OCEANIC REHAB 403

Rehabilitation Treadmill (Standard Model)

Product Overview

The Oceanic REHAB 403 is a precision-engineered rehabilitation treadmill designed for slow and controlled gait training.
It combines robust mechanical design with a 7″ touch display and an 8×32 dot-matrix LED speed/time graph for visual feedback.
Ideal for stroke recovery, orthopedic rehabilitation, and neurological therapy centres.

Key Features

- 7″ touch screen for speed, time and distance display
- 8×32 dot-matrix LED graph showing speed vs time trend
- Ultra-low starting speed (0.1 km/h) with 0.1 km/h increments
- Forward & reverse walking for comprehensive gait training
- Adjustable incline (up to 15 %) and optional decline module
- Height-adjustable and width-adjustable side rails for all patients
- Compatible with Oceanic WalkLite™ un-weighing system for body-weight support
- Therapist platform for close supervision and manual assistance
- Emergency stop switch and pulse-based auto-stop feature
- Heavy-duty AC motor with precise speed stability

Technical Specifications

Parameter	Specification
Motor	4 HP AC (Continuous Duty)
Speed Range	0.1 – 10 km/h (0.1 km/h increments)
Incline	Up to 15 % motorized incline
Belt Size	3500 mm × 560 mm
Running Surface	Non-slip rehab grade belt
Frame Section	5″ × 2″ rectangular MS tube
Set-up Dimensions	L 88″ × W 34″ × H 58″
Power Supply	220 V AC, 20 A, 50 Hz
Product Weight	250 kg
Max User Weight	180 kg

Clinical Benefits

- Enables safe early mobility for post-stroke, post-fracture and neurological patients
- Facilitates task-specific training for gait re-education and balance restoration
- Reverse walking enhances muscle coordination and postural control
- Improves endurance and confidence through progressive speed targets
- Integrates with un-weighing system for partial body-weight support therapy

GUI & Safety Highlights

- Simple touch interface for speed and incline control
- Pulse sensor integration for auto stop if heart rate crosses limit
- Visual dot-matrix feedback of session progress
- Programmable speed profiles and protocol storage (12 programs)
- Emergency stop buttons on console and side handles

Optional Add-Ons

- Oceanic WalkLite™ Un-weighing System with Harness
- Extended handrails and parallel bars
- External heart-rate monitor and report printer
- Customized ramp entry modules

ISO 13485:2016

MAKE IN INDIA

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WHY GYM/FITNESS TREADMILL IS NOT ACCEPTABLE IN REHABILITATION CENTRES

FITNESS TREADMILL vs REHABILITATION TREADMILL

Parameter	Fitness Treadmill	Rehabilitation Treadmill
Purpose	Fitness, cardio, weight loss	**Medical rehabilitation & gait recovery**
Target Users	Healthy individuals	**Patients with mobility impairment**
Design Focus	Speed & performance	**Safety, precision & recovery**
Starting Speed	1–2 km/hr	**Ultra-low: 0.1–0.3 km/hr**
Low-Speed Control	Limited accuracy	**Highly stable & precise**
Speed Transitions	Standard	**Very smooth, micro-incremental**
Maximum Speed	High (16–22 km/hr)	**Moderate, therapy-oriented**
Incline Use	Workout intensity	**Therapeutic load progression**
Reverse Walking	Not standard	**Supported for neuro rehab**
Walking Belt	Standard size	**Longer & wider for safety**
Deck Type	Fitness grade	**Shock-absorbing rehab grade**
Entry Height / Access	Normal step-up	**Low entry with step/ramp support**
Handrails	Minimal / front only	**Heavy-duty rails on all sides**
Side Safety Platforms	Limited	**Wide side platforms**
Emergency Stops	Single user stop	**Multiple stops (patient + therapist)**
Fall Protection	Not designed	**Designed to prevent/manage falls**
Body Weight Support	✗Not compatible	**✓Compatible**
Unweighing System	✗	✓
Gait Analysis Support	✗	✓
Sensor Integration	✗	✓ **(load cells, HR, IMU, etc.)**
Heart-Rate Protocols	Basic fitness HR	**Clinical HR-limited protocols**
Therapist Control	Not required	**Dedicated therapist interface**
Protocol Customization	✗	✓
Session Duration	Short/moderate	**Long, repetitive clinical use**
Duty Cycle	Intermittent	**Continuous medical duty**
Motor Control	Fitness open-loop	**Closed-loop, high torque at low speed**
Noise & Vibration	Noticeable at low speed	**Very low**
Asymmetric Gait Handling	Not designed	**Designed for asymmetric gait**
Clinical Applications	✗	✓ **Ortho, Neuro, Cardiac, Geriatric**
Elderly / Post-Surgery Use	Not suitable	**Fully suitable**

Parameter	Fitness Treadmill	Rehabilitation Treadmill
Data Logging	Basic workout data	**Clinical session data**
Fail-Safe & Redundancy	Basic	**Medical-grade multi-layer safety**
Power Failure Response	Abrupt stop possible	**Controlled safe stop**
Regulatory Category	Consumer fitness equipment	**Medical rehabilitation equipment**
Typical Installation	Gym / Home	**Hospital / Rehab / Sports clinic**
Tender Acceptance	Often rejected	**Specifically required**
Overall Role	Improves fitness	**Restores safe walking ability**

A REHABILITATION TREADMILL IS A MEDICAL DEVICE ENGINEERED FOR CONTROLLED, ASSISTED, AND CLINICALLY SUPERVISED RECOVERYWHEREAS A FITNESS TREADMILL IS A CONSUMER WELLNESS PRODUCT

OCEANIC REHAB 403 – Rehabilitation Treadmill