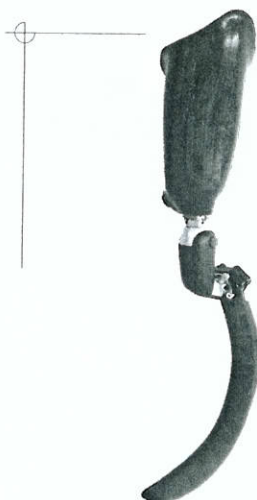


「 Sport leg 」



◀ IMASEN ENGINEERING CORPORATION

SP0700 Sport Knee Joint - for running



This single axis knee joint can easily be used by beginners.

The unique CAM mechanism is active at flexion to prevent knee buckling.

The hydraulic cylinder absorbs the terminal impact.

The connection system does not need the L-Shaped Plate, thus the prosthetic weight is reduced.

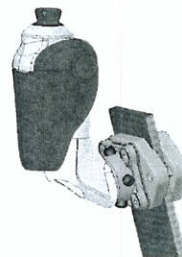
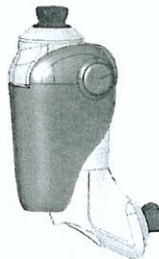
4

Running Knee Joint

Proto-type



Final model



Running Knee Joint

Designed for short distance

- Designed for athlete and primary amputee.
- Easy Connect to sport foot
- Special hydraulic dumper for Prevent terminal impact
- Slot extension spring for swing phase



Proto-type



Final model

Running Knee Joint

This knee joint is designed for running sports. It has a smooth function due to its unique CAM mechanism and hydraulic cylinder.

The CAM mechanism is active during flexion and the hydraulic cylinder allows adjustments of swing phase and terminal impact.

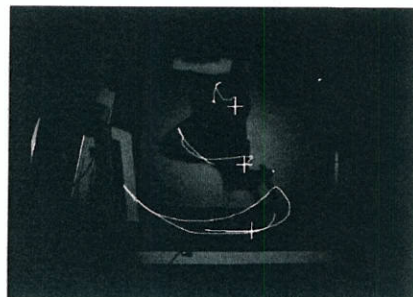
Running Knee joint

Feeling test of proto-type



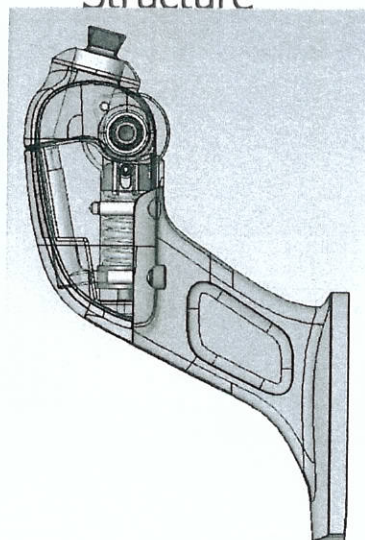
Running Knee joint

Measurement



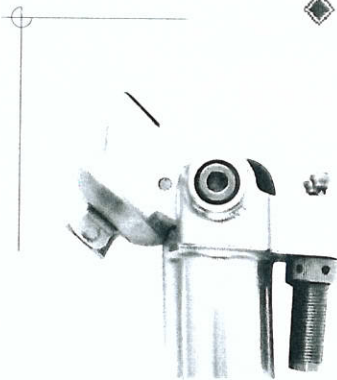
SP0700 Sport Knee Joint - for running

Structure

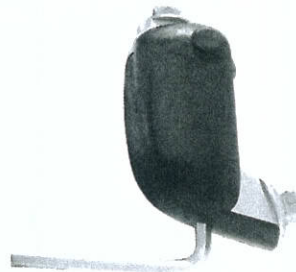


SP0700 Sport Knee Joint - for running

◆ Adjustment

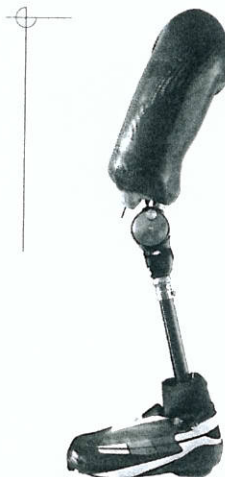


Terminal impact



**Extension and
Flexion
Resistance**

SP0701 Step Knee Joint - with adjustable flexion lock



This knee has step function as the knee is bent.

It has gradual locking positions (0° , 20° , 40° and 60°).

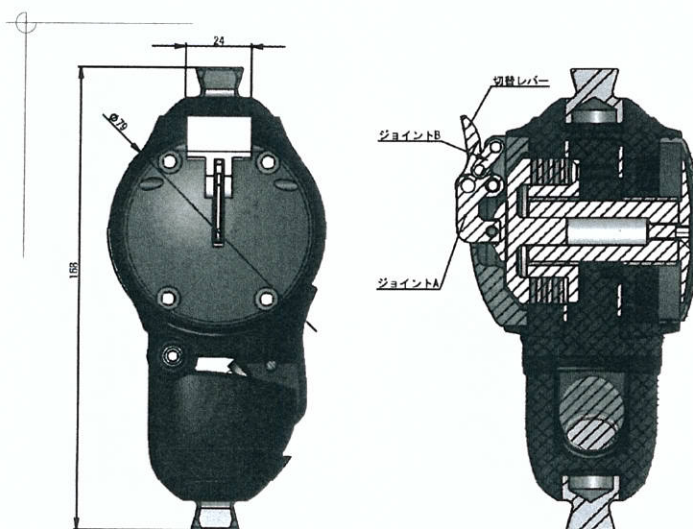
The shock absorption function works when the load is applied in the locked position. (Maximum flexion angle approx. 25°).

Step Knee joint

This knee joint is designed for ski, tennis , badminton etc.

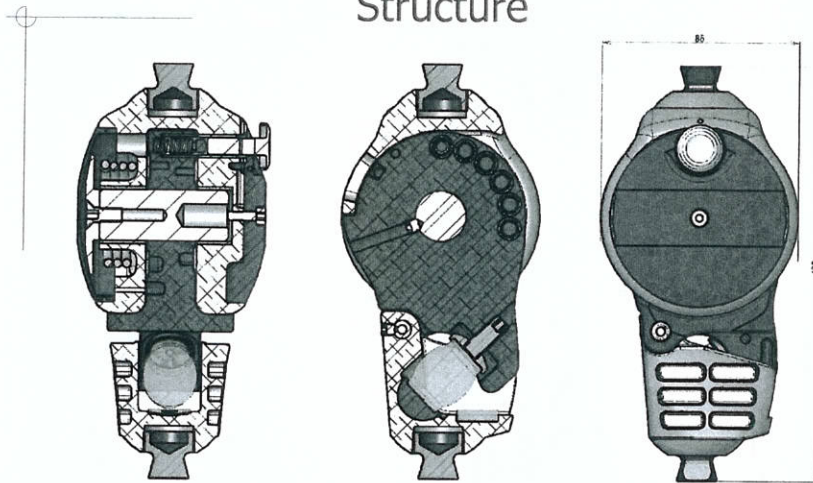
This knee has gradual locking adjustments (0° , 20° , 40° and 60°) and is additionally equipped with a shock absorber.

Step Knee Joint



SP0701 Step Knee Joint - with adjustable flexion lock

Structure



SP0701 Step Knee Joint - with adjustable flexion lock

◆ Adjustment



Locking adjustment

Shock absorption

Step Knee Joint

Field Test



Cross-country



Badminton

Design model

