Pitching Biomechanics Checklist

Body region	WIND UP	EARLY COCKING	LATE COCKING	ACCELERATION
UE		Shoulder:	Shoulder:	Shoulder IR and
		$Ab = 90^{\circ}$	Maximum ER	elbow extension
		Horizontal Ab = 20°	170 - 185°	
		External rotation = $45^{\circ} - 60^{\circ}$		Ball release:
			Elbow:	Shoulder Ab
		Elbow:	Flexion = 90°	
		Flexion = 90°		
Trunk, pelvis, and LE	Maximum knee height	Stride length 85% of height	Pelvic rotation followed by upper	Lead knee
		Lead knee 45°	ti ulik Totatioli	extends to 30°
	Pitcher is balanced			
		Pelvis approximately 35°		
		RHP lead foot closed to 3 rd		
		LHP lead foot closed to 1 st		

Diffendaffer, A. Z., Bagwell, M. S., Fleisig, G. S., Yanagita, Y., Stewart, M., Cain Jr, E. L., ... & Wilk, K. E. (2023). The clinician's guide to baseball pitching biomechanics. Sports Health, 15(2), 274-281. Fortenbaugh, D., Fleisig, G. S., & Andrews, J. R. (2009). Baseball pitching biomechanics in relation to injury risk and performance. Sports health, 1(4), 314-320. ٠

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