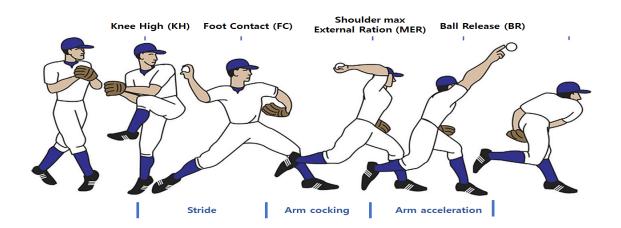
2024 Next-Level Training Camp

Name: n60 Date: 20240213 Hand: Right Ball Velocity: 135 km/h Weight: 72kg Height: 185 cm



PITCHING EFFICIENCY

1. KINEMATIC SEQUENCE

STRIDE

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

ARM COCKING

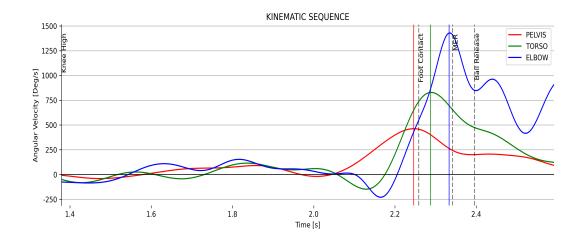
- 1. SHANK LATERAL TILT
- 2. PELVIS HEIGHT
- 3. SHOULDER EXTERNAL ROTATION
- 4. SHOULDER HORIZONTAL ABDUCTION
- 5. LEAD LEG KNEE FLEXION
- 6. LEAD LEG KNEE EXTENSION ANGULAR VELOCITY

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



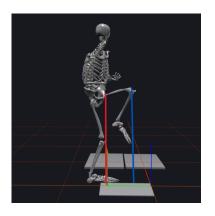


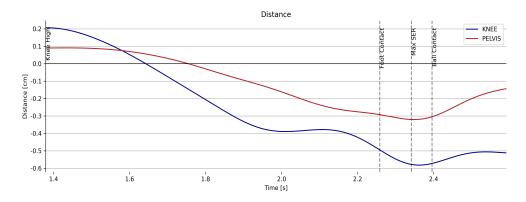
Kinematic Sequence

Segment	Major League	Peak Velocity	Timing [BC - FC (100%)]	Speed Gain
Pelvic	475 ~ 550	463	-9 %	
Torso	600 ~ 800	829	21 %	1.79
Elbow	2500 ~ 4500	1429	55 %	1.72

STRIDE

HEIGHT OF KNEE AND PELVIS

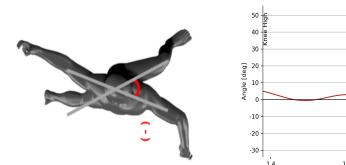


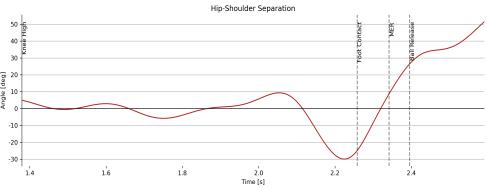


Height of knee and pelvis

Segment	at Knee High	Max
Knee	0.21	0.21
Pelvis	0.09	0.09

HIP/SHOULDER SEPARATION

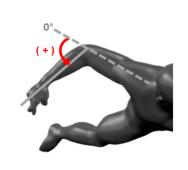


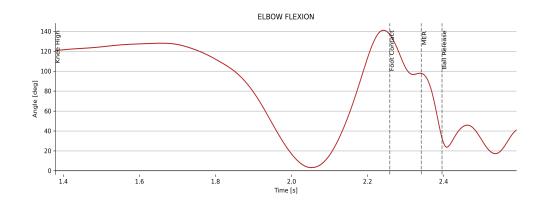


Hip-Shoulder Separation

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

ELBOW FLEXION



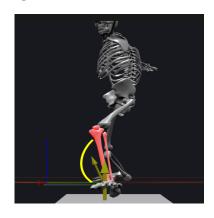


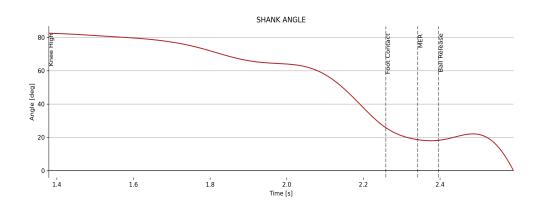
Elbow Flexion

at Foot Contact	Max	Max Timing [BC - FC (100%)]
137	137	0 %
FC		137
	76°	115°

Arm cocking

SHANK LATERAL TILT

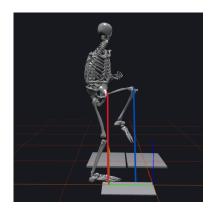


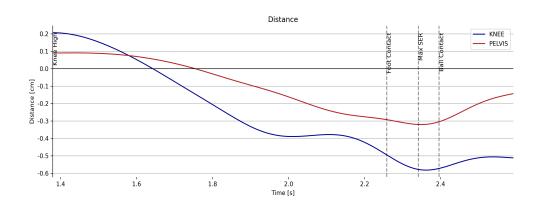


shank angle

at Knee High	at Foot Contact
82.54	25.86

PELVIS HEIGHT

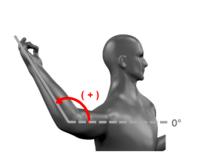


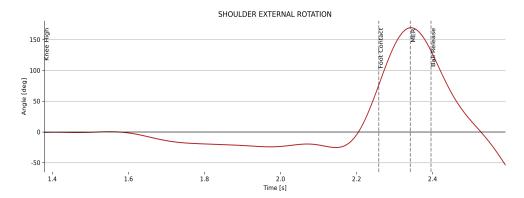


pelvis Height

Segment	at Foot Contact	at Max SER	Max
Pelvis	-0.29	-0.32	0.09

SHOULDER EXTERNAL ROTATION

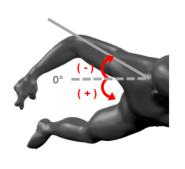


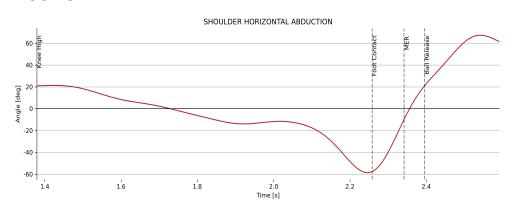


Shoulder External Rotation

at Foot Contact	at Max ER	Max	Max Timing [BC - FC (100%)]
76	170	170	61 %
-C			76° ▼
11° ∕IER	170°	48°	·

SHOULDER HORIZONTAL ABDUCTION

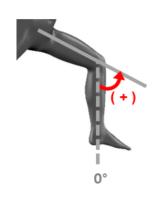


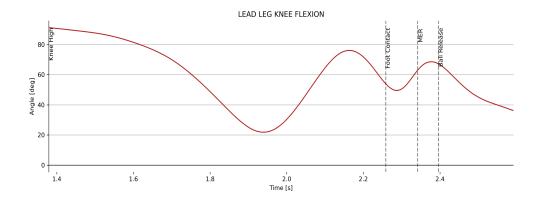


Shoulder Horizontal Abduction

at Foot Contact	at Max ER	Max	Max Timing [BC - FC (100%)]
-58	-10	21	100 %
FC	-58°		
MER	-63° -	-24° 10°	
	-12°	•	9°

LEAD LEG KNEE FLEXION



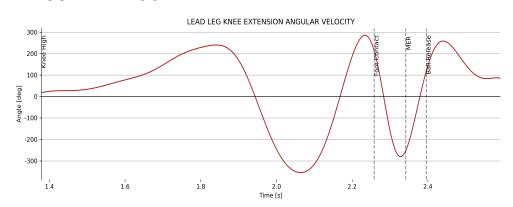


Lead Leg Knee Flexion

at Foot Contact		at Max ER		Max		Max Timing [BC - FC (100%)]
54		63		69		88 %
FC		54°				
	39°		66°			
MER					63°	
		35°		57°	•	

LEAD LEG KNEE EXTENSION ANGULAR VELOCITY



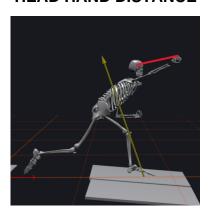


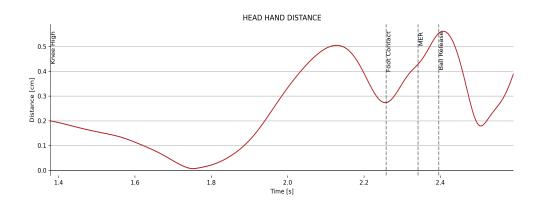
Lead Leg Knee Extension Angular Velocity

at M	lax ER	Max	Max Timing [BC - FC (100%)]
-	252	213	0 %
MAX	213°/s		
	218°/s	50	2°/s

Arm acceleration

HEAD HAND DISTANCE



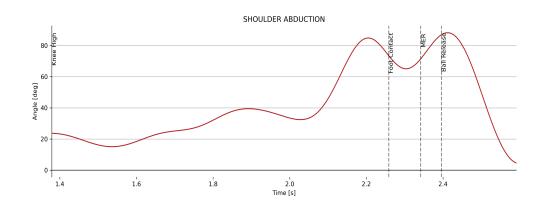


head_hand_distance

at Ball Release	
0.55	

SHOULDER ABDUCTION



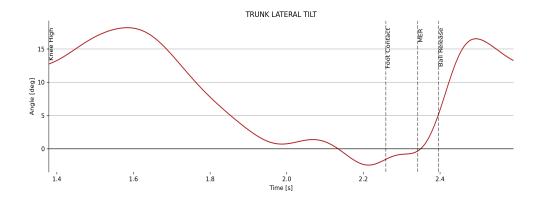


Shoulder Abduction

at Ball Release	Max	Max Timing [BC - FC (100%)]
87	87	100 %
BR	87°	
	81°	99°

TRUNK LATERAL TILT

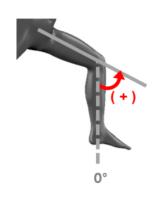


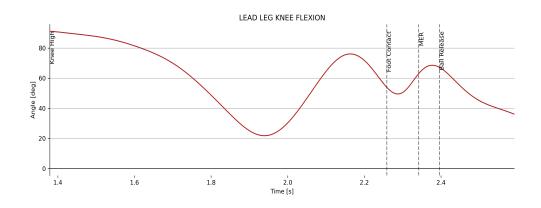


Trunk Lateral Tilt

at Ball Release	Max	Max Timing [BC - FC (100%)]
5	5	100 %
BR	5°	
	9° 23°	

LEAD LEG KNEE FLEXION



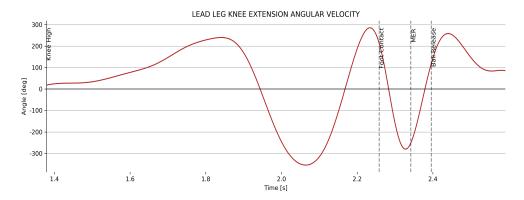


Lead Leg Knee Flexion

at Ball Release		Max	Max Timing [BC - FC (100%)]
67		69	88 %
BR			67°
	25°	53°	

LEAD LEG KNEE EXTENSION ANGULAR VELOCITY





Lead Leg Knee Extension Angular Velocity

at Ball Release	Max	Max Timing [BC - FC (100%)]
119	213	0 %