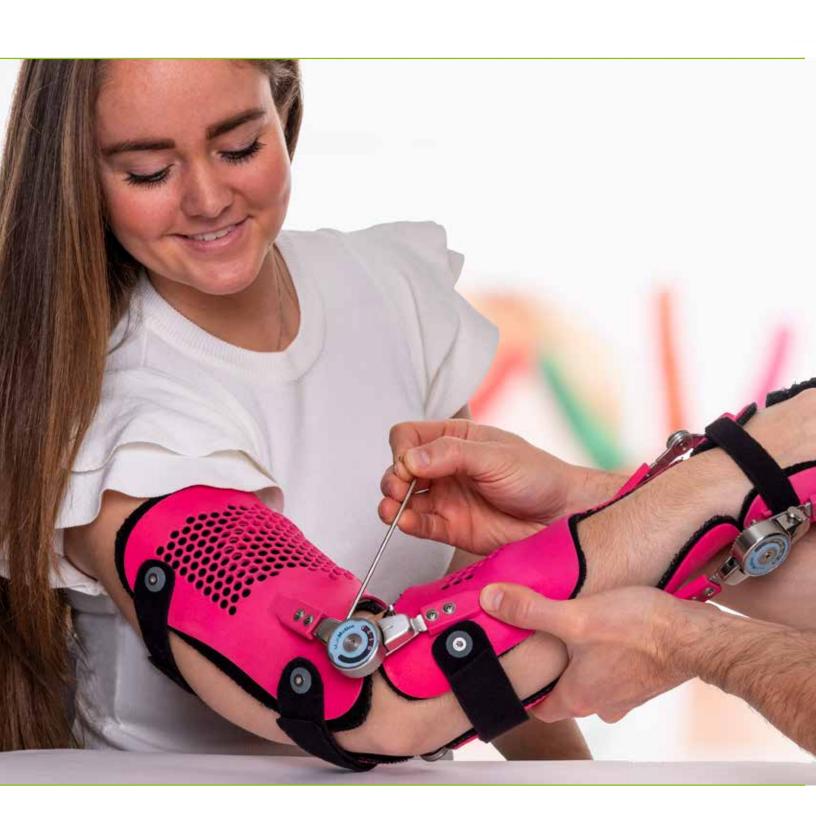
Dynamic Corrective Joints







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.



Dynamic Corrective Joint

Intended use: treatment of dynamically correctable contractures



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

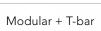
- Improvement/rehabilitation of joint mobility
- Secure and step-wise joint mobilization
- Elongating/mobilizing spastic musculature
- Strengthening the musculature
- Improvement of the resting position
- Prevention of cartilage damage and ulcers

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









Integrated bars + T-bar

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



Size chart

Item number	Size	Bar width	Joint thickness	Offset T-bar	Overall length	Joint weight	Housing diameter	Maximum spring load
69152 0000	medium	12 mm	19 mm	-	124 mm	125 g	36 mm	4,1 Nm
69140 0000	large	16 mm	24 mm	-	144 mm	268 g	50 mm	8,4 Nm

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



Item number	Bar width	Joint thickness	Offset T-bar	Axis to bottom	Joint weight	Housing diameter	Maximum spring load
69159 0000	12 mm	19 mm	10 mm	56 mm	154 g	36 mm	4,1 Nm
69147 0000	16 mm	24 mm	10 mm	73 mm	303 g	50 mm	8,4 Nm

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



Size chart

ltem number	Size	Bar width	Joint thickness	Offset T-bar	Overall length	Joint weight	Housing diameter	Maximum spring load
69149 0000	medium	12 mm	19 mm	-	540 mm	210 g	36 mm	4,1 Nm
69148 0000	large	16 mm	24 mm	-	540 mm	405 g	50 mm	8,4 Nm

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



Item number	Size	Bar width	Joint thickness	Offset T-bar	‡ Axis to bottom	Joint weight	Housing diameter	Maximum spring load
69151 0000	medium	12 mm	19 mm	10 mm	56 mm	125 g	36 mm	4,1 Nm
69150 0000	large	16 mm	24 mm	10 mm	73 mm	268 g	50 mm	8,4 Nm

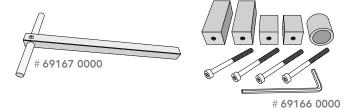
Accessories

MultiMotion alignment units

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.

Size chart

Item number	Description
69167 0000	Alignment T-Bar
69166 0000	Alignment Kit

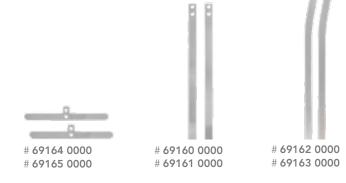


Joint Bars

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



Item number	Size	Bar Length	Bar Width	Bar Thickness	Model
69160 0000	small 200 mm 1		12 mm	3,2 mm	Straight
69162 0000	small	350 mm	12 mm	3,2 mm	Offset
69164 0000	small	150 mm	12 mm	3,2 mm	T-Bar
69161 0000	medium	200 mm	16 mm	4,0 mm	Straight
69163 0000	medium	450 mm	16 mm	4,0 mm	Offset
69165 0000	medium	150 mm	16 mm	3,2 mm	T-Bar



Accessories

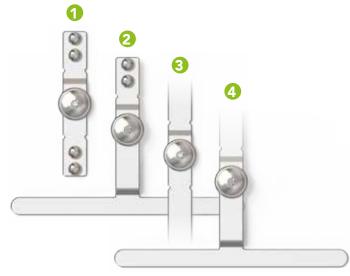
FreeMotion Free Movable Joints

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.

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



Nr.:	Item number	Size	Side	Length	Width	Height	Weight	Ø Joint head	Offset T-Bar	‡ Axis to bottom
1	69697 0000	small	universal	93 mm	12 mm	11 mm	40 g	18 mm	-	46 mm
2	69698 0000	small	universal	97 mm	12 mm	11 mm	72 g	18 mm	10 mm	50 mm
3	69695 0000	small	universal	400 mm	12 mm	11 mm	102 g	18 mm	-	200 mm
4	69699 0000	small	universal	250 mm	12 mm	11 mm	106 g	18 mm	10 mm	50 mm
1	69700 0000	medium	universal	97 mm	16 mm	11 mm	52 g	22 mm	-	48 mm
2	69703 0000	medium	universal	105 mm	16 mm	11 mm	88 g	22 mm	10 mm	55 mm
3	69696 0000	medium	universal	400 mm	16 mm	11 mm	140 g	22 mm	-	200 mm
4	69704 0000	medium	universal	260 mm	16 mm	11 mm	134 g	22 mm	10 mm	55 mm



Dynamic Hip Abduction System

Intended use: Treatment of 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

- Infinitely adjustable abduction force
- Adjustable flexion and extension stops
- Infinitely adjustable rotation (-40° to +40°)
- Quick release for leg shells for easy donning and doffing

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 KEVO 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.

Size chart - MultiMotion Dynamic Corrective Joints

Item number	Size	Bar width	Bar thickness	Joint weight	Housing diameter	Maximum spring load
69152 0000	medium	12 mm	19 mm	125 g	36 mm	4,1 Nm
69140 0000	large	16 mm	24 mm	268 g	50 mm	8,4 Nm

Size chart - MultiMotion Hip Abduction Uprights

Item number	Size	Body length	Package
69721 0000	medium	< 105 cm	1 pair
69720 0000	large	> 105 cm	1 pair









The MultiStatic Joint enables fast, efficient, and effective static treatment of contractures due primarily to orthopedic injuries or diseases, utilizing HLBS (High Load Brief Stretch) 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.

- Easy angle adjustment due to optimally positioned joint axis
- Can be used in fl exion and Extension
- Range of motion from +120° to -120°
- Joint head and axle hardened
- Integrated bars
- Material: stainless steel



Item No.	Product description	Width	Length	Thickness	Height	Diameter	Weight
696890000	MultiStatic 9 mm Static Joint	9 mm	100 mm	2 mm	6.5 mm	11 mm	14 grams
696900000 MultiStatic 12 mm Static Joint		12 mm	400 mm	2 mm	8.5 mm	19 mm	83 grams
696910000	MultiStatic 16 mm Static Joint	16 mm	400 mm	2 mm	9.5 mm	24 mm	122 grams
696920000	MultiStatic 19 mm Static Joint	19 mm	400 mm	2 mm	10.5 mm	30 mm	153 grams

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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.

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



Size chart - Binky - Universal Free Motion Joint

Item number	Width	Length	Thickness	Package
69688 0011	12 mm	62 mm	2,5 mm	1 pair
69688 0013	18 mm	76 mm	2,5 mm	1 pair

