

# Magnification Marker User Guide

When using pre-operative X-rays for graft sizing, a marker of known size must be used and placed precisely relative to the patient's joint in order to obtain the correct sized allograft for repairing meniscal and cartilage defects. Since X-rays are magnified, using a properly placed magnification marker is one method to accurately determine the amount of magnification being used.

JRF Ortho magnification markers contain two metal balls that are 10cm apart. This allows JRF Ortho personnel to quickly determine and adjust for the magnification used.

**Accurate magnification cannot be determined if the marker is not properly positioned.**

## The following steps outline the correct use of a magnification marker

- ▶ The marker must be positioned at the level of the bone being examined
- ▶ The marker should not be placed on the table or on the X-ray film container, as this will skew the reading resulting in incorrect sizing
- ▶ For anterior / posterior films, the marker should be placed on the medial or lateral side of the limb and over the joint space as show in Figure 1
- ▶ For lateral views, the marker should be placed on the anterior aspect as shown in Figure 2

In either circumstance, the marker should be placed parallel to the sagittal plane. The marker can be secured using a wrap or rubber band and can be used on all joints and bones.

JRF Ortho has a supply of free magnification markers. Please contact JRF Ortho with any questions or to order a magnification marker at 877-255-6727.



Figure 1: Anterior / Posterior (A/P) View



Figure 2: Lateral View