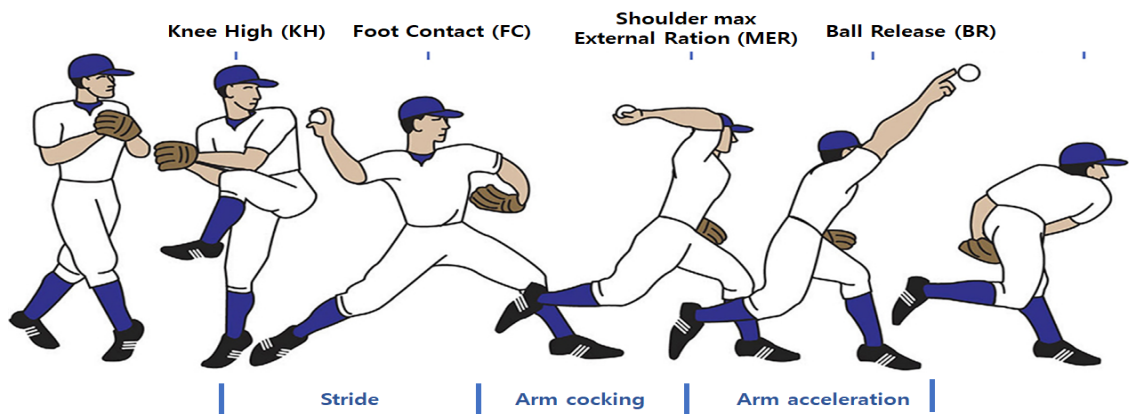


2024 Next-Level Training Camp

Name : n55 Date : 20240213 Hand : Right Ball Velocity : 112 km/h Weight : 78kg Height : 182 cm



PITCHING EFFICIENCY

1. KINEMATIC SEQUENCE

STRIDE

- 1. HEIGHT OF KNEE AND PELVIS
- 2. HIP/SHOULDER SEPARATION
- 3. ELBOW FLEXION

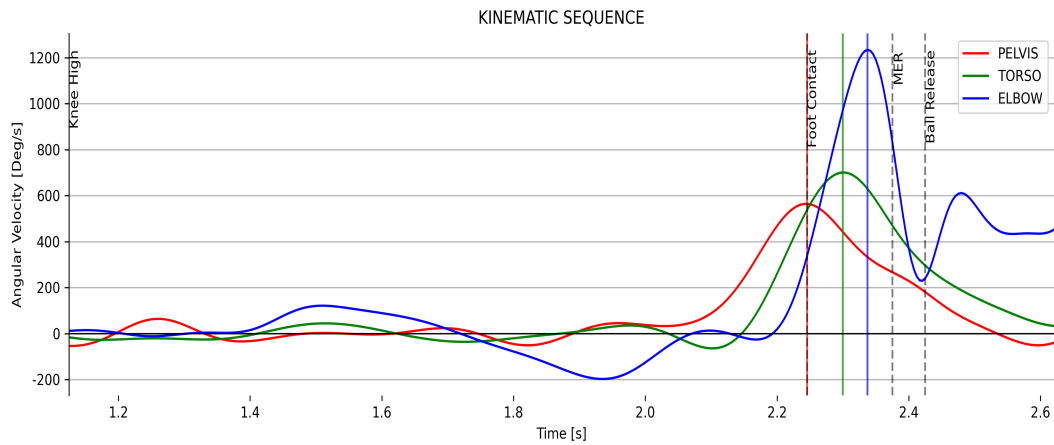
ARM COCKING

- 1. SHANK LATERAL TILT
- 2. PELVIS HEIGHT
- 3. SHOULDER EXTERNAL ROTATION
- 4. SHOULDER HORIZONTAL ABDUCTION
- 5. LEAD LEG KNEE FLEXION
- 6. LEAD LEG KNEE EXTENSION ANGULAR VELOCITY

ARM ACCELERATION

- 1. HEAD HAND DISTANCE
- 2. SHOULDER ABDUCTION
- 3. TRUNK LATERAL TILT
- 4. LEAD LEG KNEE FLEXION
- 5. LEAD LEG KNEE EXTENSION ANGULAR VELOCITY

KINEMATIC SEQUENCE

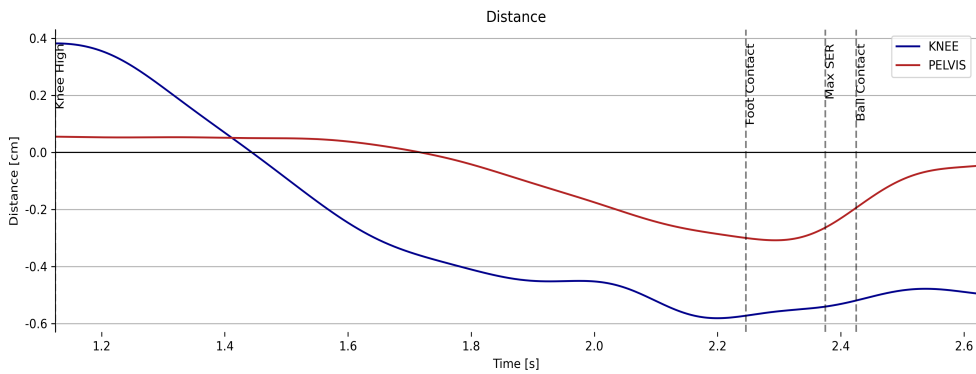
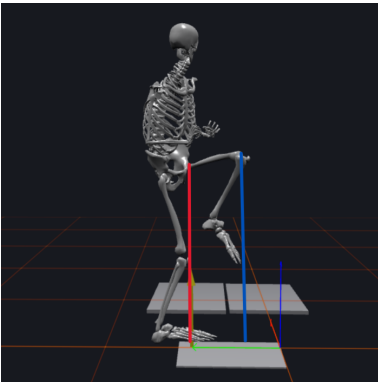


Kinematic Sequence

Segment	Major League	Peak Velocity	Timing [BC - FC (100%)]	Speed Gain
Pelvic	475 ~ 550	564	0 %	
Torso	600 ~ 800	701	30 %	1.24
Elbow	2500 ~ 4500	1234	51 %	1.76

STRIDE

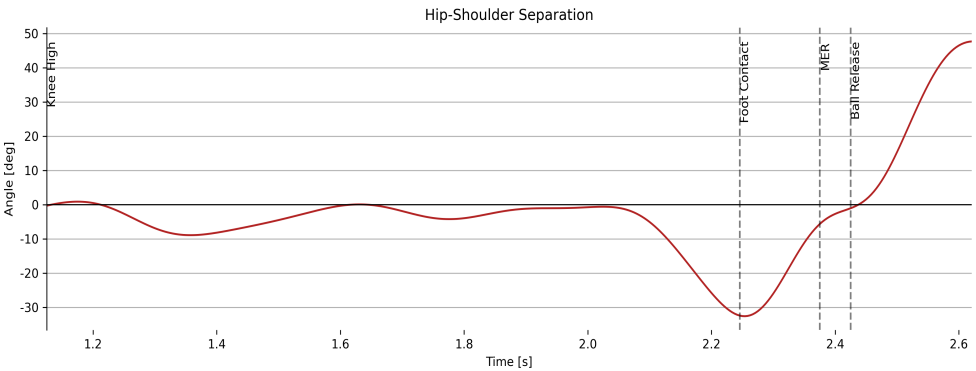
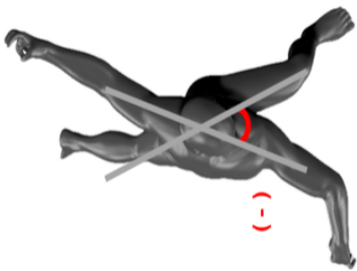
HEIGHT OF KNEE AND PELVIS



Height of knee and pelvis

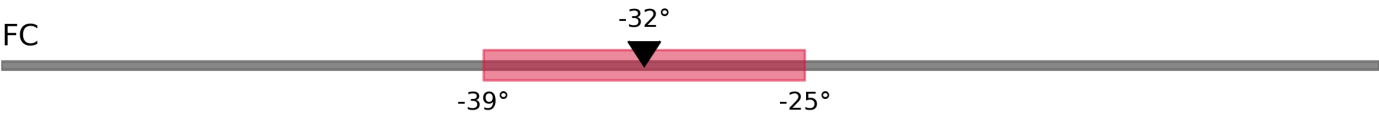
Segment	at Knee High	Max
Knee	0.38	0.38
Pelvis	0.06	0.06

HIP/SHOULDER SEPARATION

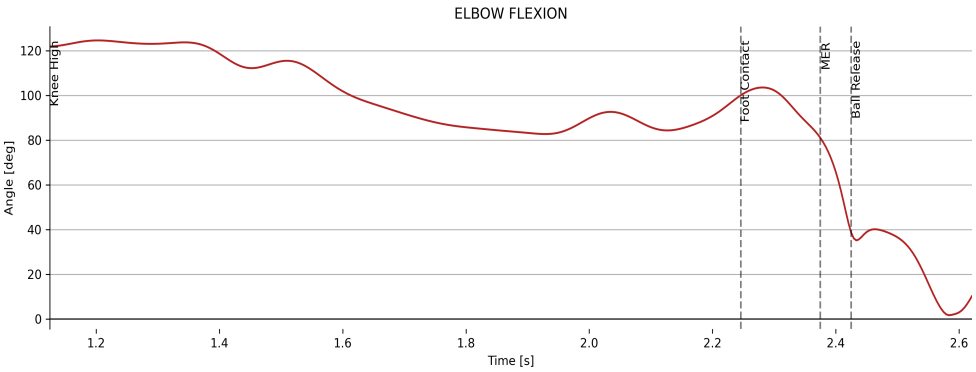
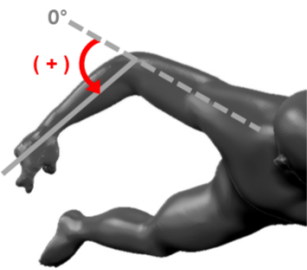


Hip-Shoulder Separation

at Foot Contact	Min	Min Timing [BC - FC (100%)]
-32	-33	5 %

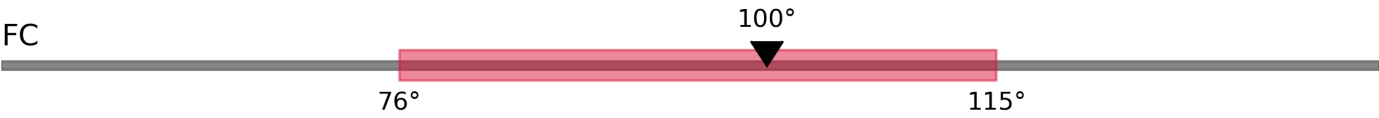


ELBOW FLEXION



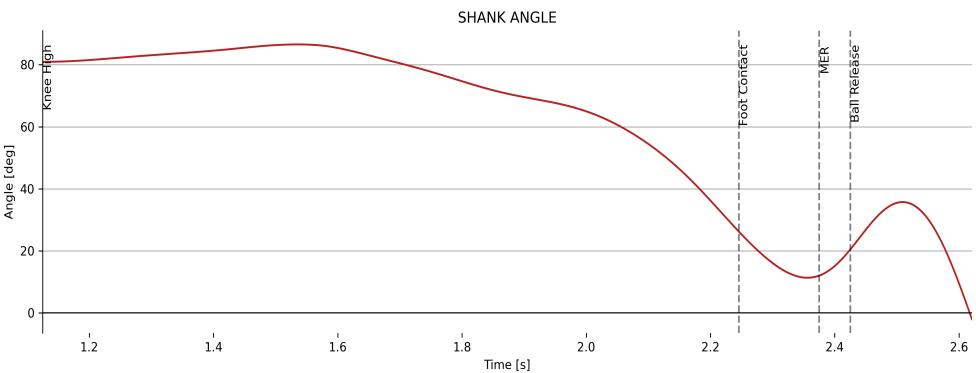
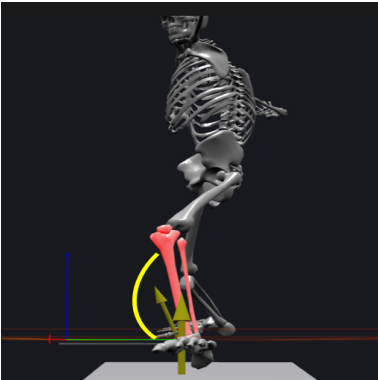
Elbow Flexion

at Foot Contact	Max	Max Timing [BC - FC (100%)]
100	104	19 %



Arm cocking

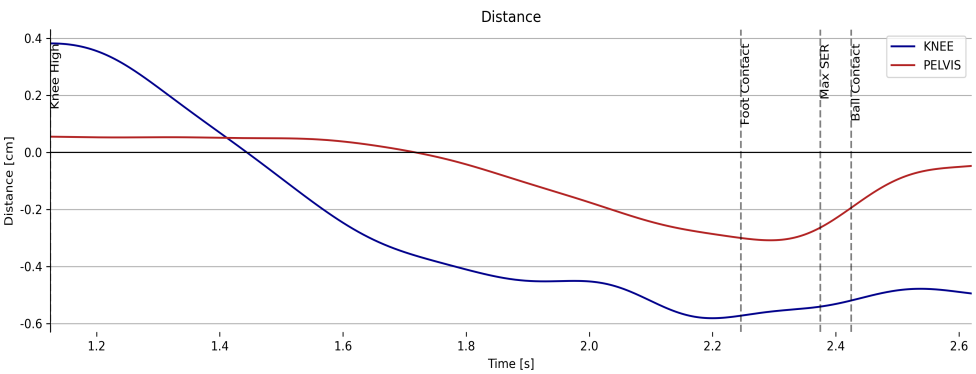
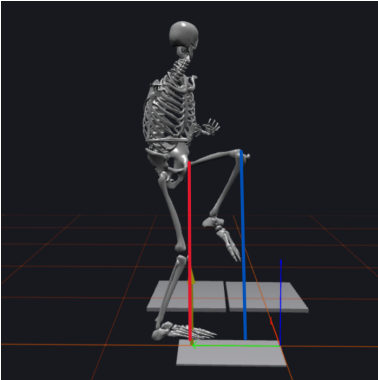
SHANK LATERAL TILT



shank angle

	at Knee High	at Foot Contact
	80.94	26.2

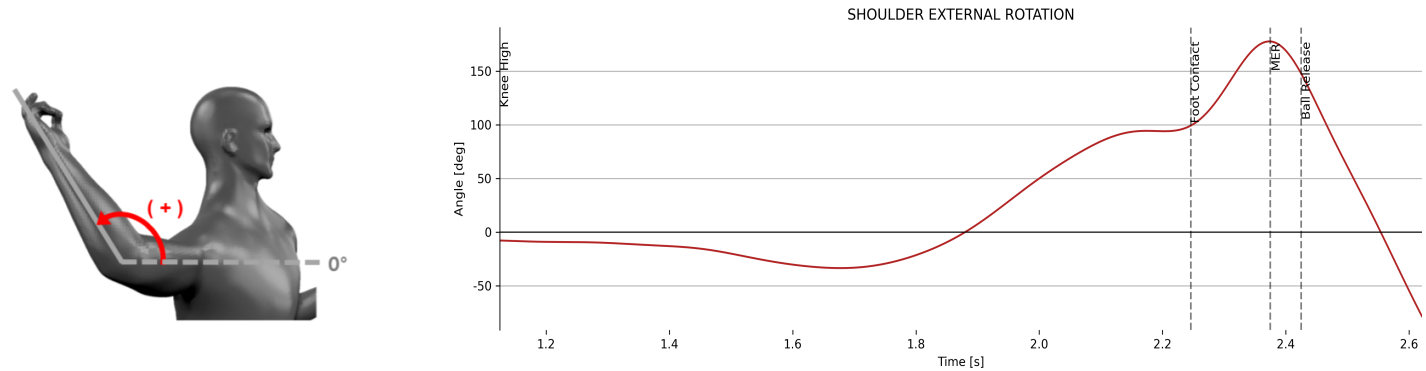
PELVIS HEIGHT



pelvis Height

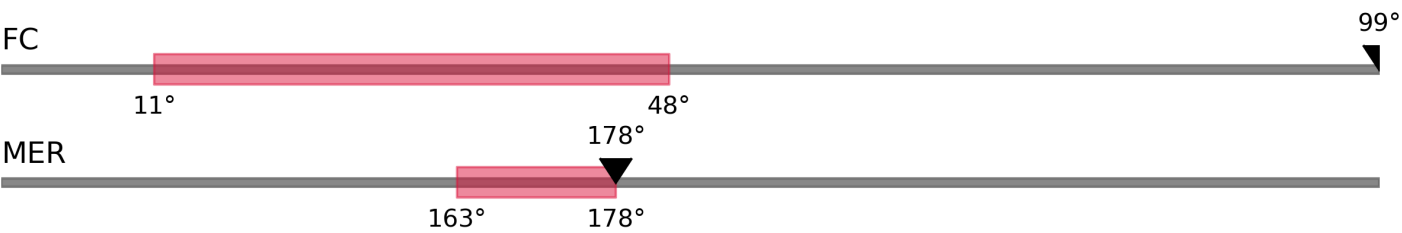
Segment	at Foot Contact	at Max SER	Max
Pelvis	-0.3	-0.26	0.06

SHOULDER EXTERNAL ROTATION

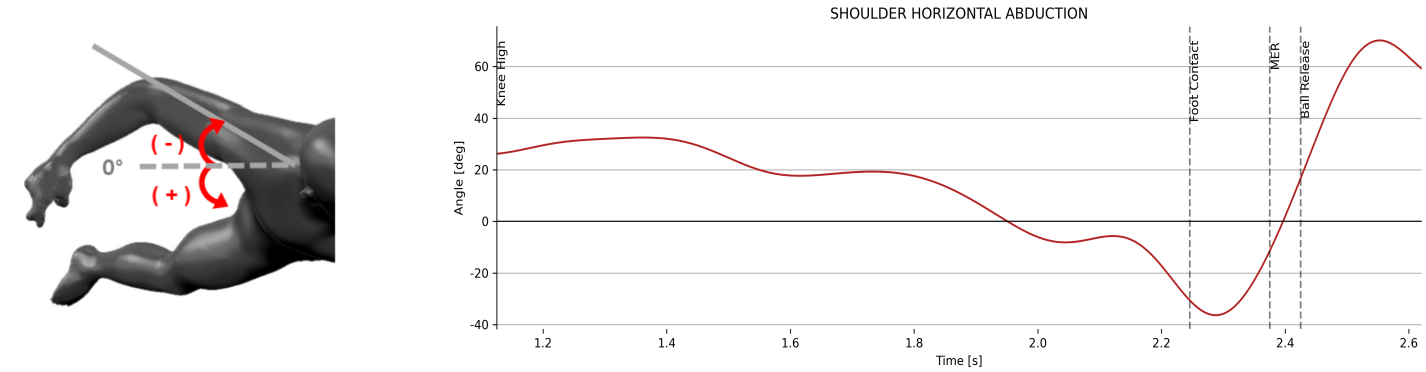


Shoulder External Rotation

at Foot Contact	at Max ER	Max	Max Timing [BC - FC (100%)]
99	178	178	72 %

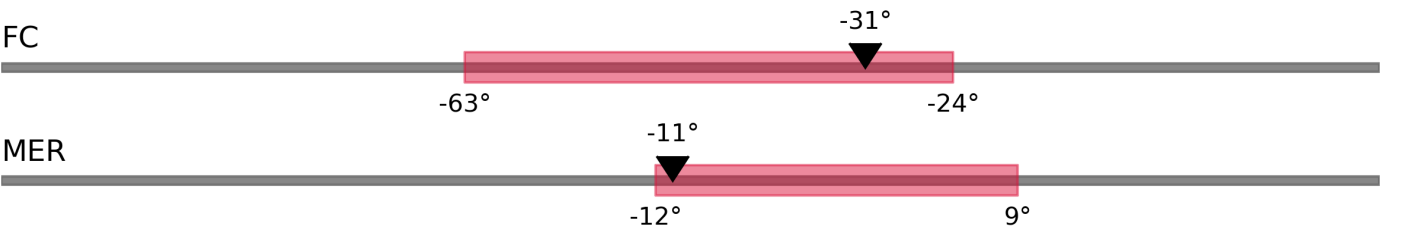


SHOULDER HORIZONTAL ABDUCTION

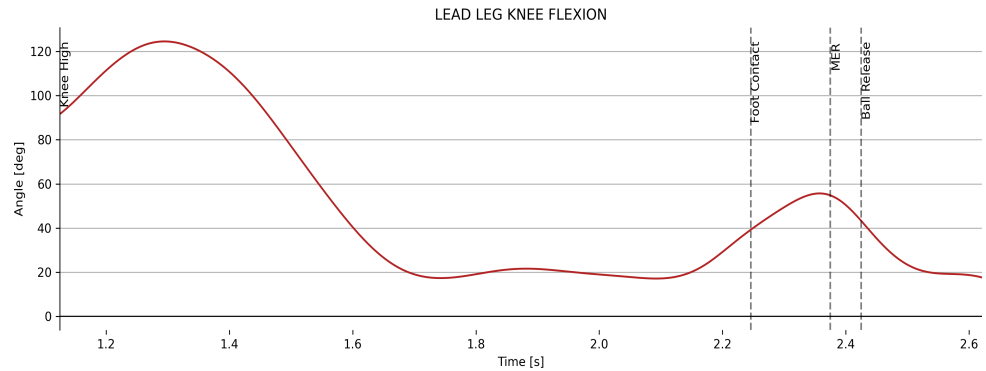
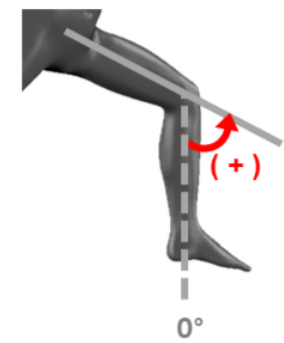


Shoulder Horizontal Abduction

at Foot Contact	at Max ER	Max	Max Timing [BC - FC (100%)]
-31	-11	17	100 %

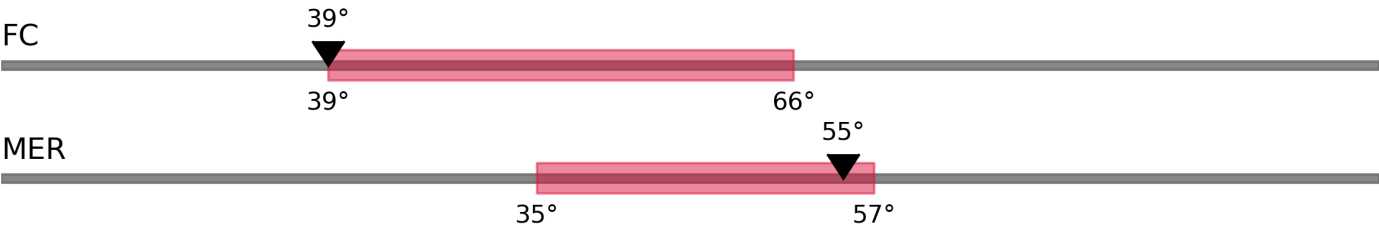


LEAD LEG KNEE FLEXION

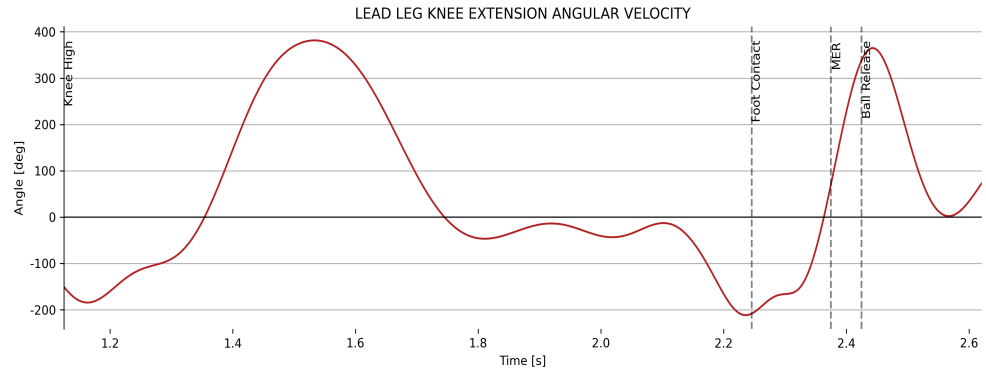


Lead Leg Knee Flexion

at Foot Contact	at Max ER	Max	Max Timing [BC - FC (100%)]
39	55	56	63 %



LEAD LEG KNEE EXTENSION ANGULAR VELOCITY



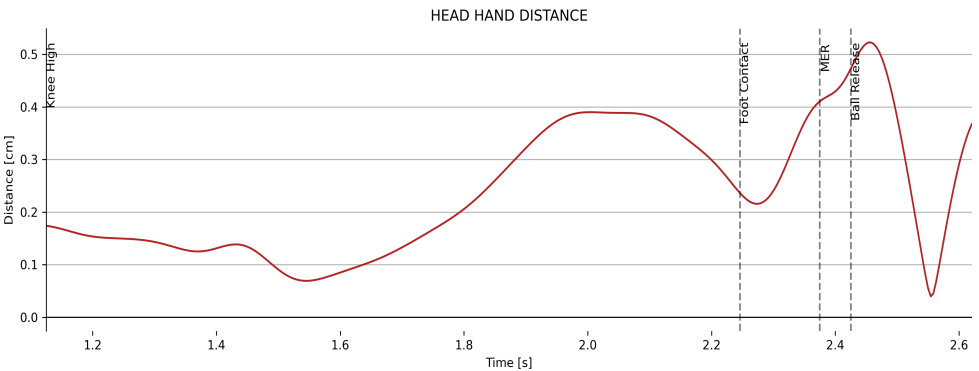
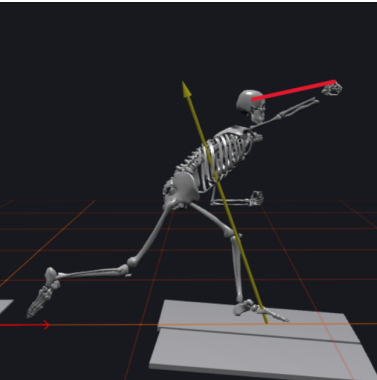
Lead Leg Knee Extension Angular Velocity

at Max ER	Max	Max Timing [BC - FC (100%)]
70	339	100 %



Arm acceleration

HEAD HAND DISTANCE

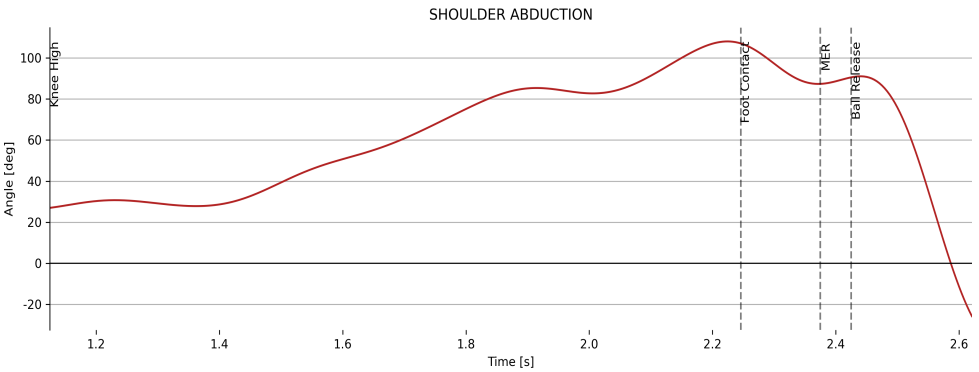
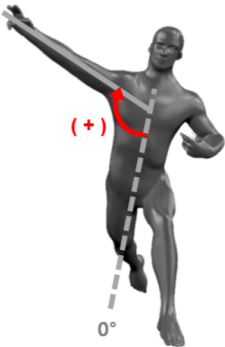


head_hand_distance

at Ball Release

0.47

SHOULDER ABDUCTION

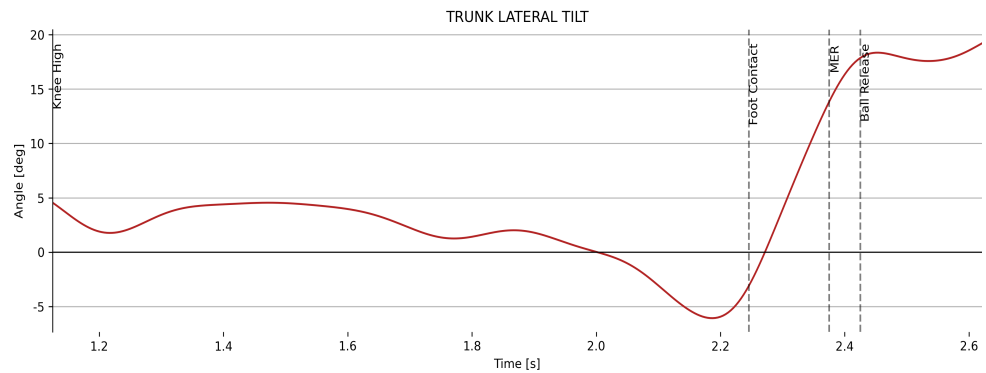


Shoulder Abduction

at Ball Release	Max	Max Timing [BC - FC (100%)]
90	107	0 %

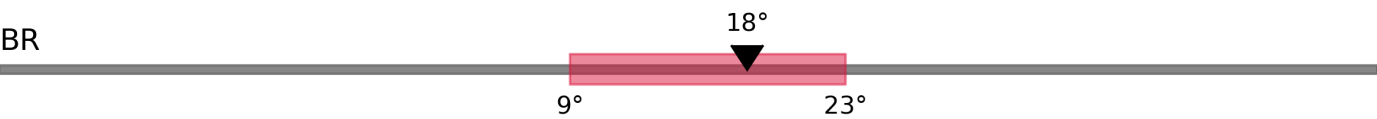


TRUNK LATERAL TILT

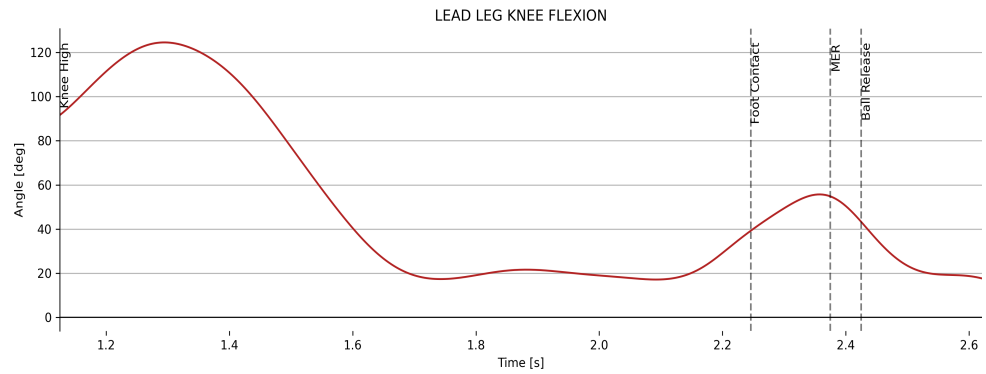
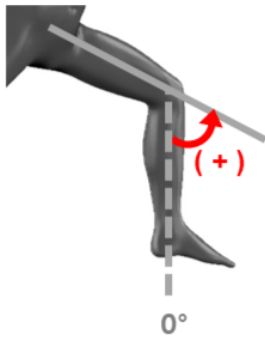


Trunk Lateral Tilt

at Ball Release	Max	Max Timing [BC - FC (100%)]
18	18	100 %

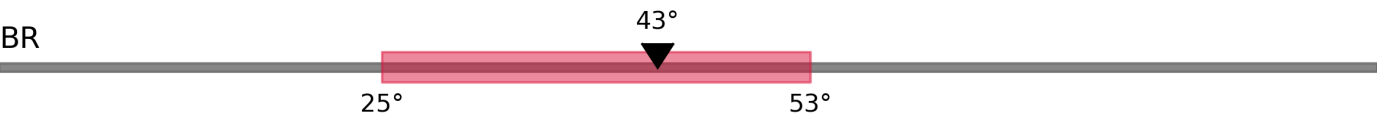


LEAD LEG KNEE FLEXION

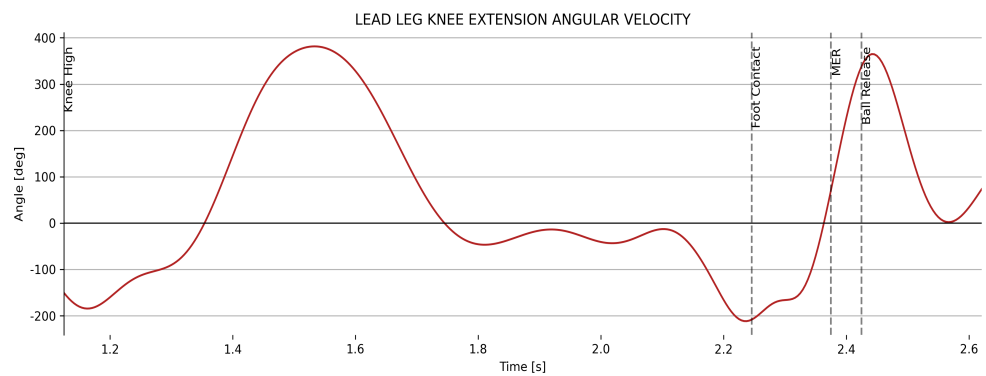


Lead Leg Knee Flexion

at Ball Release	Max	Max Timing [BC - FC (100%)]
43	56	63 %



LEAD LEG KNEE EXTENSION ANGULAR VELOCITY



Lead Leg Knee Extension Angular Velocity

at Ball Release	Max	Max Timing [BC - FC (100%)]
339	339	100 %