allard
Support for better life!

Contracture Management

MultiMotion, MultiStatic and Binky



Basko
Healthcare

MultiMotion 2.5
The Next Generation

We would like to introduce you to the next generation of our MultiMotion dynamic corrective joints. First of all, there is its eye-catching, clean design and modern appearance. The expressive details make this hinge a worthy successor, but that‘s not all. Hidden from view, this dynamic joint houses a variety of new features which are accentuated, among other features, by the use of high-quality materials.

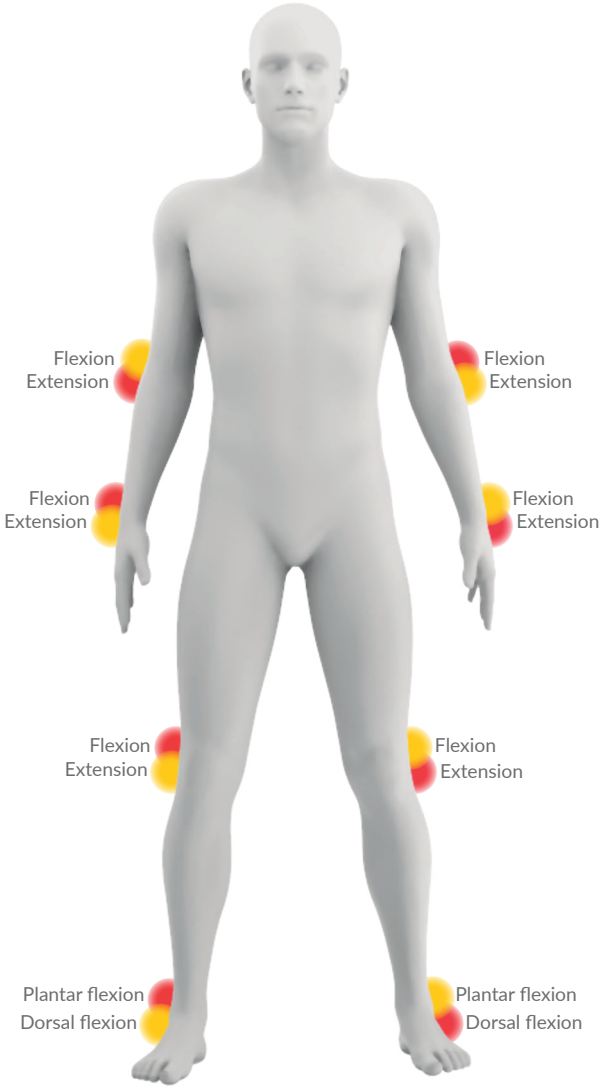


MultiMotion 2.5
Dynamic Corrective Joint

Our dynamic corrective joints are designed for the treatment of patients with limited joint mobility and provide safe, efficient and appropriate treatment of contractures due to neurological and orthopedic conditions. The corrective joint is deployed in orthoses, either for children, adolescents or adults.

The functionality of the MultiMotion corrective joint is based on the LLPS (Low Load Prolonged Stretch) principle. This process of gradual, precise and evenly applied tension promotes the growth of the shortened tissue and increases joint mobility. The application of a low but sustained corrective force lengthens the affected tissue, improving the range of motion of the joint.

Treatment of the contracture can be done in both flexion or extension with the very same joint. The selection of these is easily adjusted by flipping the spring cassette from the red (Fig. 1) to the yellow (Fig. 2) side, or vice versa. The correct setting depends on the body side and the specific joint to which the joint is applied.



MultiMotion Joint: changing the direction of force





MultiMotion 2.5
Dynamic Corrective Joint



Application

The corrective joint facilitates efficient treatment of dynamically correctable contractures according to the LLPS principle.

Neurological indications

- Apoplexy (CVA)
- Cerebral palsy
- Cranial Brain Trauma
- Dystrophy
- Multiple sclerosis
- Paresis
- Spina bifida

Contraindications

- Abnormal arthrokinematics
- Ankylosis
- Arthrodesis
- Fibrosis
- Ossification

Features

- Torque output possible in flexion or extension
- Range of Motion: +95° to -95°
- Adjustable flexion and extension stops
- Locking- and unlocking possible in virtually any position
- Torque Output Infinitely adjustable
- Adjustable 0 point
- Medial and lateral access to torque output set screw
- Material: steel/stainless steel, plastic

Orthopedic indications

- Amputation
- Fracture
- Ligament rupture
- Post-op after placement of endoprostheses, etc.

Product functionality

- Infinitely adjustable dynamic extension or flexion of the joint

Benefits in achieving therapy goals

- Improvement/rehabilitation of joint mobility
- Secure and step-wise joint mobilization
- Elongating/mobilizing spastic musculature
- Strengthening the musculature
- Improvement of the resting position
- Prevention of cartilage damage and ulcers

Components

MultiMotion joints are available in sizes medium and large. In addition, these components come in configurations with a modular bar adapter or with integrated bars and/or T-bar. In addition to an alignment unit, various types of joint bars are available as accessories for MultiMotion. In case of a bilateral application where a companion joint is preferred for the contralateral side, a selection can be made from the FreeMotion series of freely movable joints.



Modular



Modular + T-bar



Integrated bars



Integrated bars + T-bar

MultiMotion 2.5

Corrective Joints with modular bar adapter

Treatment recommendation

Joint: wrist / elbow / hip / knee / ankle



Features

- Proximal and distal connection: modular bar adapter
- Bar width connection: 12 mm (medium), 16 mm (large)
- Adjustable flexion and extension stops

Article/ size chart – Corrective Joints with modular bar adapter

Item number	Size	Bar width	Joint thickness	Overall length
691730000	Medium	12 mm	22 mm	124 mm
691740000	Large	16 mm	26 mm	145 mm

Corrective Joints with modular bar adapter & T-Bar

Treatment recommendation

Joint: wrist / ankle



Features

- Proximal connection: modular bar adapter
- Bar connection width: 12 mm (medium), 16 mm (large)
- Distal connection: T-bar
- T-bar length: 155 mm (medium), 185 mm (large)
- Adjustable flexion and extension stops

Article/ size chart – Corrective Joints with modular bar adapter & T-Bar

Item number	Size	Bar width	Joint thickness	Offset T-bar	Axis to bottom	Overall length
691750000	Medium	12 mm	28 mm	10 mm	56 mm	116 mm
691760000	Large	16 mm	30 mm	11 mm	72 mm	142 mm

Corrective Joints with integrated bars



Treatment recommendation

Joint: wrist / elbow / knee

Features

- Proximal and distal: integrated bars
- Proximal and distal bar length: 270 mm
- Adjustable flexion and extension stops

Article/ size chart – Corrective Joints with integrated bars

Item number	Size	Bar width	Joint thickness	Overall length
691770000	Medium	12 mm	22 mm	540 mm
691780000	Large	16 mm	26 mm	540 mm

Corrective Joints with integrated bars & T-Bar



Treatment recommendation

Joint: wrist / ankle

Features

- Proximal integrated bar
- Proximal bar length: 270 mm
- Distal connection: T-bar
- T-bar length: 155 (medium), 175 mm (large)
- Bar width: 12 mm (medium), 16 mm (large)
- Adjustable flexion and extension stops

Article/ size chart – Corrective Joints with integrated bars & T-Bar

Item number	Size	Bar width	Joint thickness	Offset T-bar	Axis to bottom	Overall length
69179 0000	Medium	12 mm	28 mm	10 mm	56 mm	327 mm
69180 0000	Large	16 mm	30 mm	11 mm	72 mm	342 mm

MultiMotion 2.5

Dynamic Hip Abduction System for children

Intended use

Treatment of children with dynamically correctable adduction contractures in the hip joint.









Treatment recommendation

Joint: hip (pediatrics)

This system is assembled to individually made KAFO shells and features an infinitely adjustable rotation setting. This allows the leg to be positioned in a physiologically correct manner. The adductors are elongated by the gradually applied tension which stimulates the growth of the shortened tissue and increases joint mobility.



Indications

- Diplegia, spastic
- Hip joint subluxation, congenital
- Tetraplegia, spastic
- Triplegia, spastic

Features

- Adjustable dynamic tension
- Adjustable flexion and extension stops
- Adjustable internal/external rotation (-40° to +40°)
- Quick release, easily disconnects uprights from brace
- Uprights telescope to accommodate growth

Product functionality

- Infinitely adjustable dynamic abduction of the hip joint
- Limiting the adduction or abduction of the hip joint
- Locking the hip abduction and adduction
- Rotation setting of the hip

Benefits in achieving therapy goals

- Improvement/rehabilitation of joint mobility
- Secure and step-wise joint mobilization
- Elongating/mobilizing spastic musculature
- Strengthening the musculature
- Improvement of the resting position
- Prevention of cartilage damage and ulcers

Ordering information

The MultiMotion dynamic hip abduction system is always assembled by two orthotic components - the corrective system joint and the abduction bars – and combined with the KAFO leg shells, they represent the complete hip abduction orthosis. Both orthotic components are available in sizes medium and large and require to be ordered separately.

Article/ size chart – MultiMotion Dynamic Corrective Joints

Item number	UOM	Size	Bar width	Joint thickness
691730000	Each	Medium	12 mm	22 mm
691740000	Each	Large	16 mm	26 mm

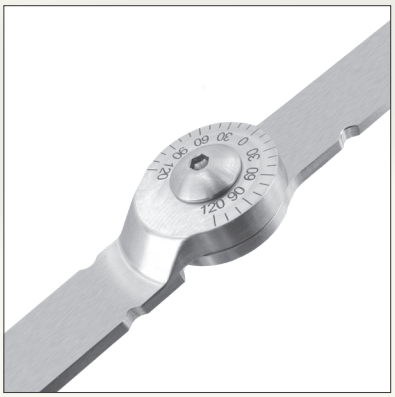
Article/ size chart – MultiMotion Abduction Bars

Item number	UOM	Size	Body length
697210000	Set	Medium	< 105 cm
697200000	Set	Large	> 105 cm

MultiStatic

The MultiStatic Regression Joint enables fast, efficient and adequate static treatment of contractures, primarily caused by orthopedic injuries or diseases, using the HLBS* principles. The angle of the joint is set by an eccentric axis. This continuously adjustable static extension or flexion joint is used in orthoses for both children and adults.







* HLBS = High Load Brief Stretch



Intended use

Static treatment of correctable contractures

Benefits in achieving therapy objectives

- Improvement and rehabilitation of joint mobility
- Improvement of resting posture

Product function

- Continuously adjustable static extension or flexion of the joint

Features

- Easy angle adjustment due to optimally positioned joint axis
- Can be used in flexion and extension
- Range of motion from +120° to –120°
- Hardened joint head and axle
- Integrated bars
- Material: stainless steel

The MultiStatic regression joint is suitable for the static treatment of contractures that have a neurological or orthopedic origin.

Neurological indications

- Apoplexy (CVA)
- Cerebral palsy
- Cranial brain trauma
- Dystrophy
- Multiple sclerosis
- Status after paraplegia
- Spina bifida

Orthopedic indications

- Amputation
- Fracture
- Status after ligament rupture
- Status after joint surgery

Contraindications

- Structural contractures such as ankylosis, fibrosis or ossification
- Deformation of muscles and bones
- Poor blood circulation

Size chart – MultiStatic Regression Joints

Art. no.	UOM	Size	Side	Length	Width	Height	Weight	Ø Joint Head
696890000	Each	X-Small	Universal	100 mm	9 mm	6,5 mm	14 g	11 mm
696900000	Each	Small	Universal	400 mm	12 mm	8,5 mm	83 g	19 mm
696910000	Each	Medium	Universal	400 mm	16 mm	9,5 mm	121 g	25 mm
696920000	Each	Large	Universal	400 mm	19 mm	10,5 mm	151 g	30 mm

Binky

Universal Free Motion Joint

This universal joint is used for the production of orthoses without any flexion or extensions stops. It can also be used as a Free Motion joint.



Features

- Free motion
- Single axle
- Pre drilled M4 threaded holes
- Including four M4 x 6 torx 15 screws and alignment tool
- Material: stainless steel

Indication

- Paralytic syndromes (other)

Article/ size chart – Binky

Article number	Unit	Length	Width	Thickness	Body weight
696880011	Set (2 pieces)	62 mm	12 mm	2,5 mm	< 35 kg
696880013	Set (2 pieces)	76 mm	18 mm	2,5 mm	< 100 kg



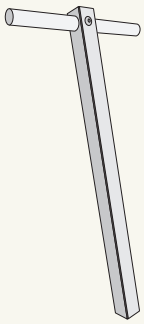




Accessories

MultiMotion alignment unit

This alignment unit eases the production of the orthosis and is a convenient, high quality tool that can be used multiple times for the proper alignment of the MultiMotion joints on the cast.



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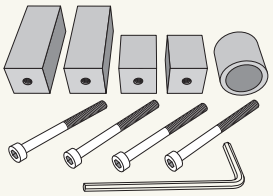

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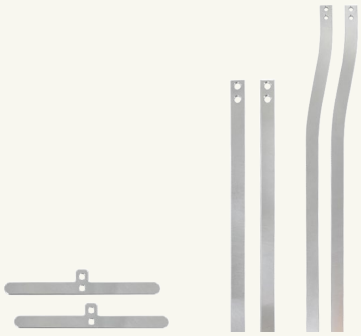
Article/ size chart – Alignment unit

Item number	UOM	Description
691670000	Each	T-Bar
691660000	Set	Alignment unit

Joint Bars

All bars are supplied pre-drilled for optimum attachment. The bars have a high rigidity and are available in two different sizes and several configurations.



Features

- Material: Aluminum

Article/ size chart – Joint Bars

Item number	UOM	Size	Bar Width	Bar Length	Bar Thickness	Model
691600000	Set (2 bars)	Small	12 mm	200 mm	3,2 mm	Straight
691620000	Set (2 bars)	Small	12 mm	350 mm	3,2 mm	Offset
691640000	Set (2 bars)	Small	12 mm	150 mm	3,2 mm	T-Bar
691610000	Set (2 bars)	Medium	16 mm	200 mm	4,0 mm	Straight
691630000	Set (2 bars)	Medium	16 mm	450 mm	4,0 mm	Offset
691650000	Set (2 bars)	Medium	16 mm	150 mm	3,2 mm	T-Bar



FreeMotion Free Movable Joints

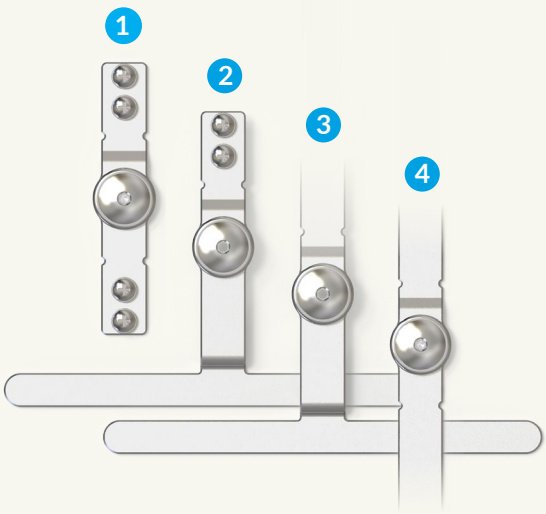
FreeMotion represents a product series of single-axis free motion joints, suitable for individual orthopedic devices of the upper and lower extremity for children, adolescents and adults. The joint can be deployed individually, but is also an ideal companion joint in combination with the MultiMotion corrective joint.

Article/ size chart – Parallel tool set

Item number	UOM	Description
691720000	Set	Freemotion Parallel tool set

Intended use

These free motion joints can be deployed as an individual joint or as a companion joint on the contra lateral side of the affected joint to improve the torsional rigidity of the orthosis.



Features

- Configurations:
  Proximal and distal modular bar adapter (1)
  Proximal bar adapter, distal with T-Bar (2)
  Proximal integrated bar, distal with T-Bar (3)
  Proximal and distal integrated bars (4)
- Range of motion: +120° to -120°
- Material: stainless steel

Article/ size chart – FreeMotion

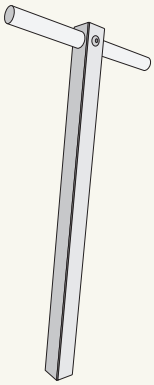
Nr	Item number	Size	Length	Width	Height	Offset T-Bar	Axis to bottom
1	696970000	Small	93 mm	12 mm	11 mm	-	48 mm
2	696980000	Small	97 mm	12 mm	11 mm	10 mm	50 mm
3	696990000	Small	250 mm	12 mm	11 mm	10 mm	50 mm
4	696950000	Small	400 mm	12 mm	11 mm	-	200 mm
1	697000000	Medium	97 mm	16 mm	11 mm	-	48 mm
2	697030000	Medium	105 mm	16 mm	11 mm	10 mm	55 mm
3	697040000	Medium	260 mm	16 mm	11 mm	10 mm	55 mm
4	696960000	Medium	400 mm	16 mm	11 mm	-	200 mm

MultiStatic Alignment Unit

This alignment unit simplifies the production of the orthosis and is a convenient, high-quality tool that can be reused multiple times for correct alignment of the FreeMotion joints on the cast.

Size chart – Alignment unit

Item number	UOM	Description
691670000	Each	Alignment T-Bar
691710000	Set	Alignment Unit



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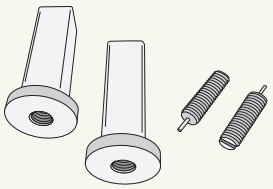

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Support for Better Life

Everyone should be able to live their life to the fullest, regardless of their mobility challenges. With innovative solutions developed in close collaboration with healthcare professionals and patients, we strive to provide Support for Better Life.

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