

GT-ROLLER

Q1.1

 **MADE IN JAPAN**
PATENT PENDING.



THE ROAD IS HERE.

3.8"H × 22.8"W × 53.4" (folded 28.7") L Weight : 30.8 lbs

◆ Easier to ride than you can imagine

The smooth, stable feel over a wide range of speeds from super slow to ultrafast makes using these rollers easy even for beginners. Moreover, it is also "extremely stable" when used for race training and offers a riding feel similar to the actual road.

◆ Possible to dance on the pedals out of the saddle and the enjoyment increases the more you use it

The bicycle can be freely manipulated, including dancing out of the saddle, slalom, goal line sprint and downhill position.

The enjoyment increases the more you ride and the more you become accustomed to the feel! You will feel good using these rollers for all of your training.

◆ Can be used to imitate hills and for hill climb training

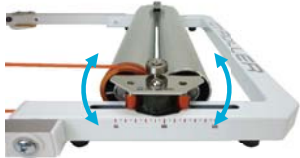
Using the front elevator function, practical hill climb training is possible.

With the optional load unit, extremely steep grades exceeding 10% can be reproduced.

FREEDOM.SYS

The 4-drums, one of the main features of the Q1.1, uses the unique QMC system, which was developed by GROWTAC over a period of 3 years, to eliminate the unstable handling inherent in traditional 3-drum rollers. Control units in both the front and back regulate the bicycle movement to provide an outstanding stable feel.

Front



Rear



The two front drums move up and down in line with the changes in the wheelbase resulting from the forward and back movement that occurs when the handlebars are rotated and on the downward pedal stroke. Keeping the contact pressure on the two drums at a constant level corrects the instability that tends to occur in the handling.

The bicycle moves forward and back in line with the pedaling timing, and a powerful down stroke creates a force that wants to throw the bicycle off of the rollers. The rear control unit slides to absorb this lateral movement and maintain a stable, high-quality riding feel regardless of how hard you press down on the pedals.



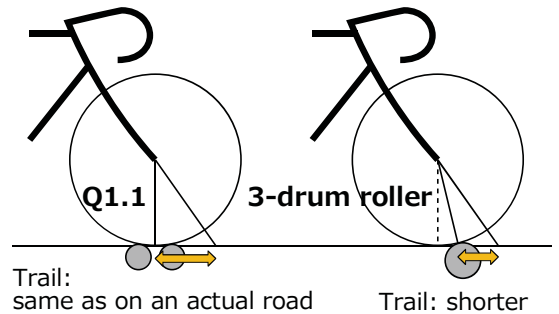
[Handling is affected by the amount of trail]

A long trail increases stability on straightaways, while a short trail makes the handling more responsive. In traditional 3-drum rollers, it is necessary to place the front roller ahead of the front wheel. This reduces the trail, making the handling more responsive and the bicycle harder to balance.

With the FREEDOM.SYS, the front wheel rides on 2 separate drums, which enables the bicycle to have the same trail as on actual roads and thereby realize stable handling.

[Dual front rollers reproduce natural handling]

The front drum in traditional 3-drum rollers contacts the front wheel in-front of center, so while riding, there is force in action trying to pull the front wheel down and off the drum. Then, when the handlebars are turned, both the trail and downward force change, causing erratic handling and making it difficult to balance the bicycle. With the FREEDOM.SYS, the front wheel contacts two drums, thus generating a forward acting force. Also, by controlling the tire contact pressure in real time, natural handling is realized under all conditions.

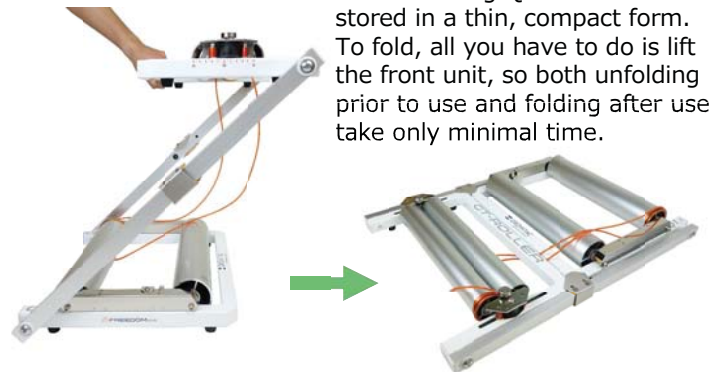


Elevator function



The Q1.1's unique frame design allows the front and back wheel to be placed on different vertical planes. Raising the front wheel makes it possible to ride in a climbing position, and using the load adjustment function, inclines can be realistically recreate

Foldable



The tri-folding Q1.1 can be stored in a thin, compact form. To fold, all you have to do is lift the front unit, so both unfolding prior to use and folding after use take only minimal time.

Electronic load control unit

Equipping the electronic load control unit that generates a strong load of 400W (planned) at 20km/h allows the Q1.1 to be used for low rpm, high load training, and using the elevator function, it is possible to perform practical hill climb training. The wireless remote control can be attached to the handlebars. This allows the controls to be easily operated, making it possible to concentrate on training.

High precision Double "O" Tube

The 4 drums used in the Q1.1 are constructed from 2 concentric pipes connected by 3 ribs. This structure increases the strength while reducing vibrational noise. Also, the individual pipes are designed with thick walls, which give the drums a flywheel effect that offers the feel of riding on an actual road.

