



# CDS Joint Selection Guide

## How to use the CDS Joint Selection Guide

This guide document is intended to assist clinicians with the selection & ordering of Albrecht CDS joint components. This is not a prescription guide to recommend which CDS joints are best suited for particular clinical presentations – for indications & contraindications for use, please check the product listings in the full Albrecht catalogue\*.

\*available to download at the [Momentum Health Technologies website](https://www.momentumht.com.au)

When designing an orthosis with CDS joints, for each functional joint in the orthosis there are 3 main components required (as shown in diagram):

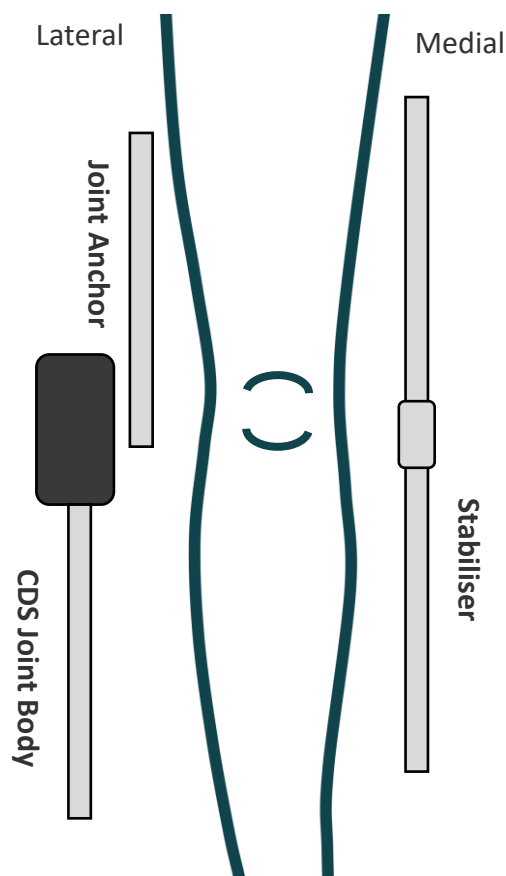
1. CDS Joint Body
2. CDS Joint Anchor
3. Stabiliser

At minimum, a CDS joint body and joint anchor are required. CDS joints may be used without a stabiliser in laminated devices, or if they're only being used at the elbow or wrist.

CDS joints can also be doubled-up for extra spring tension – order the opposite side CDS joint & anchor to match, in lieu of a stabiliser. See attached [individual hinge finder guide](#) for assistance in selecting a side based on flexion/extension needs.

There are 6 main steps outlined in this document:

1. Choose your metal bar material
2. Choose your CDS joint body & side
3. Choose your joint anchor
4. Choose your Stabiliser design (follower joint)
5. Choose a bar thickness for all selected components
6. Match selections to Product Codes for ordering



[Contact us](#) for a copy of the latest Albrecht price list and to query CDS configuration options.

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# CDS Joint Selection Guide

## Step 1: Choose your metal bar material

**Stainless Steel (VA)**  
load-bearing day wearing devices

**Aluminium**  
bed resting devices only

**Note:** "adapter" components (regardless of material) are intended for laminated device fabrications

## Step 2: Choose your CDS joint body & side



**CDS Nano**

Paediatrics & Wrists



**CDS Hinge 360**

Adult All-Rounder

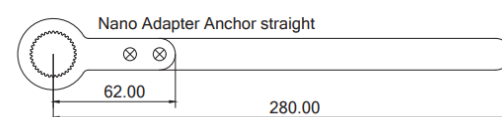
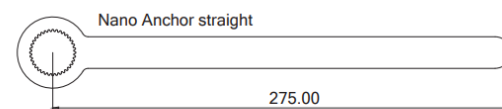
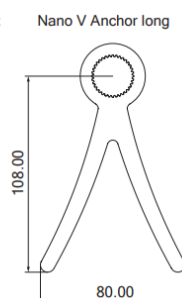
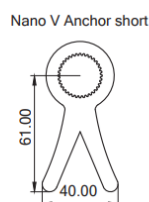
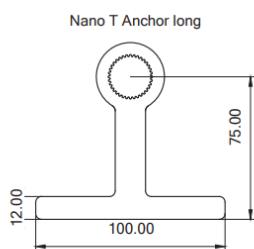
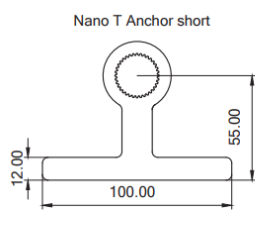
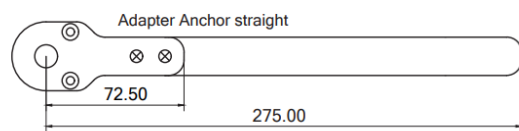
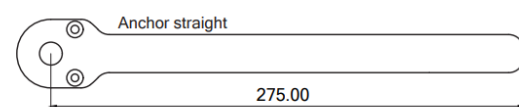
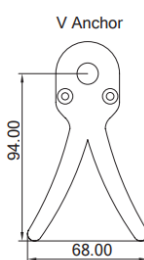
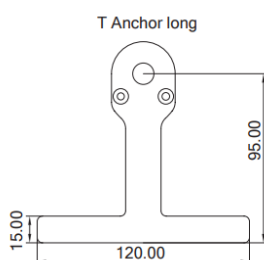
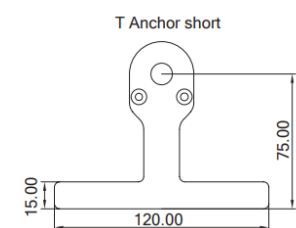


**CDS Hinge 360 Plus**

Extra 15° Hyperextension range

**Note:** see attached [individual hinge finder](#) guide for assistance in selecting a side based on flexion/extension needs

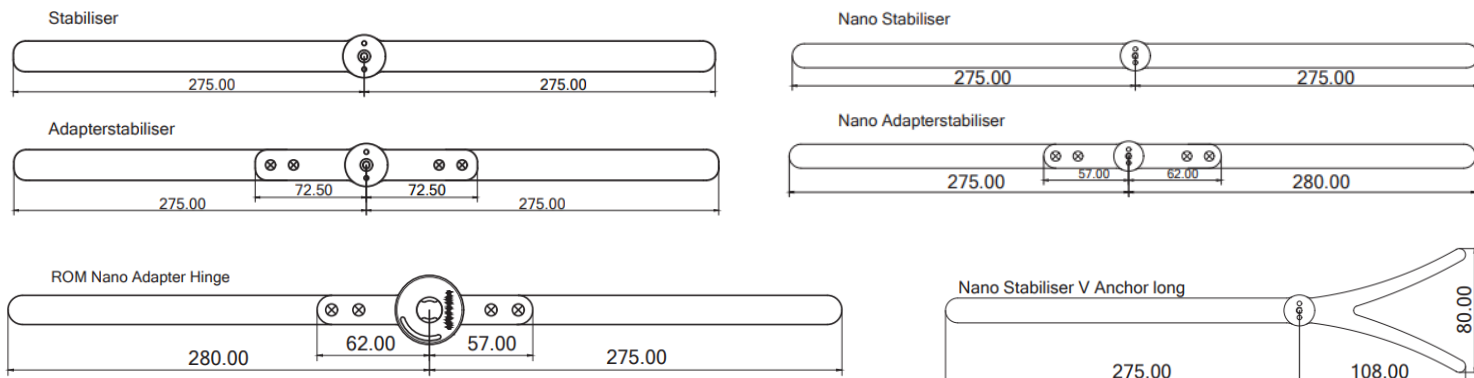
## Step 3: Choose your joint anchor



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# CDS Joint Selection Guide

## Step 4: Choose your Stabiliser design (follower joint)



**Note 1:** In general, match the stabilizer to the parameters of the CDS joint body. However, for most cases Nano stabilisers are also suitable to be paired with a Hinge 360 and Hinge 360 Plus joint body if desired

**Note 2:** CDS joints may be used without a stabiliser in laminated devices, or if they're only being used at the elbow or wrist

**Note 3:** CDS joints can also be doubled-up for extra spring tension – order the opposite side CDS joint & anchor to match, in lieu of a stabiliser

**Note 4:** the ROM Nano Adapter Hinge allows limitation of the functional range for Nano joints – the Hinge 360 & Hinge 360 Plus already have this functionality built into their joint body

## Step 5: Choose a bar thickness for all selected components

**16mm:** This width enables a very slim design of the orthosis. With VA as material, the width is also suitable for load-bearing orthoses in the knee or ankle (assumption: adult with average body measurements, no high body weight).

**For higher body weights, Albrecht recommend the bar widths 20mm or 24mm (in VA) to ensure the stability.**

**20mm / 24mm:** When making load-bearing orthoses, these widths (VA) are appropriate for higher body weights

**Note:** Some stabilisers & anchors only have one thickness option, check full Albrecht catalogue for more details

## Step 6: Match selections to Product Codes for ordering

CDS Options	Example Selections
Joint Side	Left
Bar Material	Stainless Steel (VA)
Joint Body	CDS Hinge 360, 20mm
Anchor	T-Anchor Long
Stabiliser	Stabiliser, 20mm



**Example order from selections:**

- **1 x 812-205-L**  
CDS Hinge 360 20mm Stainless Steel Left
- **1 x 813-410-S**  
CDS T-Anchor Long Stainless Steel
- **1 x 830-160-S**  
CDS Stabiliser 20mm stainless steel

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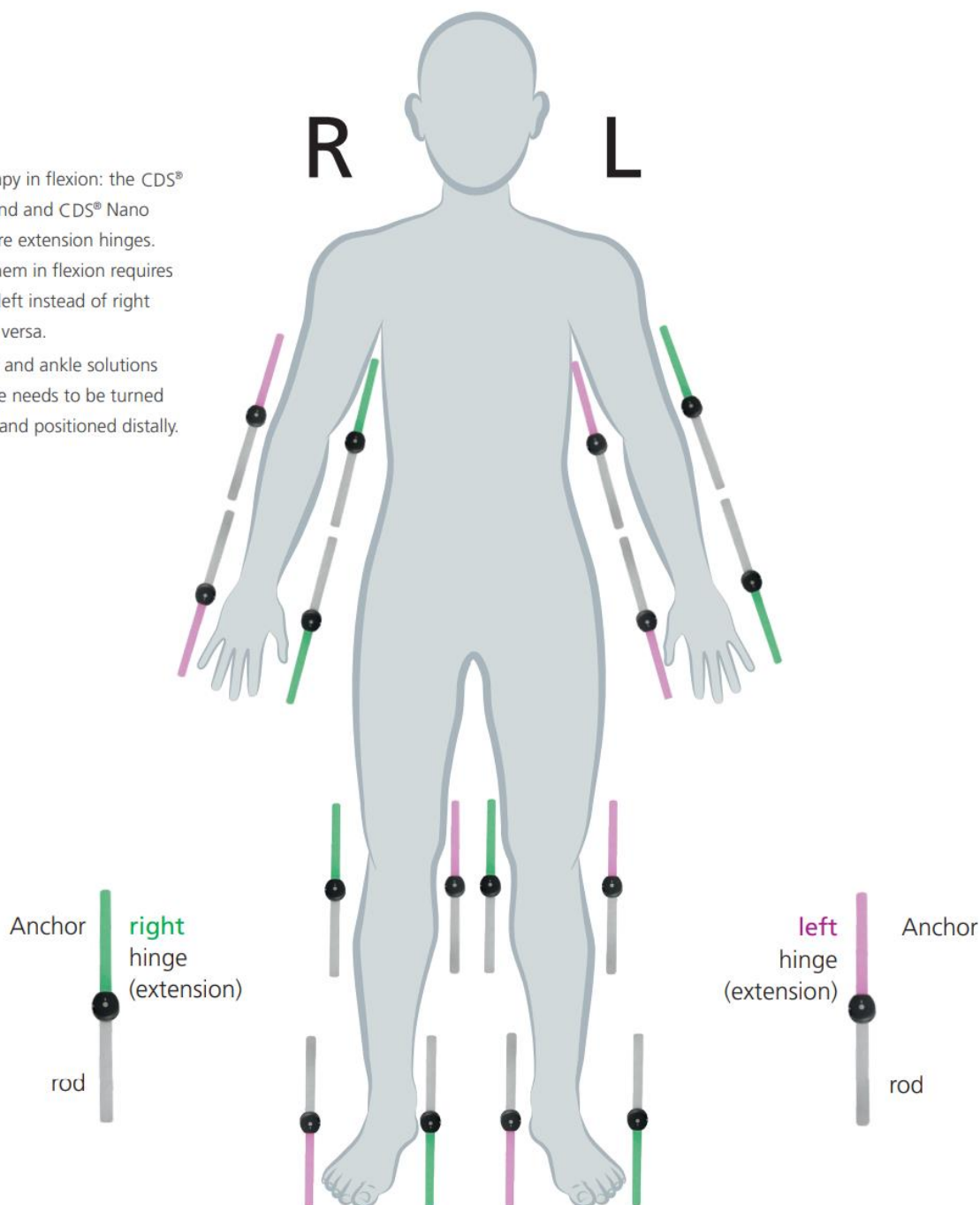


# CDS Joint Selection Guide

## Individual Hinge Finder for CDS Hinges

### Note

- For therapy in flexion: the CDS® hinges and CDS® Nano hinges are extension hinges. To use them in flexion requires choosing left instead of right and vice versa.
- For wrist and ankle solutions the hinge needs to be turned by 180° and positioned distally.



### Material and width

	CDS® (3 mm thickness)		
aluminium	20 mm	24 mm	
steel (VA)	16 mm	20 mm	24 mm

	CDS® Nano (2 mm thickness)	
aluminium	16 mm	
steel (VA)	16 mm	

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