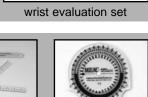
Baseline® measurement - the most complete line of instruments for the physical therapist





7-piece hand evaluation set







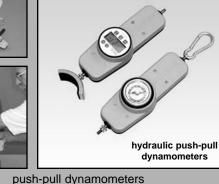


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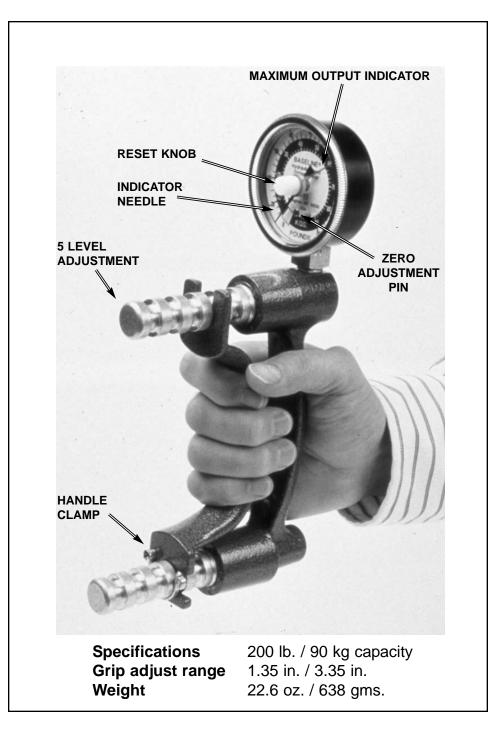
Want more information? email: info@FabricationEnterprises.com find these and much more at www.FabricationEnterprises.com Post Office Box 1500, White Plains, New York 10602 (USA) Tel: 800-431-2830 / 914-345-9300 FAX: 800-634-5370 / 914-345-9800



Manufacturer and Master Distributor of **Physical Therapy and Rehabilitation Products**

PARTS/SPECIFICATIONS

WARRANTY



The BASELINE® Hydraulic Hand Dynamometer is warranteed for 1 (one) full year (parts and labor) from date of purchase. If unit needs repair contact your local dealer or Fabrication Enterprises, Inc.:

Fabrication Enterprises, Inc. 3 Westchester Plaza STE 111 Elmsford, NY 10523 U.S.A.

TEL: 800-431-2830, (914) 345-9300



Virgil Mathiowetz, PhD, OTR Associate Professor Department of Occupational Therapy College of St. Catherine 2004 Randolph Avenue St. Paul, MN 55105-1794

March 18, 1993

Mr. Elliott Goldberg, Marketing Director Fabrication Enterprises Inc. Trent Building South Buckout Street Irvington, NY 10533

Dear Mr. Goldberg,

Recently, I completed the study to determine whether the Baseline and Jamar hydraulic dynamometers can be used interchangeable. A draft of the report has been completed and sent to you. In the summary, I concluded that, "The data from this study suggest that the Jamar and Baseline hydraulic hand dynamometers measure equivalently for practical purposes. As a result, individuals using the Baseline Dynamometer are justified in using the normative data, which was collected with the Jamar dynamometer (Mathiowetz et al., 1985; 1986)." This conclusion assumes that the same standard procedures are followed as were used in the original normative data studies.

Sincerely,

Vigel Mathemet

Virgil Mathiowetz, Phd, OTR Associate Professor & Research Consultant

USAGE

Set handle to comfortable grip for patient. Re-set max indicator to zero. Have patient squeeze with maximum force, note reading. Re-set to zero for next test.

CALIBRATION

The BASELINE® hand dynamometer is a sealed unit and calibrated at the factory. However, if indicator needle is out of "zero-range" it may be reset. Remove clear cover by turning counter clockwise. Adjustment pin located by 90Kg marking. Turn pin to reset to zero.

If unit is leaking hydraulic fluid it should be returned to factory for repair and recalibration.

COMPONENTS

- Machined aluminum handle, post and body
- Bronze bellows
- Stainless steel hydraulic tubing
- Teflon bushings
- Non-toxic mechanical hydraulic pump fluid
- Gauge Bourdon tube element with spring suspended movement. Constructed to ASME B 40.1 standards. Accuracy better than 98%.

DATA

The BASELINE® hand dynamometer can utilize the large amount of data pertaining to the Jamar® hand dynamometer. The internal workings of both are hydraulic and bellows operated.

NORMS FOR ADULT GRIP STRENGTH

A recent study by Dr. Virgil Mathiowetz indicates that "... individuals using the Baseline® dynamometer are justified in using the normative data that was collected with the Jamar® dynamometer".

For each test of grip strength, the subject was seated with shoulder adducted and neutrally rotated, elbow flexed at 90°, forearm in neutral position, and wrist between 0° and 30° dorsiflexion and between 0° and 15° ulnar deviation.

The standard test protocol used the mean of three strength tests as the resultant score. A score was taken with both the dominant (right) and non-dominant (left) hands.

The test results show a relationship between:

- hand strength vs. age
- hand strength of men vs. hand strength of women
- dominant hand strength vs. non-dominant hand strength

MEN							WOMEN				
Mean	SD	SE	Low	High	Age	Hand	Mean	SD	SE	Low	High
121.0	20.6	3.8	91	167	20-24	R	70.4	14.5	2.8	46	95
104.5	21.8	4.0	71	150	2010/01/19-02	L	61.0	13.1	2.6	33	88
120.8	23.0	4.4	78	158	25-29	R	74.5	13.9	2.7	48	97
110.5	16.2	4.4	77	139		L	63.5	12.2	2.4	48	97
121.8	22.4	4.3	70	170	30-34	R	78.7	19.2	3.8	46	137
110.4	21.7	4.2	64	145		L	68.0	17.7	3.5	36	115
119.7	24.0	4.8	76	176	35-39	R	74.1	10.8	2.2	50	99
112.9	21.7	4.2	73	157		L	66.3	11.7	2.3	49	91
116.8	20.7	4.1	84	165	40-44	R	70.4	13.5	2.4	38	103
112.8	18.7	3.7	73	157		L	62.3	13.8	2.5	35	94
109.9	23.0	4.3	65	155	45-49	R	62.2	15.1	3.0	39	100
100.8	22.8	4.3	58	160		L	56.0	12.7	2.5	37	83
113.6	18.1	3.6	79	151	50-54	R	65.8	11.6	2.3	38	87
101.9	17.0	3.4	70	143		L	57.3	10.7	2.1	35	76
101.1	26.7	5.8	59	154	55-59	R	57.3	12.5	2.5	33	86
83.2	23.4	5.1	43	128		L	47.3	11.9	2.4	31	76
89.7	20.4	4.2	51	137	60-64	R	55.1	10.1	2.0	37	77
76.8	20.3	4.1	27	116		L	45.7	10.1	2.0	29	66
91.1	20.6	4.0	56	131	65-69	R	49.6	9.7	1.8	35	74
76.8	19.8	3.8	43	117		L	41.0	8.2	1.5	29	63
75.3	21.5	4.2	32	108	70-74	R	49.6	11.7	2.2	33	78
64.8	18.1	3.7	32	93		L	41.5	10.2	1.9	23	67
65.7	21.0	4.2	40	135	75 +	R	42.6	11.0	2.2	25	65
55.0	17.0	3.4	31	119		L	37.6	8.9	1.7	24	61
104.3	28.3	1.6	32	176	All	R	62.8	17.0	0.96	25	137
93.1	27.6	1.6	27	160	Subjects	L	53.9	15.7	0.88	23	115

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