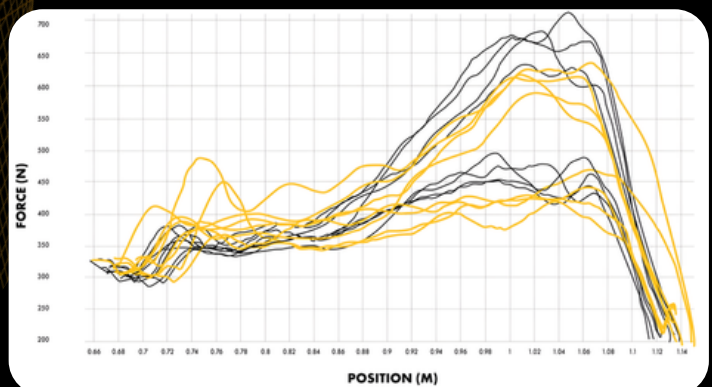
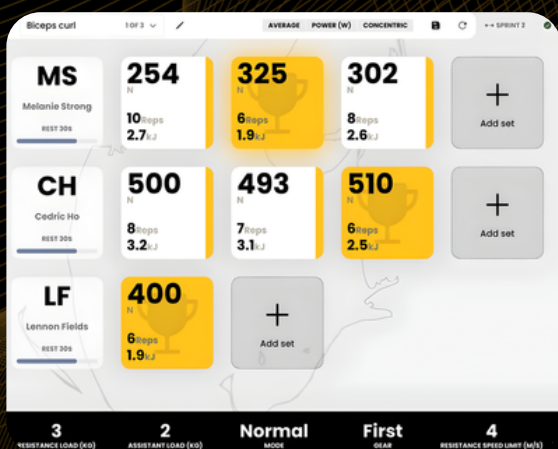
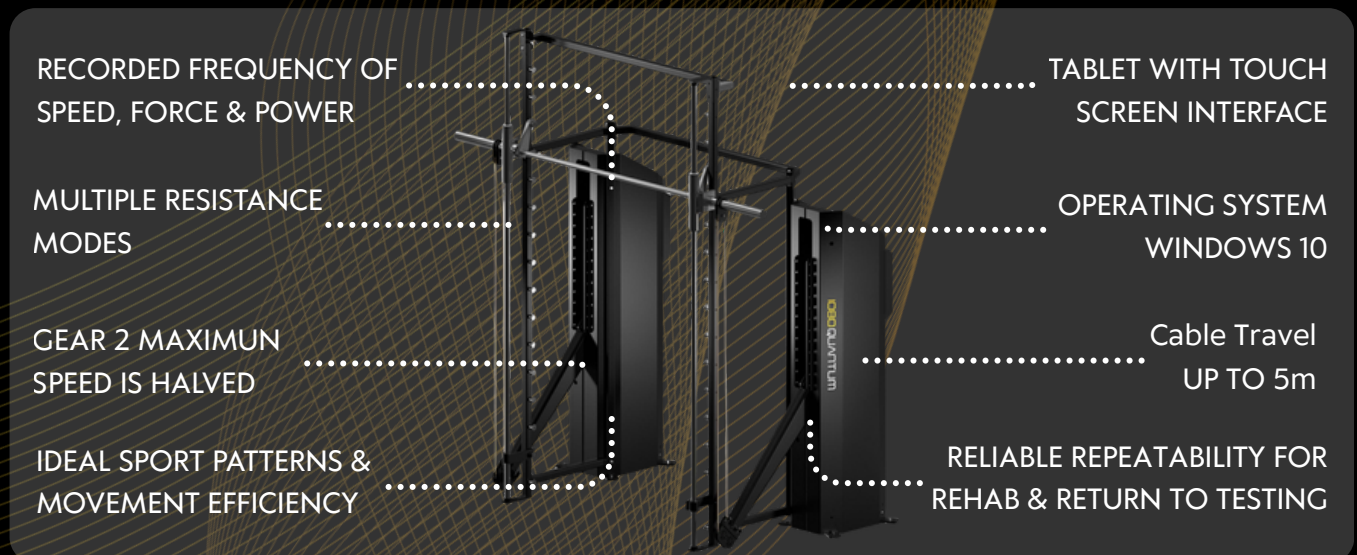


# QUANTUM SYNCRO

The 1080 Quantum Syncro is a smart resistance system designed to build strength, power, and efficient movement. It applies computer-controlled resistance through every phase of a lift for precise concentric, eccentric, and isokinetic training. Real-time data tracks force, velocity, and power on every rep for clear performance insight. The system supports explosive training, controlled strength work, and sport-specific movements. It is also well suited for rehab and return-to-play testing with consistent, repeatable results. Compact and versatile.



- Dashboard displays each athlete with their force numbers & training sets in simple tiles & Force-position graph shows how their force changes through the full range of motion across reps
- The 1080 Quantum Syncro uses bar attachments, hand grips, ankle cuffs, pulleys, and anchor straps to support strength, power, and rehab training

# Technical Specifications



## Gear 1 Concentric Load

2–50 kg (4–110 lbs)



## Gear 1 Eccentric Load

1–60 kg (2–132 lbs)



## Gear 2 Concentric Load

2–100 kg (4–220 lbs)



## Gear 2 Eccentric Load

2–120 kg (4–265 lbs)



## Gear 2 Max 3s Load (Con / Ecc)

175 kg / 325 kg



## Concentric Velocity

0.1–8 m/s (0.3–26 ft/s), max speed halved in Gear 2



## Eccentric Velocity

0.1–6 m/s (0.3–20 ft/s), max speed halved in Gear 2



## Sampling Frequency

333 Hz (force, speed, power)



## Interface

Tablet touchscreen or laptop (Windows 10 / 11)



## Column Weight

180 kg (400 lbs) each



## Column Height

1.7 m (5.6 ft)



## Max Cable Travel

5 m (16 ft)




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