

# FreeMotion

Free movable Joints



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# 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 used individually, but is also an ideal companion joint for the MultiMotion, MultiStatic and Titan Double Action joint.

**Intended use:** these free motion joints can be utilized as an individual joint or as a companion joint on the contralateral side of the affected joint to improve the torsional rigidity of the orthosis.

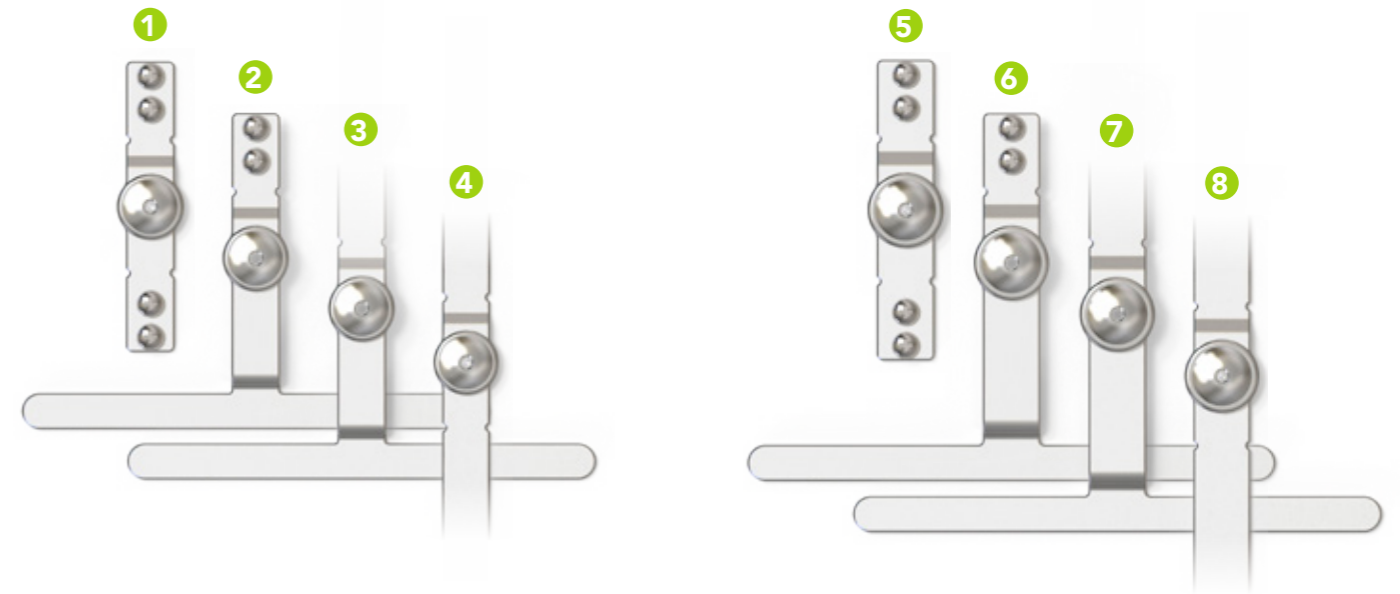


### Features

- Configurations:
  - Proximal and distal a modular bar adapter (1 & 5)
  - Proximal a bar adapter, distal with T-bar (2 & 6)
  - Proximal integrated bar, distal with T-bar (3 & 7)
  - Proximal and distal integrated bars (4 & 8)
- Range of Motion: +120° to -120°
- Bar width: 12 mm (small), 16 mm (medium)
- Bar thickness: 3 mm
- Material: stainless steel

## Components

The FreeMotion joints are available in the sizes small and medium, each in the following configurations: With modular bar adapter or with integrated bars and/or with T-bar. An alignment tool and various joint bars are available as accessories for the FreeMotion joints.



### Size chart

Nr.:	Item number	UOM	Size	Side	Length	Width	Height	Weight	Ø Joint Head	Offset T-Bar	Length bottom to axis
1	FM03M-12	each	small	universal	93 mm	12 mm	11 mm	40 g	18 mm	-	46 mm
2	FM03MT-12	each	small	universal	97 mm	12 mm	11 mm	72 g	18 mm	10 mm	50 mm
3	FM03BT-12	each	small	universal	250 mm	12 mm	11 mm	106 g	18 mm	10 mm	50 mm
4	FM03B-12	each	small	universal	400 mm	12 mm	11 mm	102 g	18 mm	-	200 mm
5	FM04M-16	each	medium	universal	97 mm	16 mm	11 mm	52 g	22 mm	-	48 mm
6	FM04MT-16	each	medium	universal	105 mm	16 mm	11 mm	88 g	22 mm	10 mm	55 mm
7	FM04BT-16	each	medium	universal	260 mm	16 mm	11 mm	134 g	22 mm	10 mm	55 mm
8	FM04B-16	each	medium	universal	400 mm	16 mm	11 mm	140 g	22 mm	-	200 mm

## Accessoires

### 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: Auminium

### Size chart

Item number	UOM	Bar lenght	Bar width	Bar thickness	Model
BAR-S-12	set (2 bars)	200 mm	12 mm	3,2 mm	Straight
BAR-O-12	set (2 bars)	350 mm	12 mm	3,2 mm	Offset
BAR-T-12	set (2 bars)	150 mm	12 mm	3,2 mm	T-Bar
BAR-S-16	set (2 bars)	200 mm	16 mm	4,0 mm	Straight
BAR-O-16	set (2 bars)	450 mm	16 mm	4,0 mm	Offset
BAR-T-16	set (2 bars)	150 mm	16 mm	3,2 mm	T-Bar

### FreeMotion 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 FreeMotion joints on the cast.

### Size chart

Item number	UOM	Description
AK-100	each	T-Bar
AK-104	set	Alignment Unit

