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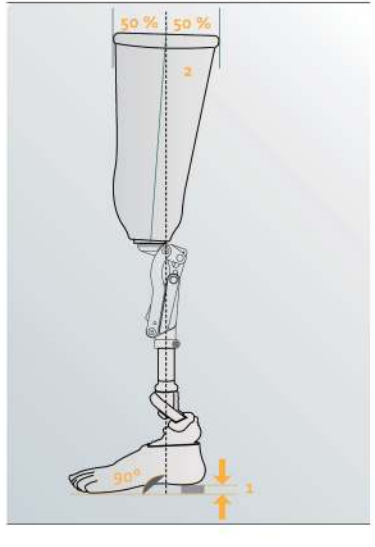
CE

USMC X6

Instructions for USMC X6 Prosthetic Knee Joint

Easy Guide

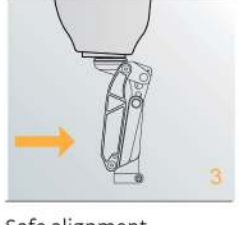
Bench Alignment



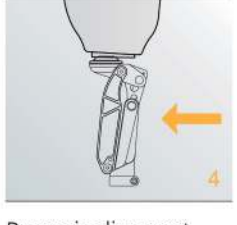
Alignment

1 Individual heel height

2 Individual flexion setting



Safe alignment



Dynamic alignment

Safety Warnings

The USMC X6 knee joint is a polyaxial polycentric knee joint with a stable aluminium frame construction. It is suitable for users in mobility classes (2) and 3, and is approved for a maximum body weight of 125 kg.

Control of the swing phase is actively supported by the integrated, high-performance pneumatic system. Flexion and extension can be adjusted separately to meet the needs of the user.

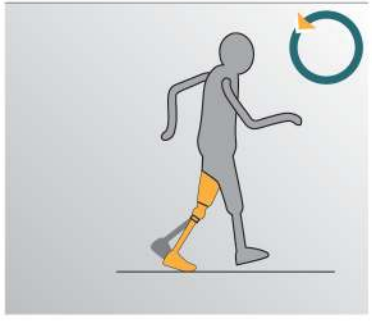
Technical data

Name	X6
Material	Alloy lihgt aviation
Amputation level	Above knee
Maximum body weight	125kg
Mobility class	(II) and III
Overall fitted height	ca. 215 mm
Effective fitted height	ca. 157 mm
Fitted height	ca. 17 mm
Weight	ca. 1050g

Ground clearance	ca. 15 mm
Proximal connection	Pyramid
Distal connection	Integrated 30 mm tube receiver
Swing phase	Pneumatic
Stance phase	Adjustable axle geometry, optional closing geometry
Axes	Polycentric
Flexion angle without socket	ca. 150°

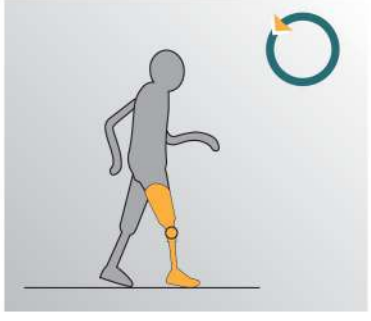
Adjustment

Too much flexion
Turn the flexion valve to the right with a 3 mm Allen key.



Too little flexion
Turn the flexion valve to the left with a 3 mm Allen key.

Hard extension of end stop
Turn the extension valve to the right with a 3 mm Allen key.



Extension too slow
Turn the extension valve to the left with a 3 mm Allen key.

The USMC X6 knee joint is supplied by the factory in full working order with the basic settings. Carefully start testing the function of the joint with the user at the dynamic fitting and check whether this basic setting suits the needs of your patient. If not, please go through the following steps.

Stance phase stability

Adjustment by shifting the joint

In the basic configuration described here, the axial alignment gives high stance phase stability.
This can be adjusted to the individual needs of the patient by shifting the knee joint in the AP direction.

Adjusting the axle geometry

The axle geometry of the USMC X6 can be changed using interchangeable wedges. This allows the time of transition from the stance phase to the swing phase to be adjusted to the user's desired need for safety.

The axle geometry can be adjusted in three different settings:

Joint without wedge (as supplied)
→ high safety with A-P shifting

Joint with wedge A
→ Safety without A-P shifting

Joint with wedge B
→ highly dynamic

USMC X6 is supplied without a wedge. Wedge A and wedge B are available as accessories in the Dynamic Set.

If necessary, the wedges are mounted on the back stub axle with two screws.

To change or remove the wedge loosen the screws After changing the wedge tighten the screws by hand again and secure with Loctite. Use a 2 mm Allen key.

Swing phase control

You can set flexion and extension separately depending on the user's needs.
The pneumatic system is supplied in its basic setting. In the basic setting, both valves are opened 2 turns. You can adjust the joint to any individual gait from this basic setting.