

## 1. Force Plates

| FP1    | FP2 | FP3 | dimension |    |    | unit   |
|--------|-----|-----|-----------|----|----|--------|
| Force  |     |     | Fx        | Fy | Fz | [N]    |
| Moment |     |     | Mx        | My | Mz | [N.mm] |
| CoP    |     |     | Cx        | Cy | Cz | [mm]   |

## 2. Model Outputs

| Left              | Right          | dimension |    |    | unit      |
|-------------------|----------------|-----------|----|----|-----------|
| CentreOfMass      |                | X         | Y  | Z  | [mm]      |
| CentreOfMassFloor |                | X         | Y  | Z  | [mm]      |
| HED               |                | RX        | RY | RZ | [deg]     |
|                   |                | TX        | TY | TZ | [mm]      |
|                   |                | SX        | SY | SZ | [mm]      |
| PEL               |                | RX        | RY | RZ | [deg]     |
|                   |                | TX        | TY | TZ | [mm]      |
|                   |                | SX        | SY | SZ | [mm]      |
| TRX               |                | RX        | RY | RZ | [deg]     |
|                   |                | TX        | TY | TZ | [mm]      |
|                   |                | SX        | SY | SZ | [mm]      |
| LAbsAnkleAngle    | RAbsAnkleAngle | X         | Y  | Z  | [deg]     |
| LAnkleAngles      | RAnkleAngles   | X         | Y  | Z  | [deg]     |
| LAnkleForce       | RAnkleForce    | X         | Y  | Z  | [N/kg]    |
| LAnkleMoment      | RAnkleMoment   | X         | Y  | Z  | [N.mm/kg] |
| LAnklePower       | RAnklePower    | X         | Y  | Z  | [W/kg]    |
| LCL               | RCL            | RX        | RY | RZ | [deg]     |
|                   |                | TX        | TY | TZ | [mm]      |
|                   |                | SX        | SY | SZ | [mm]      |
| LElbowAngles      | RElbowAngles   | X         | Y  | Z  | [deg]     |
| LElbowForce       | RElbowForce    | X         | Y  | Z  | [N/kg]    |
| LElbowMoment      | RElbowMoment   | X         | Y  | Z  | [N.mm/kg] |

|                       |                       |    |    |    |           |
|-----------------------|-----------------------|----|----|----|-----------|
| LElbowPower           | RElbowPower           | X  | Y  | Z  | [W/kg]    |
| LFE                   | RFE                   | RX | RY | RZ | [deg]     |
|                       |                       | TX | TY | TZ | [mm]      |
|                       |                       | SX | SY | SZ | [mm]      |
| LFO                   | RFO                   | RX | RY | RZ | [deg]     |
|                       |                       | TX | TY | TZ | [mm]      |
|                       |                       | SX | SY | SZ | [mm]      |
| LFootProgressAngles   | RFootProgressAngles   | X  | Y  | Z  | [deg]     |
| LGroundReactionForce  | RGroundReactionForce  | X  | Y  | Z  | [N/kg]    |
| LGroundReactionMoment | RGroundReactionMoment | X  | Y  | Z  | [N.mm/kg] |
| LHN                   | RHN                   | RX | RY | RZ | [deg]     |
|                       |                       | TX | TY | TZ | [mm]      |
|                       |                       | SX | SY | SZ | [mm]      |
| LHU                   | RHU                   | RX | RY | RZ | [deg]     |
|                       |                       | TX | TY | TZ | [mm]      |
|                       |                       | SX | SY | SZ | [mm]      |
| LHeadAngles           | RHeadAngles           | X  | Y  | Z  | [deg]     |
| LHipAngles            | RHipAngles            | X  | Y  | Z  | [deg]     |
| LHipForce             | RHipForce             | X  | Y  | Z  | [N/kg]    |
| LHipMoment            | RHipMoment            | X  | Y  | Z  | [N.mm/kg] |
| LHipPower             | RHipPower             | X  | Y  | Z  | [W/kg]    |
| LKneeAngles           | RKneeAngles           | X  | Y  | Z  | [deg]     |
| LKneeForce            | RKneeForce            | X  | Y  | Z  | [N/kg]    |
| LKneeMoment           | RKneeMoment           | X  | Y  | Z  | [N.mm/kg] |
| LKneePower            | RKneePower            | X  | Y  | Z  | [W/kg]    |
| LNeckAngles           | RNeckAngles           | X  | Y  | Z  | [deg]     |
| LNeckForce            | RNeckForce            | X  | Y  | Z  | [N/kg]    |
| LNeckMoment           | RNeckMoment           | X  | Y  | Z  | [N.mm/kg] |
| LNeckPower            | RNeckPower            | X  | Y  | Z  | [W/kg]    |
| LNormalisedGRF        | RNormalisedGRF        | X  | Y  | Z  | []        |
| LPelvisAngles         | RPelvisAngles         | X  | Y  | Z  | [deg]     |
| LRA                   | RRA                   | RX | RY | RZ | [deg]     |
|                       |                       | TX | TY | TZ | [mm]      |
|                       |                       | SX | SY | SZ | [mm]      |

|                 |                 |    |    |    |           |
|-----------------|-----------------|----|----|----|-----------|
| LShoulderAngles | RShoulderAngles | X  | Y  | Z  | [deg]     |
| LShoulderForce  | RShoulderForce  | X  | Y  | Z  | [N/kg]    |
| LShoulderMoment | RShoulderMoment | X  | Y  | Z  | [N.mm/kg] |
| LShoulderPower  | RShoulderPower  | X  | Y  | Z  | [W/kg]    |
| LSpineAngles    | RSpineAngles    | X  | Y  | Z  | [deg]     |
| LTI             | RTI             | RX | RY | RZ | [deg]     |
|                 |                 | TX | TY | TZ | [mm]      |
|                 |                 | SX | SY | SZ | [mm]      |
| LTO             | RTO             | RX | RY | RZ | [deg]     |
|                 |                 | TX | TY | TZ | [mm]      |
|                 |                 | SX | SY | SZ | [mm]      |
| LThoraxAngles   | RThoraxAngles   | X  | Y  | Z  | [deg]     |
| LWaistForce     | RWaistForce     | X  | Y  | Z  | [N/kg]    |
| LWaistMoment    | RWaistMoment    | X  | Y  | Z  | [N.mm/kg] |
| LWaistPower     | RWaistPower     | X  | Y  | Z  | [W/kg]    |
| LWristAngles    | RWristAngles    | X  | Y  | Z  | [deg]     |
| LWristForce     | RWristForce     | X  | Y  | Z  | [N/kg]    |
| LWristMoment    | RWristMoment    | X  | Y  | Z  | [N.mm/kg] |
| LWristPower     | RWristPower     | X  | Y  | Z  | [W/kg]    |

### 3. Trajectories

| Left | Right | dimension |   |   | unit |
|------|-------|-----------|---|---|------|
| C7   |       | X         | Y | Z | [mm] |
| T10  |       | X         | Y | Z | [mm] |
| CLAV |       | X         | Y | Z | [mm] |
| STRN |       | X         | Y | Z | [mm] |
| RBAK |       | X         | Y | Z | [mm] |
| LFHD | RFHD  | X         | Y | Z | [mm] |
| LBHD | RBHD  | X         | Y | Z | [mm] |
| LSHO | RSHO  | X         | Y | Z | [mm] |
| LUPA | RUPA  | X         | Y | Z | [mm] |
| LELB | RELB  | X         | Y | Z | [mm] |

|      |      |   |   |   |      |
|------|------|---|---|---|------|
| LFRM | RFRM | X | Y | Z | [mm] |
| LWRA | RWRA | X | Y | Z | [mm] |
| LWRB | RWRB | X | Y | Z | [mm] |
| LFIN | RFIN | X | Y | Z | [mm] |
| LASI | RASI | X | Y | Z | [mm] |
| LPSI | RPSI | X | Y | Z | [mm] |
| LTHI | RTHI | X | Y | Z | [mm] |
| LKNE | RKNE | X | Y | Z | [mm] |
| LTIB | RTIB | X | Y | Z | [mm] |
| LANK | RANK | X | Y | Z | [mm] |
| LHEE | RHEE | X | Y | Z | [mm] |
| LTOE | RTOE | X | Y | Z | [mm] |