



SMART FITNESS SOLUTIONS

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## MEDBIKE 2.0<sup>®</sup>

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PROFESSIONAL

MOVEMENT

THERAPY

SOLUTION



DKN<sup>®</sup>

## 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

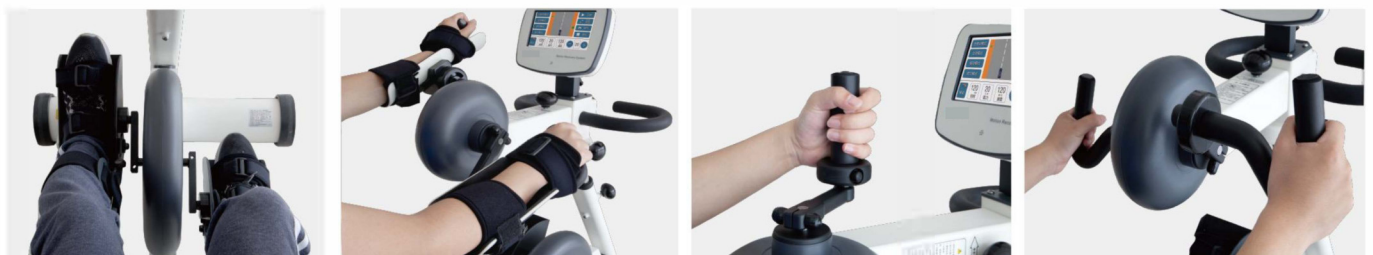
## A product that lasts throughout recovery

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.



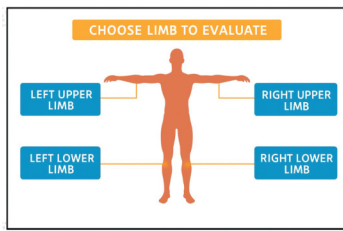
### Medbike 2.0 Set



# EVALUATING, ISOKINETIC SOFTWARE SYSTEMS

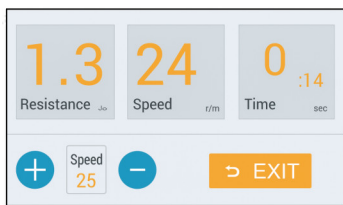
## Innovative breakthrough - smarter and more efficient!

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.



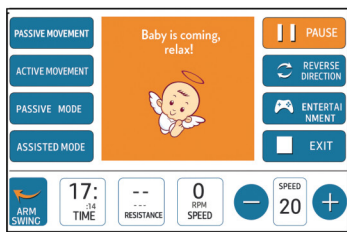
### Integrate multiple assessments into one - subverting traditional usage models

Quantitative standards for recovery progress  
Facilitate better use of data for training settings  
Make rehabilitation training targeted  
Correct use of rehabilitation treadmill



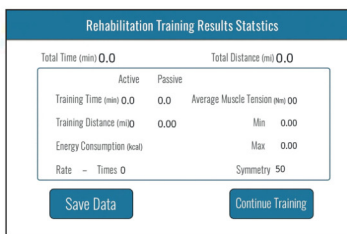
### 5 major training modes

- Passive mode
- Assist mode
- Active and passive mode
- Active mode
- Isokinetic mode



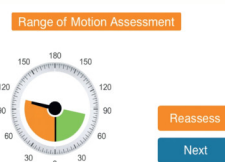
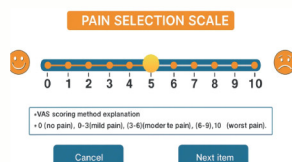
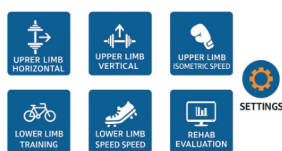
### Spasm protection measures

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



### Patient management system

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



# 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;

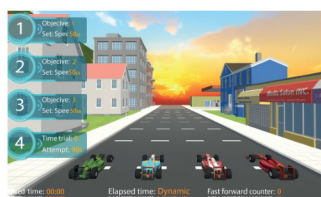
Support patient management, training result storage, training result analysis, and improve the precise application of rehabilitation machines.



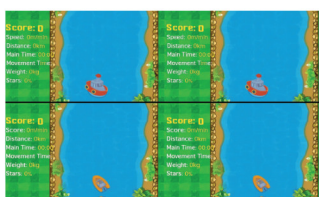
- 1-4 active and passive devices can be connected selectively
- 5 training methods. Multiple scene switching
- multisensory proprioceptive stimulation
- Inspiration, competition, interaction, and positive recovery concepts

No.	Name	Sex
2	Klara	Female
3	Zach	Male
4	Yvonne	Female
6	Jenny	Female
7	Ice	Male
8	Sean	Male
9	Luka	Female
10	Dawn	Female
11	Clementine	Female
12	Windy	Male
14	Bailey	Female

Patient management system



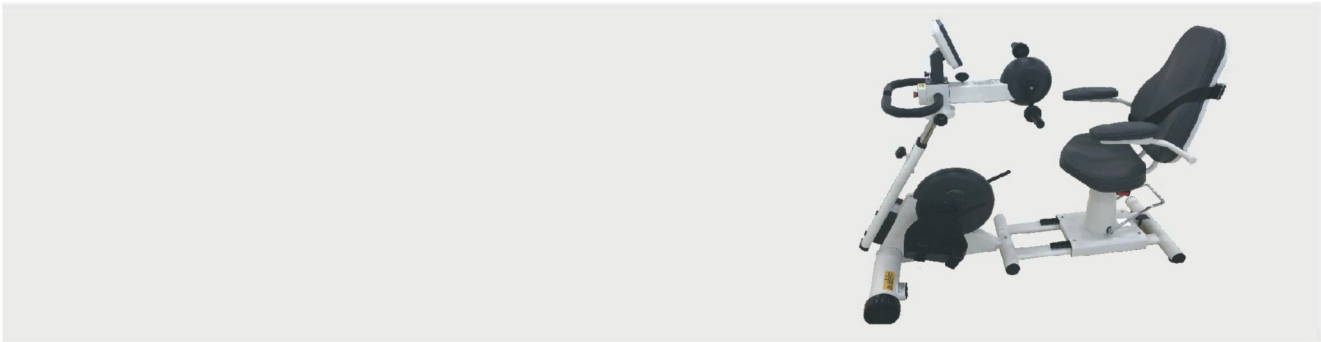
Competing in the same scene



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 rehabilitation 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

**Company:** DKN International bv  
**Headquarter:** Langerode 17 B01, 3460 Assent, Belgium  
**Email:** sales@dkn-technology.com  
**Tel:** +32 013 33 43 99  
**Web:** www.dkn-technology.com



**dkn-technology.com**



**sales@dkn-technology.com**



**+32 52 21 03 15**



**Langerode 17,B1  
3460 Bekkevoort  
Belgium**



**DKN<sup>®</sup>**