

Saehan Digital Hand Dynamometers:

DHD-1: The DHD-1 Digital Hand Dynamometer is a stand-alone device developed to be used just like traditional hydraulic hand dynamometers. With the added capability to save strength testing results in memory, strength testing can be performed and the results reviewed and recorded after all tests are completed. When connected to a PC using the USB cable, the Data Transfer Software can transfer the stored test results from the DHD-1 memory into text (.txt) files which can be easily accessed using Notepad or MS-Word for editing and printing.

The DHD-1 Digital Hand Dynamometer represents the latest electronic technology applied to the familiar design of hydraulic hand dynamometers. Utilizing electronic load cell transducers instead of hydraulic fluid mechanisms that are prone to leakage; the DHD-1 is extremely durable and designed to last for many years. Highly accurate grip strength measurement from 0-200 pounds (lbs.) or from 0-90 kilograms (kg) is digitally displayed on the LCD and up to 20 test results for each hand can be stored in memory. The built-in battery is long lasting and is easily recharged when connected to a PC using the USB cable included with the DHD-1. In addition, the DHD-1 includes Data Transfer Software (DTS) enabling test results to be downloaded to a PC.



DHD-3: The DHD-3 Digital Hand Dynamometer provides the same features as the DHD-1 when used as a stand-alone device, but adds automated Rapid Exchange Grip Testing. Using Auto Mode, up to 10 test strength tests for each hand as well as the time allowed to switch hands can be configured to automate the testing procedure.

Although the DHD-3 Digital Hand Dynamometer includes many features when used as stand-alone device, the Grip Strength Testing and Research Software (G-STAR™) extends the DHD-3 capabilities. G-STAR™ is an easy to use, yet powerful software tool which automates grip strength and endurance testing in both clinical and research environments. All patient information and their test results are stored in an Access® database which includes normative score tables for comparison based on age and gender. Maximum grip strength and grip endurance tests are graphically displayed during testing and can be saved in the database with their associated patient information. In addition, tests saved in the DHD-3 itself when used as a stand-alone device, can be imported into the database when re-connected to the PC using G-STAR™.

Default values for search functions, sorting sequence, testing mode, unit of measure and other parameters can be set based on preference and common usage, but can be changed for individual tests as required. Voice guidance provides assistance during program operation and helps guide the patient during testing. G-STAR also includes utilities for backing up and restoring the database as well as exporting individual test result to text (.txt) files. The G-STAR database can also be directly accessed to export data into Excel® for customized analysis and reporting.

