



Hand-held dynamometer
– Assessing muscle strength
across the range of motion with
speed, accuracy and objectivity

The hand-held dynamometer enables medical therapists to determine the force across the range of motion in patients' joints.

The compact hand-held dynamometer delivers results at an affordable price. It can be used alongside current assessment techniques to scientifically measure force over the range of motion. The hand-held dynamometer provides clear information to the therapist or sports coach when assessing a person's recovery progress and capabilities.

Stand-out benefits

- ▶ Digitally records patient rehabilitation over time
- ▶ Displays results in clear graphical or digital form
- ▶ Dual evaluation feature eliminates need for separate devices
- ▶ Portable and easy to use
- ▶ Standardisation and consistent measurements for patient records
- ▶ Assurance for medical insurers that evidence-based medicine is being practised
- ▶ Training tool for therapists
- ▶ Motivational use for patients as results improve

Features

- ▶ Three objective measurements from a single device:
 - Force
 - Range of motion
 - Force/Range of motion simultaneously
- ▶ Rechargeable battery-operated — 5 hour duration
- ▶ Software support includes patient database capability
- ▶ On-board memory allows recording and trending of readings over time
- ▶ Touch screen control for selection of mode
- ▶ Range of motion — $0-359^{\circ} \pm 1^{\circ}$ accuracy
- ▶ Force — 0 to $80 \text{ kg} \pm 0.1 \text{ kg}$ accuracy
- ▶ Graphical display of measurement
- ▶ Clear display of readings
- ▶ Metric or imperial
- ▶ Protected IP

Market status

Industrial Research has developed IP for the hand-held dynamometer. It is currently at prototype stage and we are actively looking to engage with partners at various levels to develop this further. If you are interested in supporting this product at user trial, manufacture or distribution stage, please make contact now.

Expertise

Industrial Research is New Zealand's leading scientific research and technology business. As an innovation-based company we partner with industry to take world-class science through to globally competitive market viable technologies. We have a growing profile within the health sector and our medical devices are developed in collaboration with other leading organisations. Together with rehabilitation centre, Burwood Academy of Independent Living, we put our devices through clinically approved medical trials to prove fit for purpose and benefits to the end user.



For all enquiries please contact the Industry Engagement team on 0508 CALL IRL (0508 225 5475). If calling from overseas phone +64 4 931 3000 or visit the *Contact Us* page on our website.

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