





# Digital Modification Service

## Alignment / Measurement standards for MHT's Digital Modification Service

To ensure consistency across our modification service, we have created this list of standardized alignment/measurement standards which our CAD/CAM team utilize.

These standards may be different to your own typical measurement techniques – if utilizing our modification service, please use our standards as to ensure correct prescriptions are achieved. Contact us if you have any questions.

### Foot Angles

#### Dorsiflexion / Plantarflexion Angle

Neutral DF/PF angle is defined when Shank-to-Vertical Angle (SVA) is 5° inclined in relation to plantar surface of foot – see Figure 1

#### Calcaneal Inversion / Eversion Angle

INV/EV position of the calcaneus (supination/pronation) is observed through a cross-section of the subtalar joint, taken as a circumferential image at the diagonal of the heel. Neutral is considered as the heel directly in line with a vertical shank in the coronal plane. Calc is considered inverted if it deviates medially in relation to the shank (supination), and vice versa – see Figure 2

#### Forefoot Internal / External rotation

Neutral forefoot rotation (supination/pronation) is considered as the 1<sup>st</sup> & 5<sup>th</sup> met heads perpendicular to the shank, or both 1<sup>st</sup> & 5<sup>th</sup> “flat to floor”. Forefoot is considered externally rotated (supinated) if 1<sup>st</sup> MH is raised compared to the 5<sup>th</sup>, and vice versa – see Figure 3

#### Forefoot Abduction / Adduction

All casts/scans received for MHT digital mods are considered as being in a “Neutral” forefoot position unless specified otherwise by the prescribing clinician. If further Abduction is requested, the distal half of the foot will be deviated laterally by the specified degrees, and vice versa.

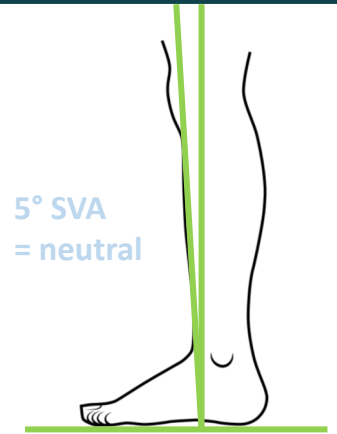


Figure 1

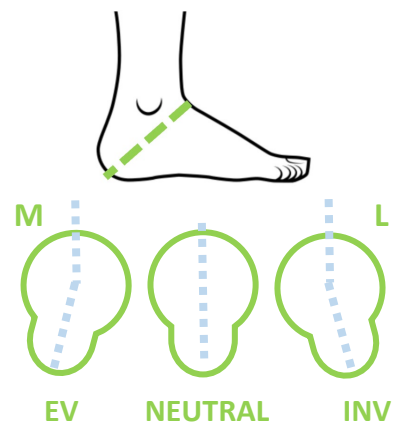


Figure 2

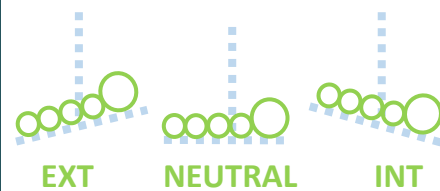


Figure 3

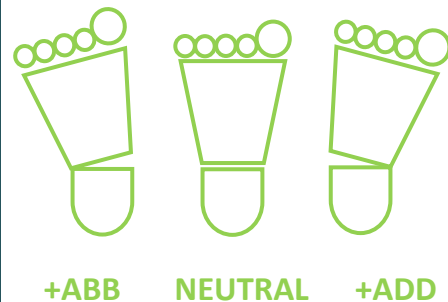


Figure 4

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## Foot Angles (cont.)

### Shoe Pitch

Shoe pitch will be added after corrections are made to the DF/PF angle. Shoe pitch is measured in mm difference between the plantar surface of the forefoot and the heel - see figure 5.

### Toe Spring

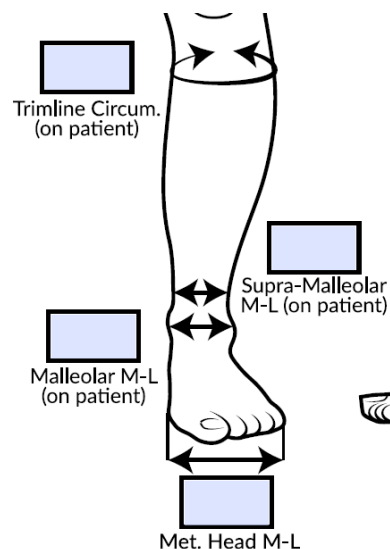
Toe-spring is the final angular correction made to the foot and will be added in addition to any shoe pitch. If no toe-spring is specified then a standard spring of 3-5 degrees will be added to assist with roll-off and increase device longevity.

## M/L and Circ Measurements

In order to compete an order form for cast modification you will require a number of pre-determined M/L and circumferential measurements. It is important that these measurements are taken **directly from the patient**. These measurements will be used to confirm the accuracy of 3D Scans and act as a baseline for modifications.



Figure 5



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