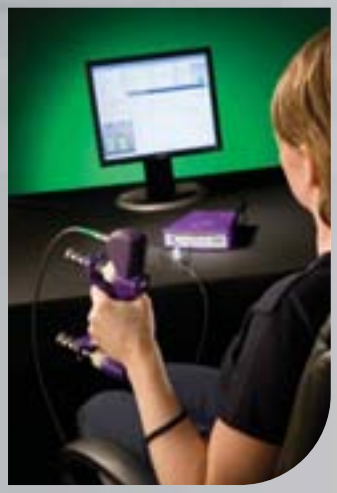
H500 Hand Kit

The Biometrics **H500** Hand Kit provides precise electronic tools for:-

- Fast & accurate pinch & grip measurements including specialized tests and progress reporting
- Unique pinch & grip exercises giving purposeful activity, isometric strengthening, motor learning and control

Grip & Pinch Strength Evaluation



Biometrics' computerized tools for strength evaluation and exercise measure in 0.1 increments (Kg or lbs). In addition to speeding up data collection, they are extremely sensitive providing accurate measurement on very weak or debilitated patients.

The precision Biometrics' **Dynamometer** linked to the **E-LINK** software easily and accurately measures grip strength:

- Standard Peak Force Grip test
- Sustained Grip test measures force over time
- Rapid Exchange Test, for detection of sub-maximal effort
- Progress reporting over multiple sessions

The unique low profile design of the Biometrics' **Pinchmeter** allows measurement and exercise at closer to end range than any other device - manual or electronic. The software accurately and easily measures pinch strength:

- Key (Lateral), Three Jaw (Tri-pod), Tip to Tip
- Sustained Pinch test measures force over time
- Progress reporting over multiple sessions

Unique Isometric **Pinch & Grip** Exercise

As opposed to traditional zero to peak force exercises, the range of force may be graded, setting the minimum and maximum, to meet the patient's functional goals. Force ranges for exercise are set in 0.1 increments with a maximum load of 90 Kg (200 lbs) for grip and 22 Kg (50 lbs) for pinch. The movement of the objects in the **E-LINK** Activity Modules is controlled by the application and relaxation of isometric grip or pinch within the set parameters. The various modules provide purposeful activity, isometric strengthening, motor learning and control.

The range of force settings and activities allow multiple exercise options such as:

- Zero to peak force exercise, taking the patient from full relaxation to maximum, including the option to hold at peak force
- Exercise within patient limitations
- Setting the force range very low allows controlled purposeful activity while minimizing joint loading
- Patients with spasticity can work on controlled relaxation within therapist-defined ranges
- By varying the range of force and time, the patient's rehabilitation can be oriented to specific job or ADL goals
- The Activity Modules provide a range of effects – from gross isometrics strengthening to fine motor control

The **H500** and the **E4000** require the **InterX** Unit as the interface to the computer.