**Dictionary of Kinematic Variables**

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| **Variable Name** | **Variable Description** | **Units** |
| MT | Movement Time | S |
| PathLen | Path Length | CM |
| Speed | Speed of the Reach | CM/S |
| PkVel | Peak Velocity of Reach | CM/S |
| PctMT | Peak Velocity Onset Represented as a Percentage of Total Movement Time | Percentage |
| StScore | Straightness Score | SS |
| MvUnits | Movement Units | MUs |
| MLMnHTAngDisp | Mean of Angular Displacement for the Head-Trunk Segment in ML Plane | Degrees |
| MLSDHTAngDisp | Standard Deviation of Angular Displacement of Head-Trunk Segment in ML Plane | Degrees |
| MLMinHTAngDisp | Minimum of Angular Displacement of Head-Trunk Segment in ML Plane | Degrees |
| MLMaxHTAngDisp | Maximum of Angular Displacement of Head-Trunk Segment in ML Plane | Degrees |
| MLHTAbsVel | Absolute Average Angular Velocity of Head-Trunk Segment in ML Plane | Degrees/Sec |
| MLHTAvgVel | Average Angular Velocity of Head-Trunk Segment in ML Plane | Degrees/Sec |
| MLHTStdVel | Standard Deviation Angular Velocity of Head-Trunk Segment in ML Plane | Degrees/Sec |
| APMnHTAngDisp | Mean of Angular Displacement for the Head-Trunk Segment in AP Plane | Degrees |
| APSDHTAngDisp | Standard Deviation of Angular Displacement of Head-Trunk Segment in AP Plane | Degrees |
| APMinHTAngDisp | Minimum of Angular Displacement of Head-Trunk Segment in AP Plane | Degrees |
| APMaxHTAngDisp | Maximum of Angular Displacement of Head-Trunk Segment in AP Plane | Degrees |
| APHTAbsVel | Absolute Average Angular Velocity of Head-Trunk Segment in AP Plane | Degrees/Sec |
| APHTAvgVel | Average Angular Velocity of Head-Trunk Segment in AP Plane | Degrees/Sec |
| APHTStdVel | Standard Deviation Angular Velocity of Head-Trunk Segment in AP Plane | Degrees/Sec |
| MnHTAngSpeed | Mean of Head-Trunk Segment Angular Speed | Degrees/Sec |
| SumHTResAngDisp | Total Angular Displacement of Resultant Vector of Head-Trunk Segment | Degrees |
| MLMnTCAngDisp | Mean of Angular Displacement for the Trunk-CBOS Segment in ML Plane | Degrees |
| MLSDTCAngDisp | Standard Deviation of Angular Displacement of Trunk-CBOS Segment in ML Plane | Degrees |
| MLMinTCAngDisp | Minimum of Angular Displacement of Trunk-CBOS Segment in ML Plane | Degrees |
| MLMaxTCAngDisp | Maximum of Angular Displacement of Trunk-CBOS Segment in ML Plane | Degrees |
| MLTCAbsVel | Absolute Average Angular Velocity of Trunk-CBOS Segment in ML Plane | Degrees/Sec |
| MLTCAvgVel | Average Angular Velocity of Trunk-CBOS Segment in ML Plane | Degrees/Sec |
| MLTCStdVel | Standard Deviation Angular Velocity of Trunk-CBOS Segment in ML Plane | Degrees/Sec |
| APMnTCAngDisp | Mean of Angular Displacement for the Trunk-CBOS Segment in AP Plane | Degrees |
| APSDTCAngDisp | Standard Deviation of Angular Displacement of Trunk-CBOS Segment in AP Plane | Degrees |
| APMinTCAngDisp | Minimum of Angular Displacement of Trunk-CBOS Segment in AP Plane | Degrees |
| APMaxTCAngDisp | Maximum of Angular Displacement of Trunk-CBOS Segment in AP Plane | Degrees |
| APTCAbsVel | Absolute Average Angular Velocity of Trunk-CBOS Segment in AP Plane | Degrees/Sec |
| APTCAvgVel | Average Angular Velocity of Trunk-CBOS Segment in AP Plane | Degrees/Sec |
| APTCStdVel | Standard Deviation Angular Velocity of Trunk-CBOS Segment in AP Plane | Degrees/Sec |
| MnTCAngSpeed | Mean of Trunk-CBOS Segment Angular Speed | Degrees/Sec |
| SumTCResAngDisp | Sum of Angular Displacement of Resultant Vector of Trunk-CBOS Segment | Degrees |
| NJS | Normalized Jerk Squared | Hz |
| TPLYRH | Total Path Length in AP Axis of Reaching Hand | CM |
| TPLYTC | Total Path Length of AP Axis of Trunk-CBOS segment | CM |
| TCoupling | Trunk Coupling of Reach Motion | CM |
| MnCurv | Mean Curvature of the Reach | Unitless |
| StdCurv | Standard Deviation of the Curvature of the Reach | Unitless |
| TkStb% | Percentage of Reach in which the subject’s trunk segment was within the zone of stability. | Percentage |
| TkCont% | Percentage of Reach in which the subject’s trunk segment was within the zone of control. | Percentage |
| TkFall% | Percentage of Reach in which the subject’s trunk segment was outside the zone of control. | Percentage |
| MaxHeadHt | Maximum Head Height from CBOS | CM |
| MaxC7Ht | Maximum C7 Height from CBOS | CM |