

QUANTUM

The 1080 Quantum is a world-class smart resistance system engineered to bridge the gap between high-performance strength training and neurological efficiency. Utilizing advanced computer-controlled motors, it provides instantaneous, ultra-smooth resistance throughout every millimeter of a movement. This allows coaches and therapists to target specific training adaptations—from explosive power and maximum velocity to controlled eccentric loading and isokinetic testing. The Quantum transforms standard exercises into precise diagnostic tools, ensuring that every set is optimized for the athlete's current physical state.

RECORDED FREQUENCY OF
SPEED, FORCE & POWER

MULTIPLE RESISTANCE
MODES

GEAR 2 MAXIMUM
SPEED IS HALVED

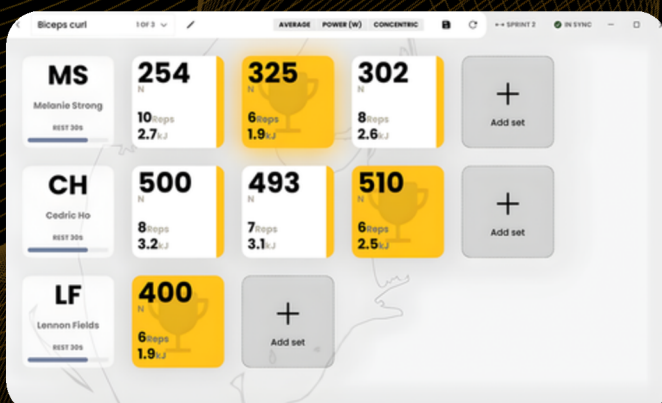
CUSTOMIZABLE CONCENTRIC,
ECCENTRIC & ISOKINETIC MODES.

TABLET WITH TOUCH
SCREEN INTERFACE

OPERATING SYSTEM
WINDOWS 10

REAL-TIME MOTOR
ADJUSTMENTS

RELIABLE REPEATABILITY FOR
REHAB & RETURN TO PLAY



- Athlete Profiles: Simple tiles display each athlete with their specific force numbers and training sets
- The 1080 Quantum 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 (386 lbs) / 325 kg (717 lbs)



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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