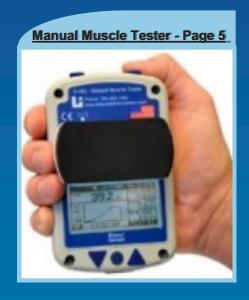


SI Instruments Evaluation & Assessment



JAMAR Digital Hand Evaluation Kit - Page 12



SI Instruments Pty Ltd

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Evaluation & Assessment



We are proud to present you this overview of our products for Manual Handling Assessment and Occupational Health & Safety instruments.

SI Instruments has been supplying quality instruments for over 25 years in Australia to a wide variety of industries.

Out commitments are:

- We supply our customers with the best measuring solution to solve their testing and measuring application
- We provide the best possible ongoing technical support to our customers
- We respect our colleagues, our suppliers and our customers and care for our community and our environment

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We take a long-term view in our business. As a result, all the suppliers that we represented in 1989 are still with us today and most of our sales are generated through referrals from other customers and repeat orders.

All of the instruments in this catalogue can be serviced and where applicable, calibrated in our own laboratory.

Please do not hesitate to call us for any query or question.

Eric St.Martins
Managing Director

CONTENTS



3

	\
Strength Testing Jackson Evaluation system Manual Muscle Tester Manual Handling Kits	4
Hand Evaluation JAMAR Digital Hand Dynamometer JAMAR Digital Pinch Gauge Finger Goniometer JAMAR 3 Piece Hand Evaluation Kit	6
Range of Motion Acumar Inclinometer Range Goniometers Skinfold Calipers	7
Anthropometrics Anthropometers Anthropometric Tape	9
Dexterity and Coordination Testing Occupational Skills Assessment Test Battery Hand Tool Dexterity Test Pegboard & Dexterity Tests Stability Platform with Digital Control	10

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Strength Testing

Lifting Strength Evaluation System





Lifting Strength Evaluation System

The system is widely used by rehabilitation validated, standardised test protocols and professionals to monitor progress in recov- normative data. It is lightweight and comery from injury and by industrial testing spe- pact making it highly portable. The compocialists to assess the ability of job applicants nents of this system can be purchased indito perform physically demanding work vidually. tasks. The system features an electronic load cell for accurate and reliable measurements of isometric strength and a new programmable microprocessor control, offering user-defined standardised test protocols. The system is designed to meet the needs of the National Institute of Occupational Safety and Health (NIOSH). The system comes complete with detailed instruction for the recommended strength tests and offers

System Includes:

- Heavy-Duty Lifting Platform
- Strap
- Basic Force Gauge 1000N
- Force Gauge Cradle

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Strength Testing



Model 01165 Manual Muscle Tester (MMT)

Using the Kendall method of manual muscle testing, the new Lafayette MMT gives you an objective, reproducible and reliable measurement of muscle strength. The new ergonomically designed easy -to-use MMT fits easily in the hand and now includes added features requested by therapists: Three molded interchangeable stirrups, graphical LCD display, dual measurement range (0 to 50 pounds in 0.1 - pound increments and 0 to 300 pounds in 1 pound increments), pounds/kilogram selectable, built-in Bluetooth computer connection, stored measurement of peak force and the time required to reach peak force, automatic verification of calculation and a tone for preset trial lengths.



SI Instruments / OH&S Analogue Manual Handling Kit

choice of digital or analogue force gauge, is but also the capacity of personnel to perform designed to measure not only the force used those tasks. Kits containing a Mecmesin in physically demanding tasks but also the force gauge are supplied with Easyplot gracapacity of personnel to perform those phing software displaying force vs time tasks. Supplied with a Carry Case, the kit graphs uses a gauge, gripping handle and suitable accessories to measure the forces involved in job tasks, facility safety, ergonomics and health assessment. The Manual Handling Kit, supplied with a choice of digital or analogue force gauge, is designed to measure

The Manual Handling Kit, supplied with a force used in physically demanding tasks









Graphing Software

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Hand Evaluation

JAMAR Digital Hand Dynamometer

Ideal for routine screening of grip strength and initial and ongoing evaluation of clients with hand trauma and dysfunction. Sturdy aluminium body construction with scratch resistant UV coating. The readout displays isometric gri force from 0-200 lbs. (90kg). The unit's easy-to-read LCD dispay can be set to display pounds or kilograms. The dynamometer also features digital load cell technology, Rapid Exchange Testing with audible signals, and automatically calculates the average, Standard Deviation and Coefficient of Variation. Two minute auto-off feature helps conserve battery life. Battery low life indicator. Comes in a reusable storage container.



6

JAMAR Digital Pinch Gauge

This instrument is the re-designed version of the hydraulic Pinch Gauge and records thumb or finger pressure in either pounds or kilograms and features an easy to read LCD display. The push-button console includes a button to zero the last reading stored in memory and two toggle buttons used to accurately store up to 99 readings. Handy wrist strap and one 3V battery included. The unit weighs 145g and measures 25 x 13 x 5cm with a range up to 25kg (60lb).



5.75" Finger Goniometer Model J00205

This Goniometer is used for easy range-of-motion measurements of metacarpal phalangeal and interphalangeal joints. There are linear inch and centimetre markings on both sides of the protractors, in opposite directions. The protractors measure 0° to 150° in 5° increments. Stainless



Jar Set Jan eva pr

Jamar 3 Piece Hand Evaluation Set

Set containing 3 instruments necessary for Hand Evaluation - Jamar Hydraulic Hand Dynamometer for Routine screening and evaluation of grip strength, Jamar Hydraulic Pinch Gauge providing accurate and repeatable pinch strength readings and Jamar 5½" Finger Goniometer for easy range of motion measurements of metacarpal, phalangeal and interphalangeal joints.

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Range of Motion



Acumar Single Digital Inclinometer Model ACU001

Compact, handheld unit features large digital display for easy reading. Store measurement with the hold button, and review each measurement and maximum, minimum and average values. This compact unit reduces examination time and enhances the objectivity of measurements and documentation. Supports range of motion evaluation as described in the AMA Guides to the Evaluation of Permanent Impairment.



Acumar Dual Digital Inclinometer Model ACU002

Two-inclinometer techniques and procedures are well defined in the 5th edition of AMA Guides. It is emphasised that spinal motion is compound, thus it is essential to measure both angles. Inclinometer comes with

built-in wireless transmitter to optional computer interface. Package contains Digital Inclinometer Main Unit and a Companion Unit. Also comes with mini-manual, manual, Measurement illustrations and case. Acumar Dual Inclinometer can simultaneously capture both angles by the press of a single button. It allows up to six pairs of data for viewing and recording to greatly speed up data capture and analysis.

Acumar Companion Unit and Connecting Cable Model ACU003

The Companion Unit and Connecting Cable allows you to upgrade your Acumar Single Inclinometer to an Acumar Dual Inclinometer. Dualinclinometer technique procedure is well defined in the 5th Edition of AMA Guides. The Acumar Dual Inclinometer contains modern features that simplify measurements and increase objectivity. Acumar Dual Inclinometer can simultaneously capture both angles by the press of a single button. It allows up to six pairs of data for viewing and recording to greatly speed up data capture and analysis.





Model SCU0010 Acumar Ruler Attachment

Inclinometer may be attached to the ruler by a magnetic catch on either side of the ruler. The measurement axis may be rotated 90° to read angles with respect to the vertical axis by pressing the zero button for 5 seconds while holding the inclinometer close to

vertical. Use for x-ray film evaluations and orthopaedic, podiatric, chiropractic examinations. Especially useful for Upper and Lower Extremity measurements.

Wireless Computer Interface Model ACU0011

Optional infrared wireless computer interface eases data transfer from inclinometer to a computer. An example Microsoft Excel based Acumar™ Data Capture Template is provided to demonstrate getting started with a computer-based documentation and presentation. Requires a USB and Microsoft Excel (Office XP recommended)



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Range of Motion

Extendable Goniometer Model 01135

Versatility, Reliability, Accuracy and Portability are the advantages that make the Gollehon Extendable Goniometer an innovative tool in the assessment of range of motion. Its arms can extend to 28.00" to measure large joints and retract to 8.0" to measure all but the smallest joints. Unlike standard goniometers that require the examiner to estimate alignment, the length of the extendable arms allows it to lie over anatomical bony landmarks. The dual scale of 0° - 180° and 180° - 0° is magnified four times, improving the accuracy of the reading, thus, reducing the chance for error. The Extendable Goniometer is affordable, costing little more than standard goniometers. Its lightweight ABS plastic construction will ensure continued and long lasting use. The Extendable Goniometer features a Dual Scale, 1 Degree Increments, Extendable and Retractable Arms, Magnified Reading Window, as well as a Compact, Lightweight and Portable Design.



12.5" Plastic Goniometer Model J00240

Transparent plastic device that allows location of axis movement and observation of joint movement. Has a 360° scale marked in 1° increments.

7.875" Plastic Goniometer Model J00245

Transparent pastic device with a 360° scale marked in 5° increments.



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Anthropometrics



Large Anthropometer

Model 01290

The Large Anthropometer has a range of 0 to 60cm in 0.1cm increments. Popular uses include measuring shoulder width, long bone length and chest depth for tracking growth and development of children or for use in motion analysis studies. Aluminium in construction, it uses a spring-loaded ball bearing in a sliding C-shaped arm to provide accurate and precise measurement.



9



Small Anthropometer Model 01291

The Small Anthropometer has a range of 0 to 30cm in 0.1cm increments. Popular uses include measuring wrist, elbow, knee and ankle widths, as well as measuring smaller muscle masses like the bicep and calf. Aluminium in construction, it uses a spring loaded ball bearing in a sliding C-shaped arm to provide accurate and precise measurement.

6" Gulick Anthropometric Tape Model J00305

Provides precise circumferential measurement for progressive anthropometric exams, regardless of examiner's measurement techniques. Contains spring attachment for constant tension and precision. Tape measures in inches and centimetres.





Dexterity & Coordination

Occupational Skills Assessment Test Battery

Model 32604

This battery is used to measure the progress in rehabilitation and return-to-work capability of individuals performing jobs/tasks that require manual dexterity, hand-eye coordination, steadiness and perceptual motor skills. Placement personnel and human resource departments can pretest a job applicant's suitability for assembly and other jobs where frequent manipulation of objects in confined space is required.

Kit Includes:

Model 32020 Model 32022 Purdue Pegboard Test O'Connor Tweezer Test

Model 32023

Minnesota Manual Dexterity Test

Model 23521

Hand Tool Dexterity Test

Hand Tool Dexterity Test Model 32521

This test measures proficiency in using ordinary mechanic's tools. The test consists of tools and two uprights with bolts. The object is to disassemble all the bolts from one upright and reassemble them on the corresponding rows of the other upright with the heads of the bolts inside. This type of skill is important in many different factory jobs, in industrial apprentice training and in servicing many types of equipment. Includes norms.



Purdue Pegboard Test Replacement Pins, Washers and Collars Examiner's Manual

Model 32020

Model 32103 (Not Shown) Model 32108 (Not Shown)

The Purdue Pegboard Test was first developed by Joseph Tiffin, Ph.D., and Indus-

PURDUE PEGROARD

The second se

trial Psychologist at Purdue University in 1948. Since that time, this device has been used extensively to aid in the selection of employees for jobs that require fine and gross motor dexterity and coordination. It measures gross movements of hands, fingers and arms, and fingertips dexterity as necessary in assembly tasks. The pegboard is complete with pins, collars and washers and an examiner's manual with norms.

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Dexterity & Coordination





Minnesota Manual Dexterity Test Replacement Cylinders Test Score Blanks (25/pkg) Model 23023 Model 32031 Model 32032

This widely used test measures capacity for simple but rapid eye-hand-finger movement. This particularly applicable in shop and office occupations requiring quick movement in handling simple tols and production materials without differentiating size and shape. Includes carrying case, manual, record blanks and norms.

11

Complete Minnesota Manual Dexterity Test Model 32023A

This complete Minnesota Manual Dexterity Test measures simple hand-eye coordination and gross motor skills. It consists of a battery of five test: Placing, Turning, Displacing, One-Hand Turning and Placing and Two-Hand Turning and Placing. Includes 2 folding boards, 60 blocks, carrying case and instruction manual





O'Connor Dexterity Test Model 32021 Replacement Pins (100/pkg) Model 32106 (Not Shown)

The O'Connor Finger Dexterity Test requires hand placement of 3 pins per hole. This test has been used successfully as a predictor for rapid manipulation of small objects, as in assembly line work. It has also been found useful in predicting success for instrument work, such as the assembling of armatures, miniature parts of clocks and watches, rapid hand eye work, filling vials and small lathe work.

Grooved Pegboard Test Model 32025
Extra Pegs (30/pkg) Model 32104 (Not Shown)

The Grooved Pegboard is a manipulative dexterity test consisting of 25 holes with randomly positioned slots. Pegs with a key along one side must be rotated to match the hole before they can be inserted. This test requires more complex visual-motor coordination than most pegboard tests. Some common uses are student labs, screening procedures in industry and evaluation lateralised brain damage. The pegs are conveniently stored under the nameplate.



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Dexterity & Coordination

O'Connor Tweezer Dexterity Test Model 32022
Replacement Pins (100/pkg) Model 32106
Replacement Tweezer Model 32109

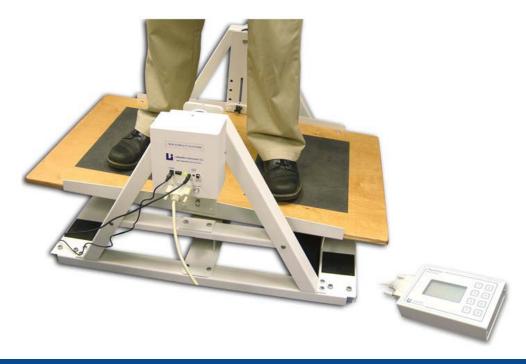
The O'Connor Tweezer Dexterity Test requires the use of tweezers in placing a single pin in each 1/16" diameter hole. A high score indicates manual attitude for work including the use of precision small tools, such as hair replacement procedures. Includes 1 tweezer, 100 pins and detailed examiner's manual

12



Stability Platform with Digital Control Model 16030

The Stability Platform measures balancing ability, which is essential to successfully performing many activities. The mode 16030 Stability Platform features fully integrated timing functions for test control and electronic angle measurement for unsurpassed accuracy. The platform control allows a wide range of user settable parameter including variable test times, selectable angle limits, and digital tilt angle readout. With the Stability Platform's rugged design and electronic capabilities, it will provide many years of reliable operation.



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