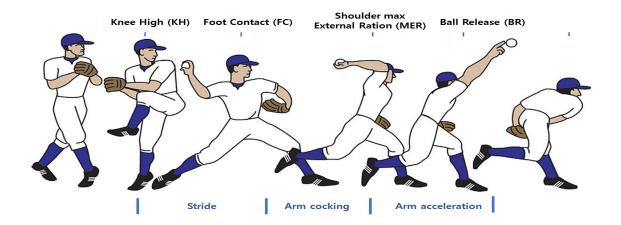
2024 Next-Level Training Camp

Name: n63 Date: 20240213 Hand: Right Ball Velocity: 91 km/h Weight: 55kg Height: 165 cm



PITCHING EFFICIENCY

1. KINEMATIC SEQUENCE

STRIDE

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

ARM COCKING

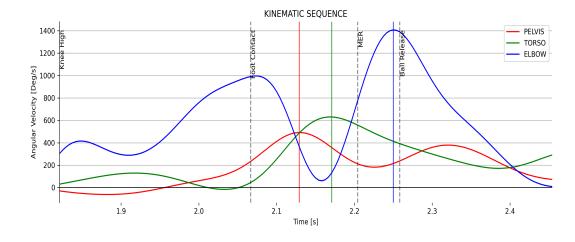
- 1. SHANK LATERAL TILT
- 2. PELVIS HEIGHT
- 3. SHOULDER EXTERNAL ROTATION
- 4. SHOULDER HORIZONTAL ABDUCTION
- 5. LEAD LEG KNEE FLEXION
- 6. LEAD LEG KNEE EXTENSION ANGULAR VELOCITY

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



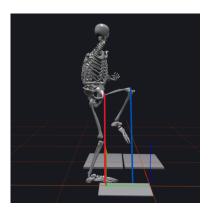


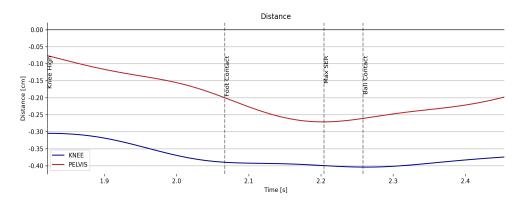
Kinematic Sequence

Segment	Major League	Peak Velocity	Timing [BC - FC (100%)]	Speed Gain
Pelvic	475 ~ 550	491	33 %	
Torso	600 ~ 800	630	54 %	1.28
Elbow	2500 ~ 4500	1407	96 %	2.23

STRIDE

HEIGHT OF KNEE AND PELVIS

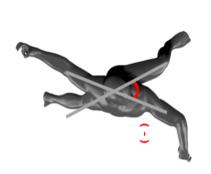


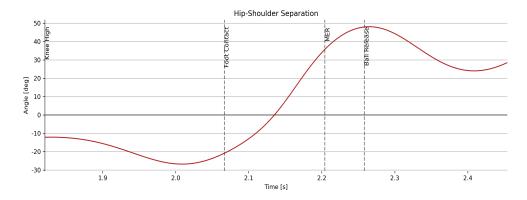


Height of knee and pelvis

Segment	at Knee High	Max
Knee	-0.3	-0.3
Pelvis	-0.08	-0.08

HIP/SHOULDER SEPARATION

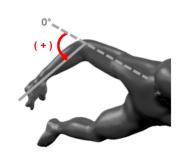


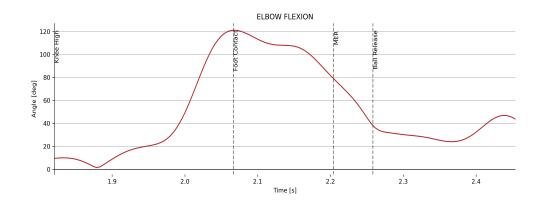


Hip-Shoulder Separation

at Foot Contact	Min	Min Timing [BC - FC (100%)]
-21	-21	0 %
FC		-21°
	-39° -25°	•

ELBOW FLEXION





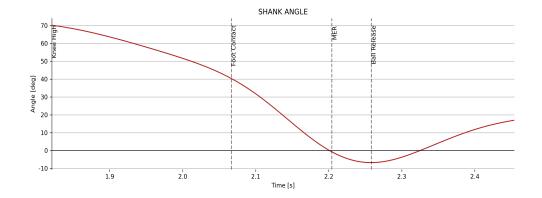
Elbow Flexion

at Foot Contact	Max	Max Timing [BC - FC (100%)]
121	121	0 %
FC		121°
7	5°	115°

Arm cocking

SHANK LATERAL TILT

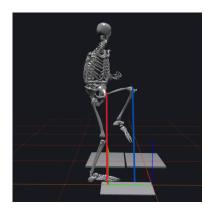


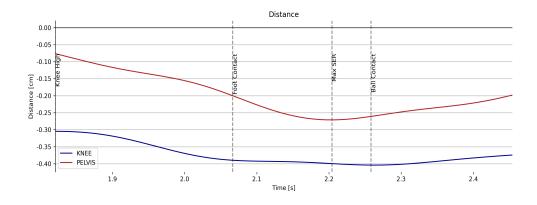


shank angle

at Knee High	at Foot Contact
70.18	40.31

PELVIS HEIGHT

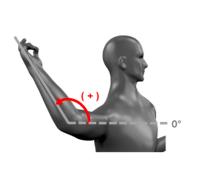


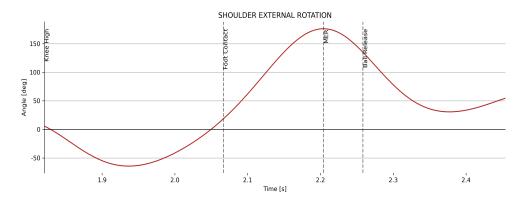


pelvis Height

Segment	at Foot Contact	at Max SER	Max
Pelvis	-0.2	-0.27	-0.08

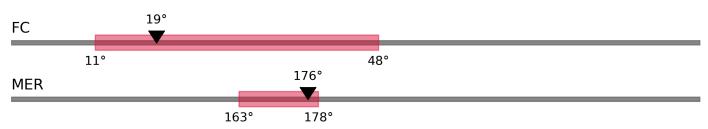
SHOULDER EXTERNAL ROTATION



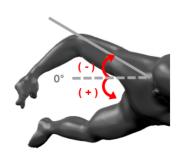


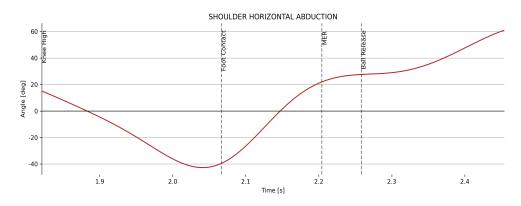
Shoulder External Rotation

at Foot Contact	at Max ER	Max	Max Timing [BC - FC (100%)]
19	176	176	72 %



SHOULDER HORIZONTAL ABDUCTION

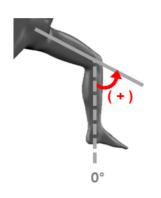


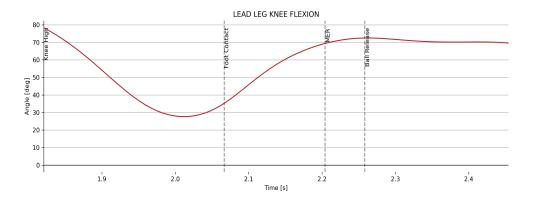


Shoulder Horizontal Abduction

at Foot Contact	at Max ER	Max	Max Timing [BC - FC (100%)]
-40	22	28	100 %
-C		-40°	
MER .	-63°	-24°	22°
YILIX	-1	12° 9°	

LEAD LEG KNEE FLEXION





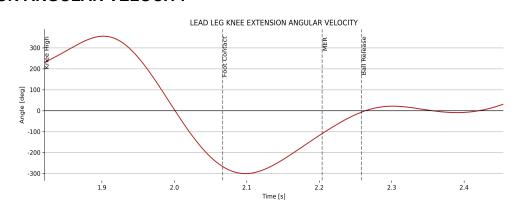
Lead Leg Knee Flexion

at Fo	oot Contact	at Max ER	Max	Max Timing [BC - FC (100%)]
	35	69	72	100 %
FC	35°			
	39°		66°	
MER				69°

LEAD LEG KNEE EXTENSION ANGULAR VELOCITY

35°





57°

Lead Leg Knee Extension Angular Velocity

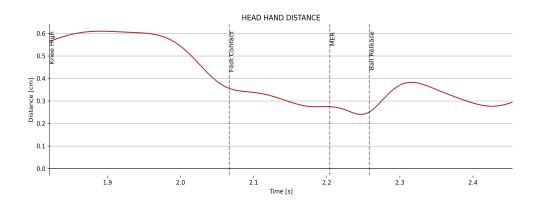
at Max ER	Max	Max Timing [BC - FC (100%)]
-109	-7	100 %



Arm acceleration

HEAD HAND DISTANCE



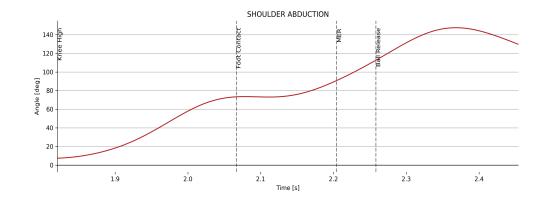


head_hand_distance

at Ball Release	
0.25	

SHOULDER ABDUCTION



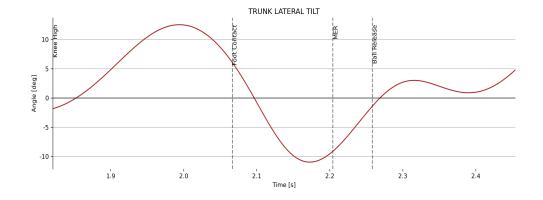


Shoulder Abduction

at Ball Release	Max	Max Timing [BC - FC (100%)]
113	113	100 %
BR		113°
	81°	99°

TRUNK LATERAL TILT

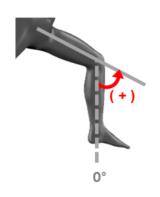


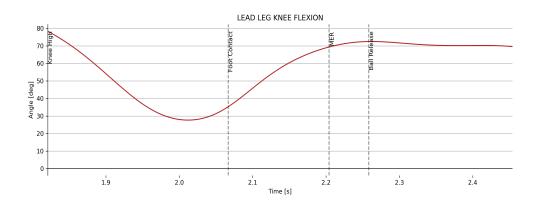


Trunk Lateral Tilt

at Ball Release		Max	Max Timing [BC - FC (100%)]
-1		6	0 %
BR	-1°		
		9° 23	0

LEAD LEG KNEE FLEXION



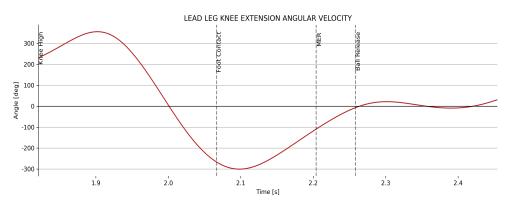


Lead Leg Knee Flexion

at Ball Release		Max	Max Timing [BC - FC (100%)]
72		72	100 %
BR			72°
	25°	53°	·

LEAD LEG KNEE EXTENSION ANGULAR VELOCITY





Lead Leg Knee Extension Angular Velocity

at Ball Release	Max	Max Timing [BC - FC (100%)]
-7	-7	100 %