



PRECISION MANUFACTURING

## Order Form Tips

### *Why do we need all these measurements?*

The scanner takes a series of pictures, and the software assembles these pictures like a puzzle. When the software assembles these pictures, it will have a certain tolerance. The tolerance only applies to the picture being taken and not to the final product.

When assembling the pictures to spec on one end of the cast, the measurements on the other end of the cast will be off significantly as the scan assembly error will increase as it gets further from the origin of the assembly error.

This means that when the software assembled the picture only slightly off at the malleolus, say 1mm narrow, that can distort the ML at the 1st met by 3-8mm. Having the ML off at the 1st met by more than 3-4mm will cause a poor fit.

Since the topography of the shape matches the topography of the patient, we can correct this in CAD if we possess the measurements of the patient. Without these measurements there is a 30% chance of achieving a deliverable but poor fit and a 20% chance of an undeliverable fit.

The low chance of a perfect brace without patient measurements is not acceptable in our practice.