Medical ltd.

Innovation In Rehabilitation

DST Models

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

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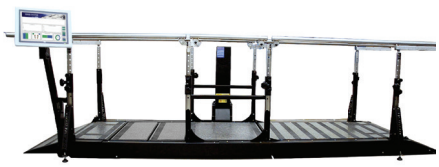
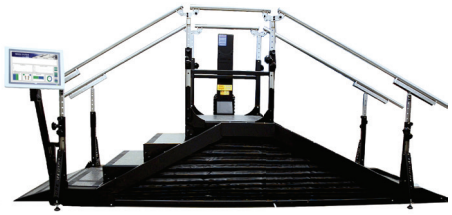
About the DST

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

DST8000

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

DST8000 Pro

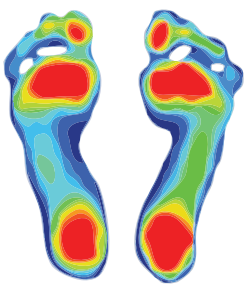
- 4 height adjustable stairs, from 0 to 16.5 cm.
- In horizontal position- 1.5 meter parallel bars.
- Computerized- to monitor, record, and display patient's performance in past and current treatment sessions.

DST8000 Triple

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

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.



GAIT ANALYSIS

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.

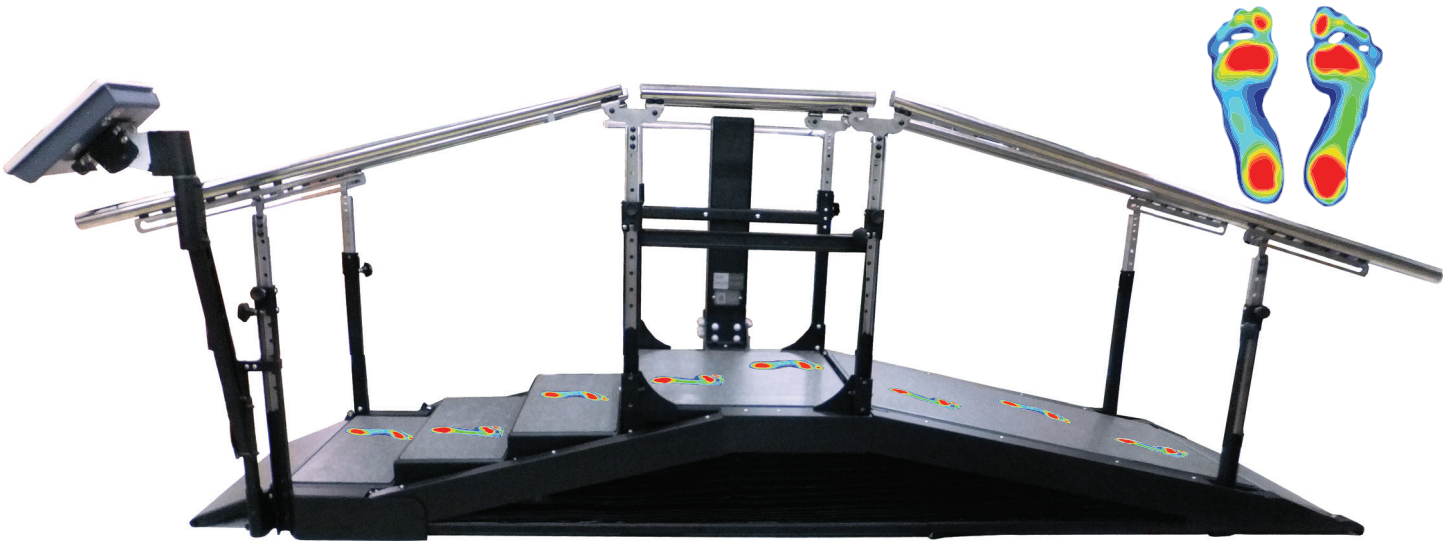
DST Triple Sense

Full gait analysis for full gait rehabilitation

Stairs practice | Slope practice | Parallel Bars | Sense system

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.



Analyzed data includes:

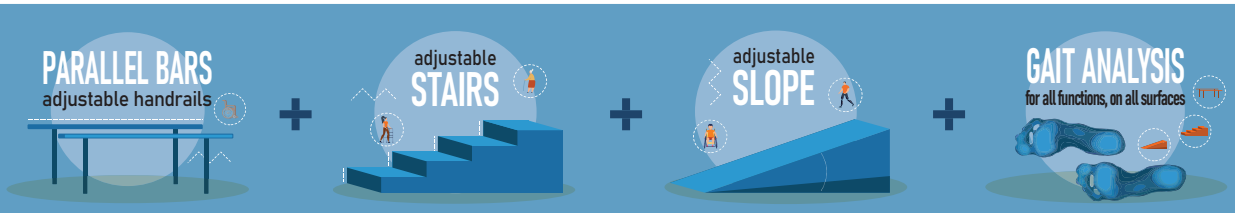
CENTER OF MASS
RIGHT/LEFT FORCE DISTRIBUTION
ANTERIOR/POSTERIOR FORCE DISTRIBUTION

FEET ANGLE
STEP LENGTH
STEP TIME

PARALLEL BARS – 3 METER WALK-TIME
STAIR USAGE - ASCEND/DESCEND HEIGHT AND TIME
SLOPE USAGE - ASCEND/DESCEND DEGREE AND TIME

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.



All features in one device

Features and Benefits

- **Diagnose** you patients' source of impairment, create an accurate treatment plan, and keep track on their progress – all without leaving the clinic.
- **User friendly interface** for comprehensive visualizing of patients' current state and progress over time.
- **Treat** with real-time biofeedback - guide and secure patients without worrying about missing compensations or the quality of the exercise.
- **Evidence based treatment** - recorded data includes CoM, GRF, A/P and R/L weight distribution, and more. Available per step or as exercise average.
- **Research** movement patterns and balance defects with the only device in the world to combine all three gait functions with force plate measurement technology.
- **Saving room, time, and money** by replacing fixed staircase, slope, parallel bars, and other gait analysis devices.

DST TRIPLE SENSE DISPLAY

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.

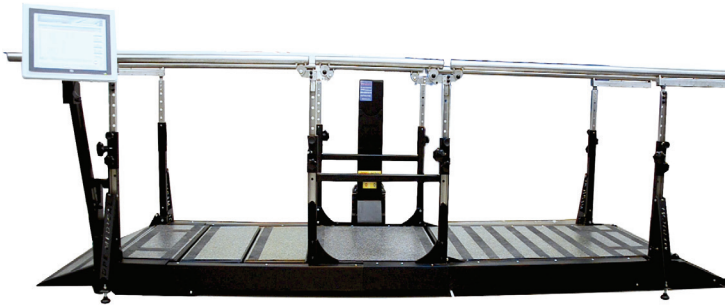
For example, a clinician can decide to focus on symmetric weight bearing between the legs, and adjust the acceptable asymmetry threshold (in percentages). When the patient meets the challenge and performs within the thresholds, a positive feedback signal will be heard.

DST8000 Triple & **DST**8000 Triple Pro

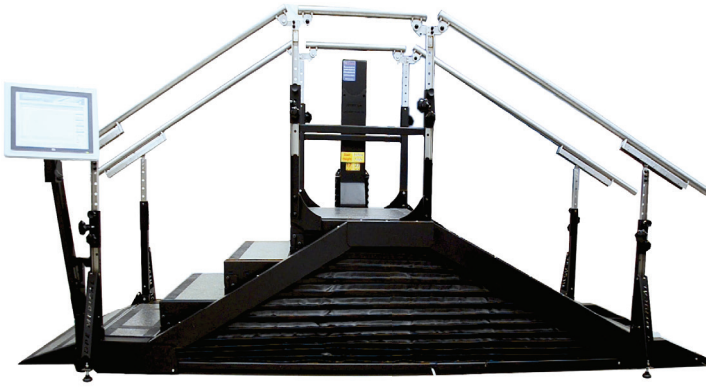
Parallel bars, Staris, and Slope practice

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

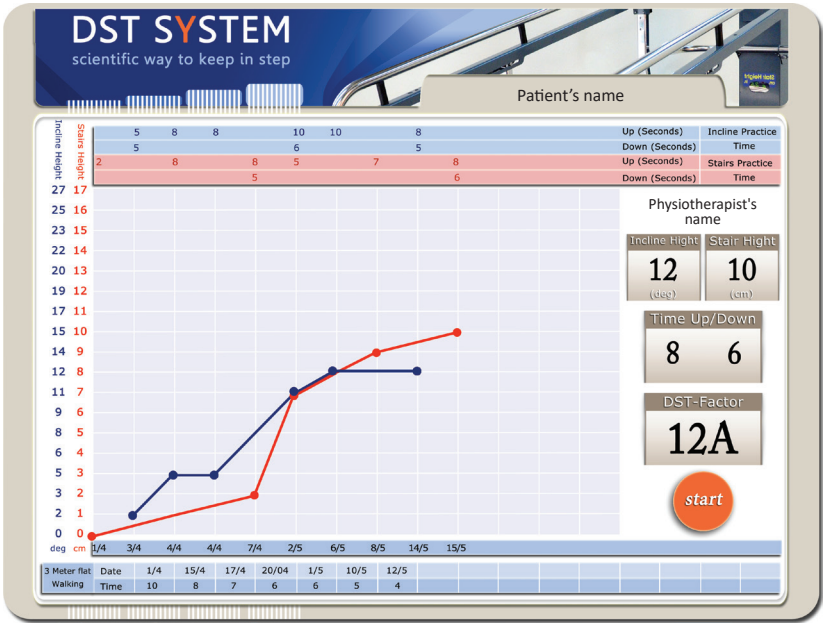
Empowering Medical Professionals

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

DST8000 Triple Pro display



Measurements

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

DST8000 & **DST**8000 Pro

Parallel bars and Staris practice

Stairs practice | Parallel Bars | Computerzied

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.

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

- 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.

Measurements

Total length	240 cm/94.4 in
Total width	120 cm/47.2 in

DSTs Accessories

Adjusting to your patient's needs

WAH - Width Adjustable Handrail

The basic DST comes with two regular handrails. With the WAH you can adjust the width between the handrails to accommodate a variety of patients such as children and seniors.

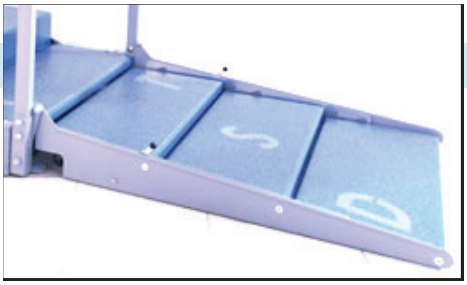
LHR - Long Hand Rails

Long handrails are 35 cm (13.5 in) longer than the basic handrails. It enables every rehabilitation facility to use the DST as parallel bars as well as a stair trainer. Available in fixed width and adjustable width.

RSR - Reversible Stair Ramp

The RSR consists of 3 small stairs (3 cm / 1.2 inches) that can be easily convert to a moderate slope by pulling an handle.

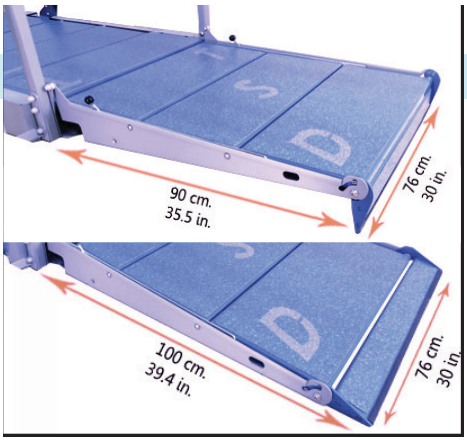
- Helps patients who struggle with the regular slope to access the DST using a moderate slope or small stairs.
- Allows slope practice.
- Adds three additional small stairs to the DST, creating a seven stair flight to practice on.



CSRC - Convertible Stair Ramp Curb

Includes all benefits of the RSR and the following additional features:

- Improves floor-to-ramp transition of patients.
- Enables curb practice.
- In raised position, extends flat walking distance by 30%



Integral Mirror

Located at the far end of the DST, the mirror provides a visual feedback on patients' posture, motion and position while practicing stairs and parallel bars.

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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