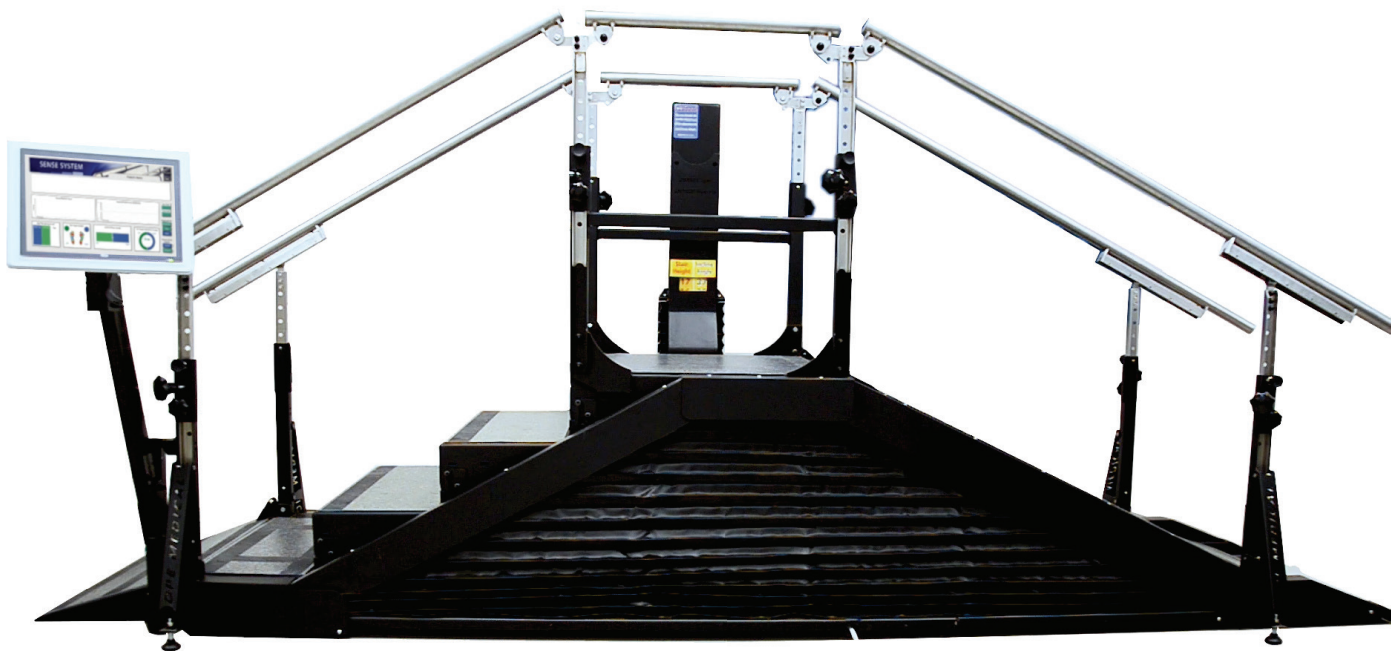


# DST Models

For full gait rehabilitation



**PARALLEL BARS**  
adjustable handrails

adjustable  
**STAIRS**

adjustable  
**SLOPE**

**PRESSURE MAPPING**  
for all functions, on all surfaces



## DST Models

Stairs 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.



## ADVANTAGES

○ Increases patients' sense of accomplishment, and creates high motivation.

○ Provides safe practice and helps patients overcome fear.

○ Allows personally tailored rehabilitation program to each patient's unique condition and home environment.

○ 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.



## DST Triple Models

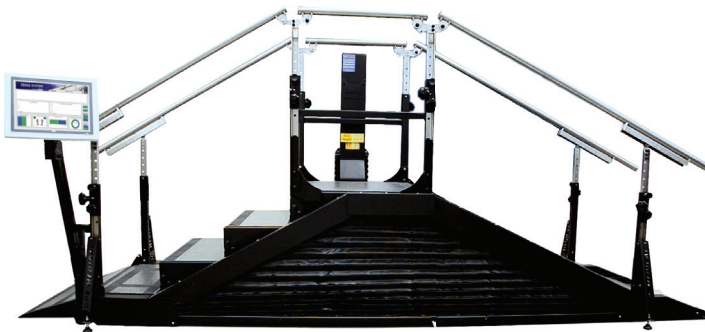
Stairs, Slope, and Parallel-bars



### DST8000 Triple



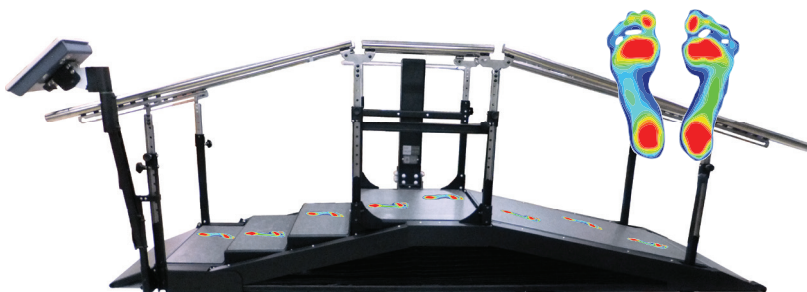
- 4 height adjustable stairs, from 0 to 16.5 cm.
- Adjustable slope, from 0 to 26 degrees.
- In horizontal position - 3 meters parallel bars.



### 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.



### 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.
- Pressure mapping for all functions, to diagnose, treat, and study patients' ambulatory capabilities.

**DST Triple models** 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.

## Taking gait analysis a giant step forward

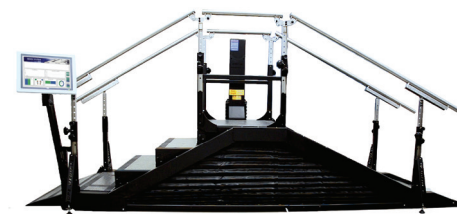
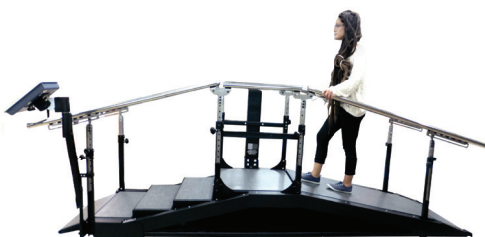
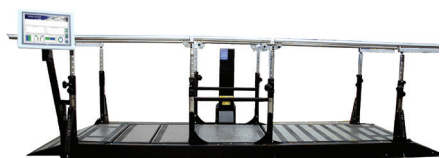
DST Triple Sense combines all three mandatory gait functions - flat-surface walking, climbing stairs and negotiating slopes, with the most advanced pressure mapping technology. The Sense system provides evidence-based treatment, and helps diagnose, treat, and study patients' ambulatory capabilities on neurological, orthopedic, and geriatric rehabilitation.



- Analyzed data includes:**
- Center of Pressure
  - Right/Left force dis'
  - Anterior/Posterior force dis'
  - Feet angle
  - Step length
  - Step time
  - 3 meter walking time
  - Stairs height
  - Slope degree

## Features and Benefits

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

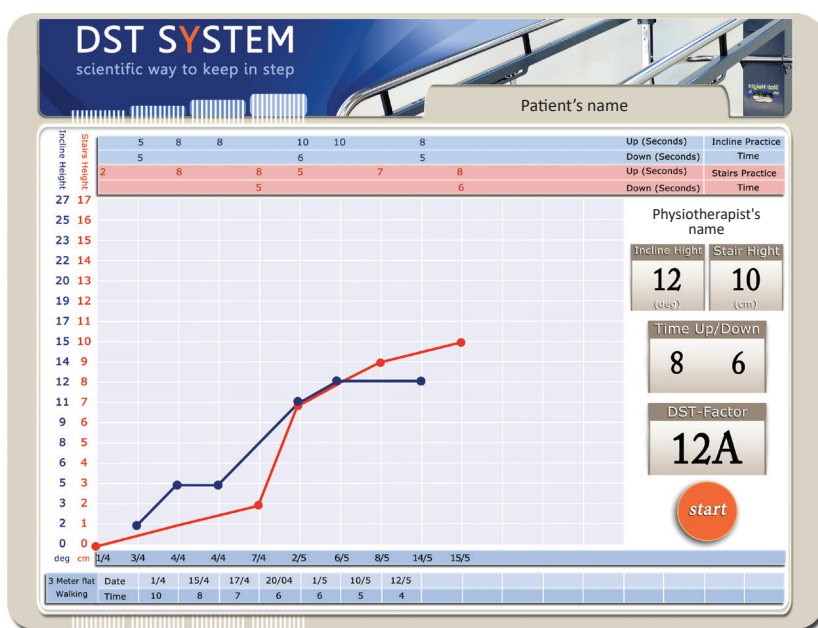


For the first time, stairs and slopes training can be monitored and documented for the benefit of both the patient and the institution. The computerized DST monitors, tracks and displays patient's performance in all treatment sessions, with a clear, objective and accurate Personal Chart of Progress –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

**Our Pro system** 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, and boost overall patient and treatment performance.

*DST8000 Triple Pro display*



## Features and Benefits

- **Monitors, records, and displays** patient's performance in past and current treatment sessions.
- Creates 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 and slope usage and gait capabilities.
- **Recorded data** includes treatment dates, stairs' height, slope degree, and patient's time frames for ascents and descents.

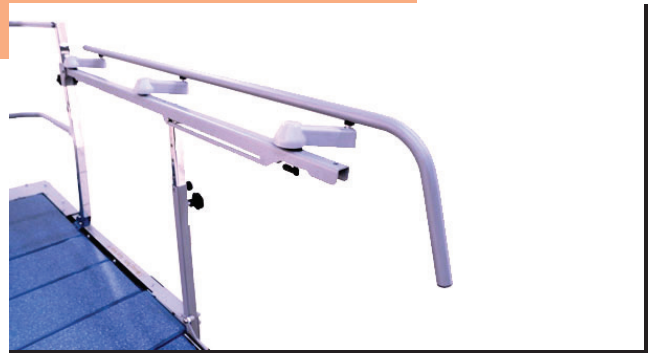


# DSTs Accessories

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 Handrails

**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.**

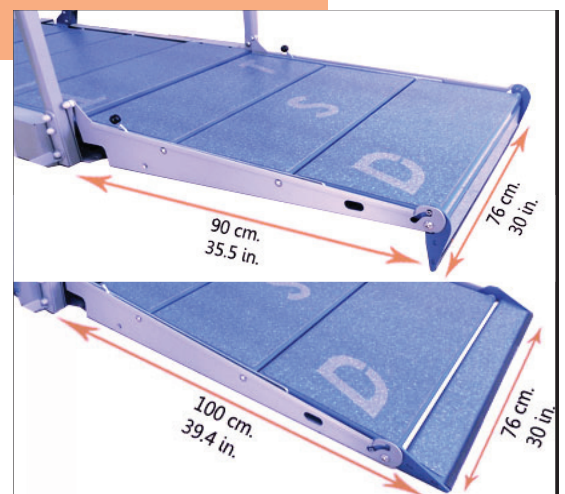
- Helps patients who struggle with the regular slope to access the DST using a moderate slope or small stairs.
- Allows slope practice.
- Adds three additional small stairs to the DST, creating a seven stair flight to practice on.



## CSRC - Convertible Stair Ramp Curb

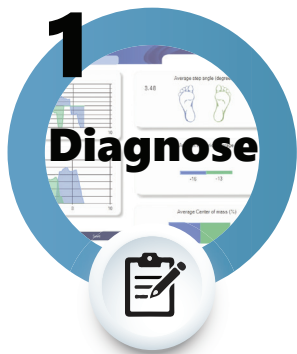
**Includes all benefits of the RSR and the following additional features:**

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



# Sense of Balance

Pressure mapping and balance games



The Sense of Balance is a multi functional device for diagnosing and exercising patients who suffer from lower extremity impairments, balance difficulties, and coordination deficits.

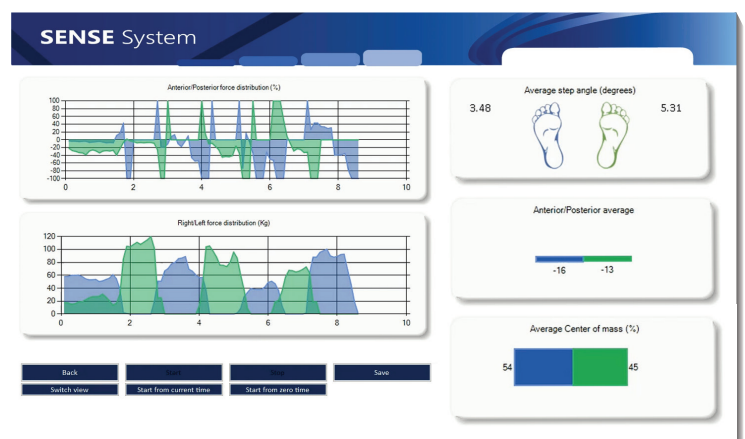
## The device includes:

- Pressure mapping for quiet stance
- 3 games controlled by patients' CoP
- Romberg Test protocols
- 56/63cm pressure sensors mat and 14" tablet

## Diagnose

With over 2900 sensors, you can diagnose patients' lower extremity impairments, balance difficulties, and coordination deficits.

**Analyzed data includes:** A/P and R/L force distribution, Center of Pressure, Feet angle.



## Play

The Sense of Balance turns common therapy exercises into interactive and challenging games, to increase patients' motivation and sense of accomplishment. It combines pressure sensors mat with game app.



# Did you Know?

The importance of stairs and slopes in physical therapy

## THE NEED

Mobility on stairs is crucial for patient's independence and can be found in different ADL tests such as the American FIM test. Inability to negotiate stairs post rehabilitation can create system dependency, greater burden on the caregivers, and higher health costs.

### STROKE

Post stroke patients rated negotiating stairs as one of the most difficult tasks to accomplish.

### HIP SURGERY

Even after a year of PT following total hip surgery, 25% of patients still feared falling in stairs. This was the most highly feared function.

### PARKINSON

Limited ability to climb stairs and balance problems are responsible for 59% of fear of falling with Parkinson patients.

## FALLS

Compared to falls on flat surface, falls on stairs represent a disproportional high risk for death or sever injury. Typical injuries include the head and neck, TBI, and hip fracture. These injuries are known to result in long-term disability and high financial costs.

**70%**

of all falls in the home environment occur on stairs.

**HOME**

**10%**

of all falls among the elderly occur on stairs.

**ELDERLY**

**51%**

of all fall-related Traumatic Brain Injuries of the elderly occur on stairs.

**TBIs**

**10%**

Of all fatal fall accidents occurs on stairs

**FATAL FALLS**

## THE SOLUTION

- Economic evaluations accompanying randomized trials have found exercise to be a cost-effective falls-prevention strategy.
- Particularly effective - multicomponent programs that target both strength and balance.
- **With the DST models you can introduce stair and slope practice at a very early stage of rehabilitation, mitigate fear, and reduce post hospitalization falls.**



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