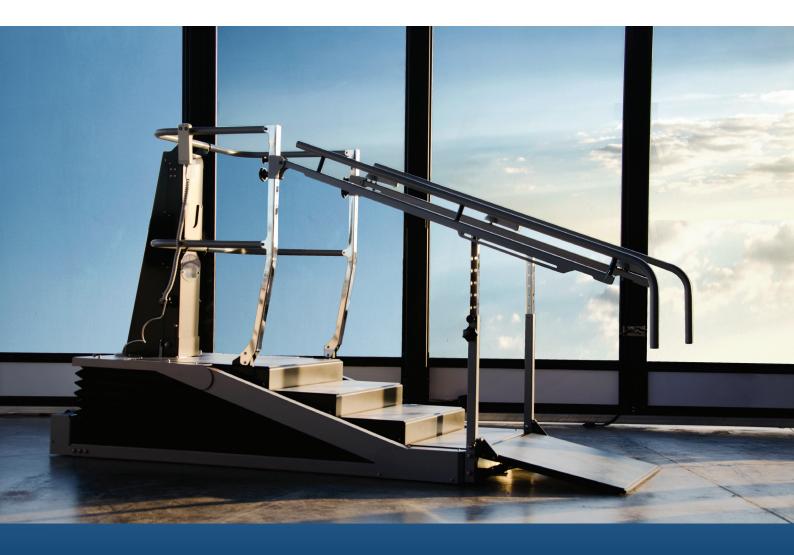


# DST Models

Walking with 30 million patients on the road to recovery since 1997





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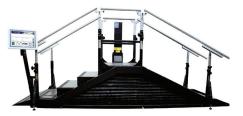


Innovation in Rehabilitation

The DST provides a comprehensive, tailor made gait rehabilitation practice for all three essential functions for patient's mobility - walking, climbing stairs, and negotiating slopes. By a click of a button, stairs' height and slope's degree can be easily adjusted to meet patients' current abilities and needs.







# **Our Models** Stairs, Slope and Parallel-bars

### **DST**8000

- 4 height adjustable stairs, from 0 to 16.5 cm.
- In horizontal position- 1.5 meter parallel bars.





- $\bigcirc$  4 height adjustable stairs, from 0 to 16.5 cm.
- In horizontal position- 1.5 meter parallel bars.
- Computerized to monitor, record, and display patient's performance in past and current treatment sessions.

# DST8000 Triple Pro

- 4 height adjustable stairs, from 0 to 16.5 cm.
- Adjustable slope, from 0 to 26 degrees.
- In horizontal position 3 meters parallel bars.
- Computerized- to monitor, record, and display patient's performance in past and current treatment sessions.

## DST Mini Rehab Center

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The Mini DST is a portable, multi-functional device that enables a wide range of exercises, everywhere. It maximizes the use of small spaces, and provides diverse exercises in patients' rooms, small clinics, etc.

## DST8000 Triple

- 4 height adjustable stairs, from 0 to 16.5 cm.
- Adjustable slope, from 0 to 26 degrees.
- In horizontal position- 3 meters parallel bars.

## **DST** Triple Sense

- 4 height adjustable stairs, from 0 to 16.5 cm.
- Adjustable slope, from 0 to 26 degrees.
- In horizontal position- 3 meters parallel bars.
- Computerized- with full gait analysis on all surfaces, to diagnose, treat, and study patients' ambulatory capabilities.



#### Taking gait analysis a giant step forward

DST Triple Sense combines all three mandatory gait functions - flat-surface walking, climbing stairs and negotiating slopes, with the most advanced gait analysis technology, providing a

comprehensive, evidence-based treatment. It helps diagnose, treat, and study patients' ambulatory capabilities on neurological, orthopedic, and geriatric rehabilitation.



#### Bridging the void between the clinic and the lab

The lack of evidence-based measuring tools makes it difficult to justify treatment to insurance companies. This in turn denies patients from maximizing their rehabilitation potential in minimum time. DST Triple Sense bridges the technology void between the clinical and lab environment. Clinicians can now implement the most effective treatment for each patient based on hard evidence – without consuming precious lab resources such as time, space, and labor.

#### **Optimizing exercises with real-time biofeedback**

Physiotherapists must cope with multiple tasks, keeping patients safe and motivated while maintaining correct posture, motion and more. The DST Triple Sense puts an end to this struggle by employing visual and auditory biofeedback to help patients regain control and stay motivated during the exercise.

For example, a clinician can decide to focus on symmetric weight bearing between the legs, and adjust the acceptable asymmetry threshold (in percentages). When the patient meets the challenge and performs within the thresholds, a positive feedback signal will be heard.

- Diagnose you patients' source of impairment, create an accurate treatment plan, and keep track on their progress – all without leaving the clinic.
- Treat with real-time biofeedback guide and secure patients without worrying about missing compensations or the quality of the exercise.
- Research movement patterns and balance defects with the only device in the world to combine all three gait functions with force plate measurement technology.

- User friendly interface for comprehensive visualizing of patients' current state and progress over time.
- Evidence based treatment recorded data includes CoM, GRF, A/P and R/L weight distribution, and more. Available per step or as exercise average.
- Saving room, time, and money by replacing fixed staircase, slope, parallel bars, and other gait analysis devices.

### DST Triple Sense display

**SENSE** System Patient's name Stair Height: Slope Angle: Anterior/Posterior Weight Distribution 12 cm 19 deg А 1009 **Right Leg** 80% 60% 40% Present information for: 20% Parallel Bars Slop Stairs М 20% 40% Left Leg Present information for practice: 60% 80% Ρ Descend Ascend 100% Time (in sec) **Ground Reaction Force** Central of Mass Average 100 90 80 70 Weight 30 **Right Leg** 48% 70% 20 Left Right Left Leg 10 0 Time (in sec) Step Time per leg (in sec) Feet Angle R/L Weight Distribution Average 8° 21 **Right Leg** Left Leg Gap Left Right 4 2 (R) 2 (R) Gap 21% 2 (R) 2 (R) Left Right 98% 4 3 (R)

#### Measurements

Total length	360 cm/141.7 in
Total width	110 cm/43.3 in

**DST8000 Triple & DST8000 Triple Pro** Parallel bars, Staris, and Slope practice



Stairs practice

Slope practice

Parallel Bars

Computerzied

DST8000 Triple and DST8000 Triple Pro combines three devices in one, including an adjustable staircase for walking up and down steps, a walking surface inclined at different angles, and a full horizontal parallel bar. The unit's sleek versatile design simulates everyday urban terrain- enabling patients to train and practice different slopes, stairs and gaits without changing equipment.



Horizontal position - 3 meters parallel bar



Height adjustable stairs and slope

#### **Empowering Medical Professionals**

DST8000 Triple Pro features friendly software and user interface to manage and monitor treatments. It displays data from previous sessions to enable easy tracking of patient progress. Physiotherapists and medical professionals gain valuable insight using progress charts with segmentation based on age, pathology, treatment duration and more. The collected data can be used to support medical studies, research, as well as boost overall patient and treatment performance.

#### The Pro system documents and displays all treatment sessions:

- Time it takes to walk across parallel bars
- Stairs' height and time it takes to climb
- Slope's degree and time it takes to walk





#### Measurements

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Total length	360 cm / 141.7 in
Total width	110 cm / 43.3 in

#### DST8000 Triple Pro display

**DST**8000 & **DST**8000 Pro

Parallel bars and Staris practice



Stairs practice

#### The Dynamic Stair Trainer

- Provides safe practice and helps patients overcome fear.
- Allows personally tailored rehabilitation program to each patient's unique condition and home environment.
- Enables independent patient practice.
- Increases patients' sense of accomplishment, and creates high motivation.
- Lowers hospitalization and rehabilitation costs and reduces rehabilitation time, owing to faster patient recovery.
- Saves money and space by combining two essential rehab devices in one - staircase and parallel bar.



Computerzied

#### **Personal Progress Chart**

For the first time, stairs-training can be monitored and documented for the benefit of both the patient and the institution. The Computerized DST monitors, tracks and displays patient's performance in all treatment sessions, with a clear, objective and accurate Personal Chart of Progress – generated automatically by the DST-System.

#### **Pro system Features and Benefits**

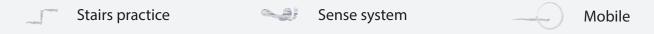
Parallel Bars

- Monitors, records and displays patient's performance in past and current treatment sessions.
- Creates a patient's "DST Factor", a unique parameter conveniently summarizing the patient's current status and estimated potential for future improvement.
- Creates Personal Chart of Progress a clear and objective document for PTs, patients, physicians and insurance providers, to evaluate patient's stairs usage and gait capabilities.
- Recorded data includes treatment dates, height of stairs, and patient's time frames for ascents and descents.

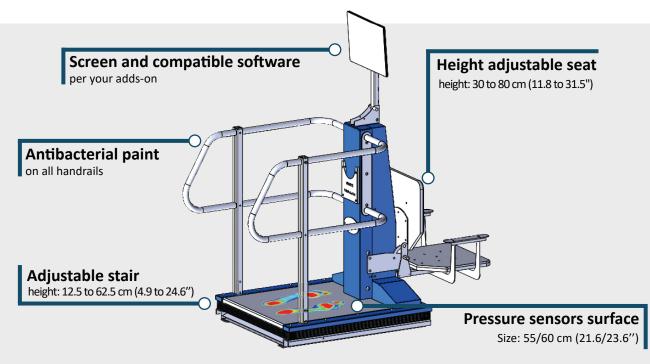


MeasurementsTotal length240 cm/94.4 inTotal width120 cm/47.2 in

# **DST Mini** Rehab Center Portable multi-functional rehabilitation device



The Mini DST is a portable, multi-functional device that enables a wide range of exercises, everywhere. It maximizes the use of small spaces, and provides diverse exercises in patients' rooms, small clinics, etc.

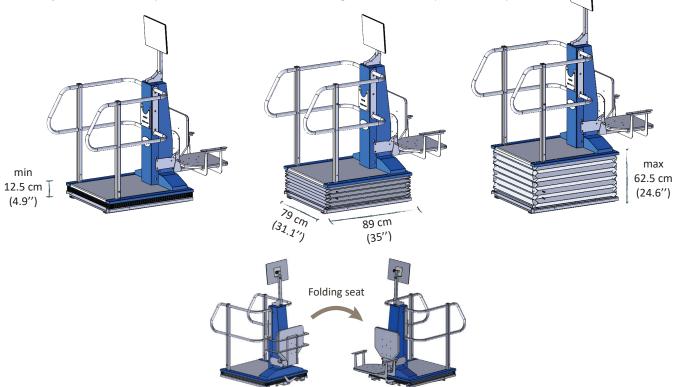


#### Basic

• Adjustable stair, height from 12.5 to 62.5 cm (4.9 to 24.6").

#### Adds-on

- Pressure sensors surface for balance exercises. Comes with a compatible hardware (including embedded computer) and software.
- Adjustable seat to practice sit-to-stand, seat height: 30-80 cm (11.8-31.5").



# **Our** Mission DPE Medical

DPE Medical Ltd. was founded in 1997 by Mr. Daniel Orgal, the chief developer and CEO. Our mission is to take the field of physiotherapy one step forward by inventing full gait rehabilitation equipment to help patients around the world reach independence. Our line of products enables gradual practice on flat surfaces, stairs and slopes, combines with the latest monitoring and gait analysis systems. Most of the company's workers, including the CEO, are disabled individuals who have benefited tremendously from rehabilitation. As past patients, we see the direct and continuous connection with our customers as the key to detect daily rehabilitation challenges, and develop solutions for them. We believe it is through these personal experiences, combined with our innovation, that makes our products so accurate and effective.

# **Our Story** "Necessity is the mother of all inventions"

From 1993 to 1996, Mr. Daniel Orgal underwent extensive physical rehabilitation after being struck down by a virus that attacked his neurological system.

Throughout his rehabilitation process, he discovered that relearning how to climb and descend stairs was a formidable task. In addition, he found that using a conventional staircase puts added pressure on patients who can only raise their legs by one or two centimeters. Mr. Orgal made it his goal to invent the first user-friendly, electronically operated, adjustable staircase capable of meeting all the stairs rehabilitation needs at each of the recovery stages.

Mr. Orgal was fortunate enough to complete the final stages of his recovery on the first prototype of his invention. Today, his personal experience has shaped the company:

"When DPE Medical develops new products, I always remember how it felt to be a helpless patient. This memory drives us to make the utmost effort to deliver products that helps physiotherapists and patients on their road to recovery".





# **Contact us**

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