TESTING STRENGTH & POWER

REFERENCE VALUES FOR ELITE BASKETBALL PLAYERS



COACH TO COACH EDUCATIONAL COURSES

Table 3.3 / Optimal levels of strength endurance and maximal strength (1RM) relative to the body weight

TRAP BAR DEADLIFT	BENCH PRESS	PULL-UPS	SINGLE LEG SQUAT
1.7 - 2.0	1.1 - 1.3	> 12	> 15 (< 15% difference)

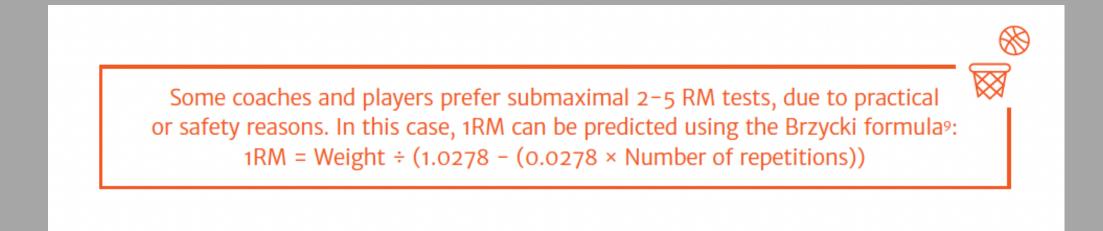


Table 3.4 / Optimal height/length (cm) for SJ, CMJ, 1SJ and LB tests considering playing position

	SJ	CMJ	1SJ	LB
GUARDS	> 48	> 53	> 56	> 235
FORWARDS	> 45	> 50	> 53	> 235
CENTERS	> 42	> 46	> 48	> 235

For all coaches who do not have force platforms or similar testing equipment, research confirmed that different smartphone/tablet applications are both valid and reliable for testing jump performance^{37,39,40.}

SOURCE: ESSENTIALS OF PHYSICAL PERFORMANCE IN ELITE BASKETBALI

in drop jumps considering playing position				
	30cm / GCT	45cm / GCT	6ocm / GCT	75cm / GCT
GUARDS	> 50 / < 180	50 / < 180	> 45 / < 190	> 45 / < 190
FORWARDS	> 45 / < 180	45 / < 180	> 40 / < 190	> 40 / < 200
CENTERS	> 40 / < 190	40 / < 210	> 35 / < 230	> 30 / < 250

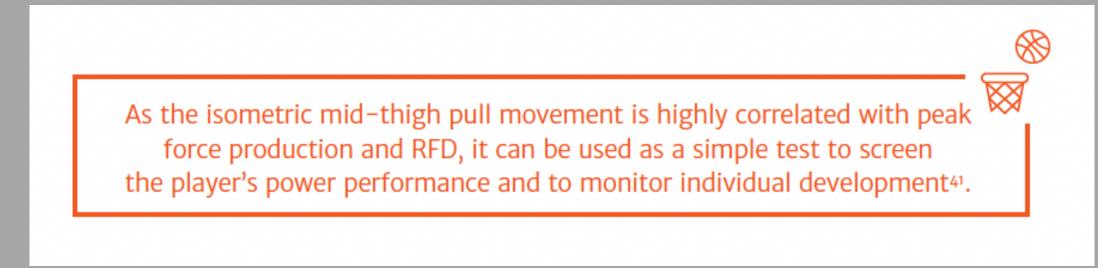
Table $2 \in I$ (Optimal height (cm) and ground contact time (ms)

Table 3.6 / Optimal results for 5 and 10 meters accelerations considering playing position

< 0.9 s	< 1.65 s	
	< 1.65 s	
< 0.95 s	< 1.75 s	
< 1.05 s	< 1.85 s	

Table 6.7 / Training emphasis according to DSI⁸³

SCORE	DSI SCORE	TRAINING EMPHASIS
Low	<0.6	Ballistic training
Moderate	0.6 - 0.8	Concurrent training
High	>0.8	MAX strength training



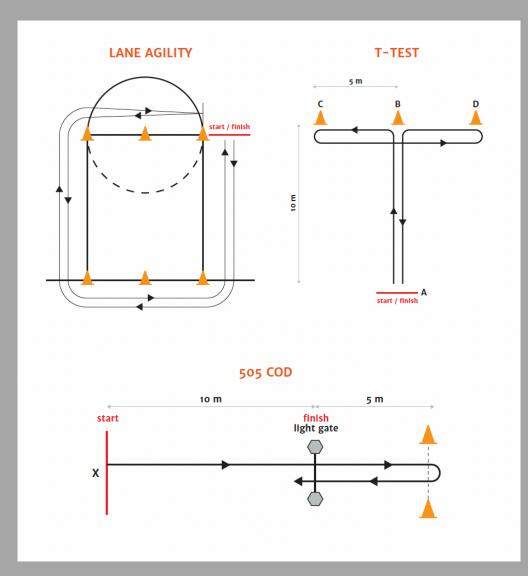




Table 3.7 / Optimal results in COD tests considering playing position

	LANE AGILITY	T-TEST	505 COD
GUARDS	< 10.5 s	< 8.5 s	< 2.10 S
FORWARDS	< 11 S	< 8.75 s	< 2.20 S
CENTERS	< 11.5 s	< 9 s	< 2.30 s

CAL DIETZ

ACCELERATION SPLIT TIMES CALCULATOR: https://performancemadesimple.com

LOADING PARAMETERS AND GUIDELINES FOR 13 TRAINING ZONES: https://www.xlathlete.com/blog/triphasic-training-13-trainingzones-loading-parameters-and-guidelines/