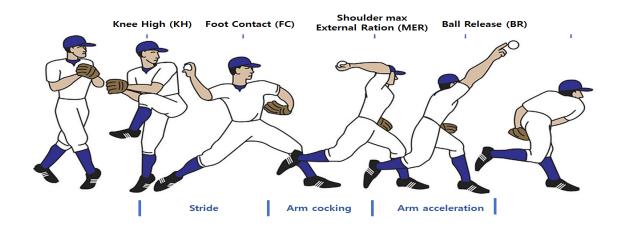
2024 Next-Level Training Camp

Name: n65 Date: 20240213 Hand: Right Ball Velocity: 119 km/h Weight: 83kg Height: 178 cm



PITCHING EFFICIENCY

1. KINEMATIC SEQUENCE

STRIDE

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

ARM COCKING

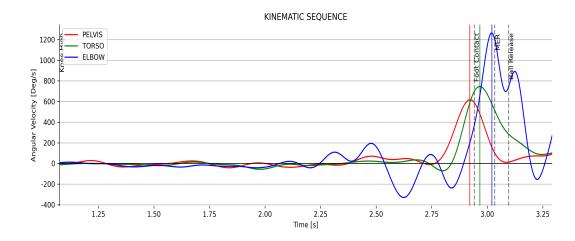
- 1. SHANK LATERAL TILT
- 2. PELVIS HEIGHT
- 3. SHOULDER EXTERNAL ROTATION
- 4. SHOULDER HORIZONTAL ABDUCTION
- 5. LEAD LEG KNEE FLEXION
- 6. LEAD LEG KNEE EXTENSION ANGULAR VELOCITY

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



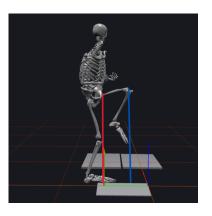


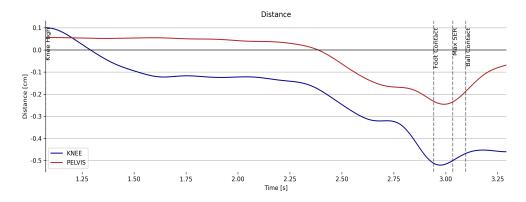
Kinematic Sequence

Segment	Major League	Peak Velocity	Timing [BC - FC (100%)]	Speed Gain
Pelvic	475 ~ 550	618	-14 %	
Torso	600 ~ 800	746	16 %	1.21
Elbow	2500 ~ 4500	1265	51 %	1.7

STRIDE

HEIGHT OF KNEE AND PELVIS

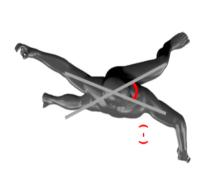


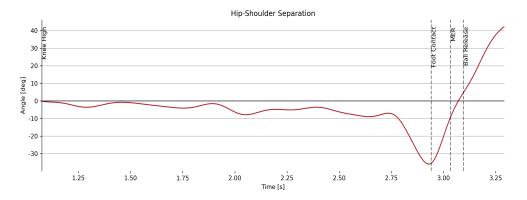


Height of knee and pelvis

Segment	at Knee High	Max
Knee	0.1	0.1
Pelvis	0.06	0.06

HIP/SHOULDER SEPARATION

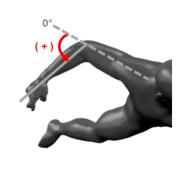


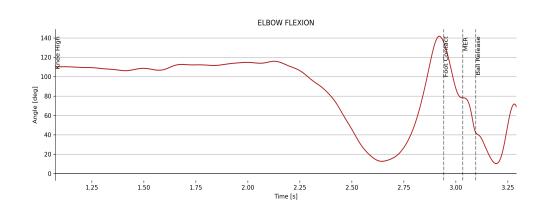


Hip-Shoulder Separation

at Foot Contact	Min	Min Timing [BC - FC (100%)]
-35	-35	0 %
FC	-35°	
	-39° -25°	0

ELBOW FLEXION



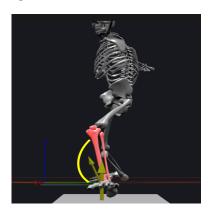


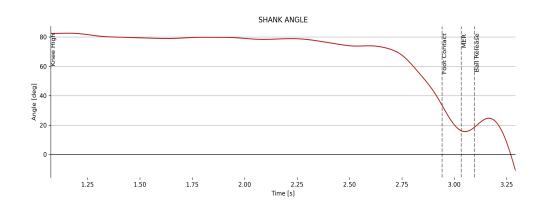
Elbow Flexion

at Foot Contact	Max	Max Timing [BC - FC (100%)]	
136	136		
FC		1 <u>36</u> °	
76°		115°	

Arm cocking

SHANK LATERAL TILT

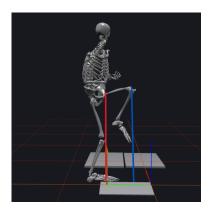


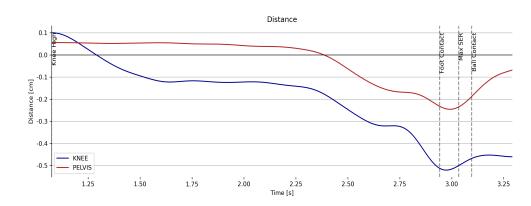


shank angle

at Knee High	at Foot Contact	
82.5	33.49	

PELVIS HEIGHT

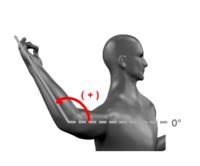


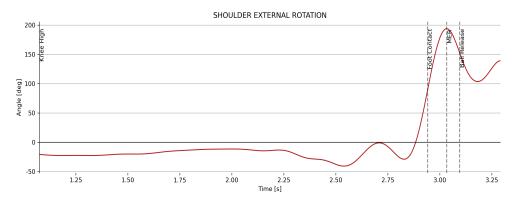


pelvis Height

Segment	at Foot Contact	at Max SER	Max
Pelvis	-0.23	-0.23	0.06

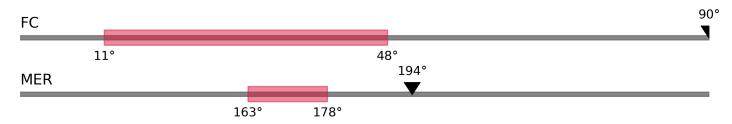
SHOULDER EXTERNAL ROTATION



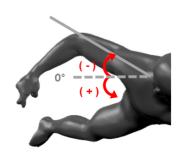


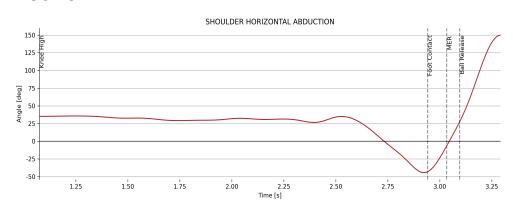
Shoulder External Rotation

at Foot Contact	at Max ER	Max	Max Timing [BC - FC (100%)]
90	194	194	59 %



SHOULDER HORIZONTAL ABDUCTION

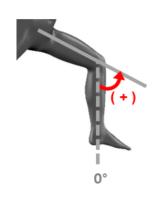


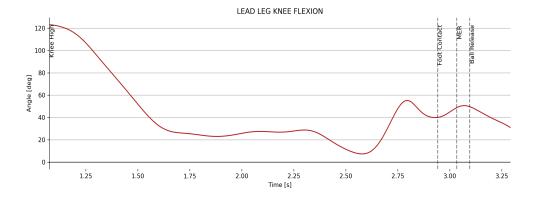


Shoulder Horizontal Abduction

at Foot Contact	at Max ER	Max		Max Timing [BC - FC (100%)]
-43	-6	28		100 %
FC		-43°		
MER	-63°	-6°	-24°	
		-12°	9°	

LEAD LEG KNEE FLEXION



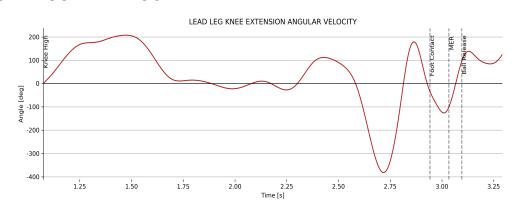


Lead Leg Knee Flexion

at Foot Conta	act	at Max ER	Max	Max Timing [BC - FC (100%)]
40		49	51	84 %
FC	40°			
MER	39°		66° 49°	
		35°	57°	

LEAD LEG KNEE EXTENSION ANGULAR VELOCITY



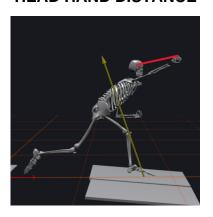


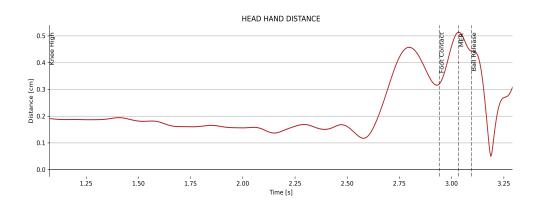
Lead Leg Knee Extension Angular Velocity

	at Max ER		Max	Max Timing [BC - FC (100%)]
	-101		97	100 %
MAX	97°/s ▼			
		218°/s	502	°/s

Arm acceleration

HEAD HAND DISTANCE



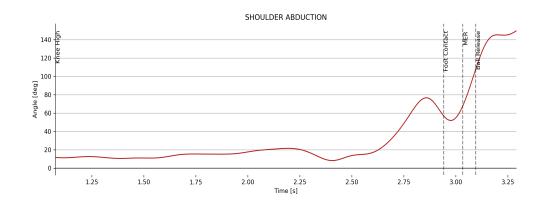


head_hand_distance

at Ball Release	
0.44	

SHOULDER ABDUCTION



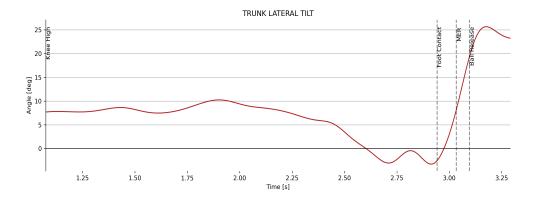


Shoulder Abduction

at Ball Release	Max	Max Timing [BC - FC (100%)]	
108	108	100 %	
BR		108°	
	81°	99°	

TRUNK LATERAL TILT

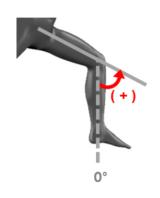


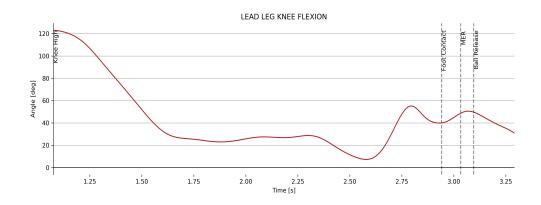


Trunk Lateral Tilt

at Ball Release	Max	Max Timing [BC - FC (100%)]
19	19	100 %
BR	19°	
	9° 23°	,

LEAD LEG KNEE FLEXION



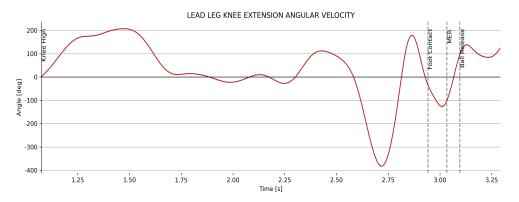


Lead Leg Knee Flexion

at Ball Release	Max	Max Timing [BC - FC (100%)]
50	51	84 %
BR	50°	
2	° 53°	

LEAD LEG KNEE EXTENSION ANGULAR VELOCITY





Lead Leg Knee Extension Angular Velocity

at Ball Release	Max	Max Timing [BC - FC (100%)]
97	97	100 %