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| --- | --- | --- | --- | --- | --- | --- | --- |
| TLEM model | | | | | | | |
| Joints |  |  |  |  |  |  |  |
| Pelvis-ground | origin | manual | 23 | -187 | -247 |  |  |
|  |  | Auto | 24 | -187 | -241 |  |  |
|  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
| Hip joint | HJC | Manual | -64 | -147 | -319 |  |  |
|  |  | auto | -64 | -147 | -319 |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | radius |  |
| Knee joint | KJC | manual | -72 | -117 | -685 | 20 |  |
|  |  | auto | -73 | -117 | -686 | 20 |  |
|  | Axis | manual | -0.9064 | 0.4149 | 0.0797 |  | <1 degree diff |
|  |  | auto | -0.9068 | 0.4131 | 0.0835 |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  | x | y | z | Radius |  |
| Ankle Joint | ankle | Manual | -85 | -116 | -1055 | 21 |  |
|  |  | auto | -86 | -115 | -1056 | 22 |  |
|  | Axis |  |  |  |  |  |  |
|  |  | Manual | 0.5078 | -0.8566 | -0.0916 |  | 1 degree diff |
|  |  | Auto | 0.5195 | -0.8506 | -0.0805 |  |  |
| Subtalar Joint | TCalc JC |  | x | y | z | radius |  |
|  |  | Manual | -73.4 | -97 | -1062 | 16 |  |
|  |  | Auto | -73.3 | -97.9 | -1062 | 16 |  |
|  | TNavic |  | x | y | z | radius |  |
|  |  | Manual | -93 | -128 | -1062 | 17 |  |
|  |  | auto | -94 | -129 | -1064 | 14 |  |
|  | axis |  |  |  |  |  |  |
|  |  | manual | -0.5247 | -0.5247 | -0.5247 |  | <4 degrees diff |
|  |  | Auto | -0.5548 | -0.8301 | -0.0563 |  |  |

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| LHDL model | | | | | | | |
| Joints |  |  |  |  |  |  |  |
| Pelvis-ground | origin | manual | 238 | 181 | -361 |  |  |
|  |  | Auto |  |  |  |  |  |
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|  |  |  | X | Y | Z | Radius |  |
| Hip joint | HJC | Manual | 144 | 243 | -432 | 23 |  |
|  |  | auto | 144 | 243 | -433 | 23 |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | radius |  |
| Knee joint | KJC | manual | 122 | 292 | -830 |  |  |
|  |  | auto | 123 | 291 | -830 |  |  |
|  | Axis | manual |  |  |  | 21 | degree diff |
|  |  | auto | -0.9959 | 0.0165 | 0.0887 | 21 |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Radius |  |
| Ankle Joint | AJC | Manual | 123 | 303 | -1235 | 21 |  |
|  |  | auto | 123 | 303 | -1235 | 22 |  |
|  | Axis |  |  |  |  |  |  |
|  |  | Manual |  |  |  |  | degree diff |
|  |  | Auto |  |  |  |  |  |
| Subtalar Joint | TCalc JC |  |  |  |  | radius |  |
|  |  | Manual | 132 | 325 | -1255 | 16 |  |
|  |  | Auto |  |  |  | 16 |  |
|  | TNavic |  |  |  |  | radius |  |
|  |  | Manual |  |  |  | 17 |  |
|  |  | auto |  |  |  | 14 |  |
|  | axis |  |  |  |  |  |  |
|  |  | manual |  |  |  |  | degrees diff |
|  |  | Auto |  |  |  |  |  |