

Manual Dexterity

- >> *Rehabilitation and Return to Work*
- >> *Skills Assessment*
- >> *Perception*
- >> *Motor Coordination*
- >> *Personnel Selection and Development*



Purdue Pegboard Test

Model 32020

The Purdue Pegboard Test was first developed by Joseph Tiffin, Ph.D., an Industrial 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, arms, and fingertip dexterity as necessary in assembly tasks.

Intended for industrial use and assembly work in a factory setting, the test is now being studied for use in other special areas such as patients with Parkinson's, Multiple Sclerosis, Stroke sufferers, and similar illnesses. Physical and Occupational Therapists also use the Purdue Pegboard for injury rehabilitation, using the test as a tool to obtain baseline data on a patient documenting the progress and/or degree of disability.

Complete with the following tools

The Pegboard is equipped with pins, collars, and washers which are located in four cups at the top of the board. An examiner's manual with norms is also included for administering the test.

Replacement Models

32103 Replacement set of 55 pegs, 45 washers, and 25 collars

32107 Record blanks, 25 per package



Scan for more information on the Purdue Pegboard

Grooved Pegboard Test

Model 32025

This manipulative dexterity test contains twenty-five holes with randomly positioned slots and pegs which have a key along one side. Pegs must be rotated to match the hole before they can be inserted.

This procedure measures performance speed in a fine motor task by examining both sides of the body, inferences may be drawn regarding possible lateral brain damage.

The test requires more complete visual motor coordination than most of our pegboards and has been used in several neuropsychological test batteries, in student labs, and as a screening technique in industrial environment.

The Grooved Pegboard is equipped with pegs, and examiner's manual with norms.

Replacement Models

32104 Replacement Pegs, 32 per package



Minnesota Manual Dexterity Tests

Model 32023

Model 32023A

Minnesota Manual Dexterity Test (1 Board)

Model 32023

This widely used test measures capacity for simple but rapid hand-eye coordination. This is particularly applicable in shop and office occupations requiring quick movement in handling simple tools and production materials without differentiating size and shape. The Minnesota Manual Dexterity Test consists of the following two tests:

- Placing
- Turning

Complete Minnesota Manual Dexterity Test (2 Boards)

Model 32023A

The Complete Minnesota Manual Dexterity Test measures simple hand-eye coordination and gross motor skills. It consists of a battery of five tests:

- Placing
- Turning
- Displacing
- One-Hand Turning and Placing
- Two-Hand Turning and Placing

Commonly used for: *This test is applicable for testing workers in occupations requiring quick movement in handling simple tools and production material without differentiating size and shape.*

Complete with the following tools

The Minnesota Manual Dexterity testing kit includes sixty plastic cylinders, board with sixty round holes, carrying case, manual with norms, and record blanks.

The Complete Minnesota Manual Dexterity Test kit includes 2 folding boards, 60 blocks, carrying case, and instruction manual with norms.

Replacement Models

1-04811 Replacement Board

32031 Replacement cylinders (sold individually)

32032 Record blanks for 32023, 50 per package

32033 Record blanks for 32023A, 50 per package



Model 32023A

Hand Tool Dexterity Test

Model 32521

This test measures proficiency in using ordinary mechanical tools. The test consists of tools and two uprights with bolts, washers, and nuts. The object is to disassemble all the bolts from one upright and reassemble them on corresponding rows of the other upright with the heads of the bolts inside.

This type of skill is important to many industrial jobs and apprentice training. Results of the test have been used to determine vocational interest and as an indicator of success where job/tasks require the use of these or similar tools.

The Hand Tool Dexterity Test is complete with examiner's manual, norms, 15/16 inch Open End Wrench, 1/2 inch Open End Wrench, 10 inch Crescent Wrench, Screw Driver, and all required Bolts, Nuts, and Washers.



Replacement Models

32521A 15/16 inch Open End Wrench

32521D Screwdriver

32521B 1/2 inch Open End Wrench

32521E Bolts, Nuts, and Washers

32521C 10 inch Crescent Wrench

Roeder Manipulative Aptitude Test

Model 32026

This test measures hand, arm, finger dexterity, and speed. It is designed to test individuals for employment and to test elementary through college students when dexterity is a primary requirement.

The board has four receptacles for holding washers, rods, caps, and nuts. The performance board also is comprised of a horizontal T-bar and 40 inserts arranged in a predetermined pattern.

The Roeder Manipulative Aptitude Test is complete with examiner's manual, norms, board, as well as all washers, rods, caps, and nuts.

Replacement Models

32026RB Set of Record Blanks, 50 per package

32026P Replacement Washers, Rods, Caps, and Nuts



O'Connor Finger Dexterity Test

Model 32021

The O'Connor Finger Dexterity Test requires hand placement of 3 pins per hole. Consisting of 100 holes about 3/16 inches in diameter, holes are arranged in ten rows and spaced ½ inch apart.

Primarily used as a predictive tool wherever rapid manipulation of objects, especially the picking up and placing of small parts, is important.

The O'Connor Finger Dexterity Test is complete with board, pins, examiner's manual, and norms.

Replacement Model: 32106 Set of Replacement Pins, 105 per package



O'Connor Tweezer Dexterity Test

Model 32022

This test is the same as our Model 32021 except the test requires the use of tweezers in placing a single pin in each hole, which are 1/16" diameter. A high score is indicative of manual aptitude for work involving precision and steadiness of small hand tools and requires a high degree of hand-eye coordination.

The O'Connor Tweezer Dexterity Test is complete with board, pins, tweezers, examiner's manual, and norms.

Replacement Models

32106 Set of Replacement Pins, 105 per package

32109 Replacement Tweezers



Two Arm Coordination Test

Model 32532

This is a test of the coordination of both arms working together in order to move a stylus around a six-point star pattern.

This unit must be connected to an impulse counter to record the number of errors and/or a stop clock to record the amount of time outside the path. Norms not included.

Available Counters

58024C Battery-operated impulse counter that works silently, thus eliminating any cues given by counter clicks.

54060 Economy Clock/Counter is a timing device that is capable of accurately recording times down to a millisecond.

54035A Multi-Function Timer/Counter, has timing and counts multiple events simultaneously.



Auto Scoring Mirror Tracer

Model 58024A

This tracing device involves reversal ability, hand-eye coordination, and learning. The subject is required to trace the star pattern while watching only its mirror image. Errors are automatically tallied and provision has also been made to track the total amount of time that the stylus is outside the star pattern. The mirror and shield are completely collapsible for easy storage and portability. The system has been designed to be used with either left or right handed subjects without a need to change the mounting brackets, support arms, etc.

This unit must be connected to a timing device to also record the amount of time outside of the path. Norms are not included.

Available Timers

54060 Economy Clock/Counter is a timing device that is capable of accurately recording times down to a millisecond.

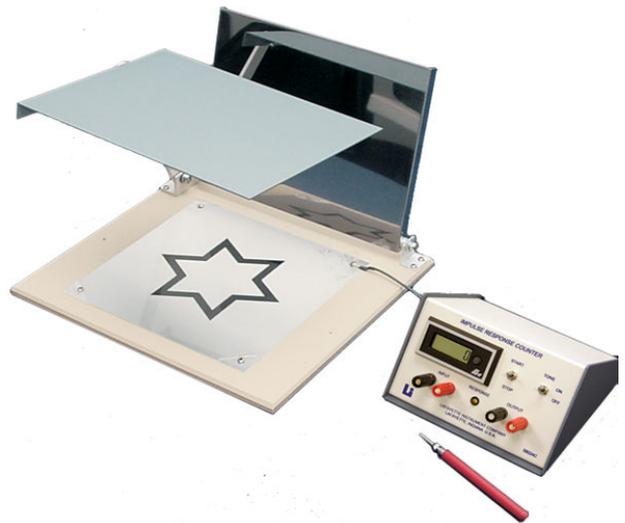
54035A Multi-Function Timer/Counter, has timing and counts multiple events simultaneously.

Replacement Parts

32532A Replacement Star

32533B Replacement Stylus

58024M Replacement Mirror and Base



Steadiness Tester - Hole Type

Model 32011

This test has been designed to measure one aspect of the psychomotor phenomena of steadiness. The subject's task is to hold a stylus in each of the nine holes of diminishing size without touching the sides. Analysis can be made of the subject's total score or for each hole separately.

The effects of: steadiness of handedness, exercise, smoking, alcohol ingestion, and other factors can be observed. Performance curves can be analyzed for practice effects and fatigue.

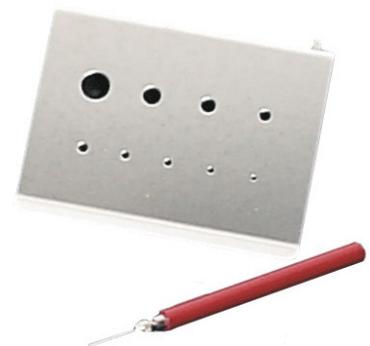
This unit must be connected to an impulse counter to record the number of errors and/or a stop clock to record the amount of time in error. Norms not included.

Available Counters

54060 Economy Clock/Counter is a timing device that is capable of accurately recording times down to the millisecond.

54035A Multi-Function Timer/Counter, has timing and counts multiple events simultaneously.

58024C Battery-operated impulse counter that works silently, thus eliminating any cues given by counter clicks.



Occupational Skills Assessment Test Battery

Model 32604

This test 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 job applicant suitability for assembly and other jobs where frequent manipulation of objects in confined spaces is required.

Complete with the following tools (photos not to scale)

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| 32011 Steadiness Tester, Hole Type | 32026 Roeder Manipulative Aptitude Test |
| 32020 Purdue Pegboard Test | 32521 Hand Tool Dexterity Test |
| 32022 O'Connor Tweezer Test | 32532 Two-Arm Coordination Test |
| 32023 Minnesota Manual Dexterity Test | 58024A Auto-Scoring Mirror Tracer |





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