

BASELINE® **Back-Leg-Chest Dynamometer**





Baseline[®] back-leg-chest dynamometer Measure strength of back, leg and chest. Base provides sure footing. Chain length is adjusted to accommodate for height differences or to vary the point of force application. Shows pounds and kilograms. Pointer remains at maximum until reset. Unit comes with everything in upper left picture. Available models below.

> AL-63346C AL-63346A

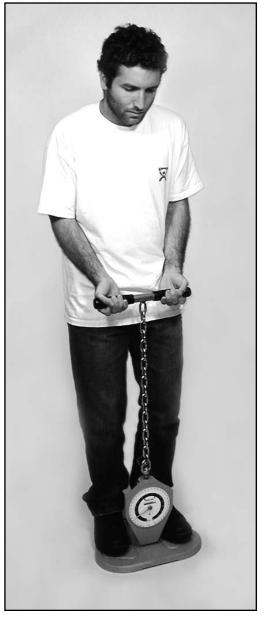
large base, 660 lb. adult regular base, 600 lb. adult





single handle

double handle



additional back-leg-chest hardware accessories

handles Call

Call bases

AL-63344A AL-63344C

regular base large base

chains/straps Call

Call

Call

Call

chain (ft) strap (ft) ovals

snap oval threaded oval

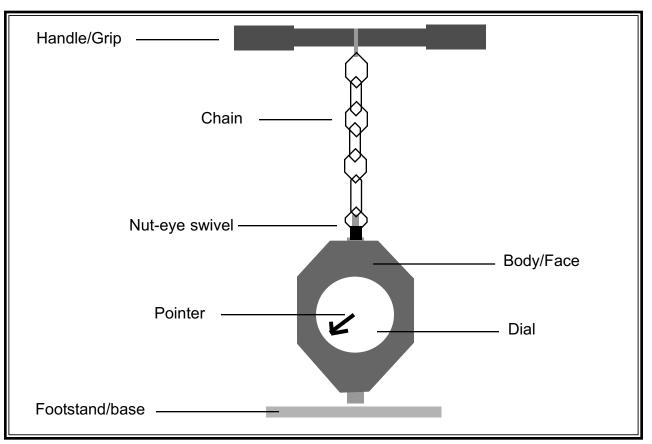
Parts and Assembly

The following parts make up the Back-Leg-Chest dynamometer: Body (face), Dial, Pointer, Footstand (base), Grip and Chain. Locate all of these parts. When assembled, should look like diagram and like photographs on previous page.

To assemble your unit:

1) Locate and remove contents from packaging.

2) Attach handle/chain unit to swivel on top of face by using adjustable chain link. Make chain short-er by putting adjustable chain link higher on the chain. If chain is not long enough obtain additional chain footage. Unit is now ready for use.



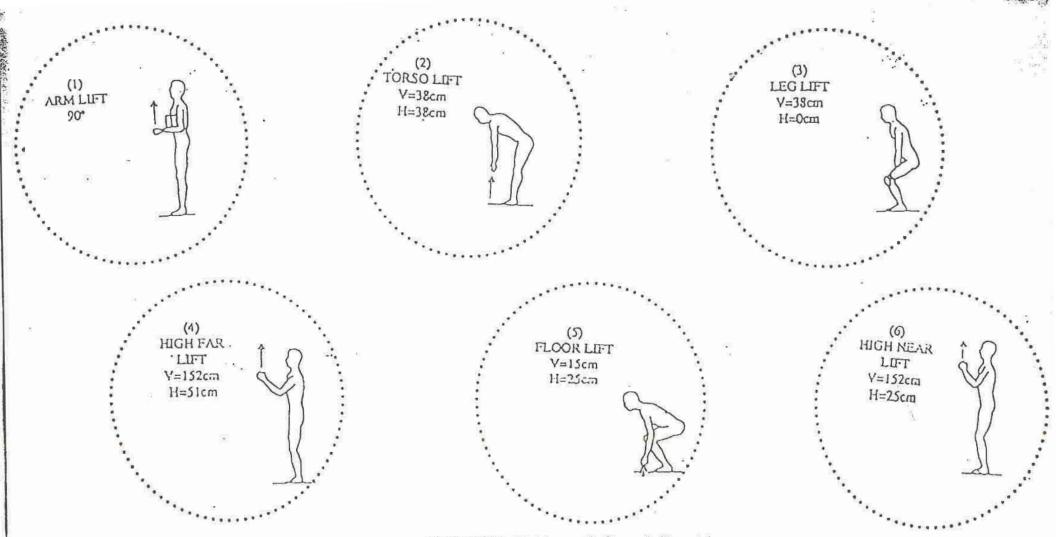
Back-Leg-Chest dynamometer in raised postion

Testing Protocol

1. Subject should stand with both feet on base. (see picture on upper right corner of previous page)

2. Adjust chain to accomodate test protocol. Perform the test. Subject should lift in a gradual vertical motion.

3. The pointer on the dial indicates the force exerted. Each test should consist of three trial measurements. The result is the average.



Maximal Voluntary Isometric Strength (Pounds)

Test	Males							Females						
	Sample Size	Coeff. of Variation	Population Percentile				tile	Sample	Coeff. of	Population Percentile				
			10	25	50	75	90	Size	Variation	10	25	50	75%	90
Arm Lift (1)	1052	0.07	51	68	86	106	123	187	0.08	20	33	48	62	75
Torso Lift (2)	1052	0.09	57	75	99	132	169	187	0.10	29	37	53	73	97
Leg Lift (3)	638	-	42	152	200	251	295	133	1111	11	59	88	117-	141
High Far Lift (4)	309	0.09	35	42	51	62	75	35	0.12	20	24	29	35	42
Floor Lift (5)	309	0.08	130	163	200	238	271	35	0.08	70	97	123	152	176
High Near Lift (6)	309	0.08	77	97	121	145	167	35	0.11	35	26	64	79	92

References: Keyserling, W.M., Herrin, G.D. and Chaffin, D.B. "An Analysis of Selected Work Muscle Strength." Proceedings of the Human Factors Society 22nd Annual Meeting, Detroit 1978.

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