

TEST	Mobility & Alignment						Performance & Kinetics						Stiffness						Pain													
	LOADING			LANDING			BIOMETRICS			LEFT	RIGHT	DELTA	BIOMETRICS			DEPTH				GRF TAKEOFF				GRF LANDING				GRF RATIO				BILATERAL
VARIABLE	LEFT	RIGHT	DELTA	LEFT	RIGHT	DELTA	JUMP HEIGHT				DEPTH				GRF TAKEOFF				GRF LANDING				GRF RATIO									
VERTICAL JUMP	HIP FLEX	37.5°	36.7°	0.8°	30.7°	28.2°	2.5°	JUMP HEIGHT	39.4 CM			DEPTH	12.4 CM			GRF TAKEOFF	626 N			GRF LANDING	670 N			GRF RATIO	0.9			BILATERAL				
UNILATERAL JUMP	KNEE FLEX	86.3°	87.2°	0.9°	67.1°	65.9°	1.2°	NET IMPULSE	162 NS			HIP TOR	4.6%			KNEE TOR	5.6%			ANKELE TOR	1.3%			BILATERAL								
DYN VAL	9.4°	4.4°	5°	1.5°	-1.6°	3.1°	HIP TOR	4.6%			KNEE TOR	10.1%			ANKELE TOR	0.5%			BILATERAL													
ANK FLEX	30.9°	35.7°	4.8°	27.8°	28.2°	0.4°	KNEE TOR	4.5%			ANKELE TOR	0.5%			BILATERAL																	
TOTAL	154.8°	159.6°	4.8°	125.6°	122.3°	3.3°	ANKELE TOR	0.5%			BILATERAL																					
UNILATERAL JUMP	Mobility & Alignment							PERFORMANCE & KINETICS							STIFFNESS							PAIN										
UNILATERAL JUMP	LOADING	LOADING			LANDING			BIOMETRICS	LEFT			RIGHT	DELTA			BIOMETRICS	LEFT			RIGHT	DELTA			LEFT	RIGHT							
UNILATERAL JUMP	VARIABLE	LEFT	RIGHT	DELTA	LEFT	RIGHT	DELTA	JUMP HEIGHT	19.4 CM			DEPTH	-1 CM			GRF TAKEOFF	1291 N			GRF LANDING	1556 N			GRF RATIO	2			BILATERAL				
UNILATERAL JUMP	HIP FLEX	12.9°	20.6°	7.7°	18.4°	27.5°	9.1°	NET IMPULSE	88 NS			HIP TOR	6%			KNEE TOR	6.1%			ANKELE TOR	0.1%			BILATERAL								
UNILATERAL JUMP	KNEE FLEX	46.3°	57.9°	11.6°	37.1°	58.4°	21.3°	HIP TOR	6.1%			KNEE TOR	14.8%			ANKELE TOR	5.5%			BILATERAL												
UNILATERAL JUMP	DYN VAL	9.7°	18°	8.3°	9.2°	15.3°	6.1°	ANKELE TOR	1.1%			BILATERAL																				
UNILATERAL JUMP	ANK FLEX	26.4°	30.3°	3.9°	15.3°	26.7°	11.4°	BILATERAL																								
UNILATERAL JUMP	TOTAL	85.5°	108.8°	23.3°	70.9°	112.6°	41.7°	BILATERAL																								
DROP JUMP	Mobility & Alignment							PERFORMANCE & KINETICS							STIFFNESS							PAIN										
DROP JUMP	LOADING	LOADING			LANDING			BIOMETRICS	LEFT			RIGHT	DELTA			BIOMETRICS	LEFT			RIGHT	DELTA			LEFT	RIGHT							
DROP JUMP	VARIABLE	LEFT	RIGHT	DELTA	LEFT	RIGHT	DELTA	JUMP HEIGHT	38.4 CM			DEPTH	20.7 CM			GRF TAKEOFF	625 N			GRF LANDING	731 N			GRF RATIO	0.9			BILATERAL				
DROP JUMP	HIP FLEX	26.2°	19.7°	6.5°				NET IMPULSE	194 NS			HIP TOR	4.5%			KNEE TOR	8.9%			ANKELE TOR	1.5%			BILATERAL								
DROP JUMP	KNEE FLEX	86.9°	83.1°	3.8°				HIP TOR	6.1%			KNEE TOR	21.8%			ANKELE TOR	12.9%			BILATERAL												
DROP JUMP	DYN VAL	1.7°	3.1°	1.4°				ANKELE TOR	0.5%			BILATERAL																				
DROP JUMP	ANK FLEX	35.8°	38.8°	3°				BILATERAL																								
DROP JUMP	TOTAL	148.9°	141.6°	7.3°				BILATERAL																								
CONCENTRIC JUMP	Mobility & Alignment							PERFORMANCE & KINETICS							STIFFNESS							PAIN										
CONCENTRIC JUMP	LOADING	LOADING			LANDING			BIOMETRICS	LEFT			RIGHT	DELTA			BIOMETRICS	LEFT			RIGHT	DELTA			LEFT	RIGHT							
CONCENTRIC JUMP	VARIABLE	LEFT	RIGHT	DELTA	LEFT	RIGHT	DELTA	JUMP HEIGHT	33 CM			DEPTH	13.6 CM			GRF TAKEOFF	794 N			GRF LANDING	761 N			GRF RATIO	1			BILATERAL				
CONCENTRIC JUMP	HIP FLEX	45.4°	47.8°	2.4°	32.3°	30.2°	2.1°	NET IMPULSE	145 NS			HIP TOR	12.1%			KNEE TOR	11.3%			ANKELE TOR	0.8%			BILATERAL								
CONCENTRIC JUMP	KNEE FLEX	77.4°	73.4°	4°	70.1°	68.1°	2°	HIP TOR	8.9%			KNEE TOR	21.8%			ANKELE TOR	12.9%			BILATERAL												
CONCENTRIC JUMP	DYN VAL	6.7°	6.6°	0.1°	6.1°	0.9°	5.2°	ANKELE TOR	0.5%			BILATERAL																				
CONCENTRIC JUMP	ANK FLEX	28.1°	23.2°	4.9°	28.7°	28.2°	0.5°	BILATERAL																								
CONCENTRIC JUMP	TOTAL	150.9°	144.4°	6.5°	131.1°	126.5°	4.6°	BILATERAL																								
LATERAL BOUND	Mobility & Alignment							PERFORMANCE & KINETICS							STIFFNESS							PAIN										
LATERAL BOUND	LOADING	LOADING			LANDING			BIOMETRICS	LEFT			RIGHT	DELTA			BIOMETRICS	LEFT			RIGHT	DELTA			LEFT	RIGHT							
LATERAL BOUND	VARIABLE	LEFT	RIGHT	DELTA	LEFT	RIGHT	DELTA	JUMP HEIGHT	33 CM			DEPTH	13.6 CM			GRF TAKEOFF	794 N			GRF LANDING	761 N			GRF RATIO	1			BILATERAL				
LATERAL BOUND	LAT TRUNK FLEX	10.4°	-0.4°	10.8°				NET IMPULSE	145 NS			HIP TOR	12.1%			KNEE TOR	8.9%			ANKELE TOR	1.2%			BILATERAL								
LATERAL BOUND	HIP FLEX	26.1°	32.1°	6°				HIP TOR	11.3%			KNEE TOR	2.4%			ANKELE TOR	0.4%			BILATERAL												
LATERAL BOUND	KNEE FLEX	55.6°	66.6°	11°				ANKELE TOR	0.4%			BILATERAL																				
LATERAL BOUND	DYN VAL	3.2°	10.1°	6.9°				BILATERAL																								
LATERAL BOUND	ANK FLEX	25.5°	14°	11.5°				BILATERAL																								
LATERAL BOUND	TOTAL	107.2°	112.7°	5.5°				BILATERAL																								
MULTI HOP	Mobility & Alignment							PERFORMANCE & KINETICS							STIFFNESS							PAIN										
MULTI HOP	LOADING	LOADING			LANDING			BIOMETRICS	LEFT			RIGHT	DELTA			BIOMETRICS	LEFT			RIGHT	DELTA			LEFT	RIGHT							
MULTI HOP	VARIABLE	LEFT	RIGHT	DELTA	LEFT	RIGHT	DELTA	JUMP HEIGHT	21.2 CM			DEPTH	-1.1 CM			GRF TAKEOFF	1976 N			GRF LANDING	1885 N			GRF RATIO	2.4			BILATERAL				
MULTI HOP	HIP FLEX	10.9°	2.1°	8.8°				NET IMPULSE	-70 NS			HIP TOR	11.8%			KNEE TOR	7.4%			ANKELE TOR	4.4%			BILATERAL								
MULTI HOP	KNEE FLEX	34.6°	29.8°	4.8°				HIP TOR	11.8%			KNEE TOR	22.2%			ANKELE TOR	1.2%			BILATERAL												
MULTI HOP	DYN VAL	14.1°	25°	10.9°				ANKELE TOR	0.1%			BILATERAL																				
MULTI HOP	ANK FLEX	19.7°	13.8°	5.9°				BILATERAL																								
MULTI HOP	TOTAL	65.2°	45.7°	19.5°				BILATERAL																								

MOVILITY				ALIGNMENT			PAIN		
	VARIABLE	LEFT	RIGHT	DELTA	BIOMETRICS	LEFT	RIGHT	DELTA	BILATERAL
	SHOULDER ABDUCTION MAX	195.4°	195.5°	0.1°	ANTERIOR CORONAL DEVIATION MAX	3.6°	7.7°	4.1°	
SHOULDER HORIZONTAL ABDUCTION	ELBOW FLEXION DURING ABDUCTION	12.6°	8.3°	4.3°					
	MOVILITY			ALIGNMENT			PAIN		
	VARIABLE	LEFT	RIGHT	DELTA	BIOMETRICS	LEFT	RIGHT	DELTA	BILATERAL
SHOULDER INTERNAL/EXTERNAL ROTATION	SHOULDER HORIZONTAL ABDUCTION MAX	66.1°	53.4°	12.7°	INFERIOR TRANSVERSE DEVIATION MAX	75.4°	77.2°	1.8°	ASYMMETRY
	ELBOW FLEXION	39.5°	23°	16.5°					•High-R Horiz Abd Max 21%
	MOVILITY			ALIGNMENT			PAIN		
SHOULDER FLEXION/EXTENSION	VARIABLE	LEFT	RIGHT	DELTA	DURING EXTERNAL ROTATION	LEFT	RIGHT	DELTA	BILATERAL
	SHOULDER EXTERNAL ROTATION MAX	90.8°	91.7°	0.9°	SUPERIOR TRANSVERSE DEVIATION MAX	1.9°	6.5°	4.6°	
	SHOULDER INTERNAL ROTATION MAX	90.2°	96.8°	6.6°	INFERIOR TRANSVERSE DEVIATION MAX	9.6°	6.2°	3.4°	
FORWARD FOLD	MOVILITY			ALIGNMENT			PAIN		
	VARIABLE	LEFT	RIGHT	DELTA	DURING INTERNAL ROTATION	LEFT	RIGHT	DELTA	BILATERAL
	SHOULDER FLEXION MAX	198.3°	194.5°	3.8°	SUPERIOR TRANSVERSE DEVIATION MAX	2.1°	6°	3.9°	ASYMMETRY
TRUNK ROTATION	SHOULDER EXTENSION MAX	64.3°	71.3°	7°	INFERIOR TRANSVERSE DEVIATION MAX	2.7°	5.2°	2.5°	•Mod-L Extension Max 10%
	ELBOW FLEXION MAX DURING FLEXION	28.6°	16.5°	12.1°	ANTERIOR CORONAL DEVIATION MAX	---	0°	---	
	ELBOW FLEXION MAX DURING EXTENSION	16.2°	12.7°	3.5°	SAGITTAL PLANE LATERAL DEVIATION MAX	28.8°	19.5°	9.3°	
MOBILITY	MOVILITY			ALIGNMENT			PAIN		
	VARIABLE	VALUE		BIOMETRICS	LEFT	RIGHT	DELTA	VALUE	BILATERAL
	THORACIC FLEXION MAX	34.9°		TOTAL THORACIC LATERAL FLEXION	6°				
MOBILITY	LUMBAR FLEXION MAX	58.1°							
	MOVILITY			ALIGNMENT			PAIN		
	VARIABLE	LEFT	RIGHT	DELTA	BIOMETRICS	LEFT	RIGHT	DELTA	BILATERAL
TRUNK ROTATION	THORACIC ROTATION MAX	40.6°	41.3°	0.7°	TOTAL THORACIC LATERAL FLEXION	6°			
	LUMBAR ROTATION MAX	17.3°	18.2°	0.9°					

TRUNK LATERAL FLEXION

MOBILITY

VARIABLE	LEFT	RIGHT	DELTA
THORACIC LATERAL FLEXION MAX	24.4°	22.9°	1.5°
LUMBAR LATERAL FLEXION MAX	12°	11.1°	0.9°

ALIGNMENT

BIOMETRICS	LEFT	RIGHT	DELTA
THORACIC FLEXION MAX	4.2°	2.2°	2°
LUMBAR FLEXION MAX	2.8°	---	---

PAIN

LEFT	RIGHT
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REVERSE LUNGE WITH ROTATION

MOBILITY

VARIABLE	LEFT	RIGHT	DELTA
THORACIC ROTATION MAX	37.5°	18°	19.5°
LUMBAR ROTATION MAX	16.8°	12°	4.8°

ALIGNMENT

BIOMETRICS	LEFT	RIGHT	DELTA
THORACIC FLEXION MAX	11.8°	15.5°	3.7°
LUMBAR FLEXION MAX	17.8°	20.9°	3.1°

PAIN

LEFT	RIGHT
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STANDING HIP ABDUCTION

MOBILITY

VARIABLE	LEFT	RIGHT	DELTA
HIP ABDUCTION MAX	53.9°	54.7°	0.8°

ALIGNMENT

BIOMETRICS	LEFT	RIGHT	DELTA
HIP INTERNAL ROTATION MAX	---	1.1°	---
HIP EXTERNAL ROTATION MAX	31.1°	27.4°	3.7°

PAIN

LEFT	RIGHT
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BILATERAL SQUAT

MOBILITY

BIOMETRICS	LEFT	% TOTAL	RIGHT	% TOTAL	DELTA
DEPTH			61.6 CM		
HIP	91.4°	33.5%	88.1°	33.7%	3.3°
KNEE	142.4°	52.2%	138.8°	53.1%	3.6°
ANKLE	39.1°	14.3%	34.2°	13.1%	4.9°
TOTAL	272.8°	---	261.2°	---	11.6°

ALIGNMENT

BIOMETRICS	LEFT	RIGHT	DELTA
TRUNK FLEX		47.1°	
MAX WEIGHT SHIFT	54.9%	45.1%	9.8%
HIP ADDUCTION	-3.6°	-4.5°	0.9°
FEM ROT	5.6°	5.5°	0.1°
DYN VALGUS	6.1°	6.3°	0.2°
TIB ROT	5.9°	7.1°	1.2°

LOADING STRATEGY

LEFT LEG	HIP	KNEE
RIGHT LEG	HIP	KNEE
BIOMETRICS	LEFT	RIGHT
TRUNK FLEX		45.8°
SHIN FLEX	39.8°	35.4°

PAIN

BILATERAL

OVERHEAD SQUAT

MOBILITY

BIOMETRICS	LEFT	% TOTAL	RIGHT	% TOTAL	DELTA
DEPTH			55.2 CM		
HIP	114.7°	39.5%	105.8°	37.5%	8.9°
KNEE	137.7°	47.3%	134.7°	47.8%	3°
ANKLE	38.4°	13.2%	41.5°	14.7%	3.1°
TOTAL	290.9°	---	282°	---	8.9°

ALIGNMENT

BIOMETRICS	LEFT	RIGHT	DELTA
TRUNK FLEX		30.3°	
MAX WEIGHT SHIFT	54.7%	45.3%	9.4%
HIP ADDUCTION	-4.7°	-3.7°	1°
FEM ROT	2.4°	-0.1°	2.5°
DYN VALGUS	6.5°	6.5°	---
TIB ROT	2.4°	---	---

LOADING STRATEGY

LEFT LEG	HIP	KNEE
RIGHT LEG	HIP	KNEE
BIOMETRICS	LEFT	RIGHT
TRUNK FLEX		29.6°
SHIN FLEX	44.2°	45.5°

PAIN

BILATERAL

UNILATERAL SQUAT

MOBILITY

BIOMETRICS	LEFT	% TOTAL	RIGHT	% TOTAL	DELTA
DEPTH	18.9 CM	---	28.8 CM	---	9.9 CM
HIP	62.5°	35.8%	76.4°	35.8%	13.9°
KNEE	82.1°	47.1%	100°	46.8%	17.9°
ANKLE	29.7°	17.1%	37°	17.3%	7.3°
TOTAL	174.3°	---	213.5°	---	39.2°

ALIGNMENT

BIOMETRICS	LEFT	RIGHT	DELTA
LAT TRUNK FLEX	5.3°	7.4°	2.1°
PELVIC OBLIQUITY	6.9°	7°	0.1°
HIP ADDUCTION	8.9°	12.3°	3.4°
FEM ROT	12.2°	12.2°	---
DYN VALGUS	11.8°	23.6°	11.8°
TIB ROT	14.6°	12.9°	1.7°

LOADING STRATEGY

LEFT LEG	HIP	KNEE
RIGHT LEG	HIP	KNEE
BIOMETRICS	LEFT	RIGHT
TRUNK FLEX	54.9°	58.3°
SHIN FLEX	29.3°	33.8°

PAIN

LEFT	RIGHT
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ASYMMETRY

- High- L COM Depth 41%
- High- L Hip Flex 20%
- High- L Knee Flex 20%
- High- L Ankle Flex 22%
- High- L Total Flex 20%

FRONT LUNGE

MOBILITY

BIOMETRICS	LEFT	% TOTAL	RIGHT	% TOTAL	DELTA
STRIDE	79.5 CM	---	79.5 CM	---	---
TRAIL HIP EXT	20.4°	---	21.1°	---	0.7°
HIP	69.5°	37.5%	71.7°	35.7%	2.2°
KNEE	95.2°	51.3%	102.2°	50.9%	7°
ANKLE	20.7°	11.1%	26.9°	13.4%	6.2°
TOTAL	185.3°	---	200.8°	---	15.5°

ALIGNMENT

BIOMETRICS	LEFT	RIGHT	DELTA
LAT TRUNK FLEX	-5.2°	-3.5°	1.7°
PELVIC OBLIQUITY	-11.5°	-8.4°	3.1°
HIP ADDUCTION	9.1°	12.6°	3.5°
FEM ROT	18.7°	18.7°	---
DYN VALGUS	7.6°	17.1°	9.5°
TIB ROT	18°	20.3°	2.3°

PAIN

LEFT	RIGHT
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ASYMMETRY

- High- L Ankle Flex 26%

LATERAL LUNGE

MOBILITY

BIOMETRICS	LEFT	% TOTAL	RIGHT	% TOTAL	DELTA
STRIDE	108.3 CM	---	105.8 CM	---	2.5 CM
TRAIL HIP ABD	38.6°	---	49.6°	---	11°
HIP	76.4°	41%	74°	35.8%	2.4°
KNEE	86.2°	46.3%	97.6°	47.1%	11.4°
ANKLE	23.7°	12.7%	35.3°	17.1%	11.6°
TOTAL	186.4°	---	207°	---	20.6°

ALIGNMENT

BIOMETRICS	LEFT	RIGHT	DELTA
TRUNK FLEX	49°	50.5°	1.5°
PELVIC OBLIQUITY	-8.3°	-5°	3.3°
HIP ADDUCTION	-19.2°	-11.5°	7.7°
FEM ROT	-6.1°	-4.5°	1.6°
DYN VALGUS	6.7°	8.1°	1.4°
TIB ROT	-6.5°	-1.8°	4.7°

LOADING STRATEGY

LEFT LEG	HIP	KNEE
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ASYMMETRY

- High- L Trail Hip Abd 25%
- Mod- L Knee Flex 12%
- High- L Ankle Flex 39%
- Mod- L Total Flex 10%

STORK STANCE

SWAY

BIOMETRICS	LEFT	% TOTAL	RIGHT	% TOTAL	DELTA
COM	10.6 CM	---	15.6 CM	---	5 CM
HIP	15.3 CM	36.4%	13.8 CM	56.2%	1.5 CM
KNEE	25.7 CM	61%	10.1 CM	41.1%	15.6 CM
ANKLE	1.1 CM	2.6%	0.7 CM	2.7%	0.4 CM
TOTAL	42.2 CM	---	24.6 CM	---	17.6 CM

ALIGNMENT

BIOMETRICS	LEFT	RIGHT	DELTA
LAT TRUNK FLEX	9.3°	4.6°	4.7°
PELVIC OBLIQUITY	16.6°	18.7°	2.1°
HIP ADDUCTION	8.4°	-6.2°	14.6°
FEM LAT TILT	11.2°	9.8°	1.4°
DYN VALGUS	11.5°	8.1°	3.4°
TIB LAT TILT	-6.3°	-5.3°	1°

PAIN

LEFT	RIGHT
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SINGLE LEG BALANCE

SWAY

BIOMETRICS	LEFT	% TOTAL	RIGHT	% TOTAL	DELTA
COM	309.8 CM	---	102.7 CM	---	207.1 CM
HIP	196.4 CM	37.9%	66.1 CM	67.3%	130.3 CM
KNEE	306.2 CM	59%	25.1 CM	25.6%	281.1 CM
ANKLE	16.2 CM	3.1%	7 CM	7.1%	9.2 CM
TOTAL	518.8 CM	---	98.1 CM	---	420.7 CM

ALIGNMENT

BIOMETRICS	LEFT	RIGHT	DELTA
TRUNK FLEX	7.1°	3.7°	3.4°

PAIN

BILATERAL

TANDEM BALANCE

SWAY

BIOMETRICS	LEFT	% TOTAL	RIGHT	% TOTAL	DELTA
COM			873.3 CM		
HIP	830.6 CM	37.7%	959.2 CM	38.4%	128.6 CM
KNEE	768 CM	34.9%	1119.8 CM	44.9%	351.8 CM
ANKLE	604.1 CM	27.4%	416.6 CM	16.7%	187.5 CM
TOTAL	2202.7 CM	---	2495.5 CM	---	292.8 CM

ALIGNMENT

BIOMETRICS	LEFT	RIGHT	DELTA
LAT TRUNK FLEX	2.3°	3.7°	1.4°
PELVIC OBLIQUITY	-16.1°	-8.8°	7.3°
HIP ADDUCTION	9.9°	16.3°	6.4°
FEM ROT	0.8°	23.5°	22.7°
DYN VALGUS	9.5°	28.6°	19.1°
TIB ROT	1.4°	24.9°	23.5°

PAIN

LEFT	RIGHT
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ASYMMETRY

- High- L Knee Flex 61%
- High- L Ankle Flex 22%
- High- L Total Flex 59%