

Rodent Treadmill

USED TO FORCE-TRAIN RODENTS.

Small rodent treadmills are used for forced exercise training and accurate testing of fatigue in mouse and rats. The treadmill is a popular exercise system used to force-train rodents. The apparatus has a simple construction and provides the experimenter the ability to vary the speeds and inclinations of the runway belt. Orchid's Treadmill system utilizes shock grids to motivate the animal to keep running. The same device is suitable for tests on either rats or mice. Orchid's Treadmill is a compact and user-friendly device with a control unit with having 7" touchscreen display. Speed can be selected from 1 to 100m/min, in steps of 1m/min and also has different modes like constant, acceleration, de-acceleration and multistep mode. Orchid's Treadmill also has a shock grid to deliver a mild electric shock, when an aversive stimulus is required. Shock can be preset from 0 to 2.5mA (in 0.1mA steps), with a selectable frequency of 1, 2 or 3 Hz. The running-lane assembly can be manually tilted from -25° to +25°, in 1° inclination. Experiment data can be transferred to the software specially designed for Rodent treadmill with features as experiment title, graphical presentation, and report generation.



Designed To Forced Exercise Training And Accurate Testing Of Fatigue In Mouse And Rats.



-  English
-  Russian
-  Japanese
-  Italian
-  French
-  German
-  Thai
-  Chinese
-  Korean

Multi-Language Touch Screen Display

FEATURES:

- Same unit can be used for six mice or three rats
- 7" touch screen display for easy visibility of all data
- Unit can be run in different speed modes like constant, acceleration, de-acceleration and multistep mode.
- Adjustable uphill or downhill lane slope from -25° to +25°
- Data transfer software for report generation

PARAMETERS TO BE SET:

- Mode- normal/ acceleration/ de-acceleration
- Time
- Cut off time
- Cut off time for shock

PARAMETERS RECORDED:

- Distance travelled ($\pm 4\%$)
- Time taken for 1st shock ($\pm 1\text{sec}$)
- Number of shocks
- Total time spent with shock
- Speed
- Mode
- Total duration
- Duration completed

SYSTEM SPECIFICATION AND MODELS:

Specification	Model
	TRM-01
Lane dimensions	Rat: 3 lanes, 45.5 x 12 x 14cm (excluding grill area, $\pm 1\text{cm}$) Mouse: 6 lanes, 45.5 x 6 x 14cm (excluding grill area, $\pm 1\text{cm}$)
Shock Area	Rat: 11.4 x 12cm, Mouse: 11.4 x 6cm
Shock Grill	Made of 5mm SS Rod with a gap of 5.8 mm
Display	7" Touch screen
Shock Range	Shock range: 0 to 2.5mA in increment of 0.1mA (accuracy $\pm 3\%$), Frequency 1/2/3 Hz
Speed	1 to 100 meter per min with increment of 1m/ min (accuracy $\pm 4\%$)
Material of composition	- 25° to +25° manually, in 1° inclination
Animals to be tested	Mouse, Rat
PC Connectivity	Ethernet

ORDERING INFORMATION:

Model	Overall dimensions (LxWxH) mm	Power requirement	Accessories
TRM-01	<ul style="list-style-type: none">Control Unit: 260 X 430 x 190 mmMain Unit: 600 x 850 x 600 mm	220/230V AC 50/60Hz or 110/120V AC 50/60Hz*	<ul style="list-style-type: none">Control unit with displayMain Unit with beltAcrylic lanes with hinged top lid for each laneWaste collection trayEthernet cableSoftware DVD

*Needs to be specified in the order of information

Optional: Computer and printer to be arranged by user



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