DKN®
TECHNOLOGY

SMART FITNESS SOLUTIONS

MEDBIKE 2.0®

PROFESSIONAL

MOVEMENT

THERAPY

SOLUTION

DKN®

INDICATIONS:

Nervous system disease
Brain injury, stroke (stroke), cerebral palsy, peripheral nerve disease, spinal cord injury, Parkinson's disease, multiple sclerosis, etc.
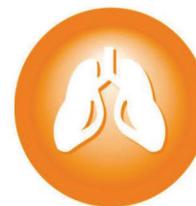
Bone and joint system diseases
After fracture surgery, osteoporosis, ligament injury, osteoarthritis, and joint replacement surgery.

Muscle and tendon system disorders
After spasticity, muscle atrophy and adhesions, muscle sprains and tears, tendonitis and tenosynovitis, and tendon rupture.

Endocrine and visceral diseases
Type 2 diabetes, hypertension, coronary heart disease, chronic obstructive pulmonary disease, constipation, kidney dialysis patients.

TREATMENT MODES:

Passive mode: Passive movement training driven by motor;

Power-assisted mode: Power-assisted training assisted by a motor. The machine detects the remaining muscle strength and automatically provides assistive power;

Active and passive mode: There is no gap between passive movement and active movement, ensuring the continuity of training;

Active mode: Exercises completed by the patient's own muscle strength, with adjustable resistance. Enhance muscle endurance and improve cardiopulmonary function;

Isokinetic mode: In active movement mode the speed is constant and the resistance changes.

CLINICAL TREATMENT EFFECT:

- Exercise and restore muscle strength of upper and lower limbs; eliminate muscle tension and reduce muscle spasms;
- Improve joint mobility and prevent joint stiffness:
- Overcome the consequences of lack of exercise: such as blood circulation problems, joint stiffness, muscle contracture, digestive problems, defecation problems, osteoporosis, lower limb edema, etc. Prevent bedsores and venous thrombosis. Promote smooth bowel movement and urination:
- Improve walking ability; establish and maintain basic functions required for walking (motor control, muscle strength, endurance). Reduce stiffness. Improve walking confidence:
- Replace labor. Save time and costs.

ADAPTABLE INSTITUTION:

Rehabilitation departments of medical and health institutions at all levels. Neurosurgery, orthopedics, geriatrics, community health service centers (stations). Disabled Persons' Federation rehabilitation centers, civil welfare homes, nursing homes, and respiratory rehabilitation centers. Cardiopulmonary rehabilitation center, day care center, sub-health management center, etc.

UPPER AND LOWER LIMB TYPE FOR ADULT
A product that lasts throughout recovery

It is suitable for functional training of upper limbs and lower limbs for patients in the recovery period and sequelae period.

Adopt the design concept of one machine with multiple functions. will be evaluated. Passive, power-assisted, active-passive, active, constant speed, feedback and other functions are integrated into one. Provide patients with more treatment methods to achieve the best results.

7-inch color LCD touch screen

180° rotatable screen.
Viewing angle O-90° adjustment

Straps, arms, and forearm bracket can be replaced at will

(Optional) 10-inch LCD large display
Viewing angle 0°-90° adjustment

Emergency stop protection

Upper body vertical and horizontal training conversion

180° rotatable training arm

10cm height adjustment

5cm leg guard height adjustment

Scroll wheel automatically locks and opens

MedBike SBU-1 2.0

MedBike SB-1 2.0

Medbike 2.0 Set

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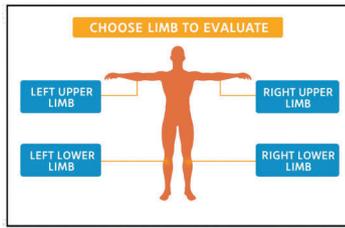
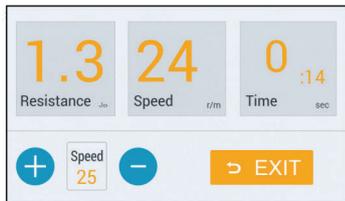# EVALUATING,ISOKINETIC SOFTWARE SYSTEMS
Innovative breakthrough - smarter and more efficient!

The evaluation function is the latest generation of active and passive application systems launched by DKN-Technology. The system adopts the concept of combining evaluation and training to maximize the therapeutic effect of the rehabilitation machine.
The addition of the isokinetic function enriches the diversity of active movements. Induces stronger, more stable muscle strength and endurance during exercise.

CHOOSE LIMB TO EVALUATE

LEFT UPPER LIMB | RIGHT UPPER LIMB
LEFT LOWER LIMB | RIGHT LOWER LIMB

Integrate multiple assessments into one – subverting traditional usage models
Quantitative standards for recovery progress
Facilitate better use of data for training settings
Make rehabilitation training targeted
Correct use of rehabilitation treadmill

1.3 Resistance **24** Speed r/m **0** :14 Time sec

Speed 25

5 major training modes
Passive mode
Assist mode
Active and passive mode
Active mode
Isokinetic mode

PASSIVE MOVEMENT | ACTIVE MOVEMENT | PASSIVE MODE | ASSISTED MODE

Baby is coming, relax!

|| PAUSE
REVERSE DIRECTION
ENTERTAINMENT
EXIT

ARM SWING | 17:14 TIME | -- --- RESISTANCE | 0 RPM SPEED | SPEED 20

Spasm protection measures
Monitor the patient's muscle tone changes to indicate the occurrence of spasm.
Use slow stretching to quickly relieve spasms.

Rehabilitation Training Results Statstics
Total Time (min) 0.0 | Total Distance (mi) 0.0

	Active	Passive		
Training Time (min)	0.0	0.0	Average Muscle Tension (Nm)	00
Training Distance (mi)	0.00		Min	0.00
Energy Consumption (kcal)			Max	0.00
Rate – Times	0		Symmetry	50

Save Data | Continue Training

Patient management system
Create patient profile
Patient information query
patient assessment
Training data is automatically generated

UPRER LIMB HORIZONTAL | UPPER LIMB VERTICAL | UPPER LIMB ISOMETRIC SPEED | SETTINGS
LOWER LIMB TRAINING | LOWER LIMB SPEED SPEED | REHAB EVALUATION

PAIN SELECTION SCALE
0 1 2 3 4 5 6 7 8 9 10
•VAS scoring method explanation
• 0 (no pain), 0-3(mild pain), (3-6)(moderate pain), (6-9),10 (worst pain).
Cancel | Next item

Range of Motion Assessment
180
150 150
120 120
90 90
60 60
30 0 30
Reassess | Next

Muscle Strength Evaluation
3.7 Current Muscle Strength | **5.9** Maximum Muscle Strength
Re-evaluate | Next

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SITUATIONAL INTERACTIVE REHABILITATION TRAINING SYSTEM

Opening a new era of intelligent group rehabilitation

Multiple intelligent sports rehabilitation machines are combined with the situational interactive system to form a new group rehabilitation model. Integrate treatment with interactive entertainment to improve patients' enthusiasm for participation.

Ease patients' resistance to treatment and allow patients to achieve recovery goals in a happy experience.

The situational interactive system and the rehabilitation machine adopt wireless connection technology, making the training environment safe and stable. The main console can set the training parameters of the rehabilitation machine and control the start and stop of training;

Support patient management, training result storage, training result analysis, and improve the precise application of rehabilitation machines.

1-4 active and passive devices can be connected selectively

5 training methods. Multiple scene switching

multisensory proprioceptive stimulation

Inspiration, competition, interaction, and positive recovery concepts

Patient management system

Competing in the same scene

Split screen independent perspective

More treatment options

The rehabilitation machine seat is an optional device for the rehabilitation machine. This seat can be connected to the DKN-Technology Upper and lower limb rehabili-tation machine. It can be used when patients train on the rehabilitation machine. The seat can be rotated horizontally to facilitate the patient's seat transfer:12CM free height adjustment is provided: the seat can slide forward and backward according to position needs: to ensure that the patient's posture when using the rehabilitation machine is correct, the seat is equipped with safety straps. The rehabilitation machine seat provides patients with a real-time and safe upper and lower limb rehabilitation machine training environment.

FOCUS, LEADING, HIGH QUALITY

Focus on active and passive technology to provide you with a high-quality treatment experience

Technical Parameters

Weight: 60KG	Resistance: 0-20N, 1 step adjustment。
Specifications (length, width and height) 850×700×1090~1190mm	Velocity: 0-60/min, 1step adjustment。
Treatment modes: passive mode, assist mode, active and passive mode, active mode, spasm relief mode	Optional: evaluation and isokinetic software system; 10-inch display screen; situational interactive rehabilitation training system

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