



The MR100's recumbent design pays particular attention to hip and lowerbody joint mobility, allowing optimal rehabilitation at a relatively relaxed posture. Users may input desired knee flexion angles and the software will suggest the pedal and the seat's fore/aft position. Variables such as body symmetry and limb length can be taken into account for clinicians to finely tailor to every patient's needs.

The MR100 is equipped with the standard MA900 Rehabilitation Adjustable Crank, which operates in a closed-kinetic chain environment. It is safe, impact free, and pain free within the patient's ROM.

FEATURES

ADJUSTABLE PEDAL CRANKS

Enables a clinician to adjust the bike to accommodate a patient's ROM performance capabilities. This includes independently, single side or bi-lateral adjustments from a limited range-of-motion as small as 15 degrees through full range-of motion.

BI-DIRECTIONAL RESISTANCE

Forward and reverse pedaling for instantaneous retro-cycling.

MULTIPLE RESISTANCE MODES

Constant resistance, constant power and Isokinetic resistance

DYNAMIC BRAKING

Minimizes impulse loading

WORK RATE

Range from under 5 watts up to 1,750 watts

DOCUMENTABLE PATIENT POSITIONING

All seat and pedal crank adjustments have numbered indexing for consistent patient set-up from visit to visit.

MULTIPLE SEAT ADJUSTMENTS

- 8 position swivel seat for ease of patient ingress and egress
- 6 position recline seat back for hip angle adjustments
- Fore/aft patient positioning

SOFTWARE ASSISTED PATIENT SET-UP

SYMMETRY MONITORING

Measurement of bi-lateral power (example: Left 41 watts - Right 34 watts)

SUB-MAX VO₂ TESTING

(YMCA protocol)

ADVANTAGES AND CLINICAL APPLICATIONS

CLOSED KINETIC CHAIN

Begin exercise earlier, safely, and impact free within the pain free ROM thereby reducing the patient's "fear factor"

PATIENT POSITIONING

Adjustable swivel seat position, seat back, and pedal crank for easy patient set-up, knee and hip angle adjustments

EXERCISE IN BOTH DIRECTIONS

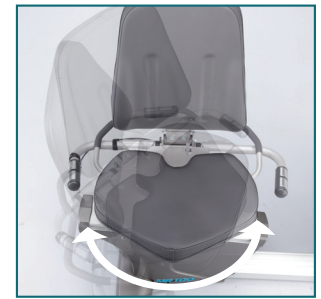
Active movement in both directions

BI-LATERAL SYMMETRY

Monitoring assists in improving limb deficiencies and walking gait

PATIENTS WITH

Patella femoral conditions, total knee replacements, ACL, MCL, and PCL repairs, other ligamentous repairs, arthritic conditions, tendonitis, and many more conditions will benefit



MULTI SEAT ADJUSTMENTS



ADJUSTABLE PEDAL CRANKS



BI-DIRECTIONAL RESISTANCE

ELECTRONIC AND SOFTWARE FEATURES

- Intuitive interface for ease of operation
- Unique knee angle data input allows entry of desired ROMs to determine seat and pedal crank settings minimizing the guess work
- Set-up mode allows quick entry of patient data, resistance resolution, settings, and how the information is displayed
- Large, easy-to-read displays: Time, RPM, Watts, Calories, METs, Heart Rate, Power, and much more
- Multiple Programs include: Quick Start, Manual Mode, Preset Hill, Plateau, and Interval profiles; Custom Facility protocol program, VO2 sub-max YMCA protocol, Isokinetic speed based resistance (from 25 to 100 RPM)
- Unique Symmetry program that measures and displays power around the pedal stroke. Biofeedback encourages patients to maintain power between right and left leg

TECH SPECS

Power:	90 to 240 volts AC (Standard Power Supply)
Overall dimensions:	68.9"L x 30.7"W x 46"H (175cm x 78cm x 117cm)
Net Weight:	186 lbs (84.5 kg)
Max user weight:	440 lbs (200 kg)
Certifications:	ISO 13485, IEC 60601-1-2, RoHS

WARRANTY

Frame: Lifetime
Mechanical and Electronic Components : 3 years
Wearable Items: 1 year
Labor: 1 year

Power Train:

- Heavy duty, 8 groove poly-v belt for smooth, quiet operation
- Dual spring loaded idlers provide a low start-up resistance and forward/reverse pedaling motion
- Pedal to brake ratio provides smoother pedaling motion

Braking Device:

- Electro-magnetic resistance allows for very small increments of workloads (5 watts per level at 60 rpm, 2 watts per level at 30 rpm)
- Dual electromagnets provide a controlled isokinetic resistance and our unique Dynamic Braking mode

