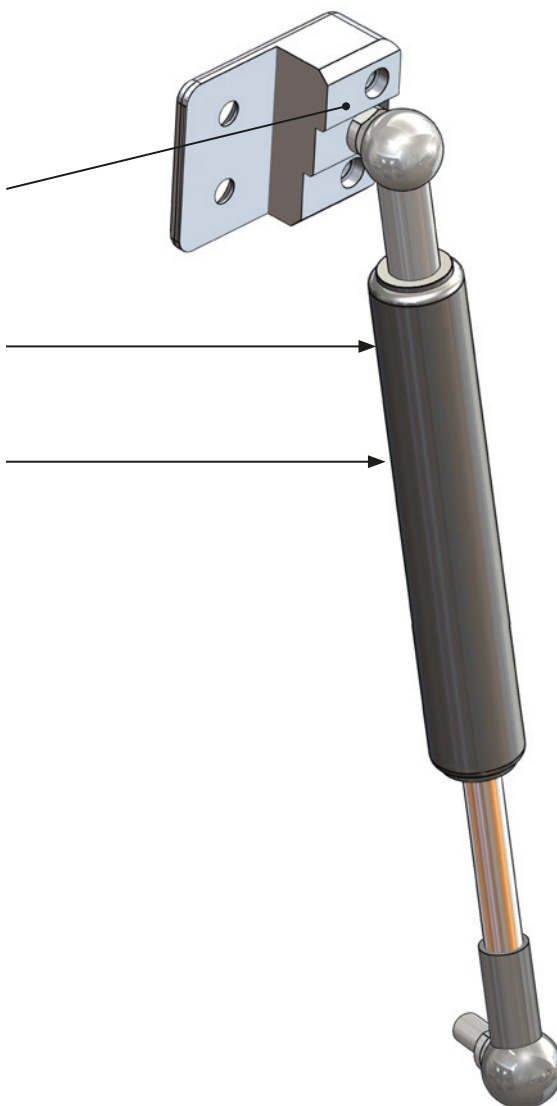
Features

Sizes available for the **smallest to large** patients

Changing position of the **ball joint** adjusts flexion angle

+ **Force unit** assists knee extension and helps when sitting down and standing up

Wide range of **force options** available



Standard

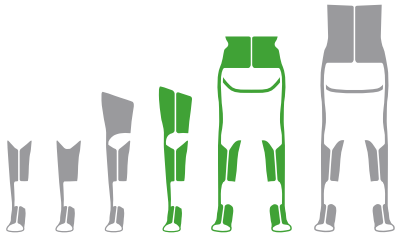
Fully assembled complete with everything needed for a functional add-on to the Indi knee joint

Accessory available as **combi-product** with the Indi knee joint

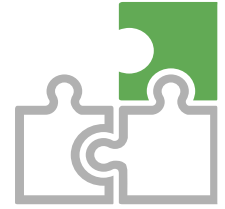
Serial number for traceability

Clearly illustrated instructions for use

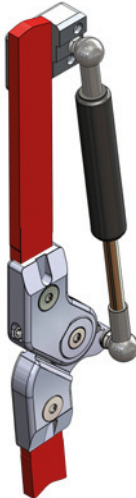
Fig. left

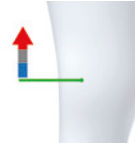


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product		KAFO	HKAFO		Article No.
Indi-Strecker-25-Plus		up to 30 kg	up to 25 kg		Strecker-25-Plus
Indi-Strecker-28		up to 40 kg	up to 35 kg		Strecker-28
Indi-Strecker-30		up to 50 kg	up to 45 kg		Strecker-30
Indi-Strecker-30-Plus		up to 70 kg	up to 60 kg		Strecker-30-Plus
Indi-Strecker-34		up to 85 kg	up to 85 kg		Strecker-34

								
Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Noise Dampening	Water Resistant

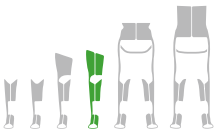
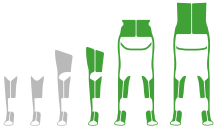
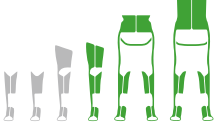
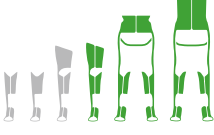
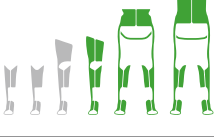
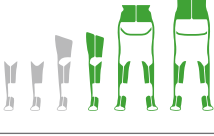
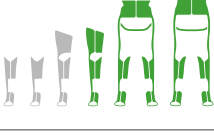
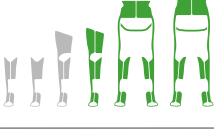
Functional Overview Locked Knee Joints

All knee joints are shipped fully assembled. The joints are free of play, self-lubricating, dirt-resistant and available in at least 6 sizes per model.

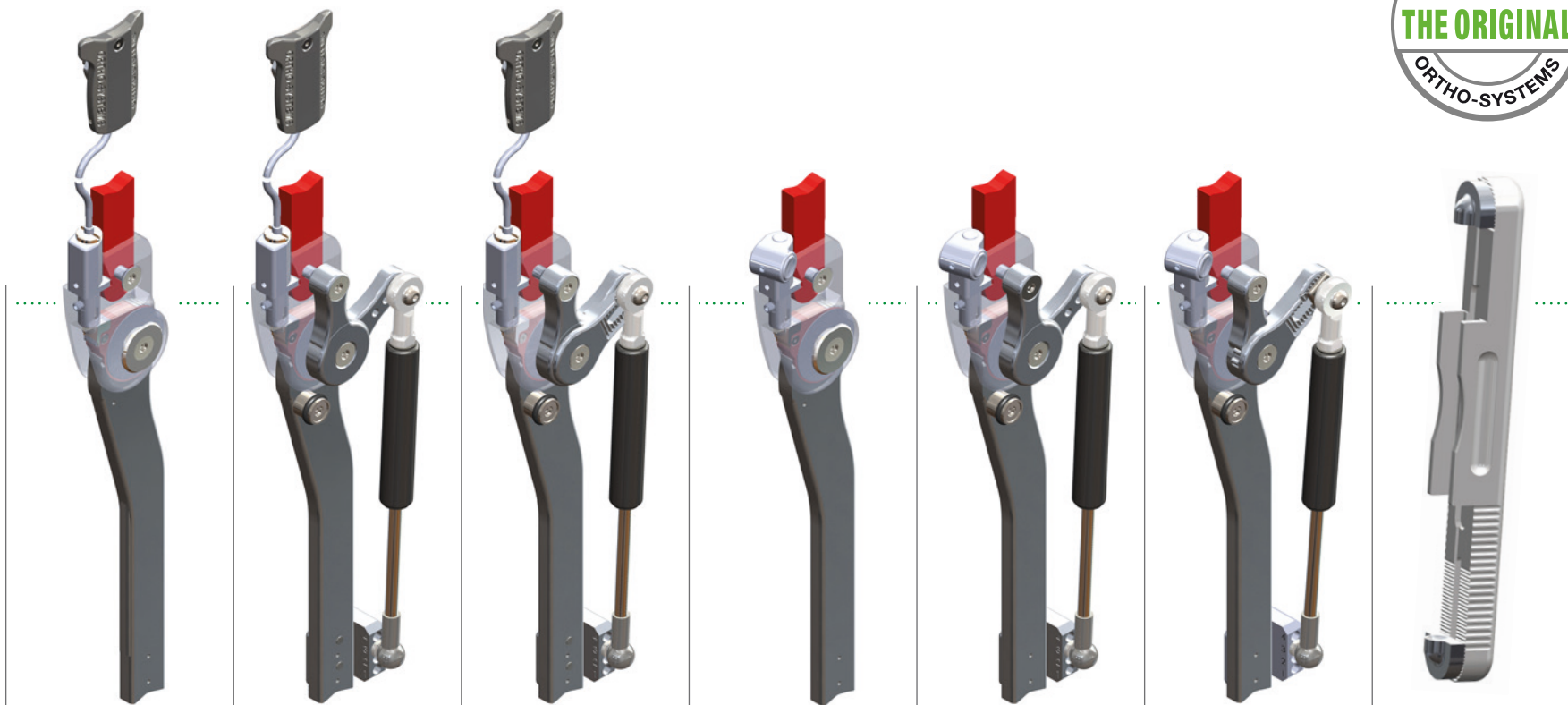
Modular extension assist options can be added or changed at any time. These accessories enhance the function of the knee joint.



Orthosis	Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Locking Mechanism	Water Resistant	
										Varo-KA-0 Pages 108-109
										Varo-PS-0 Pages 114-115
										Konso-5 Pages 120-121
										Konso-0 Pages 126-127
										Klassik-Konso Pages 132-133
										Blocker Pages 134-135
										Klassik-Konso with Slide Pages 136-137

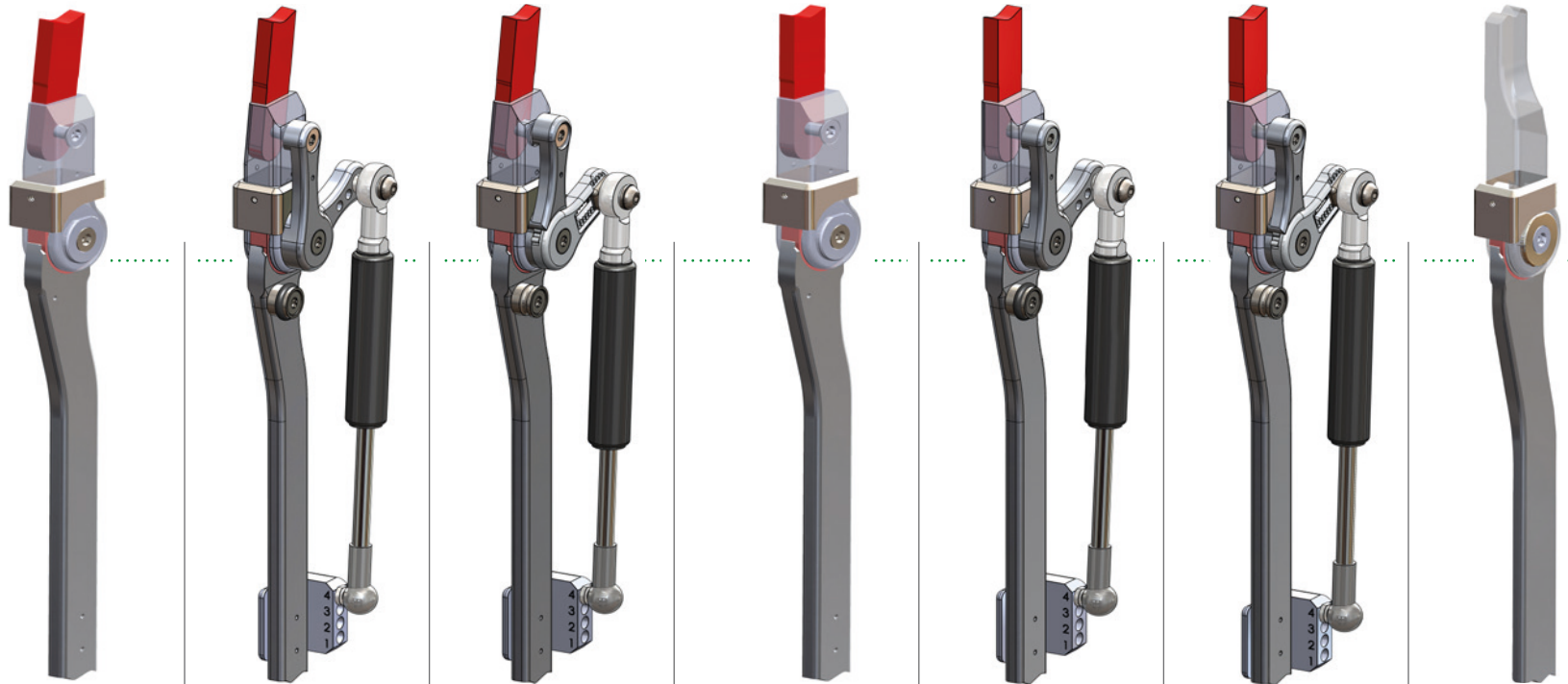
Orthosis	Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Locking Mechanism	Water Resistant		
											Varo-KA-0 with Dynamic-0-S Pages 110 - 111
											Varo-KA-0 with Dynamic-0-N Pages 112 - 113
											Varo-PS-0 with Dynamic-0-S Pages 116 - 117
											Varo-PS-0 with Dynamic-0-N Pages 118 - 119
											Konso-5- with Move-5-S Pages 122 - 123
											Konso-5- with Move-5-N Pages 124 - 125
											Konso-0- with Move-0-S Pages 128 - 129
											Konso-0- with Move-0-N Pages 130 - 131

Locked Knee Joints with Extension Assist



Knee Joint Type	Varo-KA-0	Varo-KA-0	Varo-KA-0	Varo-PS-0	Varo-PS-0	Varo-PS-0	
Application	KAFO/HKAFO/RGO	KAFO/HKAFO/RGO	KAFO/HKAFO/RGO	KAFO/HKAFO/RGO	KAFO/HKAFO/RGO	KAFO/HKAFO/RGO	
Modular Add-on		Dynamic-0-S	Dynamic-0-N		Dynamic-0-S	Dynamic-0-N	
Force Adjustment		3 Positions	7 Positions		3 Positions	7 Positions	
Max. Flexion Angle	130°	115°	95 to 125°	130°	115°	95 to 125°	
Assitive Force		up to max. force	normal force		up to max. force	normal force	
Cylinder Detachable		possible			possible		
Locking Mechanism	Cable Release	Cable Release	Cable Release	Pre-select	Pre-select	Pre-select	
Unlock	Satellite	Satellite	Satellite	Push button	Push button	Push button	
Lock	Satellite	Satellite	Satellite	Push button	Push button	Push button	
Unlocked (maintained)	Satellite (unlocked)	Satellite (unlocked)	Satellite (unlocked)	Push button (unlocked)	Push button (unlocked)	Push button (unlocked)	
Donning Aid		yes	yes		yes	yes	Donning Aid Rudi
	Pages 108-109	Pages 110-111	Pages 112-113	Pages 114-115	Pages 116-117	Pages 118-119	Pages 146-147

► See pages 82–83
for extension assist
applications



Knee Joint Type	Konso-5	Konso-5	Konso-5	Konso-0	Konso-0	Konso-0	Klassik-Konso
Application	KAFO/HKAFO/RGO	KAFO/HKAFO/RGO	KAFO/HKAFO/RGO	KAFO/HKAFO/RGO	KAFO/HKAFO/RGO	KAFO/HKAFO/RGO	KAFO/HKAFO/RGO
Modular Add-on		Move-5-S	Move-5-N		Move-0-S	Move-0-N	
Force Adjustment		3 Positions	7 Positions		3 Positions	7 Positions	
Max. Flexion Angle	130°	115°	95 to 125°	130°	115°	95 to 125°	130°
Assitive Force		up to max. force	normal force		up to max. force	normal force	
Cylinder Detachable		possible			possible		
Locking Mechanism	Drop lock	Drop lock	Drop lock	Drop lock	Drop lock	Drop lock	Drop lock
Unlock	Lift drop lock	Lift drop lock	Lift drop lock	Lift drop lock	Lift drop lock	Lift drop lock	Lift drop lock
Lock	Auto-locking	Auto-locking	Auto-locking	Auto-locking	Auto-locking	Auto-locking	Auto-locking
Unlocked (maintained)	Spring plunger	Spring plunger	Spring plunger	Spring plunger	Spring plunger	Spring plunger	(Spring plunger)
Donning Aid Rudi		yes	yes	yes	yes	yes	
	Pages 120-121	Pages 122-123	Pages 124-125	Pages 126-127	Pages 128-129	Pages 130-131	Pages 132-133

Varo-KA-0 Knee Joint



Features

Sizes available for **small to large patients**

Pulling the satellite unlocks the joint; **when released, the joint automatically locks upon extension**

+ **Magnetic option** allows the joint to remain unlocked

+ **Spring-loaded** locking mechanism engages automatically at full extension

+ **Adjustable Flexion Angle** from 0° to 30° in 5° intervals

Additional functions with **Dynamic-N** or **Dynamic-S** options

Available with a **contoured or straight** lower bar

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Machined uprights and offset connection ensure optimal **transfer of force**

Upper section **CNC-machined from one piece** of material for increased stability

Fabricated from **high-strength aluminum**

Joint flexes to **130°**

Precise assembly to 1/100mm with self-lubricating washers for smooth operation free of play

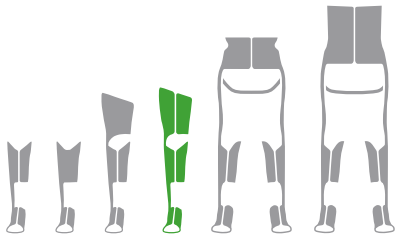
Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

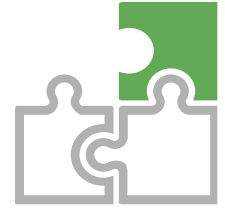
Engraved **serial number** for traceability

Clearly illustrated instructions for use

Fig. left

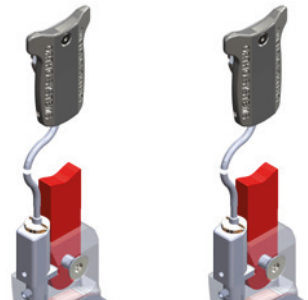


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Joint

Article No.	KAFO	HKAFO / RGO			Width	Thickness	Length
Varo-KA-0-28	not yet available				-	-	-
Varo-KA-0-30	not yet available				-	-	-
Varo-KA-0-32	up to 50 kg	up to 40 kg			41 mm	20,5 mm	73 mm
Varo-KA-0-36	up to 70 kg	up to 60 kg			43 mm	22,0 mm	75 mm

Varo-KA-0 contoured | Varo-KA-0 straight



Locked



Extension



Flexion

Posterior Offset



Modular

Force Options



No Grinding Necessary



Locking Mechanism

Water Resistant

Varo-KA-0-Dynamic-0-S



Features

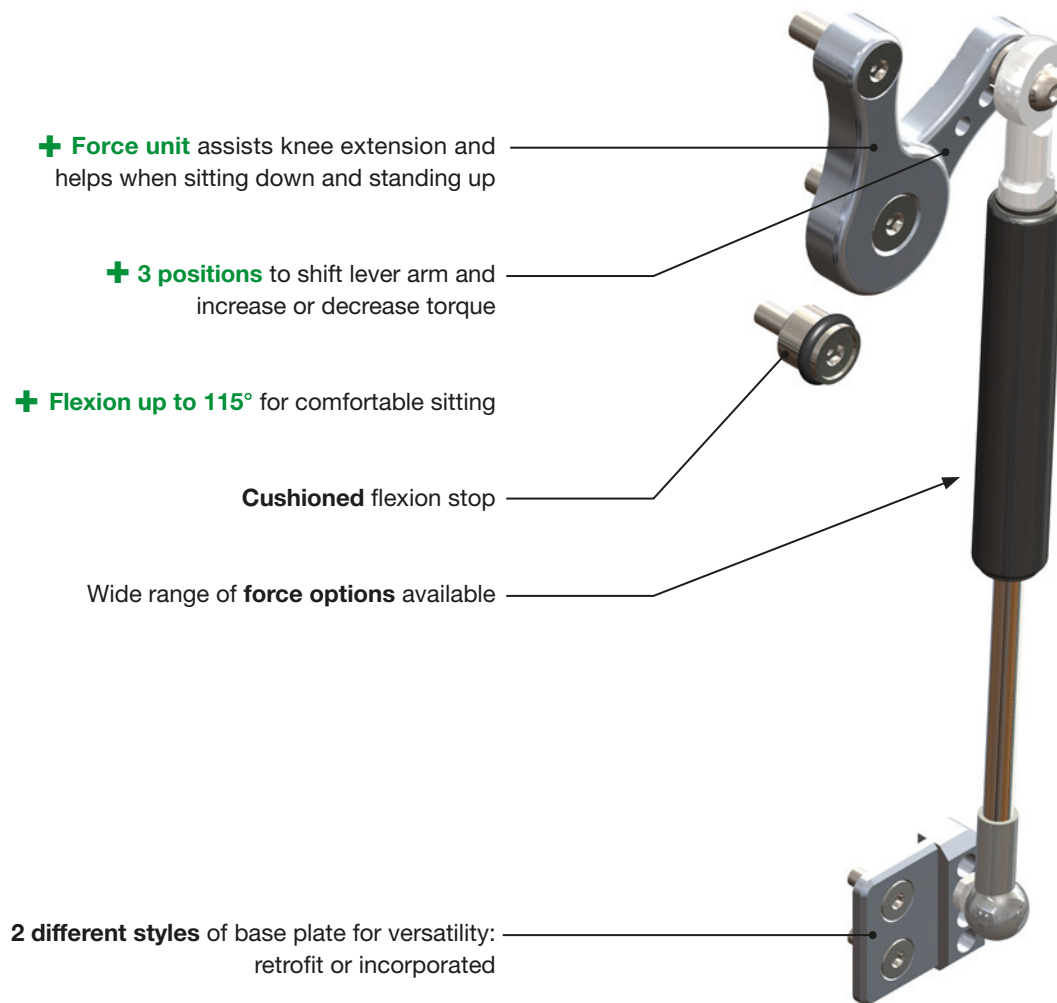


Fig. left

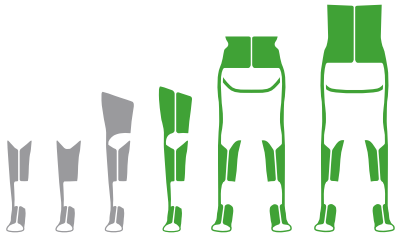
Standard

Fully assembled complete with everything needed for a functional add-on to the Varo-KA-0 knee joint

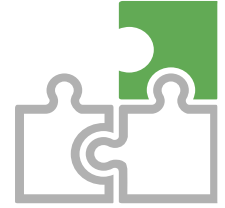
Available **separately or as combi-product** together with the Varo-KA-0 knee joint

Serial number for traceability

Clearly illustrated instructions for use

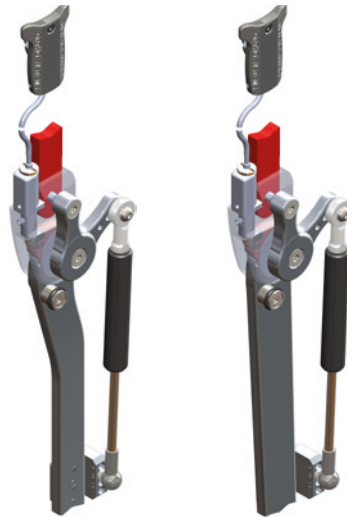


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product	Weight Classification (body weight)		Article No.
Varo-KA-0-Dynamic-0-S-28	KAFO	HKAFO / RGO	Dynamic-0-S-28
Varo-KA-0-Dynamic-0-S-30			Dynamic-0-S-30
Varo-KA-0-Dynamic-0-S-32			Dynamic-0-S-32
Varo-KA-0-Dynamic-0-S-36			Dynamic-0-S-36



Varo-KA-0 contoured | Varo-KA-0 straight



Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Locking Mechanism	Water Resistant

Varo-KA-0-Dynamic-0-N



Features

+ **Force unit** assists knee extension and helps when sitting down and standing up

+ **2-piece adjustable body** to vary flexion stop between 95° and 115°

+ **7 positions** to shift lever arm and increase or decrease torque

Cushioned flexion stop

Wide range of **force options** available

2 different styles of base plate for versatility: retrofit or incorporated

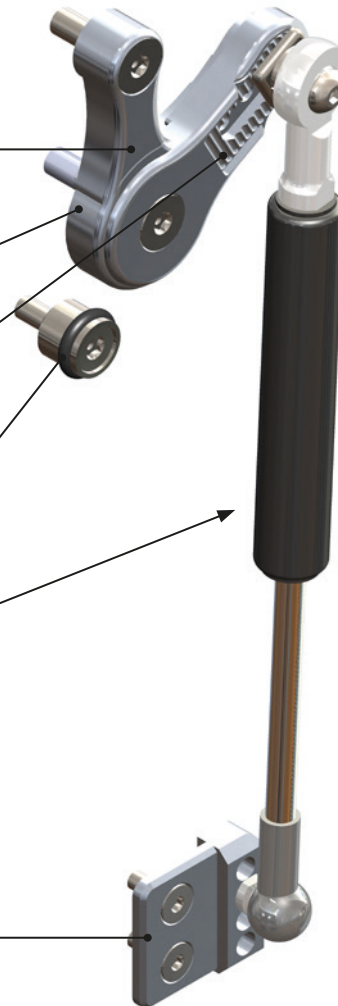


Fig. left

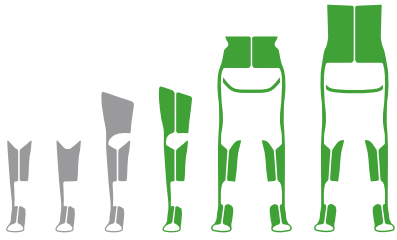
Standard

Fully assembled complete with everything needed for a functional add-on to the Varo-KA-0 knee joint

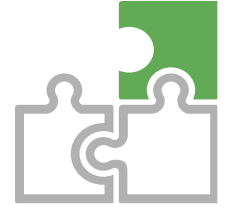
Available **separately or as combi-product** together with the Varo-KA-0 knee joint

Serial number for traceability

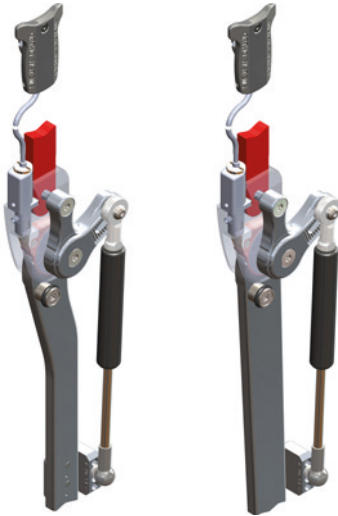
Clearly illustrated instructions for use



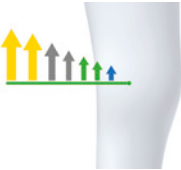
We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product			Article No.	
Varo-KA-0-Dynamic-0-N-28		KAFO	HKAFO/RGO	
Varo-KA-0-Dynamic-0-N-30				
Varo-KA-0-Dynamic-0-N-32				
Varo-KA-0-Dynamic-0-N-36				
Varo-KA-0 contoured Varo-KA-0 straight				

Varo-KA-0 contoured | Varo-KA-0 straight

								
Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Locking Mechanism	Water Resistant

Varo-PS-0 Knee Joint



Features

Sizes available for **small to large patients**

+ **Locking button** preloads the lock; engages automatically on extension

+ **Unlocking button** pre-selects release; knee extension relieves pin tension and unlocks joint for sitting.

+ **Pre-selected** locking mechanism with 2-stage opening and closing

+ **Adjustable Flexion Angle** from 0° to 30° in 5° intervals

Additional functions with **Dynamic-N** or **Dynamic-S** options

Available with a contoured or straight lower bar

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Machined uprights and offset connection ensure optimal transfer of force

Upper section CNC-machined from one piece of material for increased stability

Fabricated from high-strength aluminum

Joint flexes to 130°

Precise assembly to 1/100mm with self-lubricating washers for smooth operation free of play

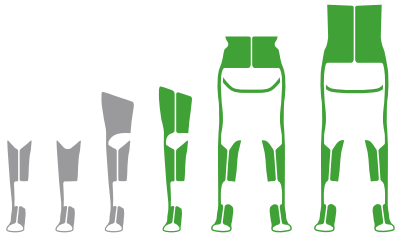
Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

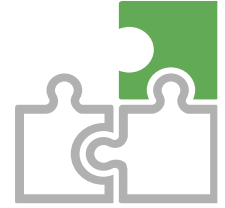
Engraved **serial number** for traceability

Clearly illustrated instructions for use

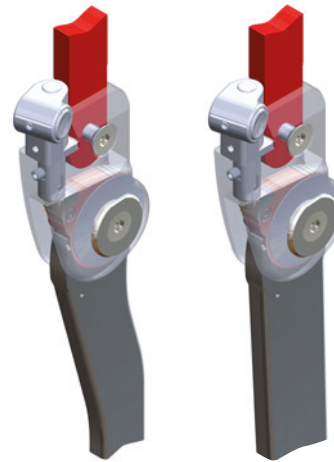
Fig. left



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)			Joint		
Article No. Combi-product	KAFO	HKAFO/RGO	Width	Thickness	Length
Varo-PS-0-28	not yet available		-	-	-
Varo-PS-0-30	not yet available		-	-	-
Varo-PS-0-32	up to 50 kg	up to 40 kg	41 mm	20,5 mm	73 mm
Varo-PS-0-36	up to 70 kg	up to 60 kg	43 mm	22,0 mm	75 mm



Varo-KA-0 contoured | Varo-KA-0 straight

Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Locking Mechanism	Water Resistant

Varo-PS-0-Dynamic-0-S



Features

+ **Force unit** assists knee extension and helps when sitting down and standing up

+ **3 positions** to shift lever arm and increase or decrease torque

+ **Flexion up to 115°** for comfortable sitting

Cushioned flexion stop

Wide range of **force options** available

2 different styles of base plate for versatility: retrofit or incorporated

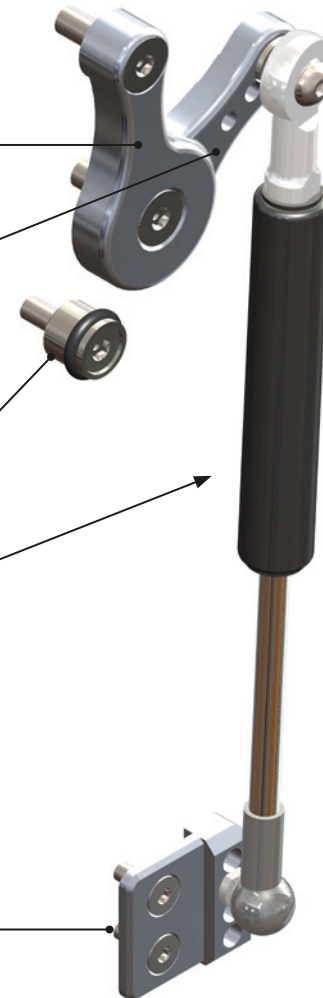


Fig. left

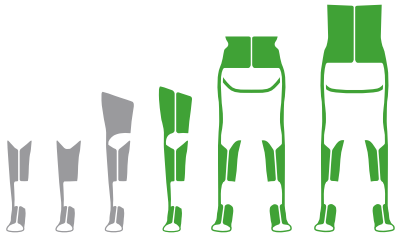
Standard

Fully assembled complete with everything needed for a functional add-on to the Varo-PS-0 knee joint

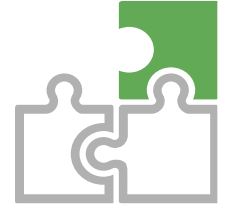
Available separately or as **combi-product** together with the Varo-PS-0 knee joint

Serial number for traceability

Clearly illustrated instructions for use

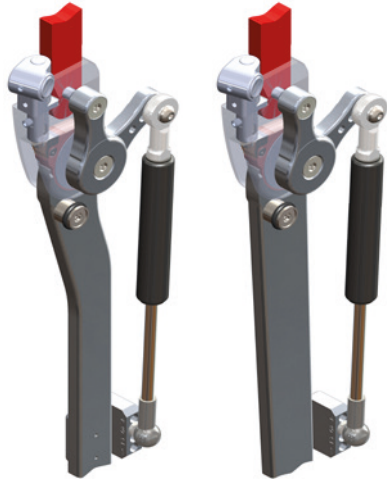


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product	Weight Classification (body weight)		Article No.
Varo-PS-0-Dynamic-0-S-28	KAFO	HKAFO/RGO	Dynamic-0-S-28
Varo-PS-0-Dynamic-0-S-30			Dynamic-0-S-30
Varo-PS-0-Dynamic-0-S-32			Dynamic-0-S-32
Varo-PS-0-Dynamic-0-S-36			Dynamic-0-S-36



Varo-KA-0 contoured | Varo-KA-0 straight

Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Locking Mechanism	Water Resistant

Varo-PS-0-Dynamic-0-N



Features

+ **Force unit** assists knee extension and helps when sitting down and standing up

+ **2-piece adjustable body** to vary flexion stop between 95° and 115°

+ **7 positions** to shift lever arm and increase or decrease torque

Cushioned flexion stop

Wide range of **force options** available

2 different styles of base plate for versatility: retrofit or incorporated

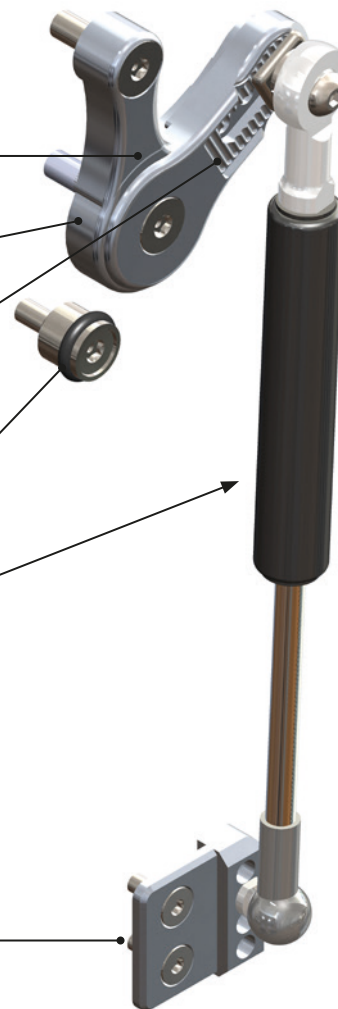


Fig. left

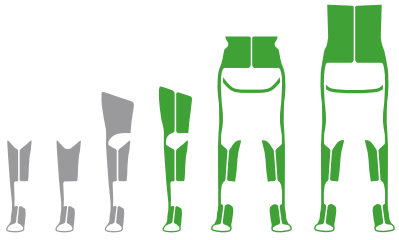
Standard

Fully assembled complete with everything needed for a functional add-on to the Varo-PS-0 knee joint

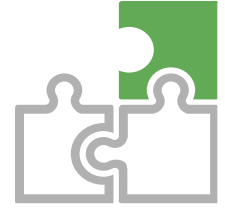
Available separately or as **combi-product** together with the Varo-PS-0 knee joint

Serial number for traceability

Clearly illustrated instructions for use



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product		KAFO	HKAFO/RGO		Article No.
Varo-PS-0-Dynamic-0-N-28			not yet available		Dynamic-0-N-28
Varo-PS-0-Dynamic-0-N-30			not yet available		Dynamic-0-N-30
Varo-PS-0-Dynamic-0-N-32		up to 50 kg	up to 40 kg		Dynamic-0-N-32
Varo-PS-0-Dynamic-0-N-36		up to 70 kg	up to 60 kg		Dynamic-0-N-36

Varo-PS-0 contoured | Varo-PS-0 straight

 Locked	 Extension	 Flexion	Posterior Offset	 Modular	 Force Options	 No Grinding Necessary	 Locking Mechanism	Water Resistant
---	--	--	------------------	--	--	--	--	-----------------

Konso-5 Knee Joint



Features

Sizes available for **small to large patients**

Additional functions with the **Move-N** or **Move-S** add-ons

Joint flexes to **130°**

Available with a **long or short upright**

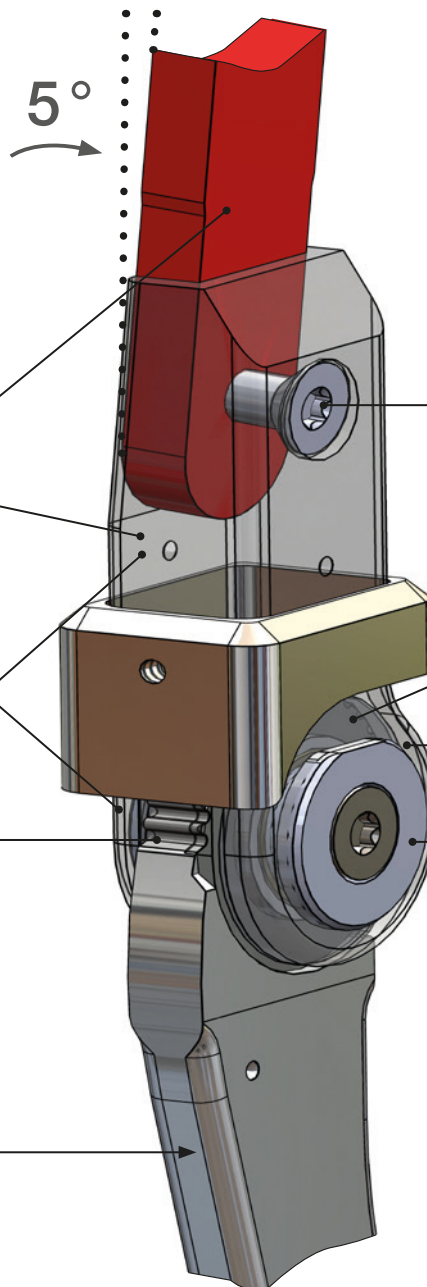
+ Thigh segment **angled 5° outwards**

Ball plunger included for temporary unlocking of joint

Fabricated from **high-strength aluminum**

+ **Adjustable Flexion Angle** from 0° to 40° in 5° intervals

Available with a contoured or straight lower bar



Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Machined uprights and offset connection ensure optimal **transfer of force**

Upper section **CNC-machined from one piece** of material for increased stability

Precise assembly calibrated to 1/100mm with selflubricating washers for smooth operation free of play

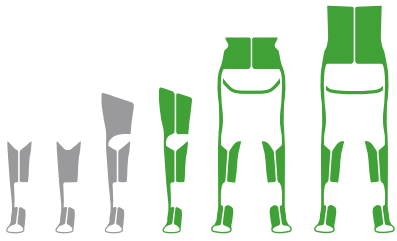
Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

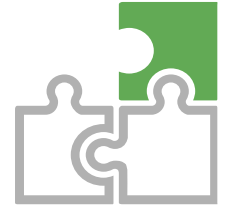
Engraved **serial number** for traceability

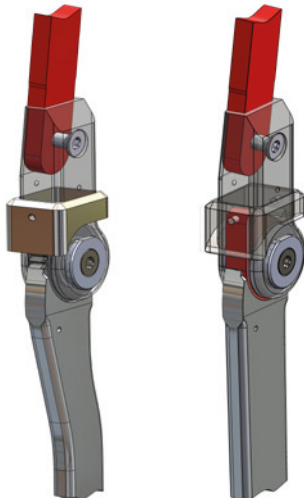
Clearly illustrated instructions for use

Fig. left



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)			Joint			
Article No.	KAFO	HKAFO/RGO		Width	Thickness	Thickness at Drop Lock
Konso-5-25	up to 20 kg	up to 15 kg		25 mm	14,5 mm	17,5 mm
Konso-5-28	up to 30 kg	up to 20 kg		28 mm	16,5 mm	20,5 mm
Konso-5-30	up to 35 kg	up to 30 kg		30 mm	17,5 mm	21,5 mm
Konso-5-32	up to 50 kg	up to 40 kg		32 mm	19,5 mm	23,0 mm
Konso-5-36	up to 70 kg	up to 60 kg		36 mm	20,5 mm	24,0 mm
Konso-5-40	up to 85 kg	up to 85 kg		40 mm	22,0 mm	26,0 mm
			Konso - 5 contoured Konso - 5 straight			

Konso-5 contoured | Konso-5 straight

								
Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Locking Mechanism	Water Resistant

Konso-5-Move-5-S



Features

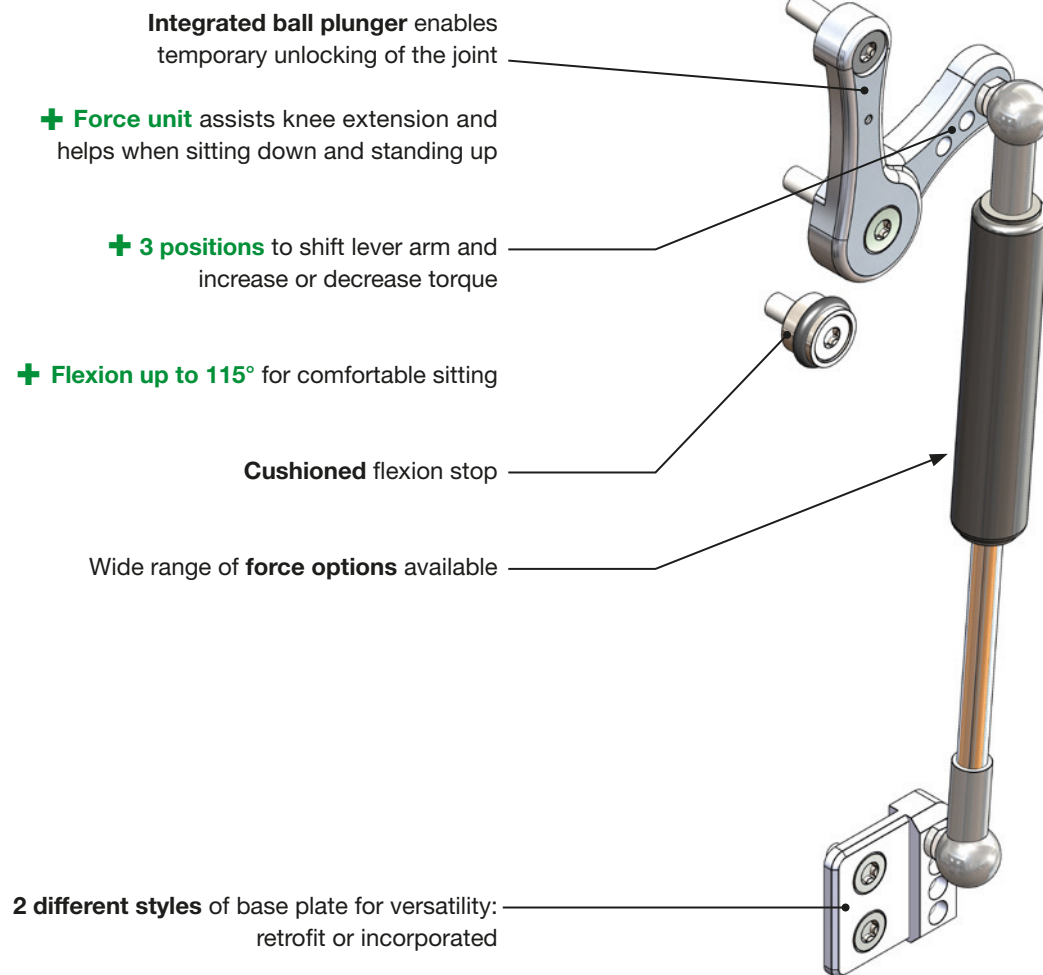


Fig. left

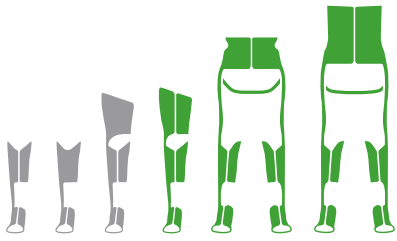
Standard

Fully assembled complete with everything needed for a functional add-on to the Konso knee joint

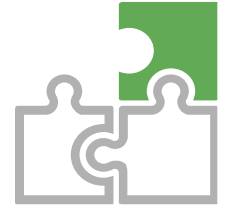
Available **separately or as combi-product** together with a Konso knee joint

Serial number for traceability

Clearly illustrated instructions for use



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product			KAFO	HKAFO / RGO		
Konso-5-Move-5-S-25			up to 20 kg	up to 15 kg		Move-5-S-25
Konso-5-Move-5-S-28			up to 30 kg	up to 20 kg		Move-5-S-28
Konso-5-Move-5-S-30			up to 35 kg	up to 30 kg		Move-5-S-30
Konso-5-Move-5-S-32			up to 50 kg	up to 40 kg		Move-5-S-32
Konso-5-Move-5-S-36			up to 70 kg	up to 60 kg		Move-5-S-36
Konso-5-Move-5-S-40			up to 85 kg	up to 85 kg		Move-5-S-40

Konso-5 contoured | Konso-5 straight

Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Locking Mechanism	Water Resistant

Konso-5-Move-5-N



Features

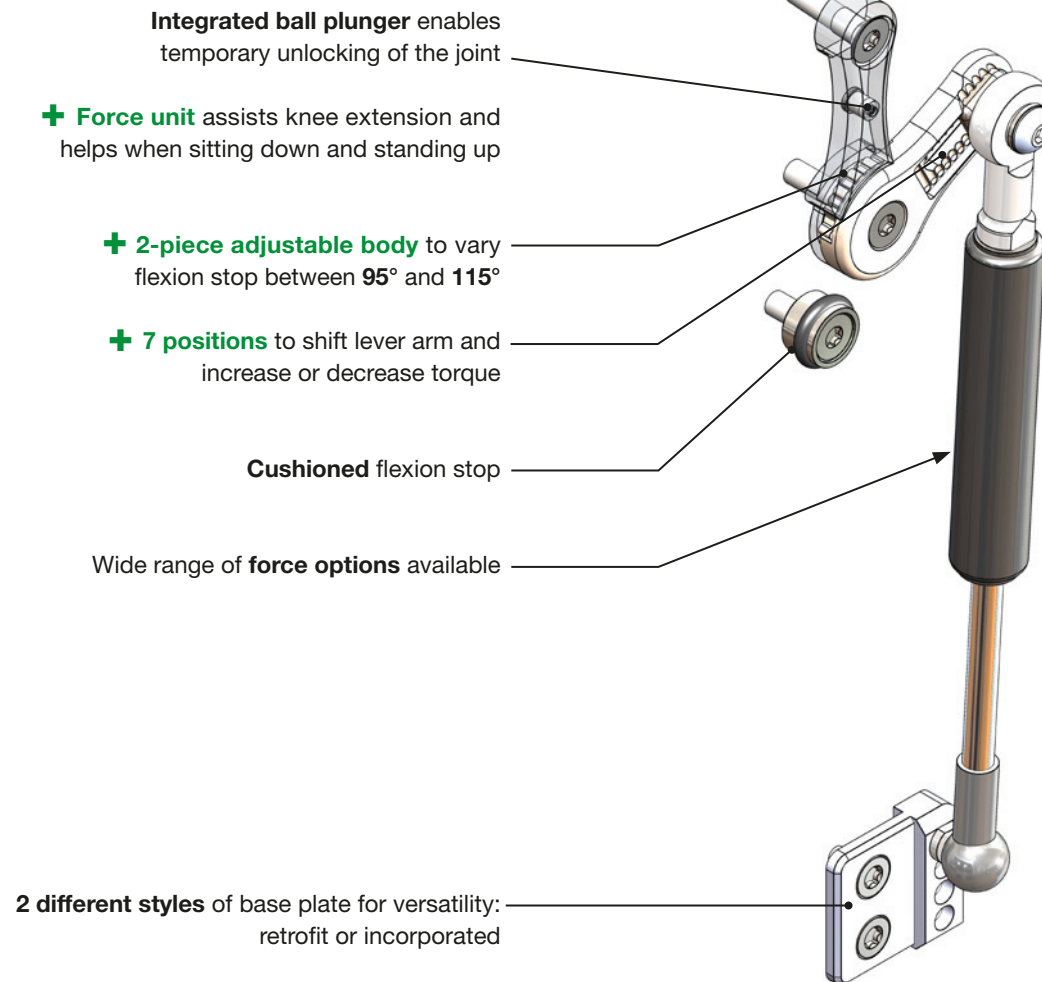


Fig. left

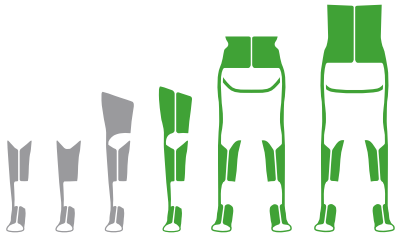
Standard

Fully assembled complete with everything needed for a functional add-on to the Konso knee joint

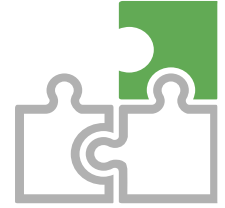
Available **separately** or as **combi-product** together with a Konso knee joint

Serial number for traceability

Clearly illustrated instructions for use



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product	Weight Classification (body weight)		Article No.
Konso-5-Move-5-N-25	KAFO	HKAFO/RGO	Move-5-N-25
Konso-5-Move-5-N-28	up to 20 kg	up to 15 kg	Move-5-N-28
Konso-5-Move-5-N-30	up to 30 kg	up to 20 kg	Move-5-N-30
Konso-5-Move-5-N-32	up to 35 kg	up to 30 kg	Move-5-N-32
Konso-5-Move-5-N-36	up to 50 kg	up to 40 kg	Move-5-N-36
Konso-5-Move-5-N-40	up to 70 kg	up to 60 kg	Move-5-N-40
	up to 85 kg	up to 85 kg	

Konso-5 contoured | Konso-5 straight

			Posterior Offset					Water Resistant
Locked	Extension	Flexion		Modular	Force Options	No Grinding Necessary	Locking Mechanism	

Konso-0 Knee Joint



Features

Sizes available for **small to large** patients

Additional functions with the **Move-N** or **Move-S** add-ons

Joint flexes to **130°**

Available with **a long or short upright**

Ball plunger included
for temporary unlocking of joint

Fabricated from **high-strength aluminum**

+ Adjustable flexion angle from **0° to 40°** in 5° intervals

Available with a contoured or straight lower bar

Standard

Fully assembled for clear cost estimates
and uncomplicated ordering

Machined uprights and offset connection
ensure **optimal transfer of force**

Upper section **CNC-machined from one piece**
of material for increased stability

Precise assembly calibrated to 1/100mm with self-
lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly
with bronze bushing

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

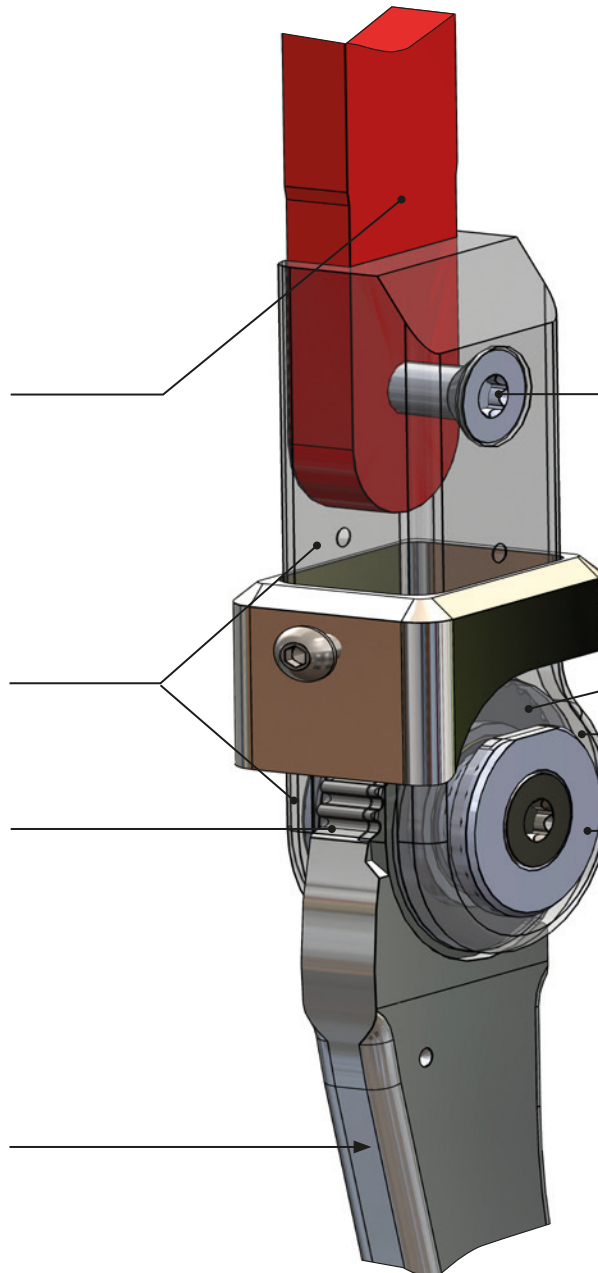
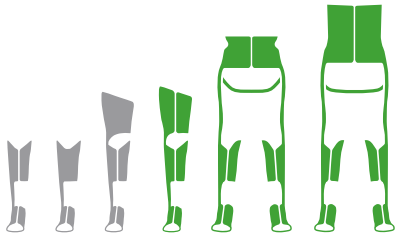
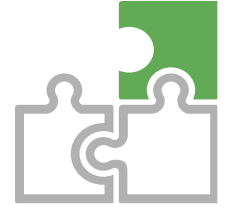
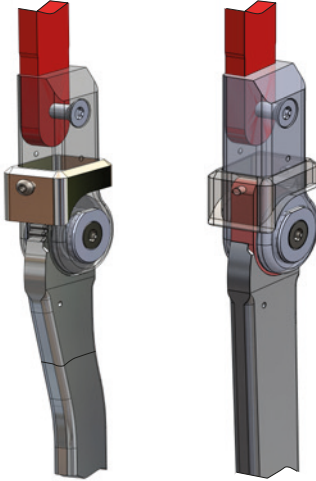


Fig. left



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)			Joint			
Article No.	KAFO	HKAFO/RGO		Width	Thickness	Thickness at Drop Lock
Konso-0-25	up to 20 kg	up to 15 kg		25 mm	14,5 mm	17,5 mm
Konso-0-28	up to 30 kg	up to 20 kg		28 mm	16,5 mm	20,5 mm
Konso-0-30	up to 35 kg	up to 30 kg		30 mm	17,5 mm	21,5 mm
Konso-0-32	up to 50 kg	up to 40 kg		32 mm	19,5 mm	23,0 mm
Konso-0-36	up to 70 kg	up to 60 kg		36 mm	20,5 mm	24,0 mm
Konso-0-40	up to 85 kg	up to 85 kg		40 mm	22,0 mm	26,0 mm

Konso -0 contoured | Konso-0 straight

								
Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Locking Mechanism	Water Resistant

Konso-0-Move-0-S



Features

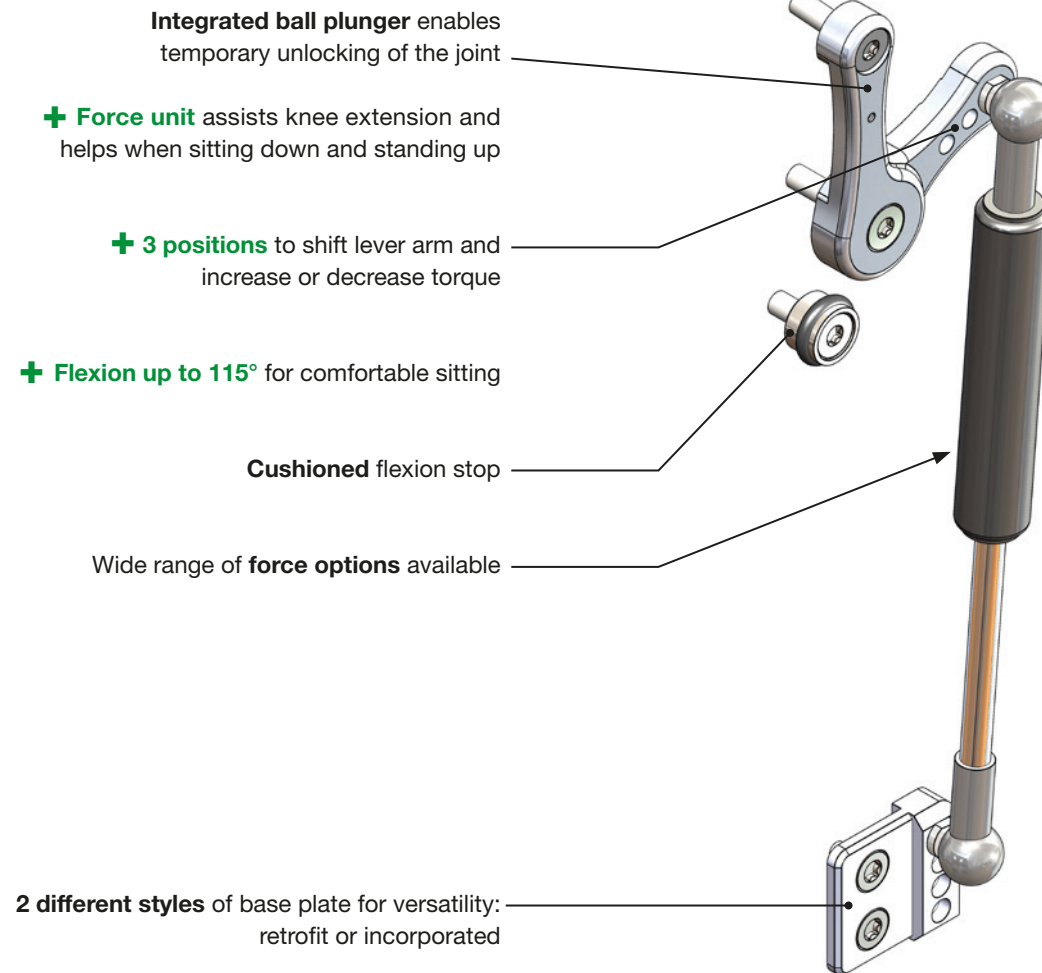


Fig. left

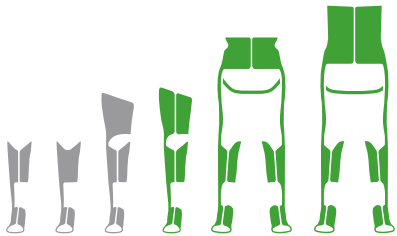
Standard

Fully assembled complete with everything needed for a functional add-on to the Konso knee joint

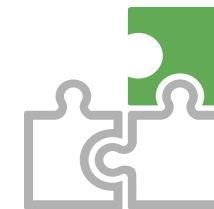
Available **separately or as combi-product** together with a Konso knee joint

Serial number for traceability

Clearly illustrated instructions for use



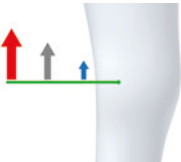
We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product			KAFO	HKAFO/RGO		
Konso-0-Move-0-S-25			up to 20 kg	up to 15 kg		Move-0-S-25
Konso-0-Move-0-S-28			up to 30 kg	up to 20 kg		Move-0-S-28
Konso-0-Move-0-S-30			up to 35 kg	up to 30 kg		Move-0-S-30
Konso-0-Move-0-S-32			up to 50 kg	up to 40 kg		Move-0-S-32
Konso-0-Move-0-S-36			up to 70 kg	up to 60 kg		Move-0-S-36
Konso-0-Move-0-S-40			up to 85 kg	up to 85 kg		Move-0-S-40

Konso-0 contoured | Konso-0 straight

			Posterior Offset					Water Resistant
Locked	Extension	Flexion		Modular	Force Options	No Grinding Necessary	Locking Mechanism	

Konso-0-Move-0-N



Features

- Integrated ball plunger** enables temporary unlocking of the joint
- + **Force unit** assists knee extension and helps when sitting down and standing up
- + **2-piece adjustable body** to vary flexion stop between **95°** and **115°**
- + **7 positions** to shift lever arm and increase or decrease torque
- Cushioned flexion stop**
- Wide range of **force options** available
- 2 different styles** of base plate for versatility: retrofit or incorporated

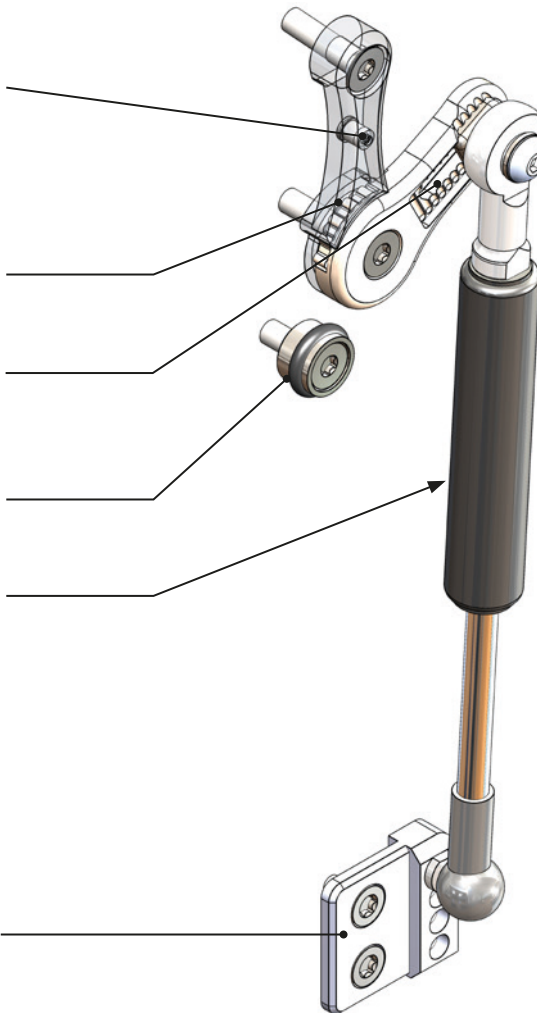


Fig. left

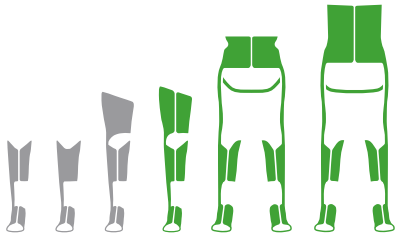
Standard

Fully assembled complete with everything needed for a functional add-on to the Konso knee joint

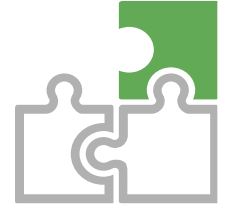
Available **separately or as combi-product** together with a Konso knee joint

Serial number for traceability

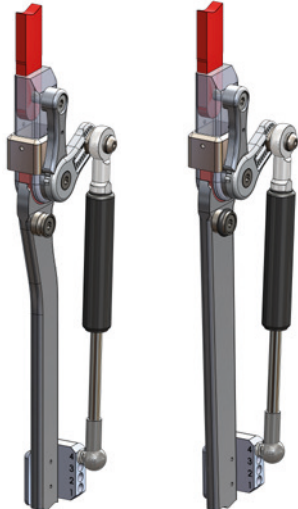
Clearly illustrated instructions for use



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product		KAFO	HKAFO/RGO		Article No.
Konso-0-Move-0-N-25		up to 20 kg	up to 15 kg		Move-0-N-25
Konso-0-Move-0-N-28		up to 30 kg	up to 20 kg		Move-0-N-28
Konso-0-Move-0-N-30		up to 35 kg	up to 30 kg		Move-0-N-30
Konso-0-Move-0-N-32		up to 50 kg	up to 40 kg		Move-0-N-32
Konso-0-Move-0-N-36		up to 70 kg	up to 60 kg		Move-0-N-36
Konso-0-Move-0-N-40		up to 85 kg	up to 85 kg		Move-0-N-40

Konso-0 contoured | Konso-0 straight

 Locked	 Extension	 Flexion	Posterior Offset	 Modular	 Force Options	 No Grinding Necessary	 Locking Mechanism	Water Resistant
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Klassik-Konso Knee Joint



Features

Sizes available for the **smallest to large** patients

Joint flexes to **130°**

Fabricated from **high-strength aluminum**

+ Adjustable flexion angle from **0° to 40°** in 5° intervals

Available with a contoured or straight lower bar

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Integrated upright bars ensure **optimal transfer of force**

Upper section **CNC-machined from one piece** of material for increased stability

Precise assembly calibrated to 1/100mm with self-lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

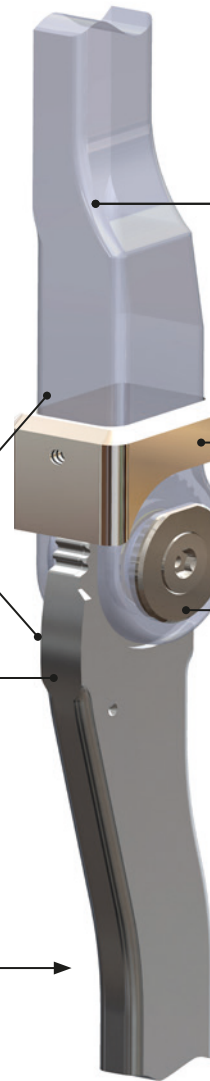
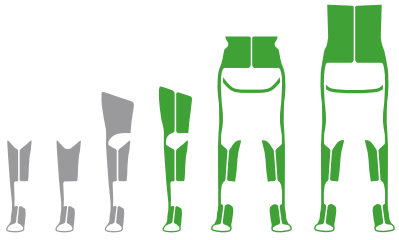
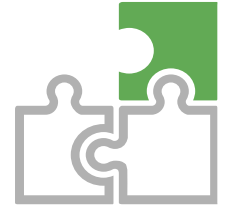


Fig. left

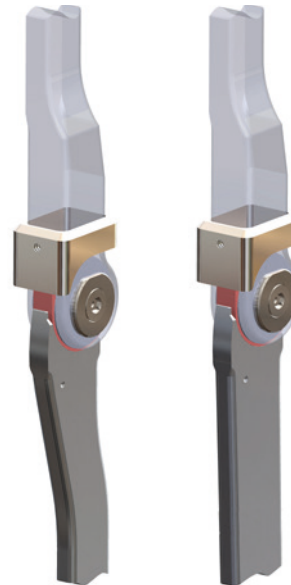


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No.	KAFO	HKAFO/RGO
Klassik-Konso-22	up to 10 kg	up to 10 kg
Klassik-Konso-25	up to 20 kg	up to 5 kg
Klassik-Konso-28	up to 30 kg	up to 20 kg
Klassik-Konso-30	up to 35 kg	up to 30 kg
Klassik-Konso-32	up to 50 kg	up to 40 kg
Klassik-Konso-36	up to 70 kg	up to 55 kg
Klassik-Konso-40	up to 85 kg	up to 65 kg
Klassik-Konso-40-Plus	up to 85 kg	up to 85 kg



Joint

Width	Thickness	Thickness at Drop Lock
22 mm	10,5 mm	15,0 mm
25 mm	13,0 mm	16,5 mm
28 mm	15,0 mm	19,5 mm
30 mm	16,0 mm	20,5 mm
32 mm	17,0 mm	21,0 mm
34 mm	17,0 mm	21,0 mm
40 mm	21,0 mm	26,0 mm
40 mm	22,0 mm	28,0 mm

Klassik-Konso contoured | Klassik-Konso straight

Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Locking Mechanism	Water Resistant

Blocker Knee Joint



Features

Sizes available for **small to large** patients

Fabricated from **high-strength aluminum**

+ Available in **0°, 10°, 20°** or **30°** of flexion

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Integrated upright bars ensure **optimal transfer of force**

Upper section **CNC-machined from one piece** of material for increased stability

Precise assembly calibrated to 1/100mm with self-lubricating washers for smooth operation free of play

Maintenance-free stainless steel joint assembly with bronze bushing

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

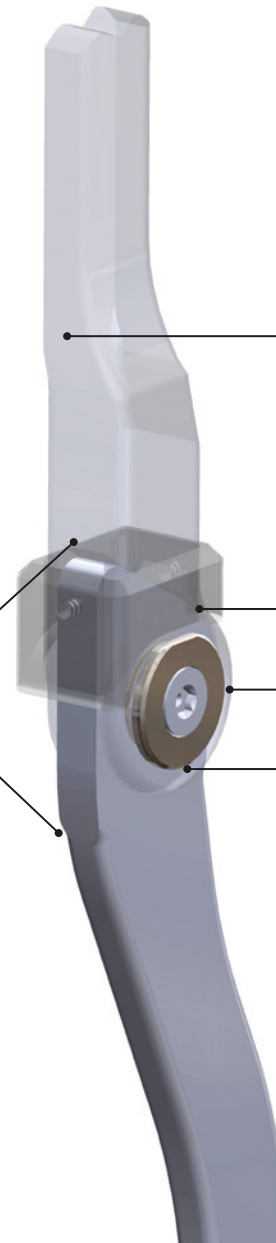
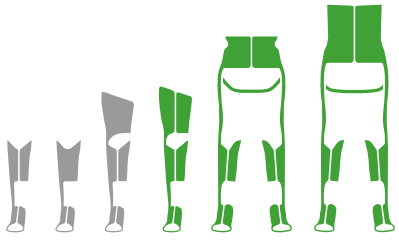
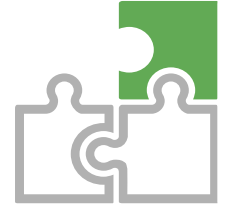


Fig. left



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No.	with Angle	KAFO	HKAFO/RGO
Blocker-25-	10-, 20-, 30- G	up to 20 kg	up to 15 kg
Blocker-28-	10-, 20-, 30- G	up to 30 kg	up to 20 kg
Blocker-30-	10-, 20-, 30- G	up to 35 kg	up to 30 kg
Blocker-32-	00-, 10-, 20-, 30- G	up to 50 kg	up to 40 kg
Blocker-36-	00-, 10-, 20-, 30- G	up to 70 kg	up to 50 kg
Blocker-40-	00-, 10-, 20-, 30- G	up to 85 kg	up to 65 kg
Blocker-40-Plus-	00-, 10-, 20- G	up to 85 kg	up to 85 kg



Blocker 20°

Joint

Width	Thickness	Thickness at Drop Lock
25 mm	13,0 mm	16,5 mm
28 mm	15,0 mm	19,5 mm
30 mm	16,0 mm	20,5 mm
32 mm	17,0 mm	21,0 mm
34 mm	17,0 mm	21,0 mm
40 mm	21,0 mm	26,0 mm
40 mm	22,0 mm	28,0 mm

			Posterior Offset	Modular	Force Options			
Locked	Extension	Flexion				No Grinding Necessary	Locking Mechanism	Water Resistant

Klassik-Konso Slide



Features

+ Wear-free, **magnetic** safety release

+ Ergonomic **plastic grip**

Pre-select system opens only when knee is in full extension and drop lock is relieved

Cable with or without housing

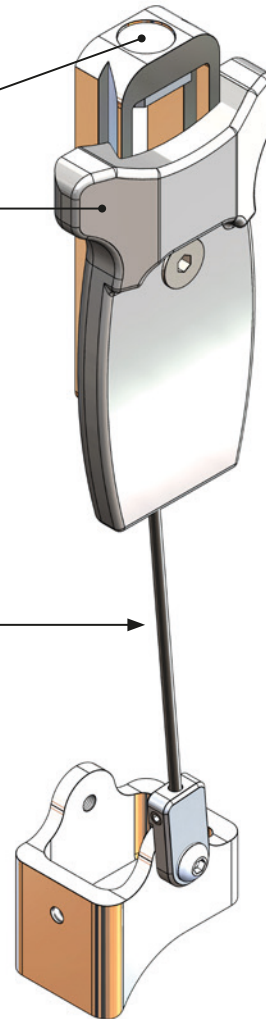


Fig. left

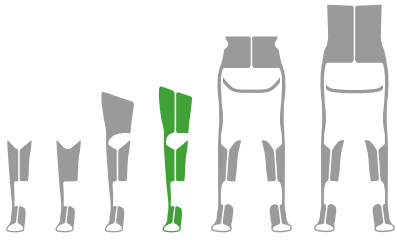
Standard

Fully assembled for clear cost estimates and uncomplicated ordering

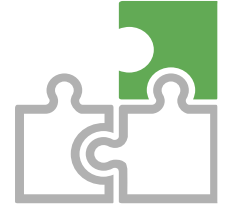
Accessory available as **combi-product** with the Klassik-Konso knee joint

Serial number for traceability

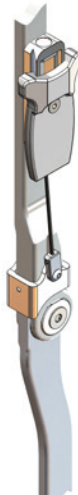
Clearly illustrated instructions for use

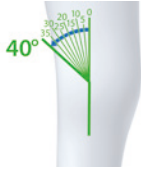


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No. Combi-product		KAFO		Article No.
Klassik-Konso-Slide-30		up to 35 kg		Slide-30
Klassik-Konso-Slide-32		up to 50 kg		Slide-32
Klassik-Konso-Slide-36		up to 70 kg		Slide-36
Klassik-Konso-Slide-40		up to 85 kg		Slide-40
Klassik-Konso-Slide-40-Plus		up to 85 kg		Slide-40-Plus
Only available as replacement item				

								
Locked	Extension	Flexion	Posterior Offset	Modular	Force Options	No Grinding Necessary	Locking Mechanism	Water Resistant

Overview Separators



Separator-E

universal

► more on pages 140 - 141

Separator-S

for Liber

for Indi-Strecker

► more on pages 142 - 143

Indi-Strecker with Separator

Separator-X

for Liber-IN-Extensor-IN-S

Liber-IN-Extensor-IN-N

► more on pages 144 - 145

Functional Overview Separators



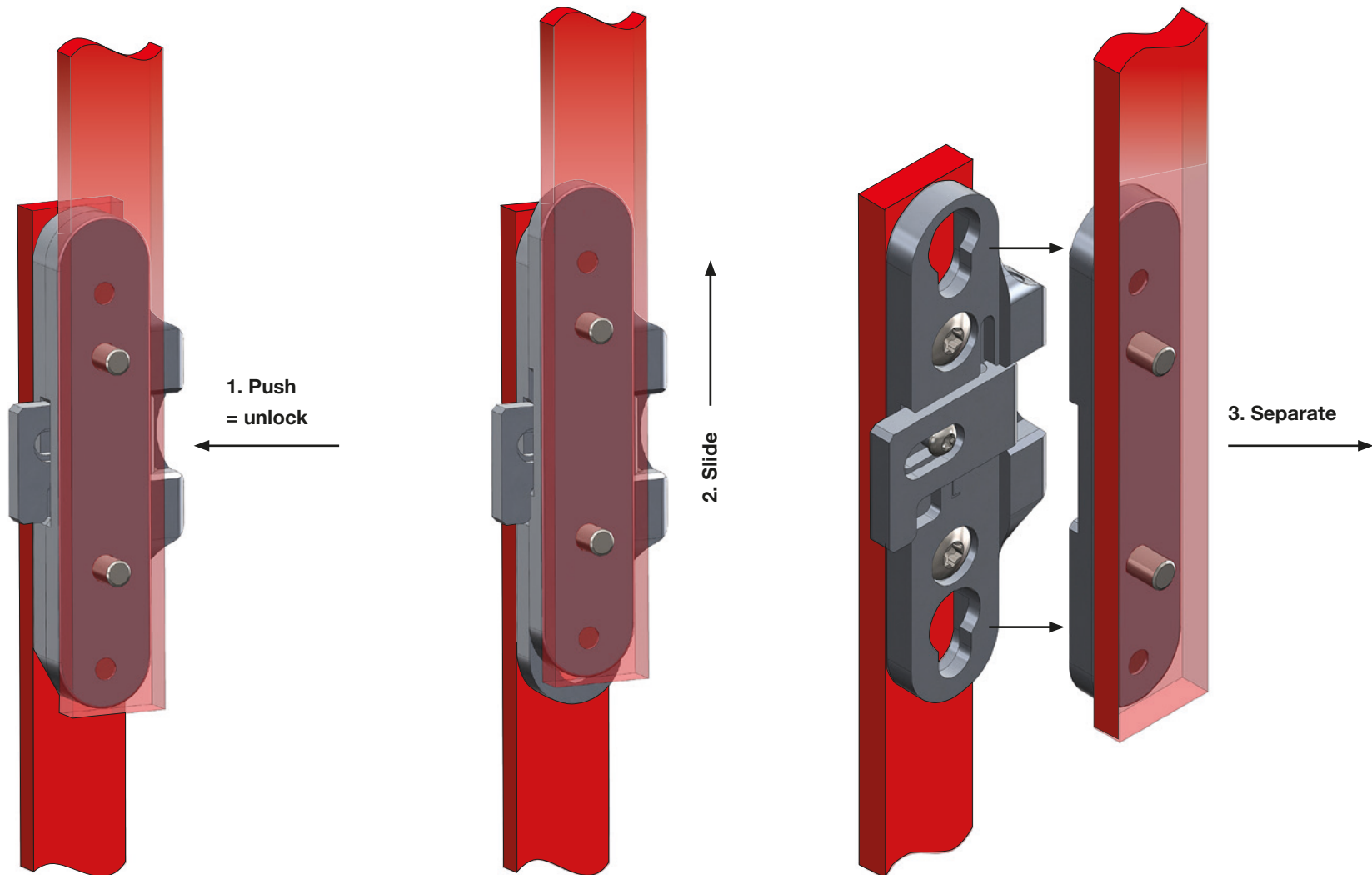
The separator quick-release system connects components of lower limb orthoses, allowing for easy separation when needed. It enables an HKAFO or KAFO to be converted into an AFO. The separators are delivered fully assembled and free of play.

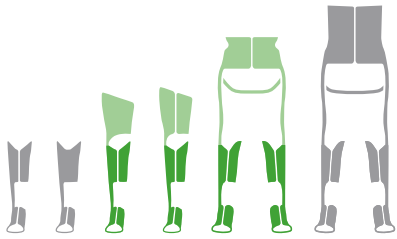
Orthosis	Modular	Detachable	Locked	No Grinding Necessary	Growable	Water Resistant	
							Separator-E Pages 140–141
							Separator-S Pages 142–143
							Separator-X Pages 144–145

► See pages 80–81 for Separator applications

Addition Separator-E

Simple Operation in 3 Steps

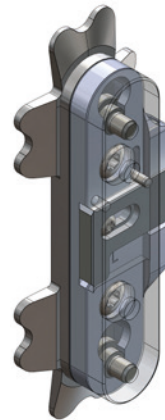




Self-contained quick-release system for separating **KAFO** into **K+AFO**, **HKAFO** into **HK+AFO**, or **RGO** into **AFO**.
Can be used with all orthotic knee and ankle joints.



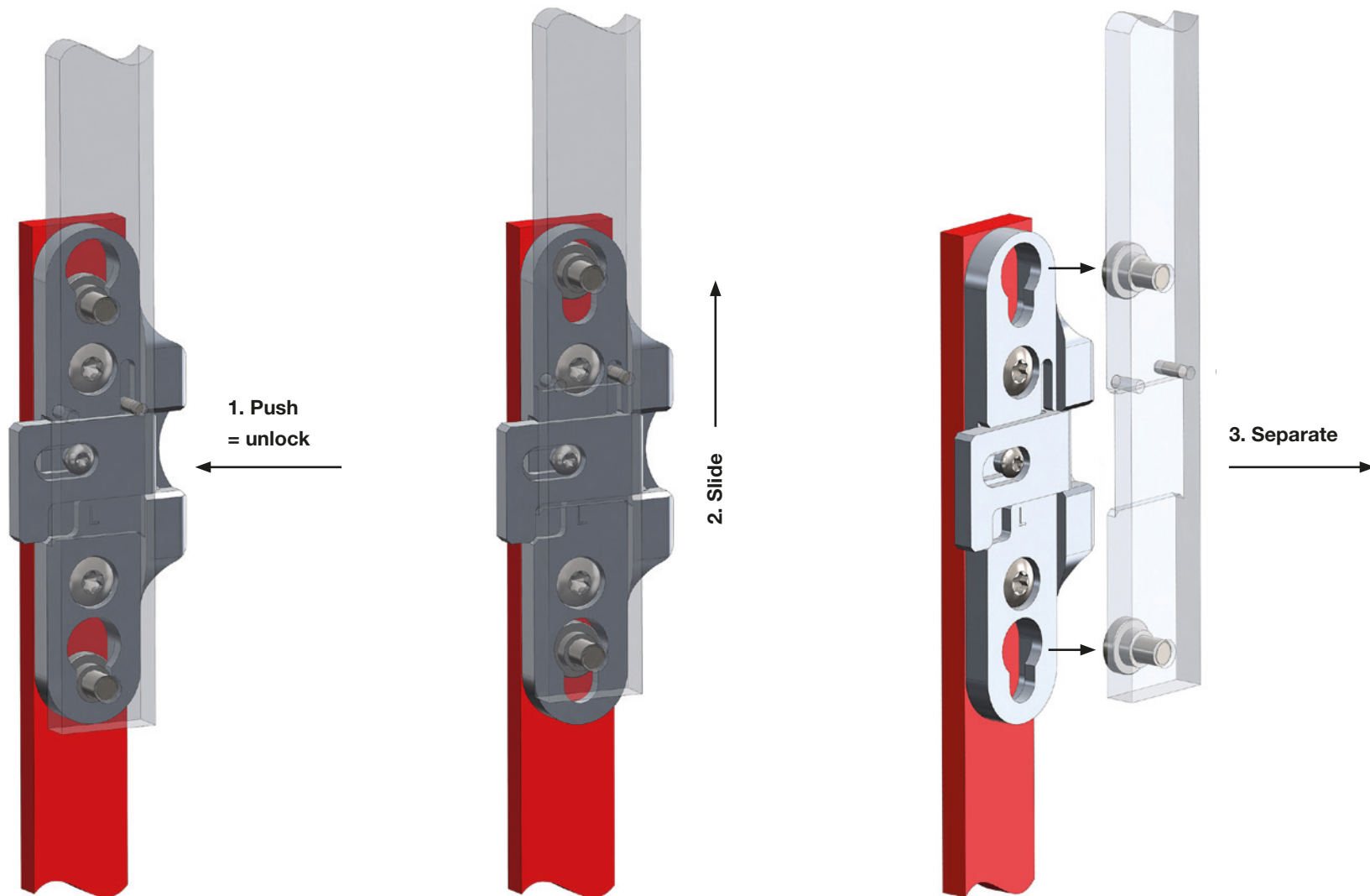
Weight Classification (body weight)		Measurements		
Article No.	AFO/KAFO	Width	Thickness	Length
Separator-E-klein-16	up to 30 kg	16 mm	12,0 mm	80 mm
Separator-E-mittel-19	up to 70 kg	19 mm	11,5 mm	90 mm
Separator-E-groß-22	up to 110 kg	22 mm	12,0 mm	110 mm



Modular	Detachable	Locked	No Grinding Necessary	Growable	Water Resistant
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Addition Separator-S

Simple Operation in 3 Steps





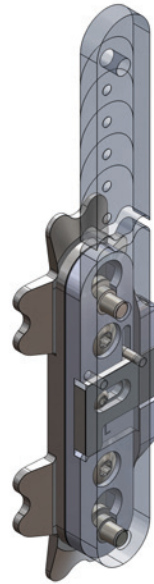
Partially integrated into the upright bar, this quick-release system separates a **KAFO** into **K+AFO** or an **HKAFO** into **HK+AFO**. **Compatible with Liber and Indi-Strecker knee joints.**



Weight Classification (body weight)

Measurements

Article No.	AFO/KAFO
Separator-S-klein-22	up to 15 kg
Separator-S-klein-25-Plus	up to 30 kg
Separator-S-mittel-28	up to 40 kg
Separator-S-mittel-30	up to 50 kg
Separator-S-mittel-30-Plus	up to 70 kg
Separator-S-groß-34	up to 110 kg



Width	Thickness	Length
16 mm	6,0 + 6,0 mm	80 mm
16 mm	6,0 + 6,0 mm	80 mm
19 mm	5,5 + 6,0 mm	90 mm
19 mm	5,5 + 8,0 mm	90 mm
19 mm	5,5 + 8,0 mm	90 mm
22 mm	6,0 + 10,0 mm	110 mm



Modular



Detachable



Locked



No Grinding Necessary



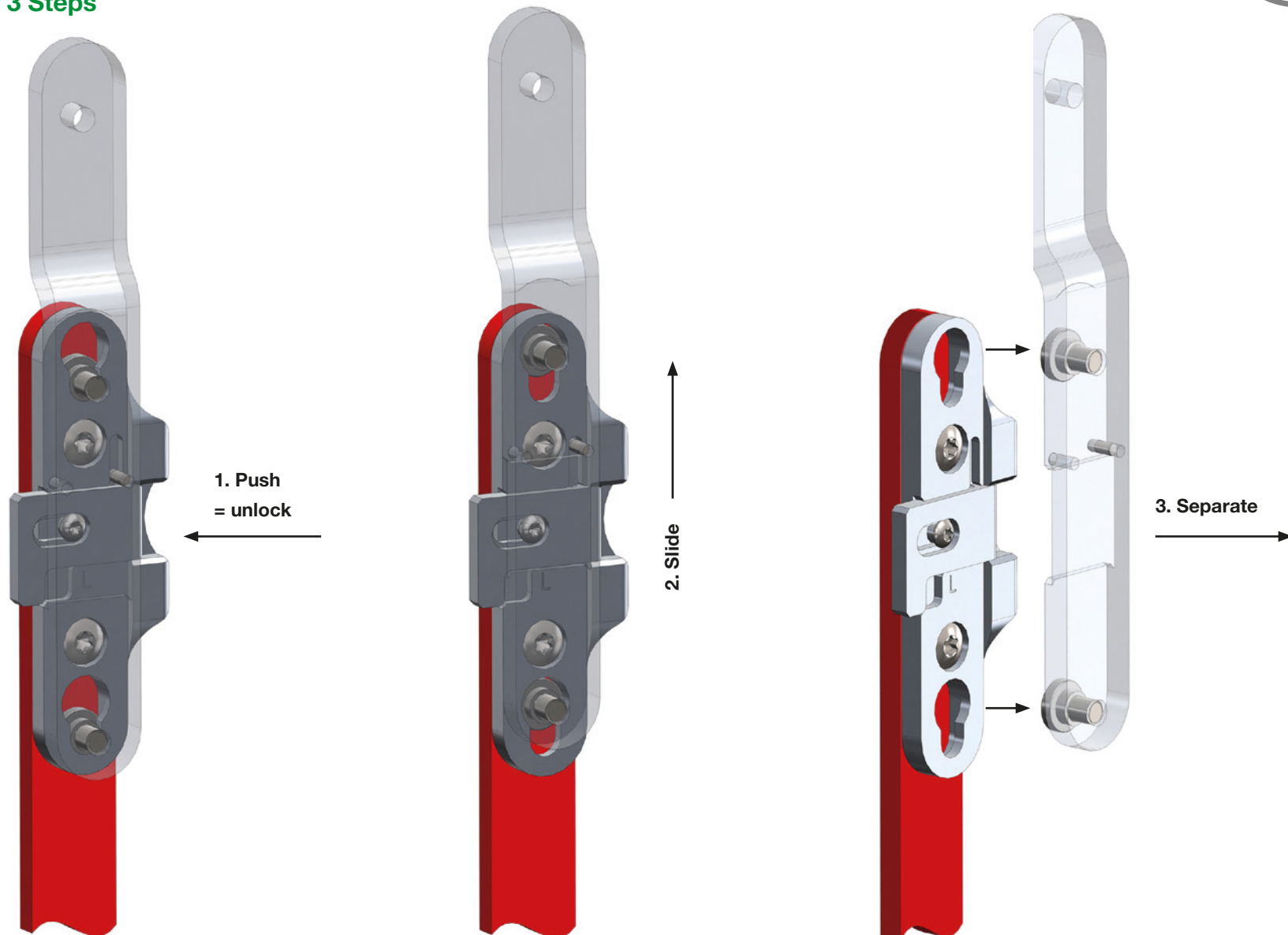
Growable

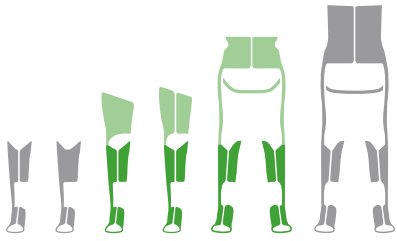


Water Resistant

Addition Separator-X

Simple Operation in 3 Steps





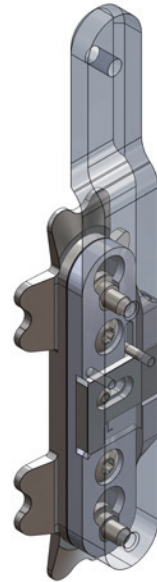
Partially integrated into the upright bar, this quick-release system separates a **KAFO** into **K+AFO** or an **HKAFO** into **HK+AFO**. Designed for the **Liber-IN-Extensor**, with extension assist positioned in the thigh section.



Weight Classification (body weight)

Measurements

Article No.	AFO/KAFO	Width	Thickness	Length
Separator-X-klein-22	up to 15 kg	16 mm	6,0 + 6,0 mm	–
Separator-X-klein-25-Plus	up to 30 kg	16 mm	6,0 + 6,0 mm	–
Separator-X-mittel-28	up to 40 kg	19 mm	5,5 + 6,0 mm	–
Separator-X-mittel-30	up to 50 kg	19 mm	5,5 + 8,0 mm	–
Separator-X-mittel-30-Plus	up to 70 kg	19 mm	5,5 + 8,0 mm	–
Separator-X-groß-34	up to 110 kg	22 mm	6,0 + 10,0 mm	–



Modular



Detachable



Locked



No Grinding Necessary



Growable



Water Resistant

Donning Aid

The Donning Aid Rudi can be used with all ORTHO-SYSTEMS extension-assist cylinders. It clips over the cylinder to temporarily fix the position between 90° and 150° (30°). Keeping the knee in a set position can make it easier to put on the orthosis. Additionally, if the cylinder has ball joints on both ends, it can be completely removed together with the donning aid.



Donning Aid Rudi

Liber-Extensor-S fixed at 95° (85°)

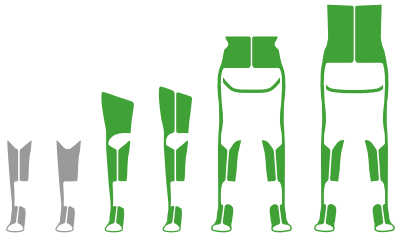
Compatible with:

Extensor-S, Extensor-N
Extensor-IN-S, Extensor-IN-N
Strecker
Dynamic-0-S, Dynamic-0-N
Move-0/5, Move-0/5-N

Indi-Strecker with cylinder removed

Compatible with:

Extensor-S
Extensor-IN-S
Strecker
Dynamic-0-S
Move-0/5-S



for Extension Assist

Article No.	for Cylinder Diameter	Cylinder Travel
Anziehhilfe-Rudi-12-50-klein	12 mm	40 and 50 mm
Anziehhilfe-Rudi-15-60-mittel	15 mm	50 and 60 mm
Anziehhilfe-Rudi-18-60-groß	18 mm	60 mm

► See pages 76 - 79 for applications



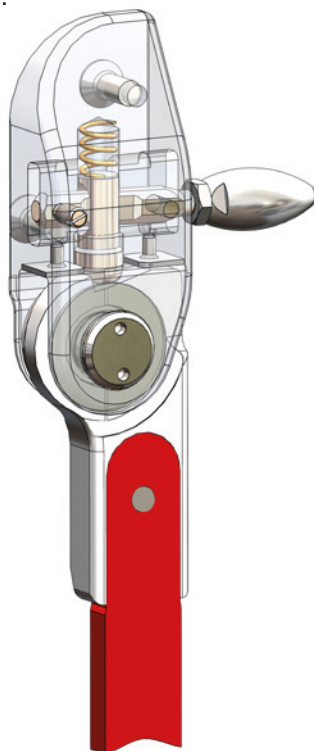
Donning Aid Rudi

Extensor-	Dynamic-	Move-
22, 25-Plus	-	25
28, 30, 30-Plus	28, 30, 32, 36	28, 30, 32, 36
34	-	40

HKAFO Hip Joints in Comparison



The specific nature of a disorder and the intended use of the orthosis are decisive factors when determining the appropriate movement limitations for our Fokus hip joints. The highest priority is ensuring patients retain as much mobility and range of motion as possible. Pelvic rotation (3D, 2D) plays the most important role in achieving an energy-efficient gait. Allowing free abduction (3D) can enhance security and versatility in standing, walking, and sitting. We distinguish between two locking mechanisms: lever and pre-select. The Fokus system is unlocked using a lever, which automatically locks when the hip is extended. The Modos system, with its pre-selected push buttons, allows the user to choose between unlocked and locked positions. When the locking mode is activated, the joint automatically engages as soon as the hip is extended.



Fokus-3D

Locking Mechanism
Unlocked (maintained)
Adduction
Abduction
Internal / External Rotation
Flexion when locked
Flexion when unlocked
Extension

Lever
 no
 blocked
 free
 free to 12° (24° total)
 12° stop (can be increased)
 free to 130°
 up to 6°

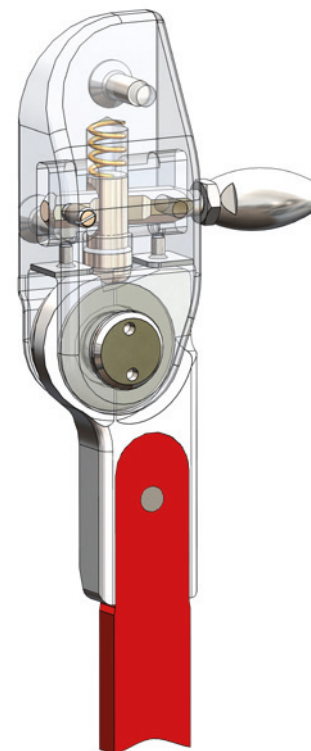
► more on pages 170/171



Modos-3D

Pre-Select
 Push button (unlocked)
 blocked
 free
 free to 12° (24° total)
 12° stop (can be increased)
 free to 130°
 up to 6°

► more on page 164/165



Fokus-2D

Lever
 no
 blocked
 blocked
 free to 12° (24° total)
 12° stop (can be increased)
 free to 130°
 up to 6°

► more on page 172/173

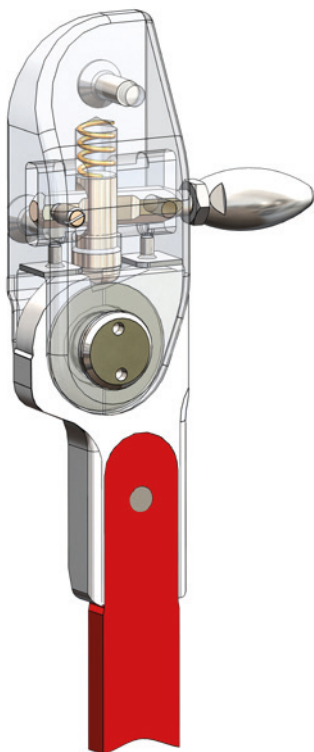


Modos-2D

Pre-Select
 Push button (unlocked)
 blocked
 blocked
 free to 12° (24° total)
 12° stop (can be increased)
 free to 130°
 up to 6°

► more on page 166/167

Hip joints that only permit movement in flexion and extension (1D) are used in cases of restricted mobility, postoperatively, or in orthoses involving only one hip, among others. If no flexion stop is required, the free Liber joint can be used.

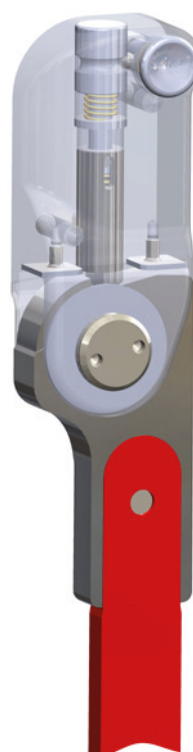


Fokus-1D

Locking Mechanism
Unlocked (maintained)
Adduction
Abduction
Internal / External Rotation
Flexion when locked
Flexion when unlocked
Extension

Lever
 no
 blocked
 blocked
 blocked
 12° stop (can be increased)
 free to 90° (can be increased)
 up to 6°

► more on page 174/175



Modos-1D

Pre-Select
 Push button (unlocked)
 blocked
 blocked
 blocked
 12° stop (can be increased)
 free to 90° (can be increased)
 up to 6°

► more on page 168/169



Liber

no
 no
 blocked
 blocked
 blocked
 no
 always, up to 140°
 up to 0°

► more on page 88/89

HKAFO Custom Fabricated Pelvic Connection

The pelvic band is essential for the stability of the pelvic section and maintaining alignment of the joints. For customers who prefer not to bend the high-strength aluminum themselves, we offer this custom service (use order suffix “-AG”).



Your outline should be taken over top of any trunk padding.

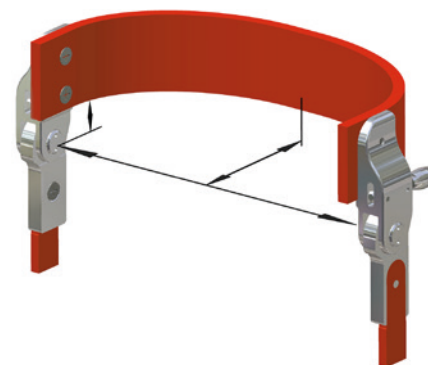
We strive for exact duplication of your measurements within a +/- 2 mm tolerance.

Please indicate the right and left sides of the outline.

As seen from the patient's perspective.

The outline is taken 2.5 cm above the hip joint placement.

The distal edge of the pelvic band sits here.



Please inform us if any hip contractures are present.

We can adjust the pelvic band accordingly.

The pelvic band is delivered parallel and without holes.

You still have the possibility to make adjustments to the hip joint positioning.

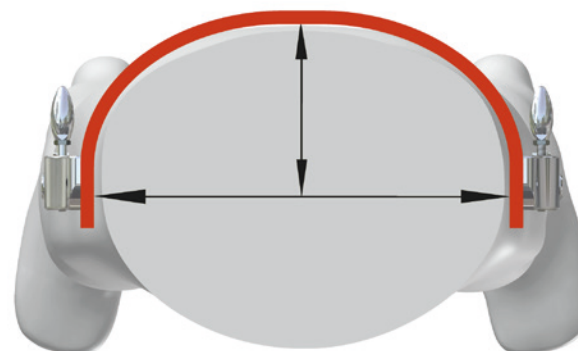
Your custom order is shipped within 5 workdays.

If wished, the hip joints can be sent in advance of the pelvic band.

The pelvic connection must be additionally reinforced

during the lamination process, for example with carbon fiber tubing.

We are happy to assist you with advice on this matter.



Pelvic Band for **Modos or Fokus** Hip Joints
Custom Bent

Functional Overview HKAFO Hip Joints

Motion-limiting hip joints for HKAFOs are indicated for use in patients with lesions at levels L3 to L5, or for other conditions that necessitate hip stabilization. Here, we distinguish between three variants: 1D, 2D, and 3D. 1D joints permit motion in flexion/extension only; 2D joints add a pelvic rotation component for increased step length; 3D hip joints include abduction. Modos hip joints use a pre-selected push-button system for unlocking. The Fokus system is unlocked for sitting via a lever, which can be mounted at the front or the back. Stabilization of the pelvis is achieved via a pelvic band, which we can custom fabricate to your specifications (order suffix "AG").



Orthosis	Partially Restricted	Locking Mechanism	1D		2D		3D	and Adduction	
			Extension	Flexion	Step Length	+ Pelvic Rotation	Abduction		
									 Modos-3-D Pages 164-165
									 Modos-2-D Pages 166-167
									 Modos-1-D Pages 168-169
									 Fokus-3-D Pages 170-171
									 Fokus-2-D Pages 172-173
									 Fokus-1-D Pages 174-175

An HKAFO without mobility in the ankle joint restricts the wearer's freedom in several important aspects. Stance stability is affected, as slight forward and backward movements of the trunk are transmitted directly through the orthosis to the ground. Absence of movement in the ankle during walking results in a shortened step length, increasing energy expenditure, and thereby reducing endurance.

Modos 3D Hip Joint



Features

Sizes available for **small to large** patients

+ **Locking button** preloads the lock; engages automatically on extension.

+ **Unlocking button** pre-selects release; hip extension relieves pin tension and unlocks joint for sitting

+ **Pre-Selected** locking mechanism with 2-stage opening and closing

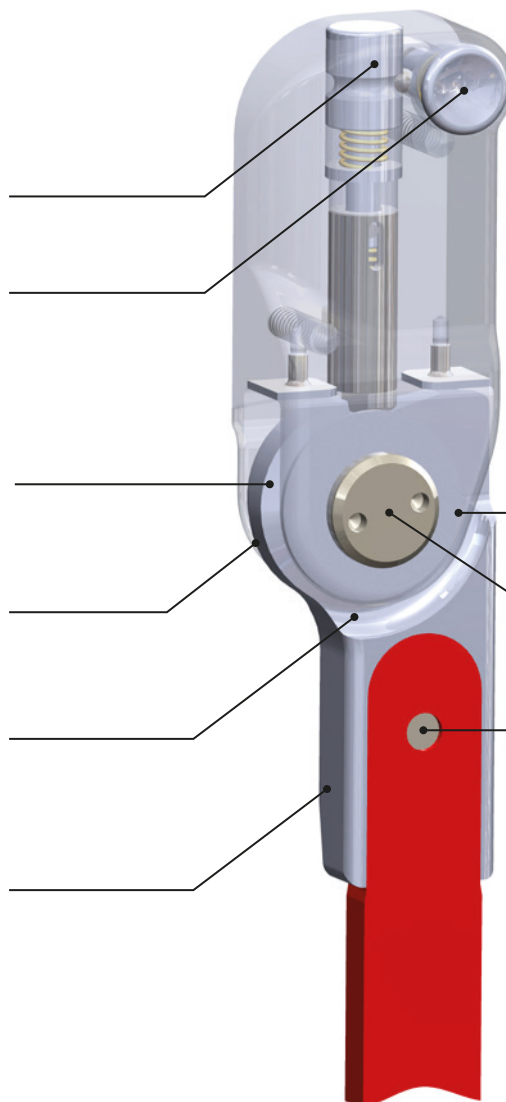
+ **Adduction is blocked.** 12° flexion stop can be increased as required for step length.

+ **Pelvic rotation** for efficient and energy saving gait. Joint axis permits **12° of internal and 12° of external rotation** independent of flexion/extension

+ **12° of abduction** increases stance stability and makes sitting more comfortable

Joint flexes **to 130°** when unlocked for sitting

Lower section made of high-strength, **hardened steel**



Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Secure and adjustable connection to pelvic band

Upper section fabricated from **high-strength aluminium**

High-strength steel washers for smooth operation free of play

Maintenance-free, high-strength steel joint assembly with self-lubricating bearing

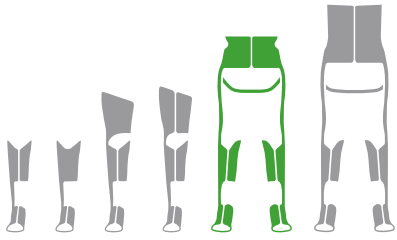
Machined upright and offset connection ensure **optimal transfer of force**

Unrivalled **20-month guarantee**

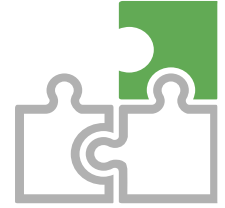
Engraved **serial number** for traceability

Clearly illustrated instructions for use

Fig. left



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

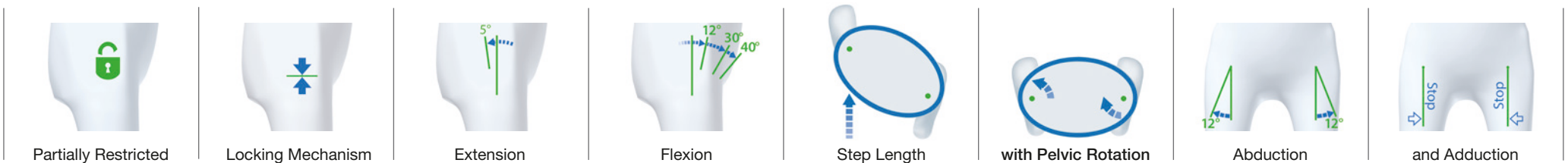
Article No.	Article No.	HKAFO
Modos-3D-klein	Modos-3D-AG-klein	up to 20 kg
Modos-3D-klein-Plus	Modos-3D-AG-klein-Plus	up to 30 kg
Modos-3D-mittel	Modos-3D-AG-mittel	not yet available
Modos-3D-groß	Modos-3D-AG-groß	not yet available

AG = custom fabricated



Joint

Width	Thickness	Height
32,5 mm	23,0 mm	112,5 mm
32,5 mm	23,0 mm	114,0 mm
-	-	-
-	-	-



Modos 2D Hip Joint



Features

Sizes available for **small to large** patients

+ **Locking button** preloads the lock; engages automatically on extension.

+ **Unlocking button** pre-selects release; hip extension relieves pin tension and unlocks joint for sitting

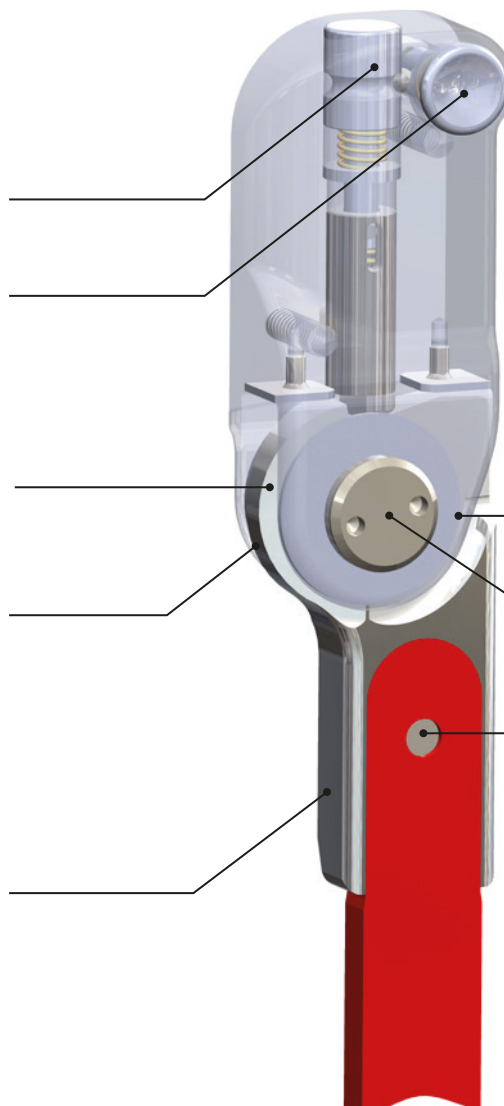
+ **Pre-Selected** locking mechanism with 2-stage opening and closing

+ **Adduction and adduction is blocked.**
12° flexion stop can be increased as required for step length.

+ **Pelvic rotation** for efficient and energy saving gait.
Joint axis permits **12° of internal and 12° of external rotation** independent of flexion/extension

Joint flexes **to 130°** when unlocked for sitting

Lower section made of high-strength, **hardened steel**



Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Secure and adjustable connection to pelvic band

Upper section fabricated from **high-strength aluminium**

High-strength steel washers for smooth operation free of play

Maintenance-free, high-strength steel joint assembly with self-lubricating bearing

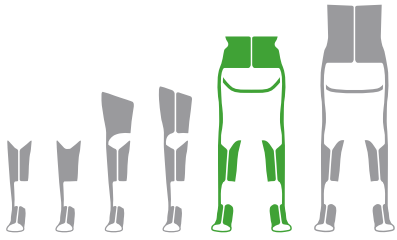
Machined upright and offset connection ensure **optimal transfer of force**

Unrivalled **20-month guarantee**

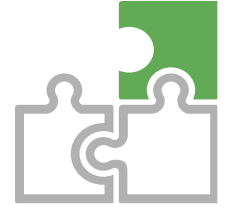
Engraved **serial number** for traceability

Clearly illustrated instructions for use

Fig. left



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No.	Article No.	HKAFO
Modos-2D-klein	Modos-2D-AG-klein	up to 20 kg
Modos-2D-klein-Plus	Modos-2D-AG-klein-Plus	up to 30 kg
Modos-2D-mittel	Modos-2D-AG-mittel	not yet available
Modos-2D-groß	Modos-2D-AG-groß	not yet available

AG = custom fabricated



Joint

Width	Thickness	Height
32,5 mm	23,0 mm	112,5 mm
32,5 mm	23,0 mm	114,0 mm
-	-	-
-	-	-



Partially Restricted



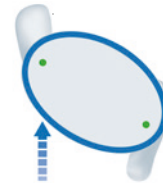
Locking Mechanism



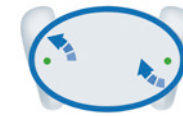
Extension



Flexion



Step Length



with Pelvic Rotation

Abduction



and Adduction

Modos 1D Hip Joint



Features

Sizes available for **small to large** patients

+ **Locking button** preloads the lock; engages automatically on extension.

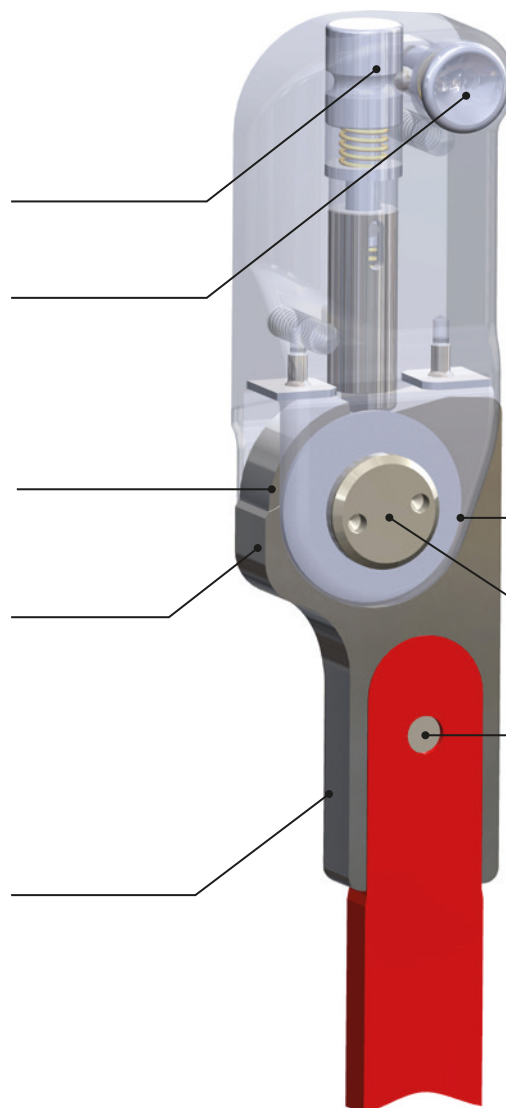
+ **Unlocking button** pre-selects release; hip extension relieves pin tension and unlocks joint for sitting

+ **Pre-Selected** locking mechanism with 2-stage opening and closing

+ **Adduction and adduction is blocked.**
12° flexion stop can be increased as required for step length.

+ **Joint flexes to 90°** when unlocked for sitting; **can be increased**

Lower section made of high-strength, **hardened steel**



Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Secure and adjustable connection to pelvic band

Upper section fabricated from **high-strength aluminium**

High-strength steel washers for smooth operation free of play

Maintenance-free, high-strength steel joint assembly with self-lubricating bearing

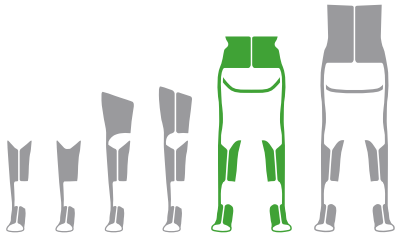
Machined upright and offset connection ensure **optimal transfer of force**

Unrivalled **20-month guarantee**

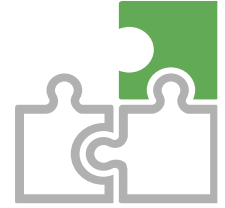
Engraved **serial number** for traceability

Clearly illustrated instructions for use

Fig. left



We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No.	Article No.	HKAFO
Modos-1D-klein	Modos-1D-AG-klein	up to 20 kg
Modos-1D-klein-Plus	Modos-1D-AG-klein-Plus	up to 30 kg
Modos-1D-mittel	Modos-1D-AG-mittel	not yet available
Modos-1D-groß	Modos-1D-AG-groß	not yet available

AG = custom fabricated



Joint

Width	Thickness	Height
32,5 mm	23,0 mm	112,5 mm
32,5 mm	23,0 mm	114,0 mm
-	-	-
-	-	-



Partially Restricted



Locking Mechanism



Extension



Flexion

Step Length

with Pelvic Rotation

Abduction



and Adduction

Fokus 3D Hip Joint



Features

Sizes available for **infants to large** patients

Upper section fabricated from **high-strength aluminium**

Joint flexes to **130°** when unlocked for sitting

+ **Adduction is blocked**. 12° flexion stop can be increased as required for step length

+ **Pelvic rotation** for efficient and energy saving gait. Joint axis permits **12° of internal and 12° of external rotation** independent of flexion/extension

+ **12° of abduction** increases stance stability and makes sitting more comfortable

+ Lower section made of high-strength, **hardened steel**

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Secure and adjustable connection to pelvic band

Unlocking lever can be installed on **either side** of the joint. Spring-loaded mechanism locks automatically when the hip is extended

High-strength steel washers for smooth operation free of play

Maintenance-free, high-strength steel joint assembly with self-lubricating bearing

Machined upright and offset connection ensure **optimal transfer of force**

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

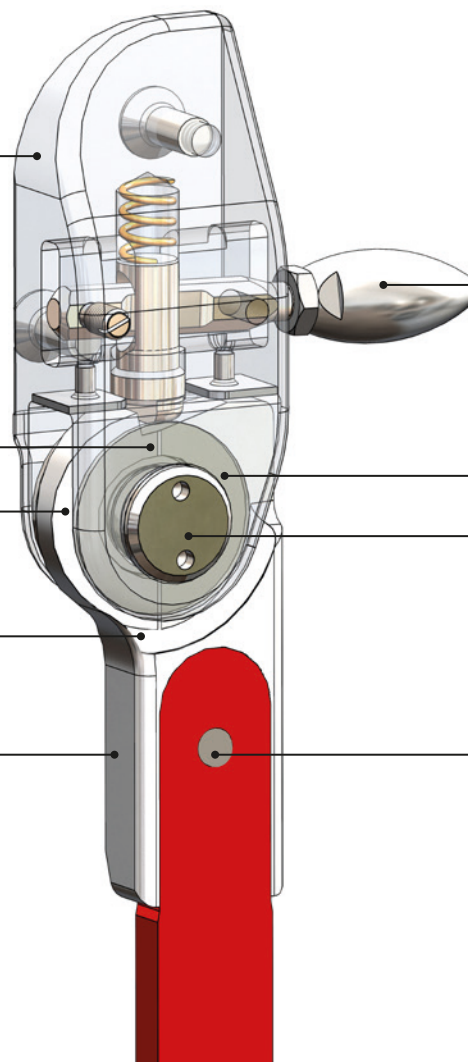
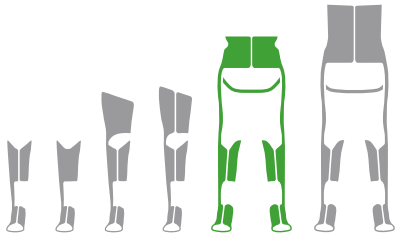
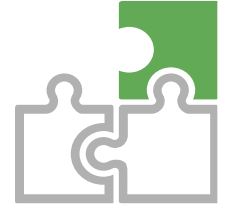


Fig. left

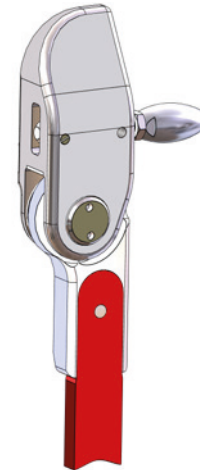


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No.	Article No.	HKAFO	Joint		
			Width	Thickness	Height
Fokus-3D-infant	Fokus-3D-AG-infant	up to 15 kg	25 mm	20,0 mm	94,0 mm
Fokus-3D-klein	Fokus-3D-AG-klein	up to 20 kg	30 mm	23,0 mm	112,5 mm
Fokus-3D-klein-Plus	Fokus-3D-AG-klein-Plus	up to 30 kg	30 mm	23,0 mm	114,0 mm
Fokus-3D-mittel	Fokus-3D-AG-mittel	up to 40 kg	36 mm	29,0 mm	127,5 mm
Fokus-3D-groß	Fokus-3D-AG-groß	up to 60 kg	36 mm	29,0 mm	127,5 mm
Fokus-3D-ex-groß	Fokus-3D-AG-ex-groß	up to 85 kg	45 mm	36,0 mm	151,0 mm



AG = custom fabricated



Partially Restricted



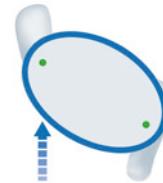
Locking Mechanism



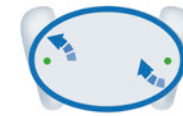
Extension



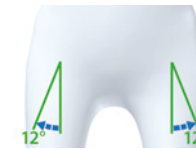
Flexion



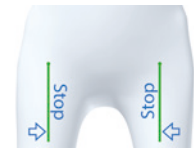
Step Length



with Pelvic Rotation



Abduction



and Adduction

Fokus 2D Hip Joint

Features

Sizes available for **infants to large** patients

Upper section fabricated from **high-strength aluminium**

+ **Abduction and adduction blocked.** 12° flexion stop can be increased as required for step length

Joint flexes to **130°** when unlocked for sitting

+ **Pelvic rotation** for efficient and energy saving gait. Joint axis permits **12° of internal and 12° of external rotation** independent of flexion/extension

+ Lower section made of high-strength, **hardened steel**

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Secure and adjustable connection to pelvic band

Unlocking lever can be installed on **either side** of the joint. Spring-loaded mechanism locks automatically when the hip is extended

High-strength steel washers for smooth operation free of play

Maintenance-free, high-strength steel joint assembly with self-lubricating bearing

Machined upright and offset connection ensure **optimal transfer of force**

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

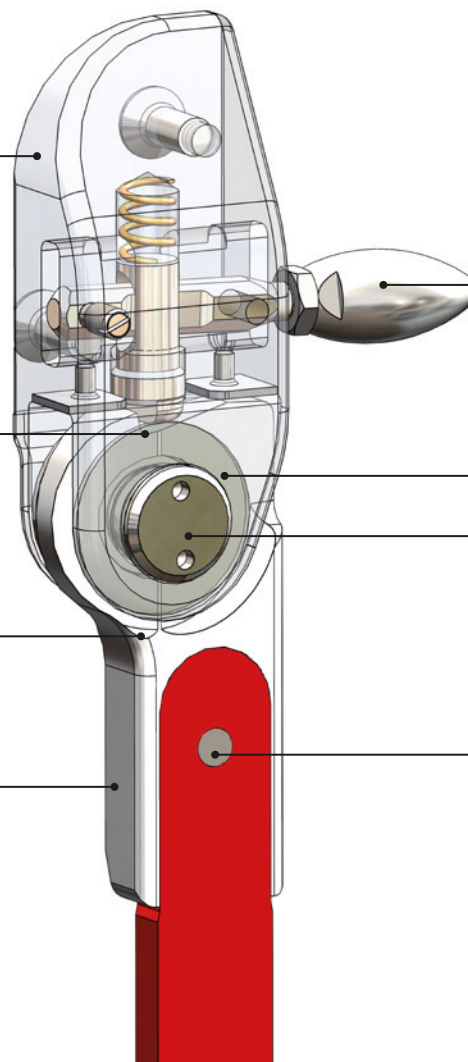
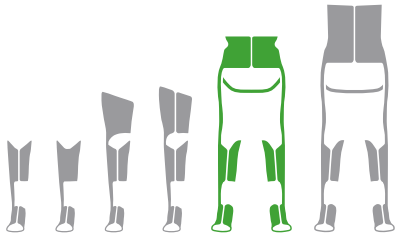
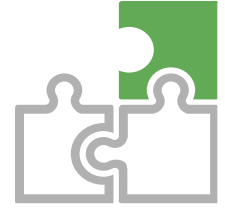


Fig. left

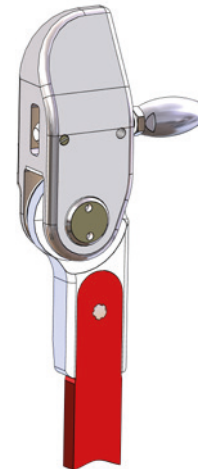


We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No.	Article No.	HKAFO	Joint		
			Width	Thickness	Height
Fokus-2D-infant	Fokus-2D-AG-infant	up to 15 kg	25 mm	20,0 mm	94,0 mm
Fokus-2D-klein	Fokus-2D-AG-klein	up to 20 kg	30 mm	23,0 mm	112,5 mm
Fokus-2D-klein-Plus	Fokus-2D-AG-klein-Plus	up to 30 kg	30 mm	23,0 mm	114,0 mm
Fokus-2D-mittel	Fokus-2D-AG-mittel	up to 40 kg	36 mm	29,0 mm	127,5 mm
Fokus-2D-groß	Fokus-2D-AG-groß	up to 60 kg	36 mm	29,0 mm	127,5 mm
Fokus-2D-ex-groß	Fokus-2D-AG-ex-groß	up to 85 kg	45 mm	36,0 mm	151,0 mm



AG = custom fabricated



Partially Restricted



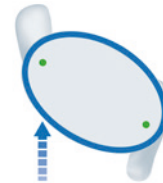
Locking Mechanism



Extension



Flexion



Step Length



with Pelvic Rotation

Abduction



and Adduction

Fokus 1D Hip Joint



Features

Sizes available for **infants to large** patients

Upper section fabricated from **high-strength aluminium**

+ **Abduction and adduction blocked.** 12° flexion stop
can be increased as required for step length

+ **Joint flexes** to 90° when unlocked
for sitting (**can be increased**)

+ Lower section made of high-strength, **hardened steel**

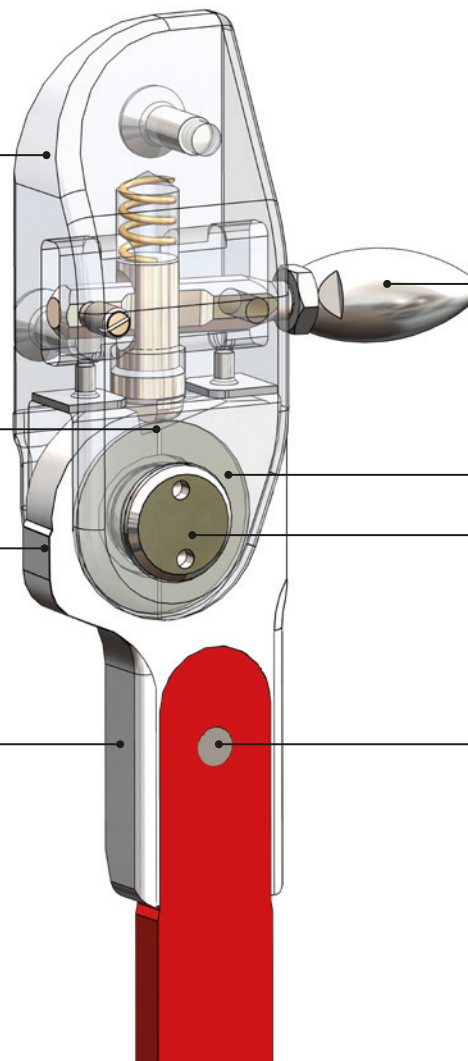


Fig. left

Standard

Fully assembled for clear cost estimates
and uncomplicated ordering

Secure and adjustable connection to pelvic band

Unlocking lever can be installed on **either side** of the joint.
Spring-loaded mechanism locks automatically when the
hip is extended

Precise assembly calibrated to 1/100mm with
self-lubricating washers for smooth operation free of play

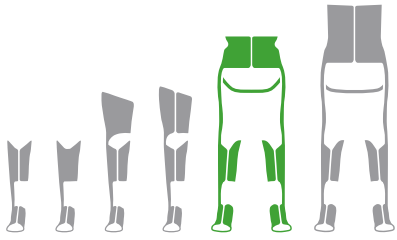
Maintenance-free, stainless steel joint assembly

Machined upright and offset connection
ensure **optimal transfer of force**

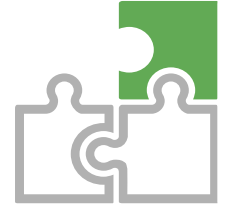
Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use



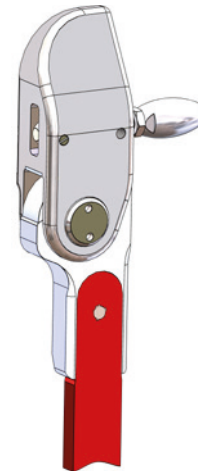
We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No.	Article No.	HKAFO
Fokus-1D-infant	Fokus-1D-AG-infant	up to 15 kg
Fokus-1D-klein	Fokus-1D-AG-klein	up to 20 kg
Fokus-1D-klein-Plus	Fokus-1D-AG-klein-Plus	up to 30 kg
Fokus-1D-mittel	Fokus-1D-AG-mittel	up to 40 kg
Fokus-1D-groß	Fokus-1D-AG-groß	up to 60 kg
Fokus-1D-ex-groß	Fokus-1D-AG-ex-groß	up to 85 kg

AG = custom fabricated



Joint		
Width	Thickness	Height
25 mm	20,0 mm	94,0 mm
30 mm	23,0 mm	112,5 mm
30 mm	23,0 mm	114,0 mm
36 mm	29,0 mm	127,5 mm
36 mm	29,0 mm	127,5 mm
45 mm	36,0 mm	151,0 mm



Partially Restricted



Locking Mechanism



Extension



Flexion

Step Length

with Pelvic Rotation

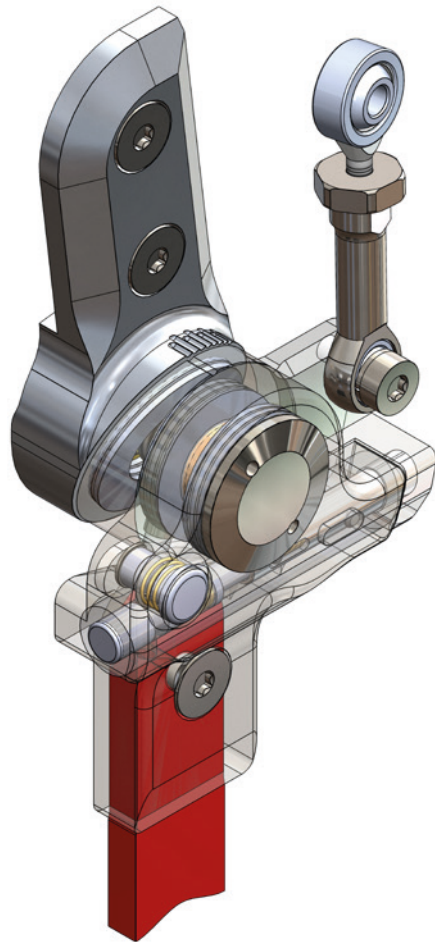
Abduction



and Adduction

Reciprocating 2D Hip Joints in Comparison

Pelvic rotation plays a key role in achieving an energy-efficient gait in humans. It reduces energy expenditure by facilitating efficient transfer of kinetic energy. Greater step length requires increased pelvic rotation; however, maximum step length is not always the deciding factor in joint selection. In some cases, a slimmer profile orthotic design may be preferable, for example for wheelchair use. To accommodate these differing requirements, we offer two distinct joint options, compared below.



Buran-2D

For patients **25 to 85 kg**

Joint thickness **37,5 mm**

Adjustable connectors

Separate sitting and walking axes

Maximal pelvic rotation

► More on pages 186 - 187

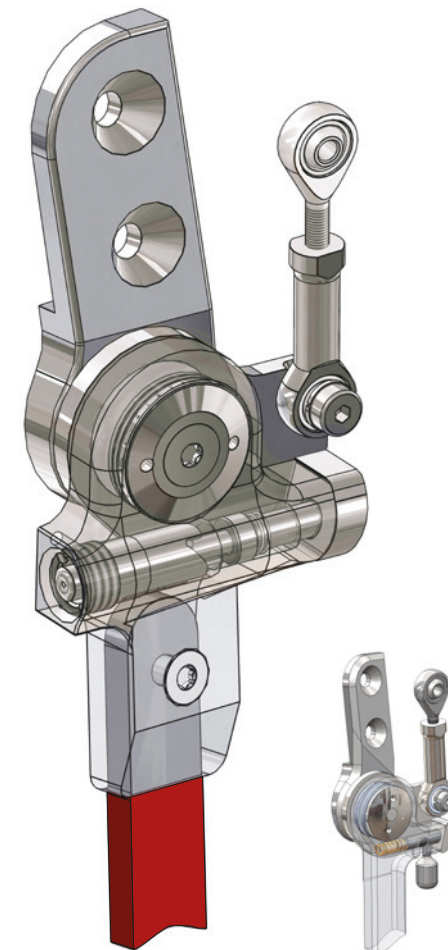
Revo-2D

For patients **10 to 85 kg**

Joint thickness **32 mm**

Standard pelvic rotation

► More on pages 188 - 189



Functional Overview RGO Hip Joints

Reciprocating hip joints are generally indicated for use in patients with lesions at levels TH-5 to L-3, or for other conditions requiring reciprocal joint guidance. Here we distinguish between two different variants: one or two dimensional (1-D or 2-D). Conventional 1-D joints provide movement in flexion /extension, while 2-D hip joints add a pelvic rotation component for improved, smoother walking. Safety lock uses a pre-select mechanism which prevents unwanted opening of the joint. Stabilization and motion transmission take place via a rocker bar mechanism, which we can custom fabricate according to your specifications (model "AG").

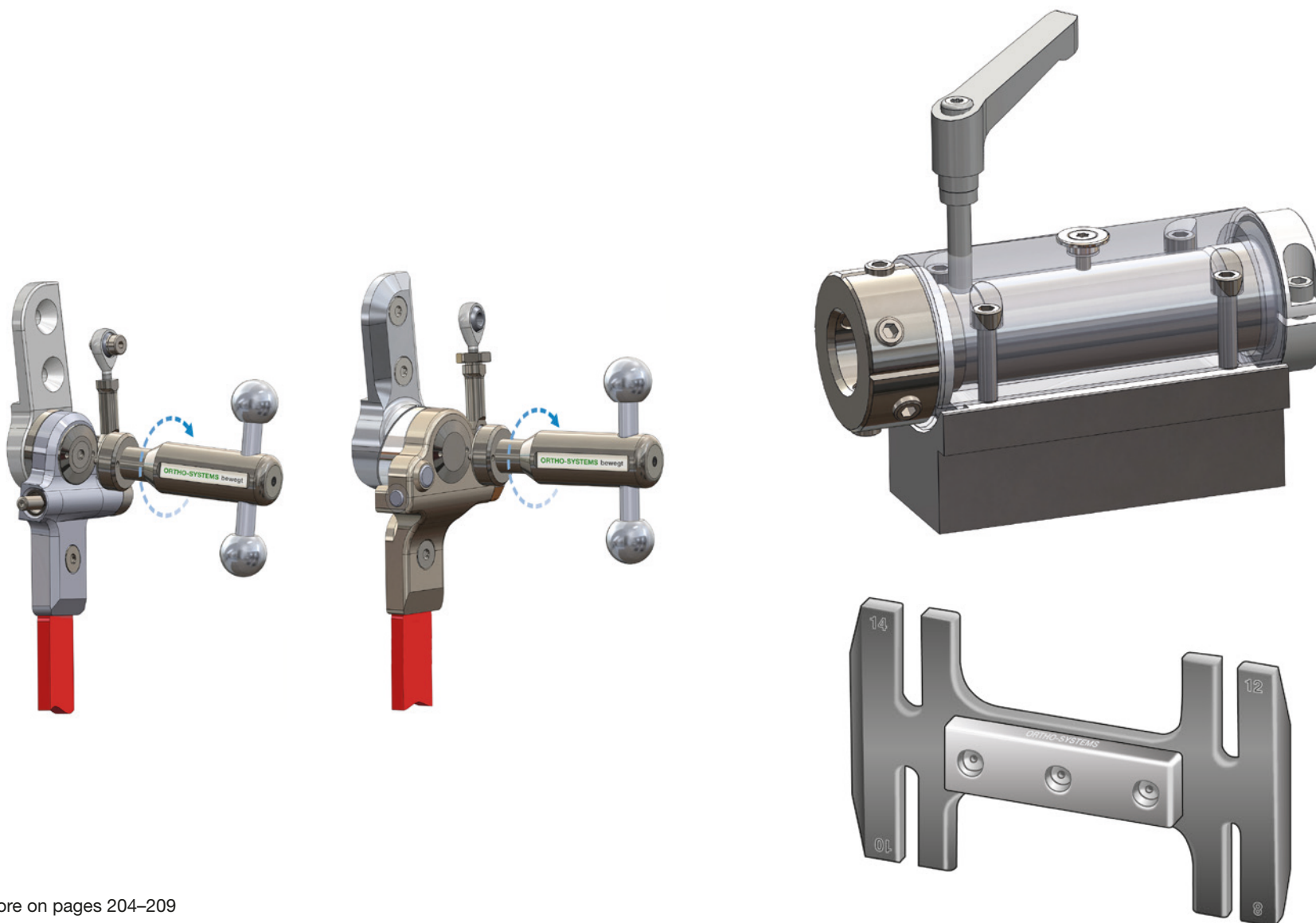


Orthosis	Locked	Locking Mechanism	1D		2D		Ab / Adduction	No Grinding Necessary	
			Extension	Flexion	Step Length	+ Pelvic Rotation			
									Buran-2-D Pages 186 - 187
									Revo-2-D Pages 188 - 189
									Revo-1-D Pages 190 - 191

An RGO without mobility in the ankle joint restricts the wearer's freedom in several important aspects. Stance stability is affected, as slight forward and backward movements of the trunk are transmitted directly through the orthosis to the ground. Absence of movement in the ankle during walking results in a shortened step length, increasing energy expenditure, and thereby reducing endurance.

Assembly and Workshop Tools

Precision tools for secure, accurate, and efficient assembly of our orthotic joints



► Read more on pages 204–209

RGO Custom Fabricated Pelvic Connection

The rocker bar mechanism is essential for the stability of the pelvic section and maintaining alignment of the joints. For customers who prefer not to bend the high-strength aluminum themselves, we offer this custom service (use order suffix “-AG”).



Your outline should be taken over top of any trunk padding.

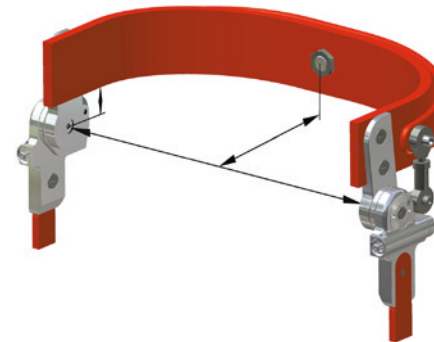
We strive for exact duplication of your measurements within a +/- 2 mm tolerance.

Please indicate the right and left sides of the outline.

As seen from the patient's perspective.

The outline is taken 2.5 cm above the hip joint placement.

The distal edge of the pelvic band sits here.



Please inform us if any hip contractures are present.

We can adjust the pelvic band accordingly.

The pelvic band is delivered parallel and without holes.

You still have the possibility to make adjustments to the hip joint positioning.

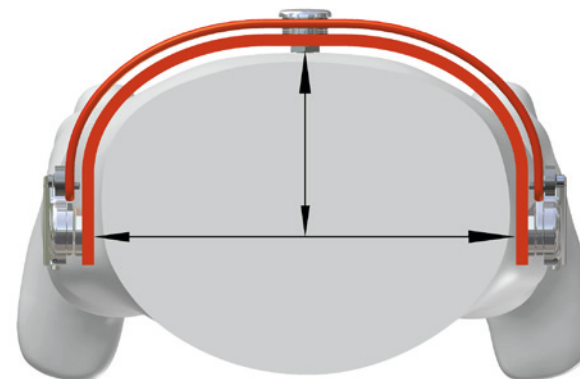
Your custom order is shipped within 5 workdays.

If wished, the hip joints can be sent in advance of the pelvic band.

The pelvic connection must be additionally reinforced

during the lamination process, for example with carbon fiber tubing.

We are happy to assist you with advice on this matter.



Rocker Bar Mechanism for **Buran** and **Revo** Hip Joints
Custom Bent

Buran-2D Hip Joint



Features

Sizes available for **small to large** patients

Fabricated from **high-strength aluminium**

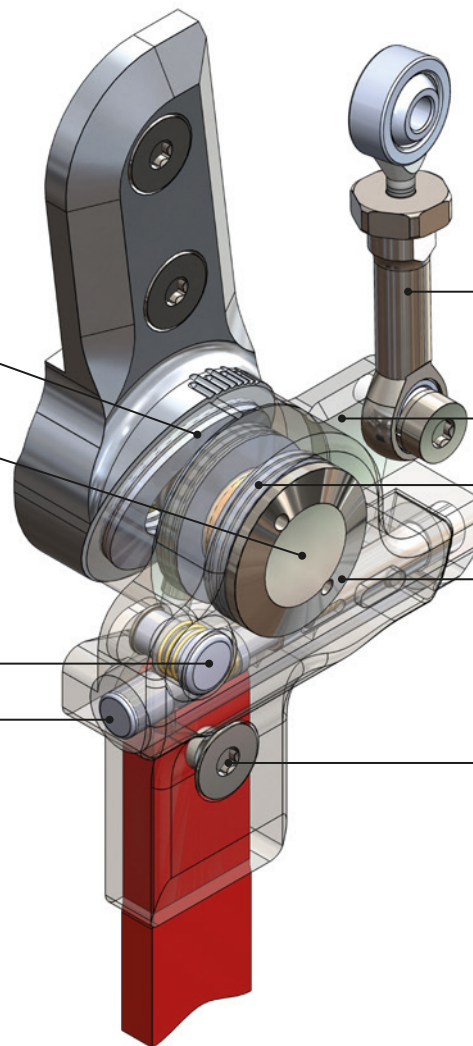
+ **Pelvic rotation** for efficient and energy saving gait.
Joint axis is tilted **20° from vertical**

+ **Independent sitting axis** runs horizontally
and allows up to **155° flexion**

+ **Pre-selected locking mechanism**
with 2-stage opening and closing

+ **Unlocking button** pre-selects release;
hip extension relieves pin tension and
unlocks joint for sitting

+ To stand up, joints are placed in the **locked position**
and **automatically** snap into place upon full hip extension



Standard

Fully assembled for clear cost estimates
and uncomplicated ordering

Secure and adjustable connection to pelvic band

Movement is transferred via **adjustable connectors** and
rocker bar mechanism to the contralateral side, enabling
reciprocal gait.

Rigid stainless steel connecting plate cannot be bent

Long-life thrust bearings for smooth operation free of play

Maintenance-free stainless steel joint assembly
with bronze bushing

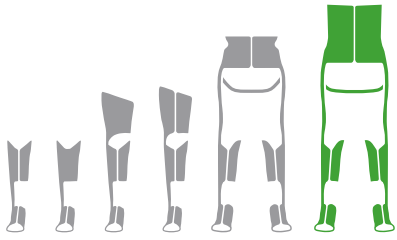
Machined upright and offset connection ensure
optimal transfer of force

Unrivalled **20-month guarantee**

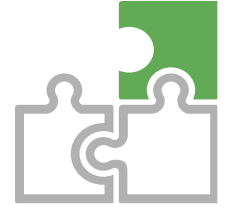
Engraved **serial number** for traceability

Clearly illustrated instructions for use

Fig. left



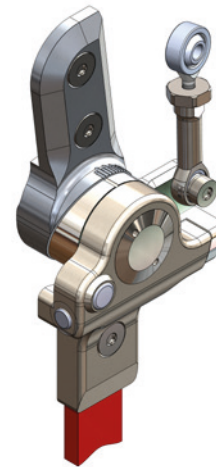
We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No.	Article No.	RGO
Buran-2D-klein	Buran-2D-AG-klein	up to 25 kg
Buran-2D-mittel	Buran-2D-AG-mittel	up to 50 kg
Buran-2D-groß	Buran-2D-AG-groß	up to 65 kg
Buran-2D-ex-groß	Buran-2D-AG-ex-groß	up to 85 kg

AG = custom fabricated



Joint		
Width	Thickness	Height
36 mm	37,5 mm	131,5 mm
36 mm	37,5 mm	138,5 mm
36 mm	37,5 mm	138,5 mm
36 mm	37,5 mm	144,5 mm



Locked



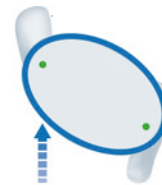
Locking Mechanism



Extension



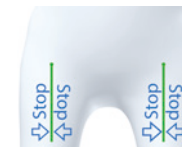
Flexion



Step Length



with Pelvic Rotation



Ab / Adduction



No Grinding
Necessary

Revo-2D Hip Joint



Features

Sizes available for **infants to large** patients

Fabricated from **high-strength aluminium**

+ **Pelvic rotation** (increased step length) for efficient and energy-saving gait via the inclined orientation of the sitting and walking axis. 5° for size small and 7° for all other sizes.

+ **Pre-selected locking mechanism** with 2-stage opening and closing

+ **Push button** unlocks joints, which open when hips are fully extended and tension on the locking pins relieved

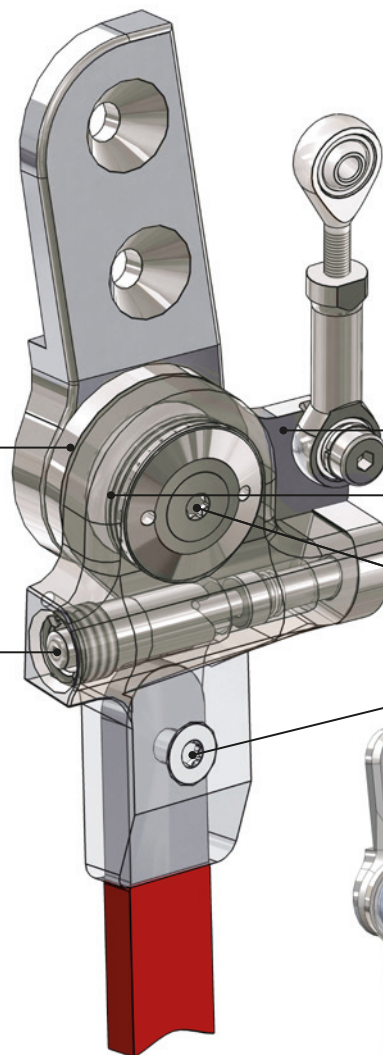


Fig. left

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Secure and adjustable connection to pelvic band

Movement is transferred via connectors and rocker bar mechanism to the contralateral side, enabling **reciprocal gait**.

Rigid stainless steel connecting plate cannot be bent

Long-life thrust bearings for smooth operation free of play

Maintenance-free high-strength steel joint assembly with brass bushing

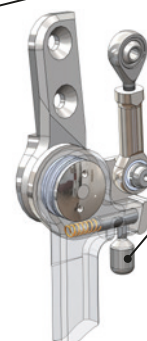
Machined upright and offset connection ensure **optimal transfer of force**

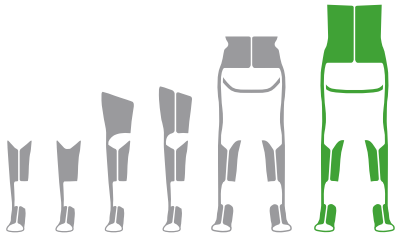
+ **Revo-infant** uses a **lever mechanism** for added security with smaller patients

Unrivalled **20-month guarantee**

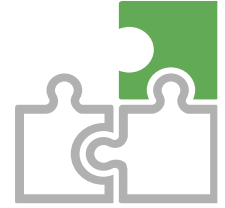
Engraved **serial number** for traceability

Clearly illustrated instructions for use





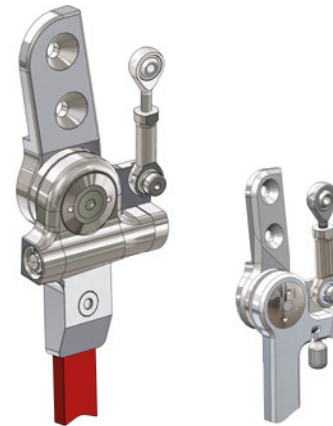
We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No.	Article No.	RGD
Revo-2D-infant	Revo-2D-AG-infant	up to 15 kg
Revo-2D-klein	Revo-2D-AG-klein	up to 25 kg
Revo-2D-mittel	Revo-2D-AG-mittel	up to 50 kg
Revo-2D-groß	Revo-2D-AG-groß	up to 65 kg
Revo-2D-ex-groß	Revo-2D-AG-ex-groß	up to 85 kg

AG = custom fabricated



Revo-klein to ex-groß Revo-infant

Joint		
Width	Thickness	Height
28 mm	23,0 mm	91,0 mm
35 mm	28,0 mm	134,0 mm
35 mm	28,0 mm	142,0 mm
35 mm	32,0 mm	142,0 mm
35 mm	32,0 mm	144,0 mm



Revo-1D Hip Joint



Features

Sizes available for **infants to large** patients

Fabricated from **high-strength aluminium**

+ **Pre-selected locking mechanism**
with 2-stage opening and closing

+ **Push button** unlocks joints, which open when hips are fully extended and tension on the locking pins relieved. To stand up, joints are placed in the locked position and automatically snap into place upon full hip extension

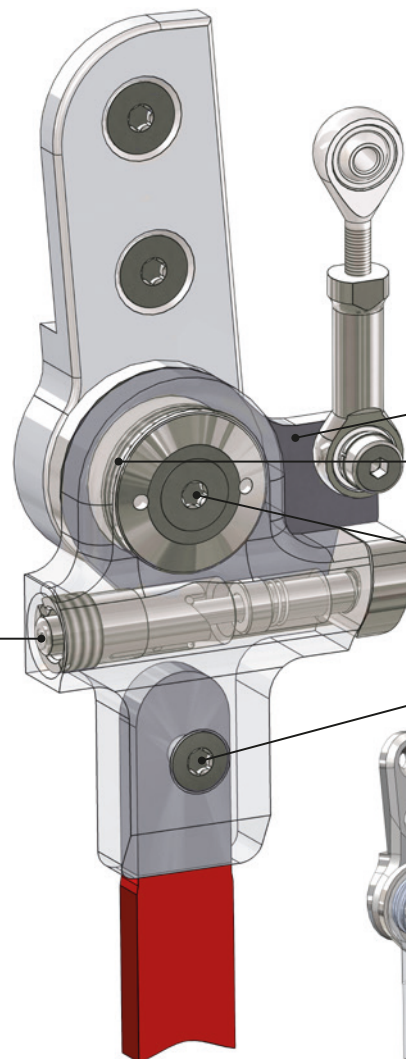


Fig. left

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

Secure and adjustable connection to pelvic band

Movement is transferred via connectors and rocker bar mechanism to the contralateral side, enabling **reciprocal gait**.

Rigid stainless steel connecting plate cannot be bent

Long-life thrust bearings for smooth operation free of play

Maintenance-free, high-strength steel joint assembly with brass bushing

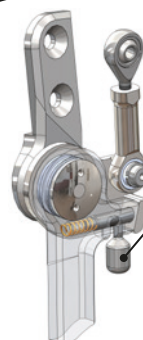
Machined upright and offset connection ensure **optimal transfer of force**

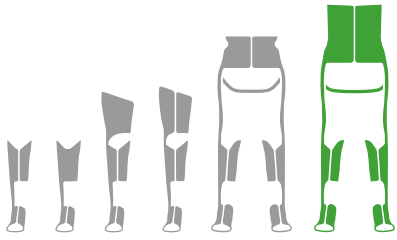
+ **Revo-infant** uses a **lever mechanism** for added security with smaller patients

Unrivalled **20-month guarantee**

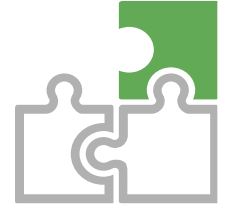
Engraved **serial number** for traceability

Clearly illustrated instructions for use





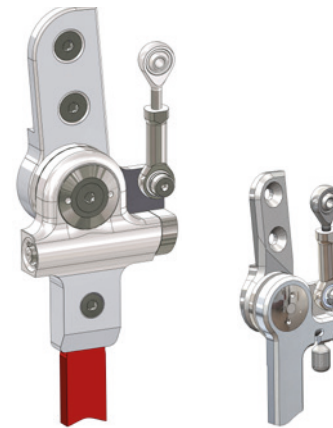
We recommend using our configurator to make your selection.
The configurator considers, among other factors, weight to height ratios.



Weight Classification (body weight)

Article No.	Article No.	RGD
Revo-1D-infant	Revo-1D-AG-infant	up to 15 kg
Revo-1D-klein	Revo-1D-AG-klein	up to 25 kg
Revo-1D-mittel	Revo-1D-AG-mittel	up to 50 kg
Revo-1D-groß	Revo-1D-AG-groß	up to 65 kg
Revo-1D-ex-groß	Revo-1D-AG-ex-groß	up to 85 kg

AG = custom fabricated



Revo-klein to ex-groß Revo-infant

Joint		
Width	Thickness	Length
28 mm	23,0 mm	91,0 mm
35 mm	28,0 mm	134,0 mm
35 mm	28,0 mm	142,0 mm
35 mm	32,0 mm	142,0 mm
35 mm	32,0 mm	144,0 mm



Locked



Locking Mechanism



Extension



Flexion

Step Length

with Pelvic Rotation



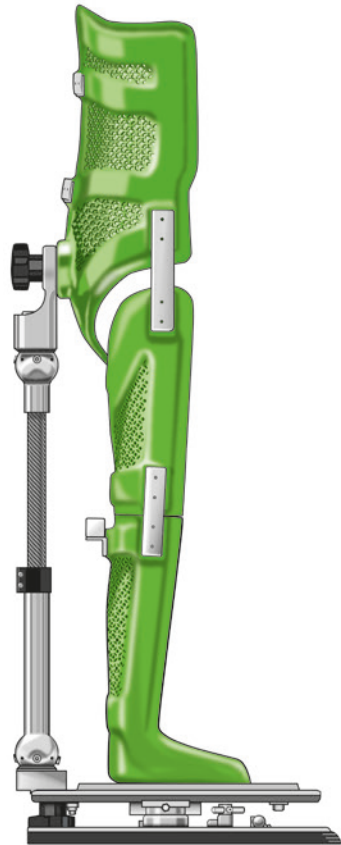
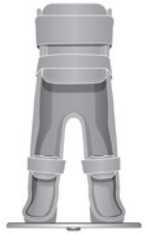
Ab/Adduction



No Grinding
Necessary

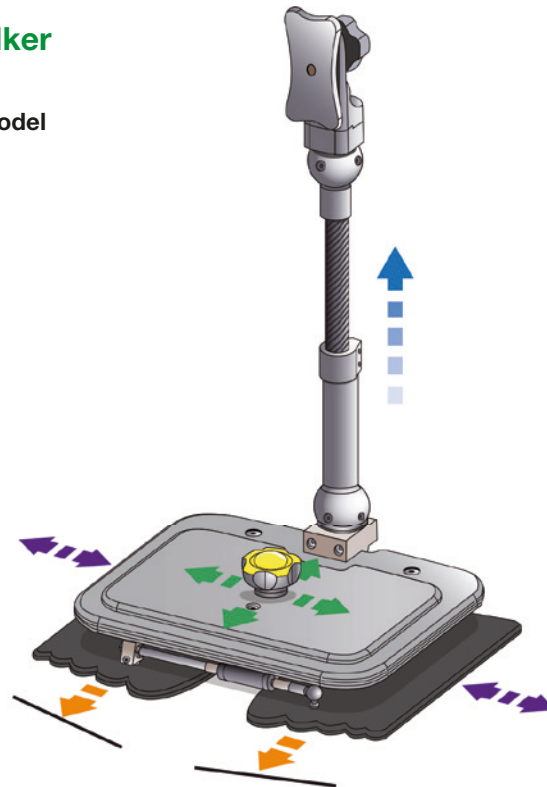
Walking Podiums in Comparison

Custom-Fabricated Body Shell: Precise support and alignment of the foot and ankle joints are essential for correct positioning of the knee and hip joints. Individually tailored to each user, the body shell addresses primary deformities using the three-point pressure principle, thereby proactively countering potential secondary deformities. Custom alignment, designed to meet the specific needs of the patient, ensures correct positioning of the head.



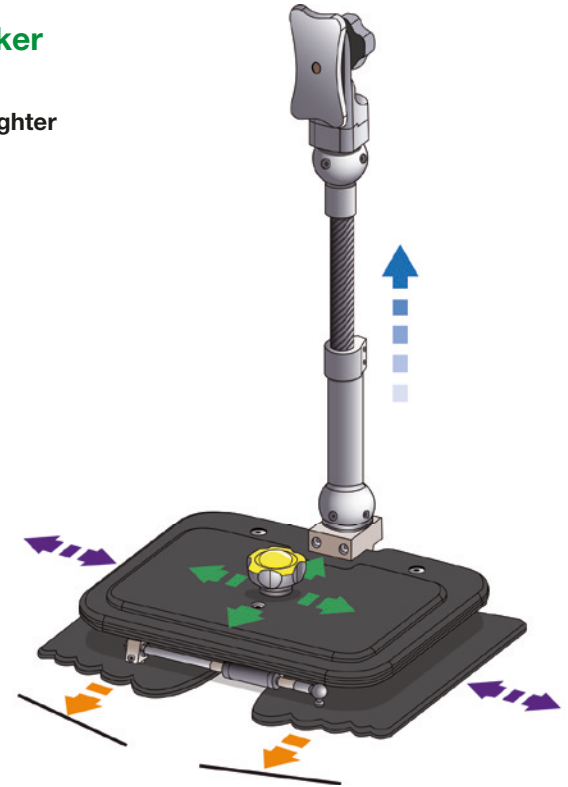
Foot-Walker

Standard Model



Leicht-Walker

Approx. 30% lighter



Functional Overview Walking Podiums

Podiums are combined with an individual, custom-fabricated body shell to form the walking unit. The body shell is affixed to a universal connecting plate, which is fully interchangeable with all sizes as well as the Stehbrett platform (see “Standing Podiums”). The walking podiums have a low center of gravity to increase stability. Hand grips and anti-tip options are available which can be added at any time and are compatible with all podiums.

The **Leicht-Walker** utilizes carbon parts to reduce weight by approx. 30% compared to the standard aluminum **Foot-Walker**.



		Individual Adjustments			Body Shell			Modular Accessories		
Noise Dampening	Growable	Vertical Axis	Step Width	Step Length	3-Point Fixation	Removable	Reduced Weight	Hand Grips	Anti-tip Protection	
										Foot-Walker Pages 194 - 195
										Foot-Walker - KS Page 195
										Foot-Walker - HG Page 195
										Foot-Walker - HG und KS Page 195
										Leicht-Walker Pages 196-197
										Leicht-Walker - KS Pages 197
										Leicht-Walker - HG Page 197
										Leicht-Walker - HG und KS Page 197

Foot-Walker Walking Podium



Features

Sizes available for the **smallest to large** patients

Robust aluminum construction

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

+ **Vertical alignment adjustment in four directions** without disassembly

+ **Parallel adjustment of step width** without disassembly

+ **Individual adjustment of step length** without disassembly

+ **Noise dampening movement stops**

+ **Pyramid adapters** for precise adjustment, up to 10°

+ Easy **removal** of the body shell

+ **Height adjustable** to accommodate growth

+ **Secure 3-point attachment** of the body shell at the feet and pelvic area

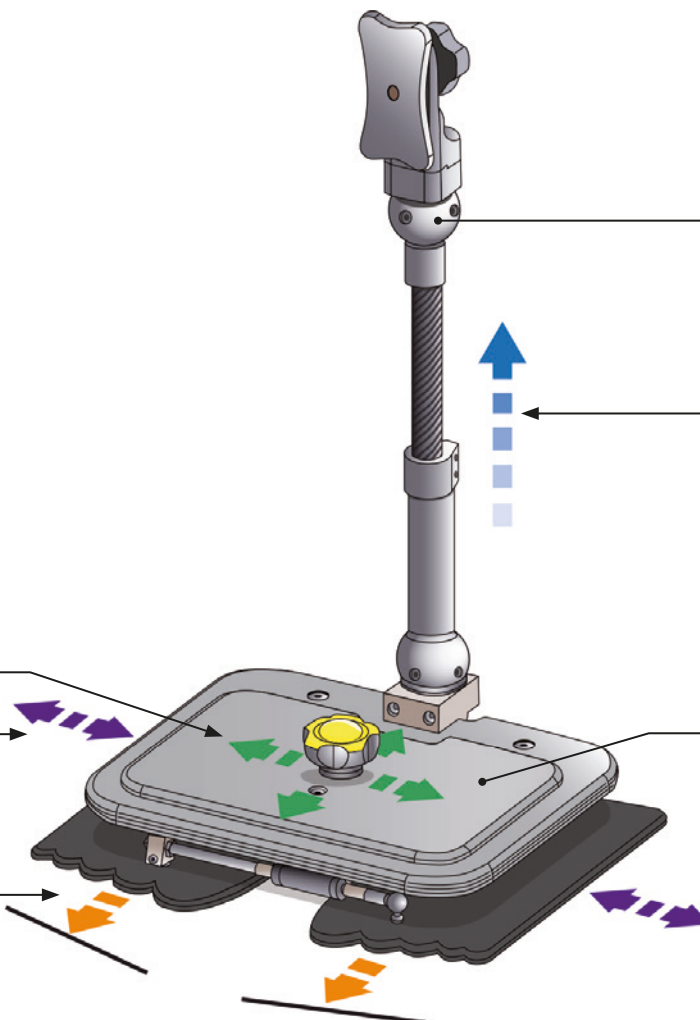
Upon request an **extra-wide connecting plate** can be supplied for more abduction

+ **Universal connecting plate** is interchangeable with the Leicht-Walker and Stehbrett

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use



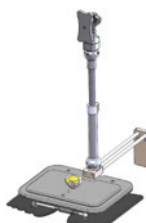


Article No.	Height Classification	Connecting Plate	Heel to Heel (middle)
Foot-Walker-klein	65 cm to 100 cm	25 cm x 16 cm	23 cm to 8 cm
Foot-Walker-mittel	80 cm to 130 cm	32 cm x 19 cm	30 cm to 12 cm
Foot-Walker-groß	120 cm to 160 cm	39 cm x 22 cm	36 cm to 18 cm

Body Shell with Connecting Plate

Custom body shell used in conjunction with the Stehbrett supports primary deformities and selectively counters any possible secondary deformities.

Only a precise footbed and proper support of the ankle joint enable correct positioning of the knee and hip joints.



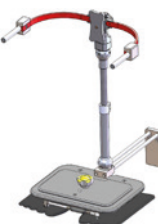
With anti-tip protection to prevent toppling backwards

Article No. Combi-product	Height Classification	Connecting Plate	Heel to Heel (middle)
Foot-Walker- KS -klein	65 cm to 100 cm	25 cm x 16 cm	23 cm to 8 cm
Foot-Walker- KS -mittel	80 cm to 130 cm	32 cm x 19 cm	30 cm to 12 cm
Foot-Walker- KS -groß	120 cm to 160 cm	39 cm x 22 cm	36 cm to 18 cm



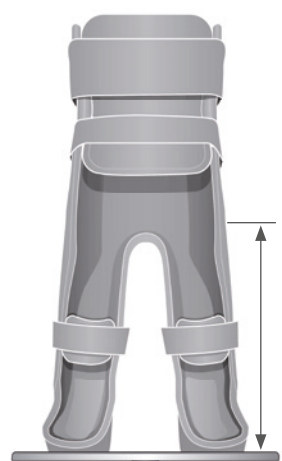
With hand grips

Article No. Combi-product	Height Classification	Connecting Plate	Heel to Heel (middle)
Foot-Walker- HG -klein	65 cm to 100 cm	25 cm x 16 cm	23 cm to 8 cm
Foot-Walker- HG -mittel	80 cm to 130 cm	32 cm x 19 cm	30 cm to 12 cm
Foot-Walker- HG -groß	120 cm to 160 cm	39 cm x 22 cm	36 cm to 18 cm



With hand grips and anti-tip protection

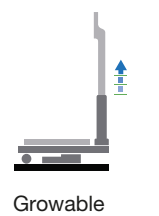
Article No. Combi-product	Height Classification	Connecting Plate	Heel to Heel (middle)
Foot-Walker- HG-KS -klein	65 cm to 100 cm	25 cm x 16 cm	23 cm to 8 cm
Foot-Walker- HG-KS -mittel	80 cm to 130 cm	32 cm x 19 cm	30 cm to 12 cm
Foot-Walker- HG-KS -groß	120 cm to 160 cm	39 cm x 22 cm	36 cm to 18 cm



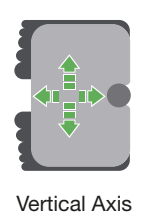
Minimum length from connecting plate to 4-point grip:
30 cm (small)
36 cm (medium and large)



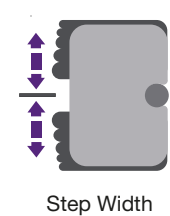
Noise Dampening



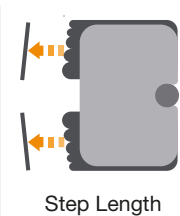
Growable



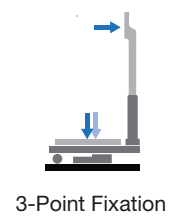
Vertical Axis



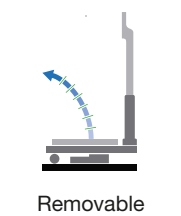
Step Width



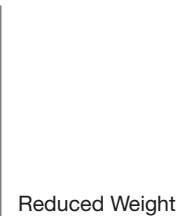
Step Length



3-Point Fixation



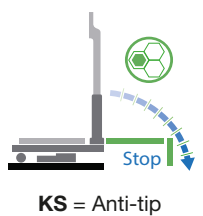
Removable



Reduced Weight



HG = Hand Grips



KS = Anti-tip Protection

Leicht-Walker Walking Podium

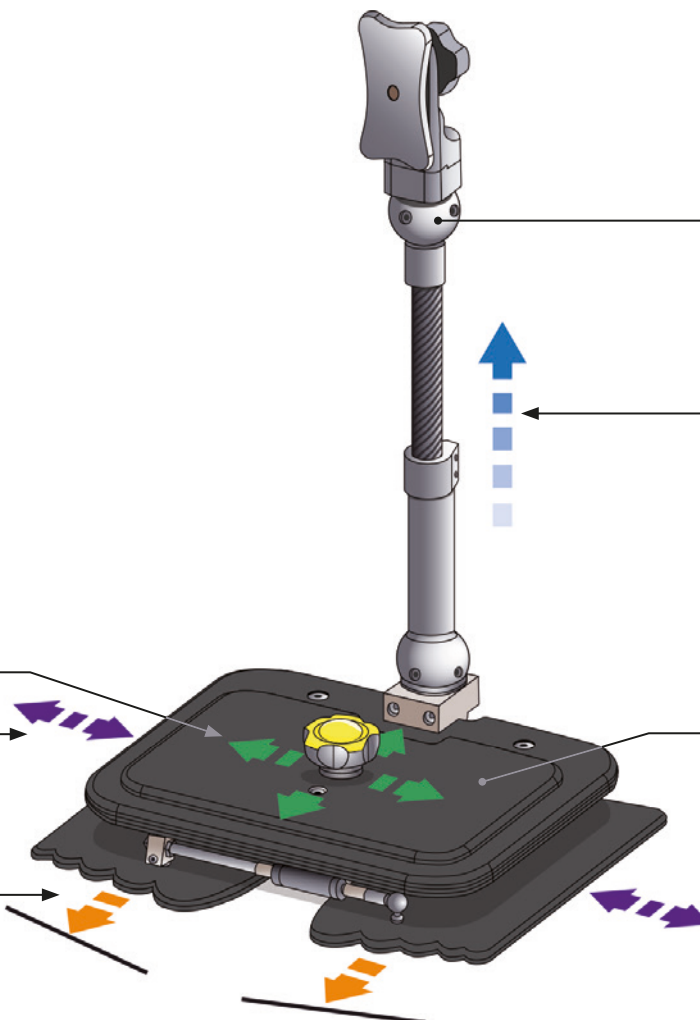


Features

Sizes available for the **smallest to large** patients

Lightweight **carbon construction**
30% weight reduction

- + **Vertical alignment adjustment in four directions** without disassembly
- + **Parallel adjustment of step width** without disassembly
- + **Individual adjustment of step length** without disassembly
- + **Noise dampening movement stops**



Standard

Fully assembled for clear cost estimates and uncomplicated ordering

- + **Pyramid adapters** for precise adjustment, up to 10°
 - + **Easy removal** of the body shell
 - + **Height adjustable** to accommodate growth
 - + **Secure 3-point attachment** of the body shell at the feet and pelvic area
- Upon request** an **extra-wide connecting plate** can be supplied for more abduction (aluminium)

- + **Universal connecting plate** is interchangeable with the Foot-Walker and Stehbrett

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use



Article No.	Height Classification	Connecting Plate	Heel to Heel (middle)
Leicht-Walker-klein	65 cm to 100 cm	25 cm x 16 cm	23 cm to 8 cm
Leicht-Walker-mittel	80 cm to 130 cm	32 cm x 19 cm	30 cm to 12 cm
Leicht-Walker-groß	120 cm to 160 cm	39 cm x 22 cm	36 cm to 18 cm

With anti-tip protection to prevent toppling backwards



Article No. Combi-product	Height Classification	Connecting Plate	Heel to Heel (middle)
Leicht-Walker- KS -klein	65 cm to 100 cm	25 cm x 16 cm	23 cm to 8 cm
Leicht-Walker- KS -mittel	80 cm to 130 cm	32 cm x 19 cm	30 cm to 12 cm
Leicht-Walker- KS -groß	120 cm to 160 cm	39 cm x 22 cm	36 cm to 18 cm

With hand grips



Article No. Combi-product	Height Classification	Connecting Plate	Heel to Heel (middle)
Leicht-Walker- HG -klein	65 cm to 100 cm	25 cm x 16 cm	23 cm to 8 cm
Leicht-Walker- HG -mittel	80 cm to 130 cm	32 cm x 19 cm	30 cm to 12 cm
Leicht-Walker- HG -groß	120 cm to 160 cm	39 cm x 22 cm	36 cm to 18 cm

With hand grips and anti-tip protection

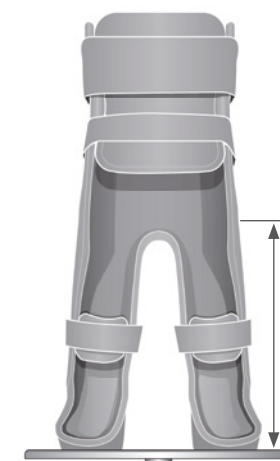


Article No. Combi-product	Height Classification	Connecting Plate	Heel to Heel (middle)
Leicht-Walker- HG-KS -klein	65 cm to 100 cm	25 cm x 16 cm	23 cm to 8 cm
Leicht-Walker- HG-KS -mittel	80 cm to 130 cm	32 cm x 19 cm	30 cm to 12 cm
Leicht-Walker- HG-KS -groß	120 cm to 160 cm	39 cm x 22 cm	36 cm to 18 cm

Body Shell with Connecting Plate

Custom body shell used in conjunction with the Stehbrett supports primary deformities and selectively counters any possible secondary deformities.

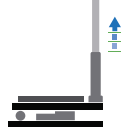
Only a precise footbed and proper support of the ankle joint enable correct positioning of the knee and hip joints.



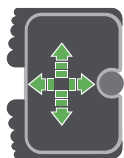
Minimum length from connecting plate to 4-point grip:
30 cm (small)
36 cm (medium and large)



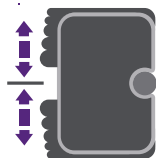
Noise Dampening



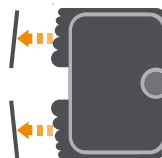
Growable



Vertical Axis



Step Width



Step Length



3-Point Fixation



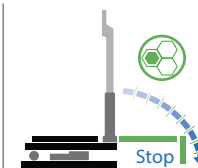
Removable



Reduced Weight



HG = Hand Grips



KS = Anti-tip Protection

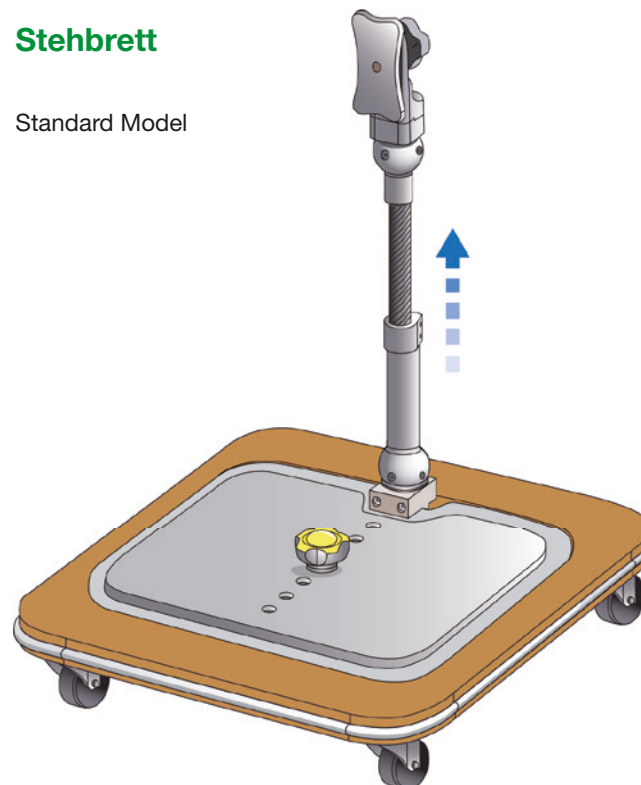
Standing Podiums in Comparison

Custom-Fabricated Body Shell: Precise support and alignment of the foot and ankle joints are essential for correct positioning of the knee and hip joints. Individually tailored to each user, the body shell addresses primary deformities using the three-point pressure principle, thereby proactively countering potential secondary deformities. Custom alignment, designed to meet the specific needs of the patient, ensures correct positioning of the head.



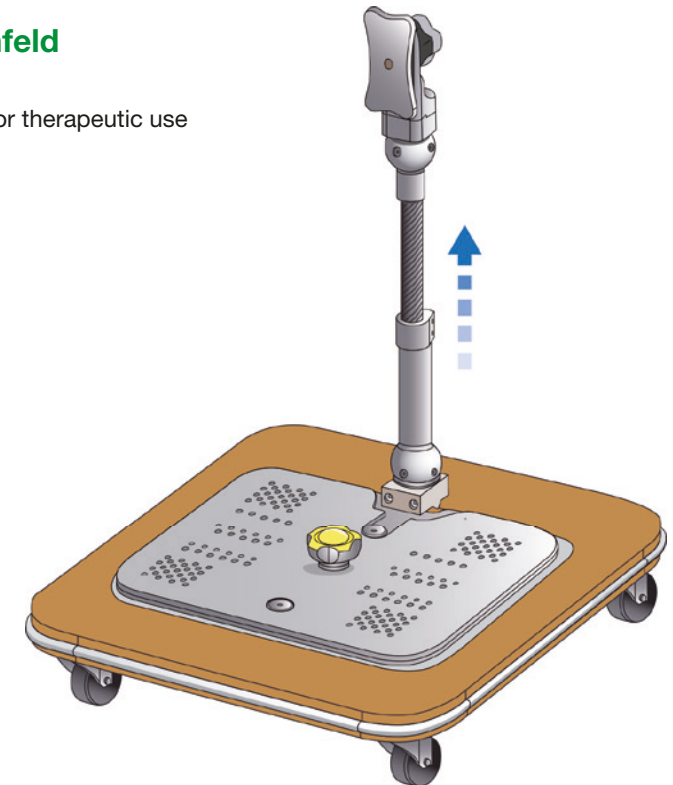
Stehbrett

Standard Model



Stehfeld

Also for therapeutic use



The standing platform with body shell: Children need to experience standing as soon as they attempt to upright themselves. It is important they perceive the world from a vertical perspective and can align their gaze horizontally. Equally important is that they are at eye level with other children. This enhances their well-being and level of attention. Furthermore, standing has positive effects on circulation and the cardiovascular system, respiration, digestion, kidney, and bladder function. It increases bone density, reduces the risk of fractures, and promotes the development of the hip joint. Standing also enables playing and working at a table.

Functional Overview Standing Podiums

Podiums are combined with an individual, custom-fabricated body shell to form the standing unit. The body shell is affixed to a universal connecting plate, which is fully interchangeable with all Stehbrett sizes, as well as Foot-Walker and Leicht-Walker podiums (see “Walking Podiums”). The Stehfeld podium comes with an adjustable, tilting connecting plate, which can be used for posture control exercises to augment therapy sessions. Hand grips and anti-tip options are available which can be added at any time and are compatible with all podiums.



			Body Shell			Modular Accessories		
Growable	Stability	Protective Bumper	3-Point Fixation	Removable	Posture Control Exercises	Hand Grips	Anti-tip Protection	
								 Stehbrett Pages 200-201
								 Stehbrett-KS Page 201
								 Stehbrett-HG Page 201
								 Stehbrett-HG-KS Page 201
								 Stehfeld Page 202-203
								 Stehfeld-KS Page 203
								 Stehfeld-HG Page 203
								 Stehfeld-HG-KS Page 203

Stehbrett Standing Platform



Features

Sizes available for the **smallest to large** patients

Unrivalled **20-month guarantee**

Engraved **serial number** for traceability

Clearly illustrated instructions for use

Standard

Fully assembled for clear cost estimates and uncomplicated ordering

+ Easily adapted to the **next size Stehbrett** at any time

+ **Silicone bumper** to avoid damages and protect against injury

+ **Wheel locks** keep podium stationary

+ **Pyramid adapters** for precise adjustment, up to 10°

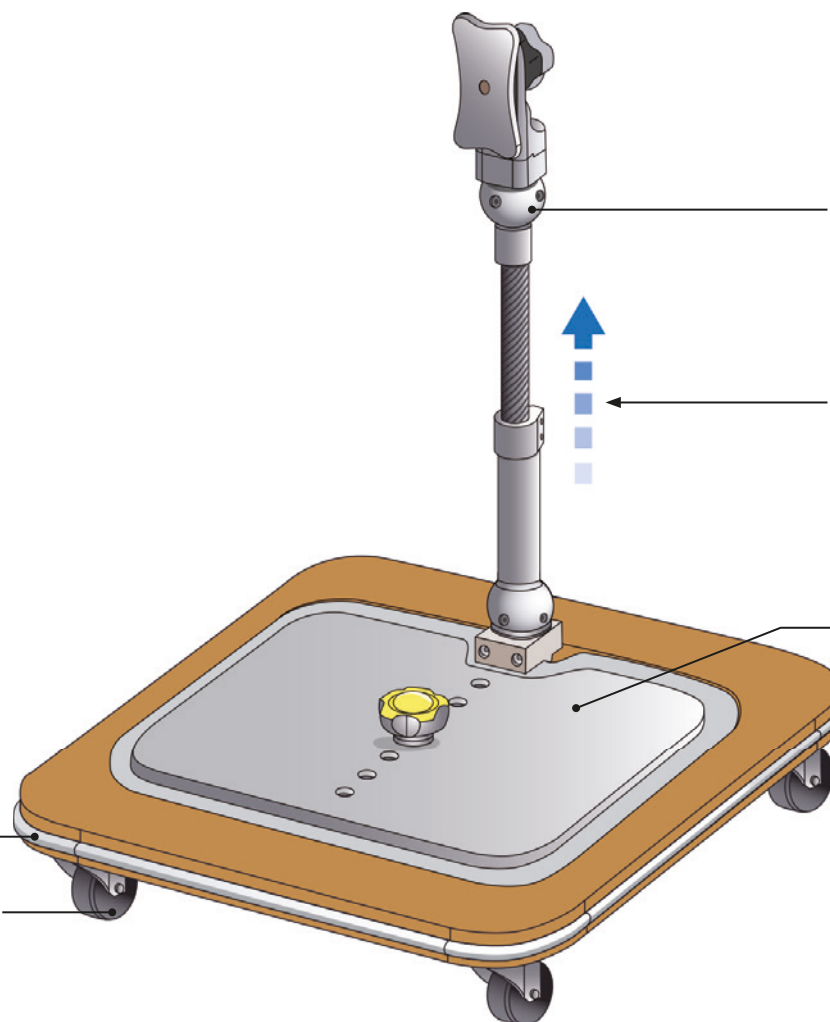
+ **Easy removal** of the body shell

+ **Height adjustable** to accommodate growth

+ **Secure 3-point attachment** of the body shell at the feet and pelvic area

+ **Universal connecting plate** is interchangeable with the Leicht-Walker and Stehbrett

Upon request an **extra-wide connecting plate** can be supplied for more abduction





Article No.	Height Classification	Base (l x w)	Connecting Plate	Heel to Heel (middle)
Stehbrett-klein	65 cm to 100 cm	40 cm x 40 cm	25 cm x 16 cm	23 cm to 8 cm
Stehbrett-mittel	80 cm to 130 cm	45 cm x 45 cm	32 cm x 19 cm	30 cm to 12 cm
Stehbrett-groß	120 cm to 160 cm	50 cm x 50 cm	39 cm x 22 cm	36 cm to 18 cm
Stehbrett-groß-breit	120 cm to 160 cm	50 cm x 70 cm	39 cm x 22 cm	36 cm to 18 cm

With anti-tip protection to prevent toppling backwards



Article No. Combi-product	Height Classification	Base (l x w)	Connecting Plate	Heel to Heel (middle)
Stehbrett-KS-klein	65 cm to 100 cm	40 cm x 40 cm	25 cm x 16 cm	23 cm to 8 cm
Stehbrett-KS-mittel	80 cm to 130 cm	45 cm x 45 cm	32 cm x 19 cm	30 cm to 12 cm
Stehbrett-KS-groß	120 cm to 160 cm	50 cm x 50 cm	39 cm x 22 cm	36 cm to 18 cm
Stehbrett-KS-groß-breit	120 cm to 160 cm	50 cm x 70 cm	39 cm x 22 cm	36 cm to 18 cm

With anti-tip protection to prevent toppling backwards



Article No. Combi-product	Height Classification	Base (l x w)	Connecting Plate	Heel to Heel (middle)
Stehbrett-HG-klein	65 cm to 100 cm	40 cm x 40 cm	25 cm x 16 cm	23 cm to 8 cm
Stehbrett-HG-mittel	80 cm to 130 cm	45 cm x 45 cm	32 cm x 19 cm	30 cm to 12 cm
Stehbrett-HG-groß	120 cm to 160 cm	50 cm x 50 cm	39 cm x 22 cm	36 cm to 18 cm
Stehbrett-HG-groß-breit	120 cm to 160 cm	50 cm x 70 cm	39 cm x 22 cm	36 cm to 18 cm

With hand grips and anti-tip protection

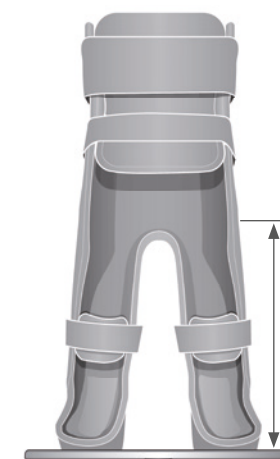


Article No. Combi-product	Height Classification	Base (l x w)	Connecting Plate	Heel to Heel (middle)
Stehbrett-HG-KS-klein	65 cm to 100 cm	40 cm x 40 cm	25 cm x 16 cm	23 cm to 8 cm
Stehbrett-HG-KS-mittel	80 cm to 130 cm	45 cm x 45 cm	32 cm x 19 cm	30 cm to 12 cm
Stehbrett-HG-KS-groß	120 cm to 160 cm	50 cm x 50 cm	39 cm x 22 cm	36 cm to 18 cm
Stehbrett-HG-KS-groß-breit	120 cm to 160 cm	50 cm x 70 cm	39 cm x 22 cm	36 cm to 18 cm

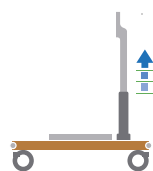
Body Shell with Connecting Plate

Custom body shell used in conjunction with the Stehbrett supports primary deformities and selectively counters any possible secondary deformities.

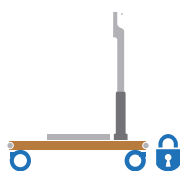
Only a precise footbed and proper support of the ankle joint enable correct positioning of the knee and hip joints. the knee and hip joints.



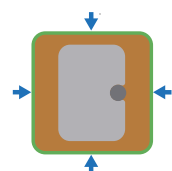
Minimum length from connecting plate to 4-point grip:
30 cm (small)
36 cm (medium and large)



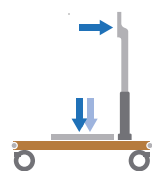
Growable



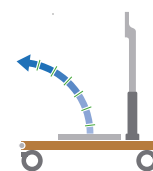
Stability



Protective Bumper

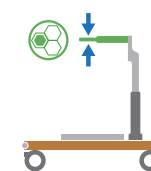


3-Point Fixation

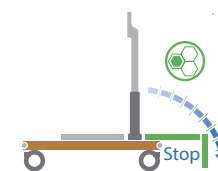


Removable

Postural Control Exercises



HG = Hand Grips



KS = Anti-tip Protection

Stehfeld Standing Platform



Features

Sizes available for the **smallest to large** patients

Unrivalled **20-month guarantee**

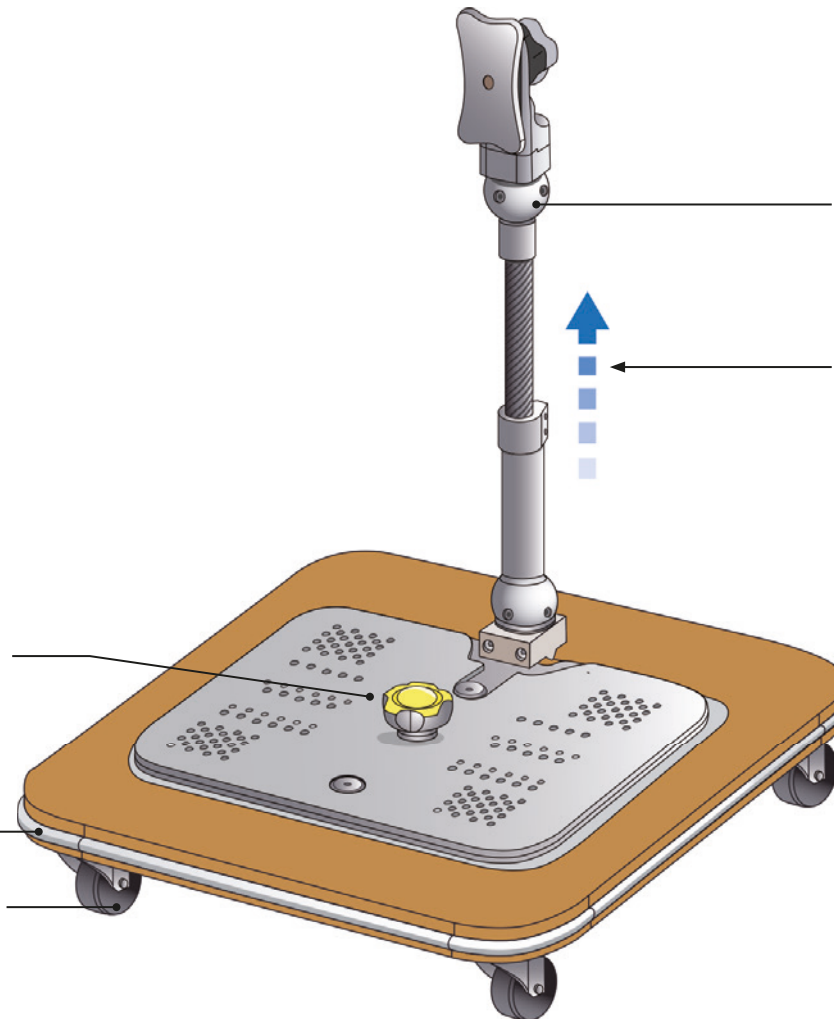
Engraved **serial number** for traceability

Clearly illustrated instructions for use

+ Tilting connecting plate for **posture control exercises** during therapy

+ **Silicone bumper** to avoid damages and protect against injury

+ **Wheel locks** keep podium stationary



Standard

Fully assembled as one item for clear cost estimates and uncomplicated ordering

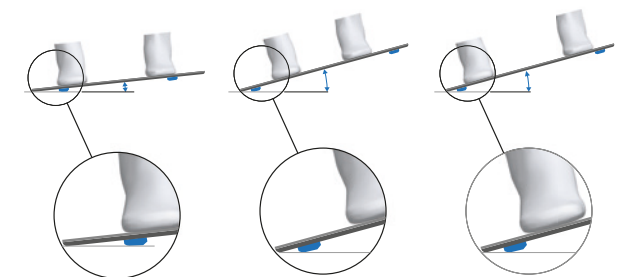
+ **Pyramid adapters** for precise adjustment, up to 10°

+ **Secure 3-point attachment** of the body shell at the feet and pelvic area

+ **Height adjustable** to accommodate growth

+ Unscrew **2 grips** to detach body shell and posture plate from the base

+ Applies the Helga Hirschfeld therapeutic principle to **induce postural reactions** by displacing the body and prompting a return to equilibrium





Article No.	Height Classification	Base (l x w)	Posture Plate	Foot Length	Foot to Foot (lateral)
Stehfeld-klein	65 cm to 100 cm	40 cm x 40 cm	22,5 cm x 29 cm	12,5 cm to 17 cm	17,0 cm to 23 cm
Stehfeld-mittel	80 cm to 130 cm	45 cm x 45 cm	25,5 cm x 36 cm	14,5 cm to 22 cm	20,5 cm to 31 cm
Stehfeld-groß	120 cm to 160 cm	50 cm x 50 cm	28,5 cm x 42 cm	16,5 cm to 25 cm	22,5 cm to 35 cm
Stehfeld-groß-breit	120 cm to 160 cm	50 cm x 70 cm	28,5 cm x 42 cm	16,5 cm to 25 cm	22,5 cm to 35 cm

With anti-tip protection to prevent toppling backwards



Article No. Combi-product	Height Classification	Base (l x w)	Posture Plate	Foot Length	Foot to Foot (lateral)
Stehfeld- KS -klein	65 cm to 100 cm	40 cm x 40 cm	22,5 cm x 29 cm	12,5 cm to 17 cm	17,0 cm to 23 cm
Stehfeld- KS -mittel	80 cm to 130 cm	45 cm x 45 cm	25,5 cm x 36 cm	14,5 cm to 22 cm	20,5 cm to 31 cm
Stehfeld- KS -groß	120 cm to 160 cm	50 cm x 50 cm	28,5 cm x 42 cm	16,5 cm to 25 cm	22,5 cm to 35 cm
Stehfeld- KS -groß-breit	120 cm to 160 cm	50 cm x 70 cm	28,5 cm x 42 cm	16,5 cm to 25 cm	22,5 cm to 35 cm

With anti-tip protection



Article No. Combi-product	Height Classification	Base (l x w)	Posture Plate	Foot Length	Foot to Foot (lateral)
Stehfeld- HG -klein	65 cm to 100 cm	40 cm x 40 cm	22,5 cm x 29 cm	12,5 cm to 17 cm	17,0 cm to 23 cm
Stehfeld- HG -mittel	80 cm to 130 cm	45 cm x 45 cm	25,5 cm x 36 cm	14,5 cm to 22 cm	20,5 cm to 31 cm
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Stehfeld- HG -groß-breit	120 cm to 160 cm	50 cm x 70 cm	28,5 cm x 42 cm	16,5 cm to 25 cm	22,5 cm to 35 cm

With hand grips and anti-tip protection



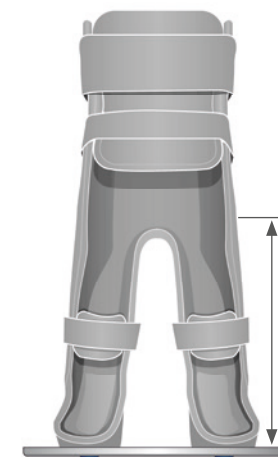
Article No. Combi-product	Height Classification	Base (l x w)	Posture Plate	Foot Length	Foot to Foot (lateral)
Stehfeld- HG-KS -klein	65 cm to 100 cm	40 cm x 40 cm	22,5 cm x 29 cm	12,5 cm to 17 cm	17,0 cm to 23 cm
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Stehfeld- HG-KS -groß	120 cm to 160 cm	50 cm x 50 cm	28,5 cm x 42 cm	16,5 cm to 25 cm	22,5 cm to 35 cm
Stehfeld- HG-KS -groß-breit	120 cm to 160 cm	50 cm x 70 cm	28,5 cm x 42 cm	16,5 cm to 25 cm	22,5 cm to 35 cm

Body Shell with Posture Plate

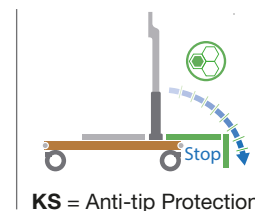
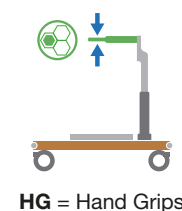
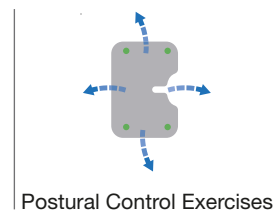
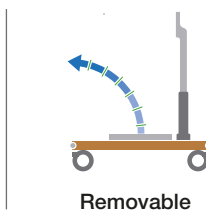
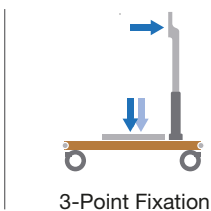
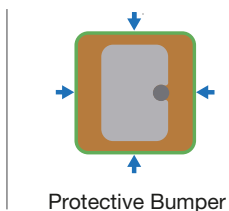
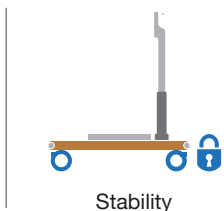
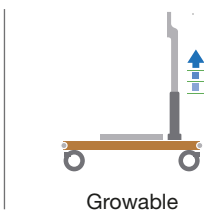
Custom body shell used in conjunction with the Stehbrett supports primary deformities and selectively counters any possible secondary deformities.

Only a precise footbed and proper support of the ankle joint enable correct positioning of the knee and hip joints.

Amount of tilt can be individually adapted to the user by positioning supports on the undersurface.

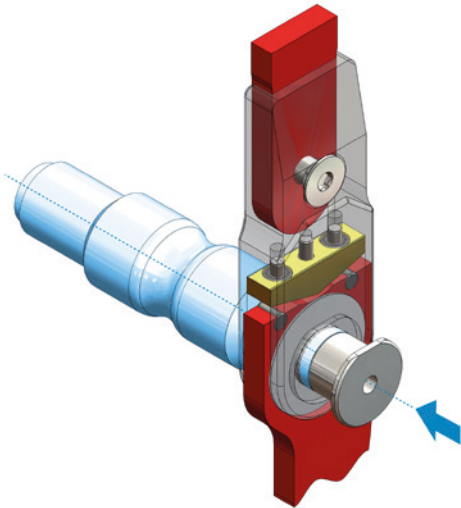


Minimum length from connecting plate to 4-point grip:
30 cm (small)
36 cm (medium and large)



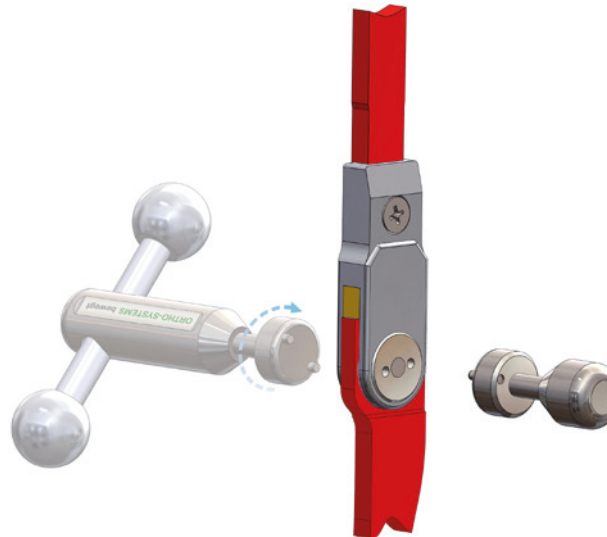
Assembly Tools

Precision tools for secure, accurate, and efficient assembly of our orthotic joints.



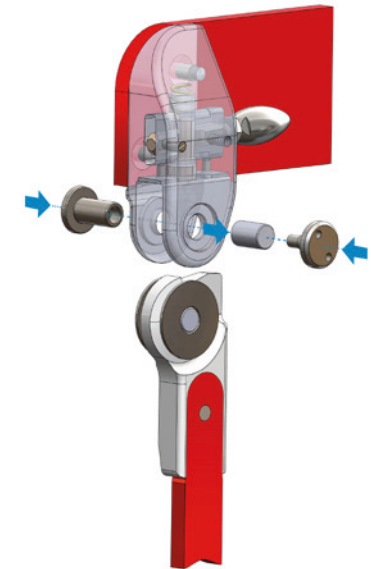
Montage-A-EH-GV

Assembly aid for all Blocker, Konso, Varo, Klassik-Konso, Liber, Liber-IN, Indi, Shuttle, Ela, Naveta and Jumper joints



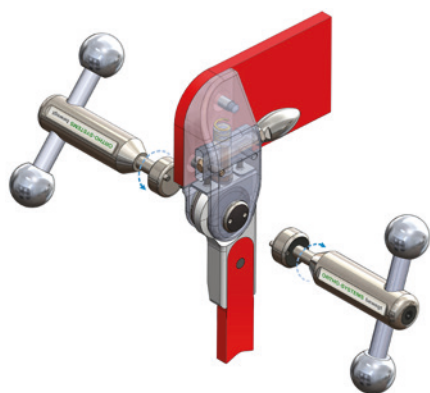
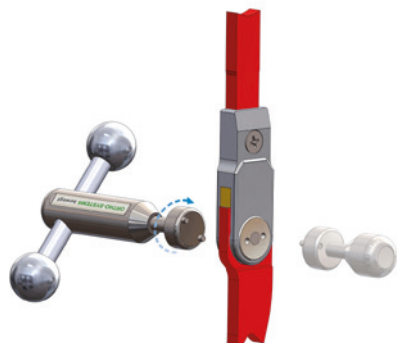
Montage-K-GV-kurz

Short pin spanner for all Fokus and Modos hip joints, and size -22 Jumper, Naveta, Ela-FI-Ex and Ela-Dor ankle joints



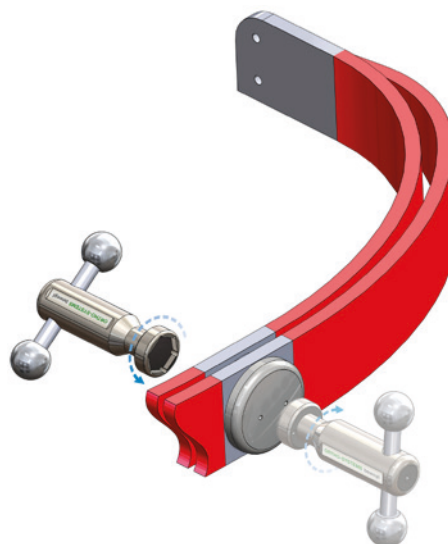
Montage-EH-GV-(Size)

Assembly aid for Fokus and Modos 3D and 2D hip joints



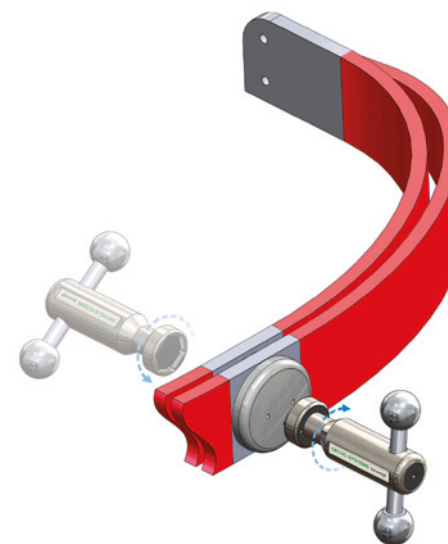
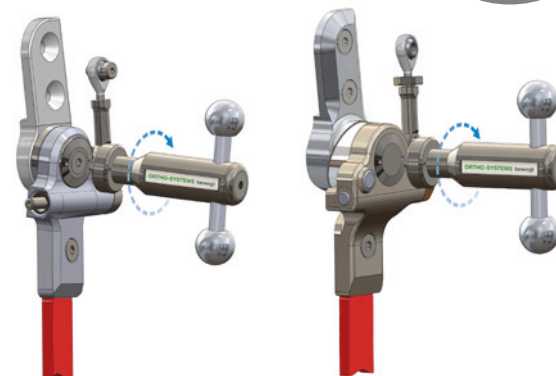
Montage-G-GV-lang

Long pin spanner for all Fokus and Modos hip joints, and size-22 Jumper, Naveta, Ela-Fl-Ex and Ela-Dor ankle joints



Montage-H-Rezi-WM

Pin spanner for RGO axle and rocker bar connections



Montage-B-Rezi-GV-WM

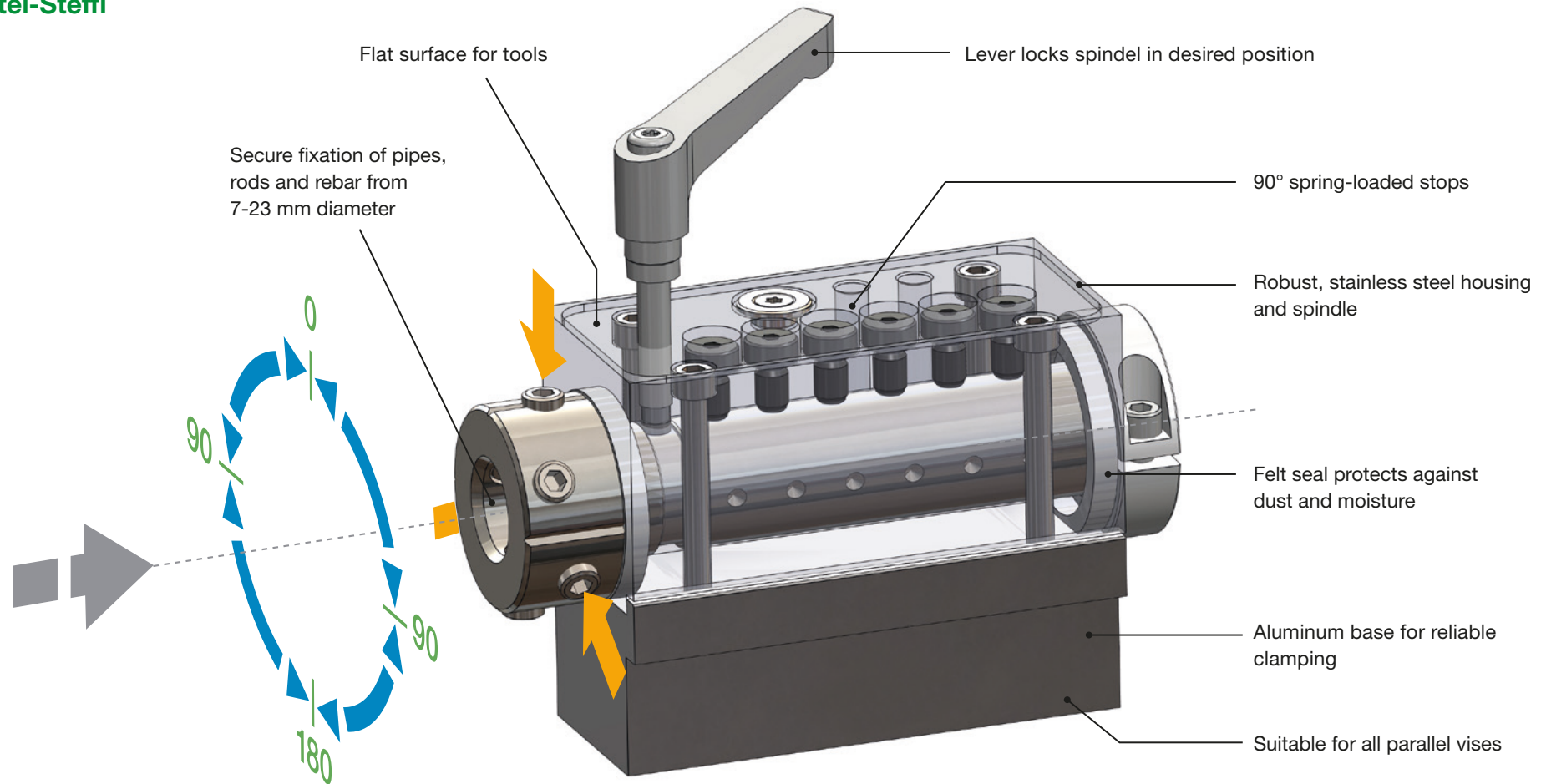
Hex nut driver for inner rocker bar connection

The Right Tool for the Job

Preparing a good meal in the kitchen requires quality utensils, just as high-quality, high-volume production in the workshop demands proper tools. Our clamping tools Steffi and Marco allow you to quickly and easily rotate your cast, simplifying modifications and fabrication. The casts remain securely in place, without slipping or shifting. Additionally, Steffi comes with the added feature of 90° spring-loaded stops, for exact controlled positioning. Our Alex model is specifically designed for quick cast changes and features a unique, 360° adjustment making it ideal for efficient work in tight spaces. Technicians value working with quality equipment and our clamping tools not only facilitate more precise work but also enhance overall productivity and quality.



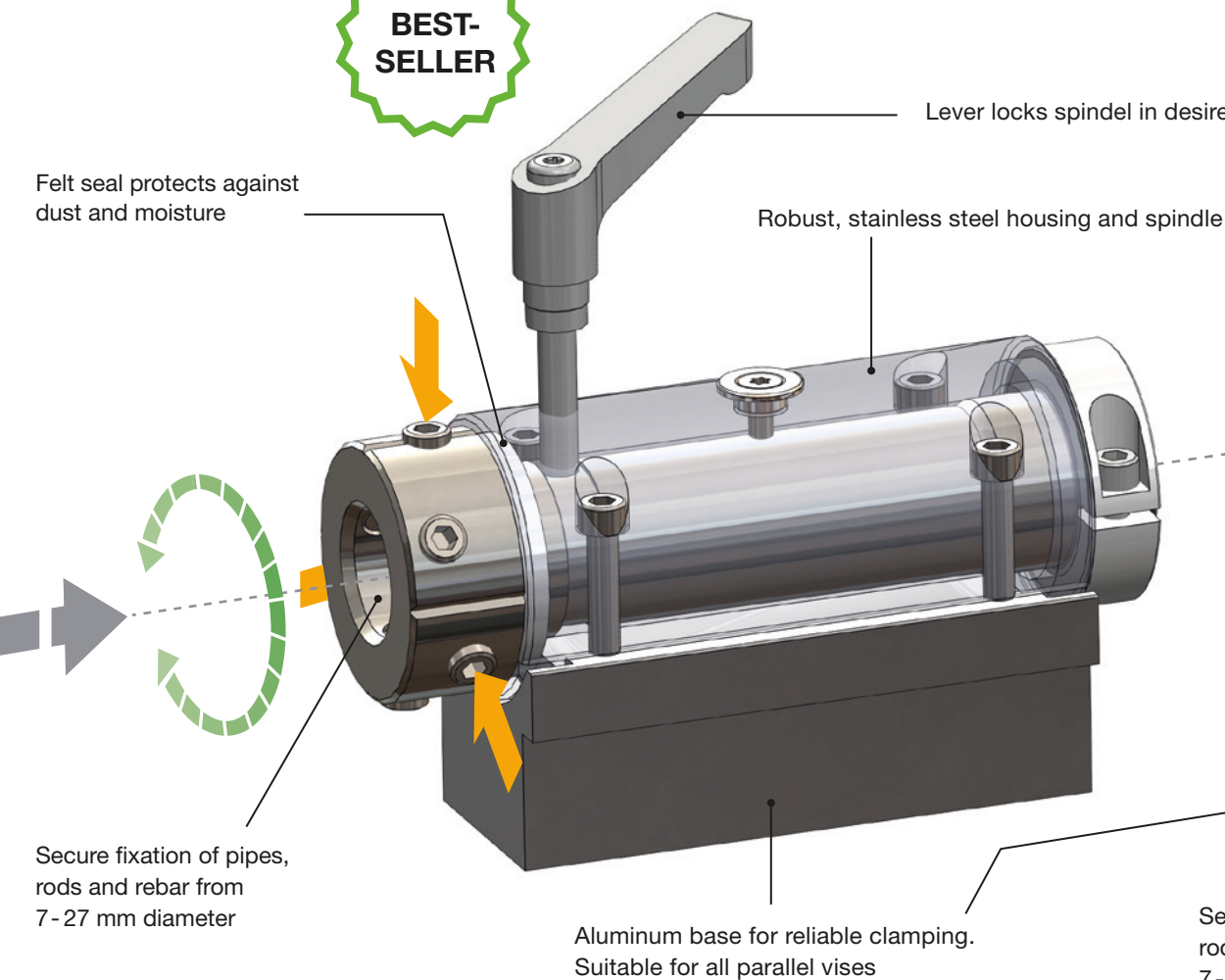
Sattel-Steffi



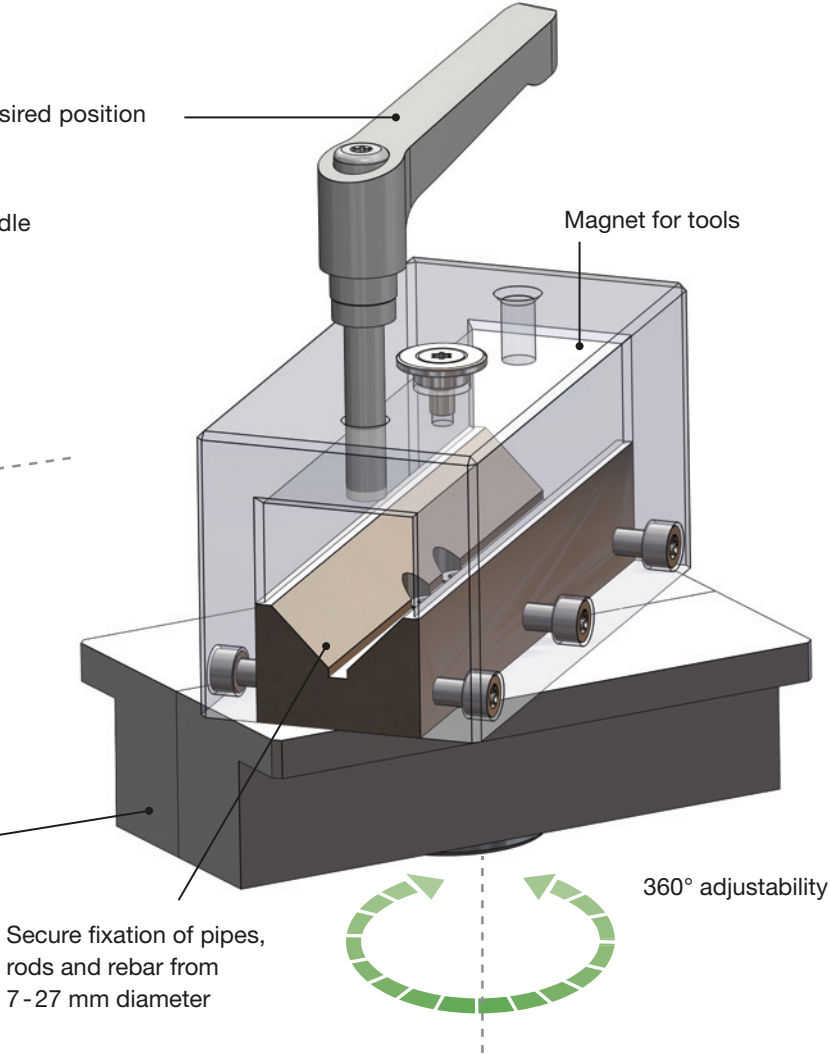
Designed by P&O for the P&O



Sattel-Marco



Sattel-Alex

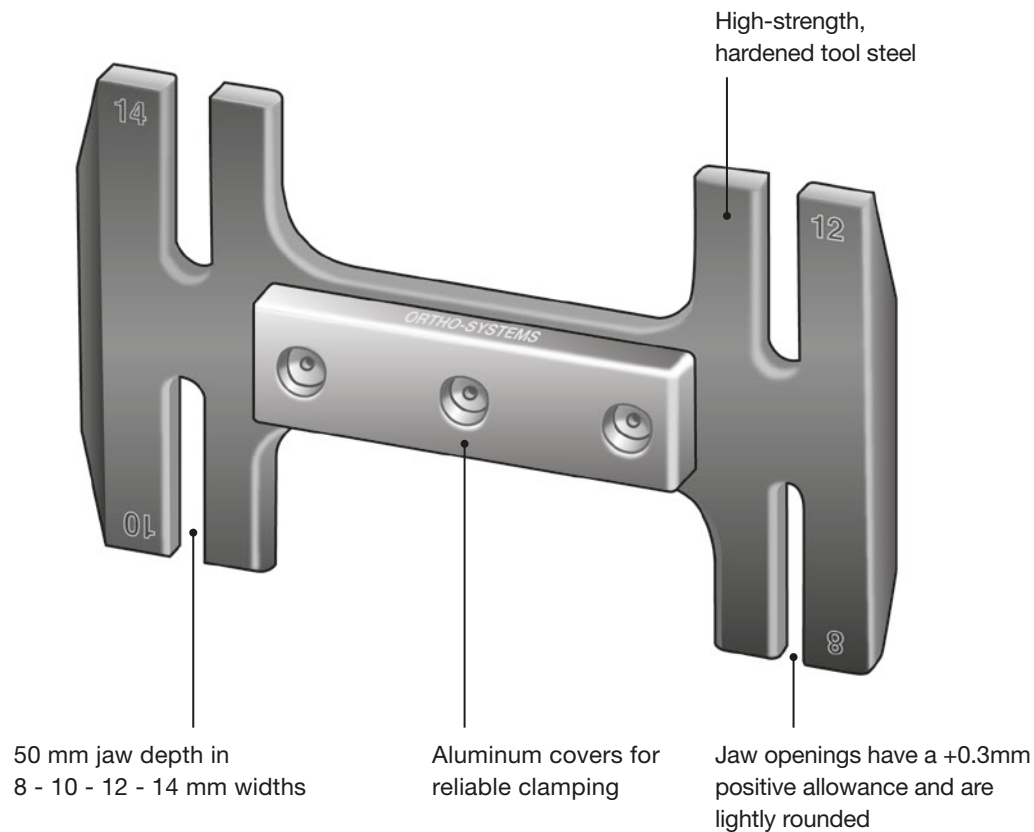


Heavy Duty Bending Irons

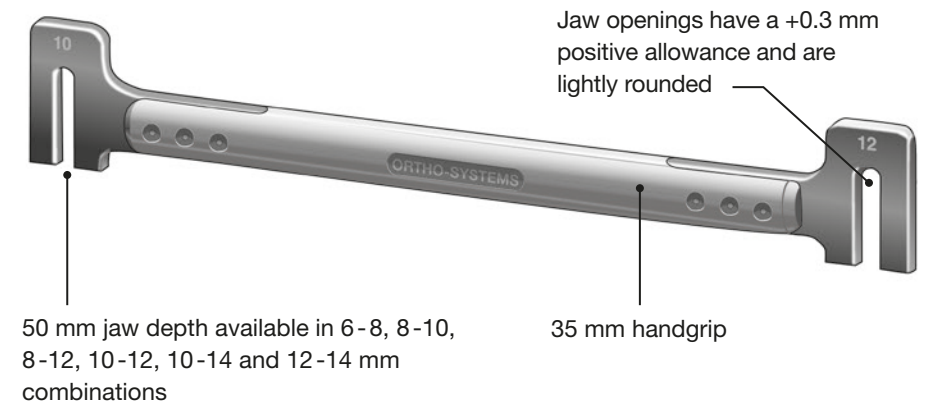
Working efficiently in the kitchen requires quality knives, just as productivity in the P&O shop demands dependable tools. Short, warped bending irons lacking proper grips, which were never designed to be clamped in a vise, hinder performance. Our heavy-duty vise and hand bending irons, crafted from high-strength steel, are engineered to ease your work, elevate quality, and boost job satisfaction.



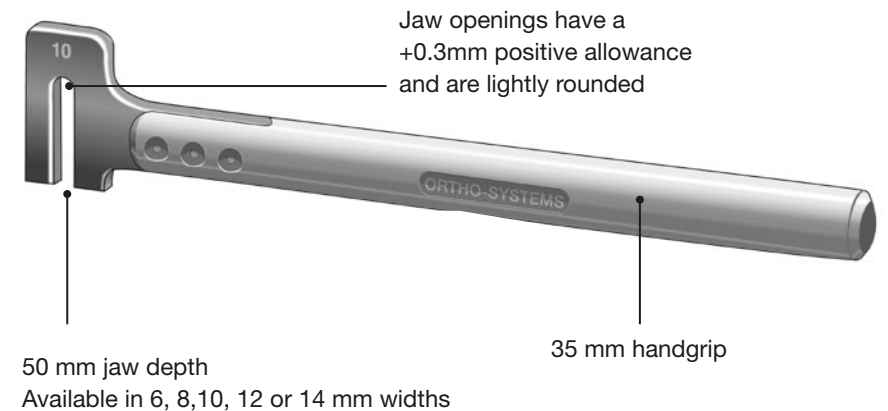
Vise Bending Iron



Hand Bending Iron - Double



Hand Bending Iron - Single

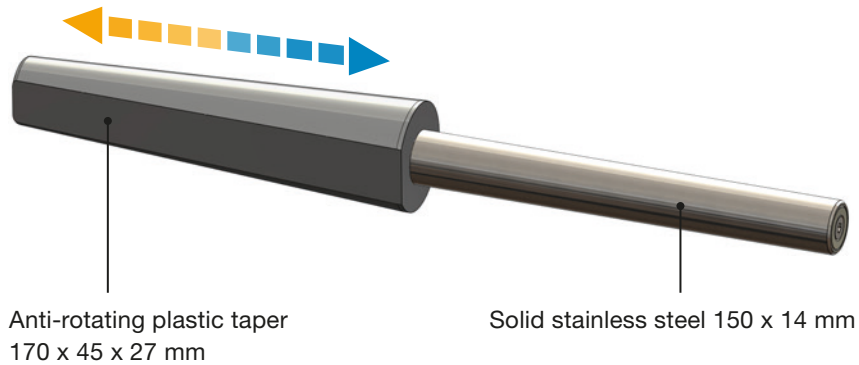


Reusable Mandrels

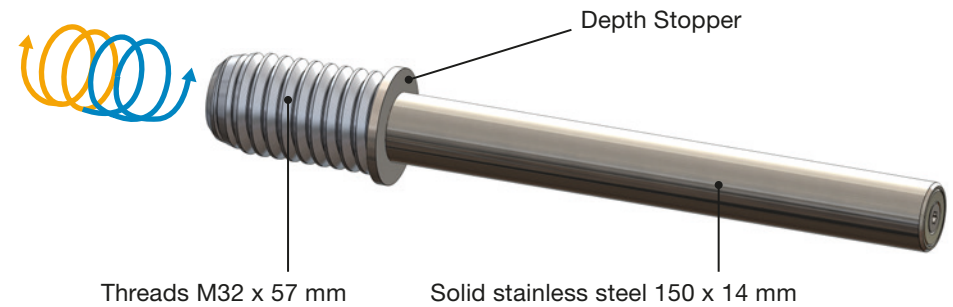
In recent years, cast technology has undergone significant changes and advancements. Whereas traditional plaster models were once the norm, foam models and those from 3D printers are now widely used. For plaster models, we offer the mandrel Tobias, specifically designed for easy removal after pouring and also suitable for integration into 3D-printed models. For both small and large foam models, we offer the mandrel Boris, which is simply screwed into the model after drilling a core hole.



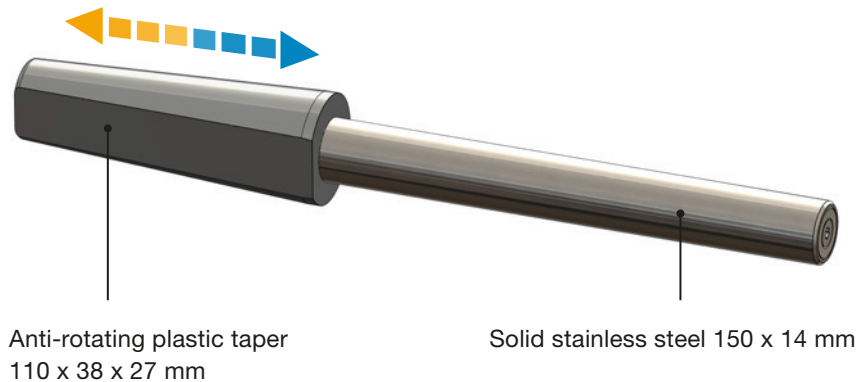
Dorn-Tobias-1



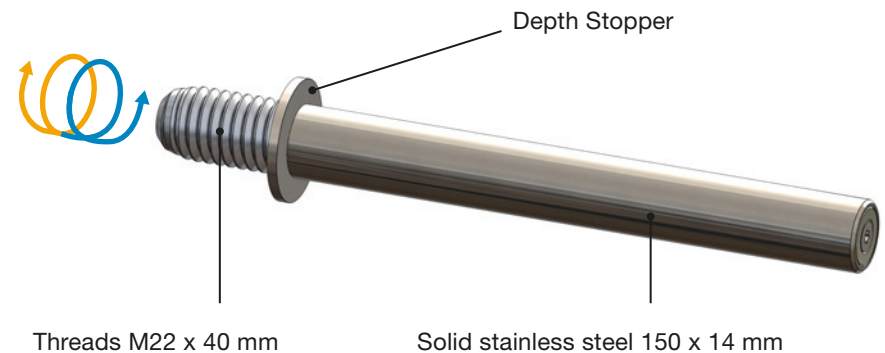
Dorn-Boris-1



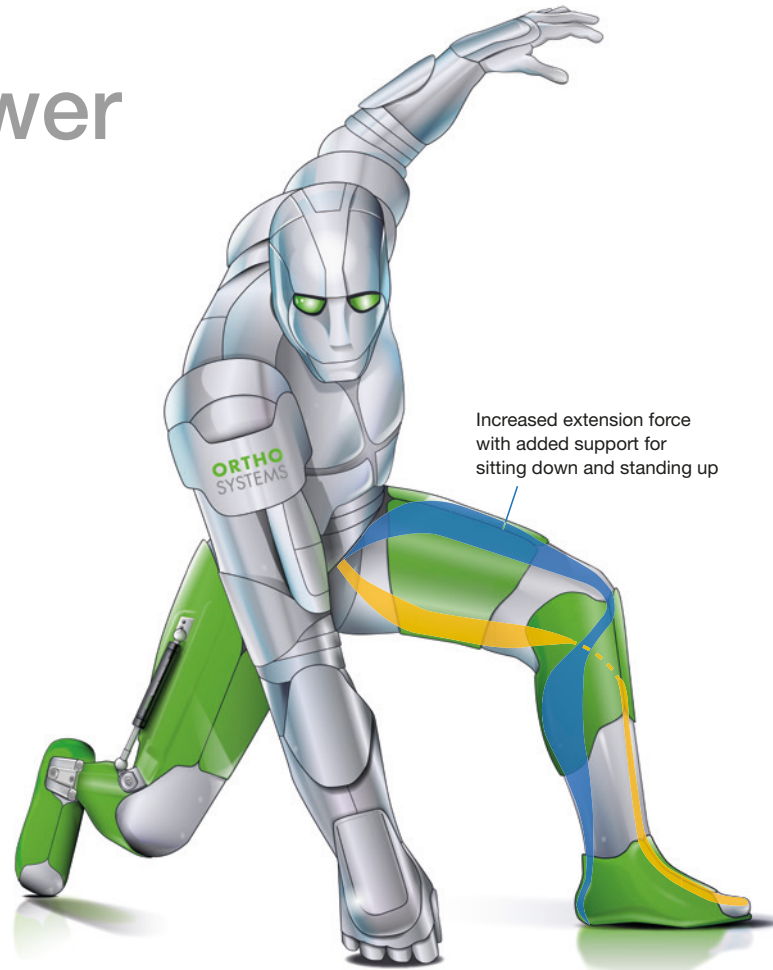
Dorn-Tobias-1-kurz



Dorn-Boris-kurz



Our Superpower



Engineering & Product Visualizations

Michel Momboisse

2D-/3D-CAD-Konstruktion

Illustration & Layout

Christian Grüninger

Die Deichgraphen GmbH & Co. KG

English Edition

Jeffrey Matwichuk

Design & Project Management

Thomas Böckh

Image sources by page from left to right: Page 1-5 All Fig. ORTHO-SYSTEMS, Page 6 Fig. ORTHO-SYSTEMS, ORTHO-SYSTEMS, ORTHO-SYSTEMS, ORTHO-SYSTEMS, ORTHO-SYSTEMS, ORTHO-SYSTEMS and Servicefertigung Kremser GmbH body shell with ORTHO-SYSTEMS podiums. Page 7-9 All Fig. ORTHO-SYSTEMS, Page 10 Fig. ORTHO-SYSTEMS, ORTHO-SYSTEMS, PantherMedia/ olly18_B7260476 (OS-edited), PantherMedia/olly18_B7260476 (OS-edited), Page 11 Fig. ORTHO-SYSTEMS, ORTHO-SYSTEMS, PantherMedia/urfingus_B104183130, Page 12-13 All Fig. ORTHOSYSTEMS, Page 14 Fig. PantherMedia/ choreograph_B77142091 (OS-edited), Page 15 Fig. Panther-Media/digitalstorm_B14004538 (OS-edited), PantherMedia/digitalstorm_B14004538 (OS-edited), Page 16 Fig. PantherMedia/nirutdps_B30942195 (OS-edited), Page 17 Fig. ORTHO-SYSTEMS, PantherMedia/macniak_B4942916 (OS-edited), PantherMedia/bertys30_B19724821 (OS- edited), ORTHOSYSTEMS, PantherMedia/koya979_B73609577, Page 18 All Fig. PantherMedia/pdesign_B1739529 (OS-edited), Page 19 All Fig. PantherMedia/pdesign _B1739529 (OS-edited), Page 20 Fig. PantherMedia/ digitalstorm_B271760222 (OS-edited), Page 21 Fig. ORTHO-SYSTEMS, PantherMedia/Wavebreakmedia(YAYMicro)_ D23690458 (OS-edited), ORTHO-SYSTEMS, ORTHO-SYSTEMS, Page 22 Fig. Shutterstock/BGStock72_315357890_(OS-edited), ORTHO-SYSTEMS, ORTHO-SYSTEMS, Page 23-147 All Fig. ORTHO-SYSTEMS, Page 148 Fig. PantherMedia/bertys30_B19724821 (OS-edited), Page 149 All Fig. ORTHO-SYSTEMS, Page 150 Fig. PantherMe-dia/Photosebia_B81371168 (OS-edited), PantherMedia/Marek Uliasz_9762348 (OS-edited), Page 151 Fig. ORTHO-SYSTEMS and Stefan Hofer, Page 152-191 All Fig. ORTHO-SYSTEMS. Page 192 Fig. Servicefertigung Kremser GmbH body shell with ORTHO-SYSTEMS podium and ORTHO-SYSTEMS, ORTHO-SYSTEMS, Page 163-197 All Fig. ORTHO-SYSTEMS, Page 198 Fig. Servicefertigung Kremser GmbH body shell with ORTHO-SYSTEMS podium and ORTHO-SYSTEMS, ORTHO-SYSTEMS, Page 199-210 All Fig. ORTHO-SYSTEMS, Back Cover Page Fig. ORTHO-SYSTEMS, ORTHO-SYSTEMS, ORTHO-SYSTEMS, ORTHO-SYSTEMS, ORTHO-SYSTEMS and Servicefertigung Kremser GmbH body shell with ORTHO-SYSTEMS podiums.



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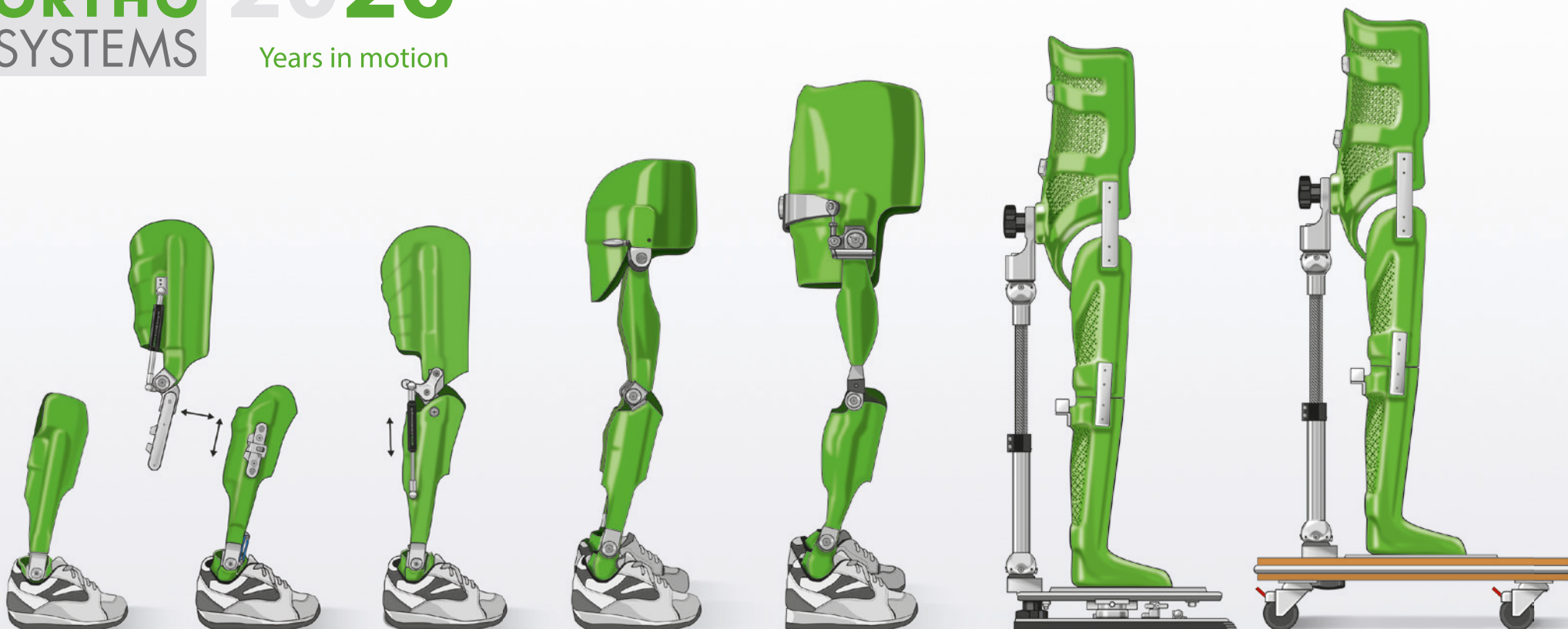
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