

TRACK CYCLING

STARTING GATE

Automatic starting gate releasing the rider's wheel at the start signal

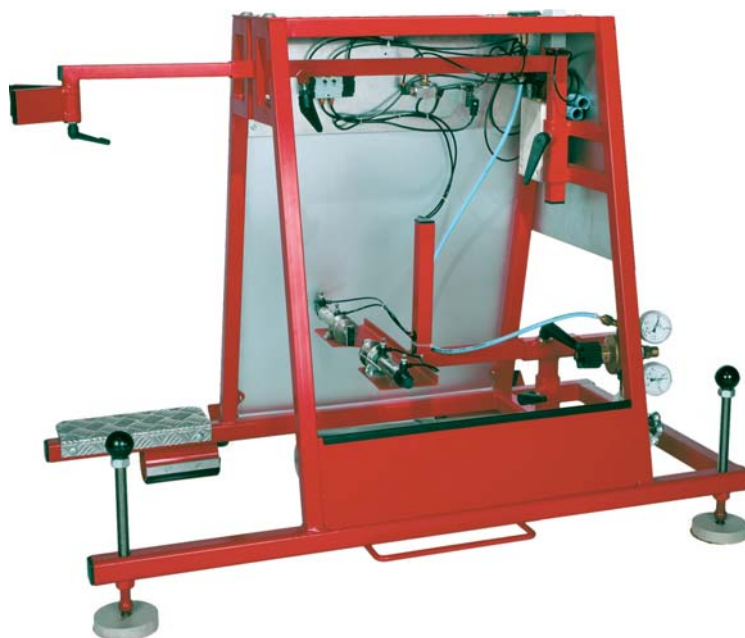
Overview

The STARTING GATE has been designed and developed by SWISS TIMING in collaboration with the UCI (International Cycling Union).

The system is used by SWISS TIMING, and is homologated by the UCI for national and international competitions.

It is used on all cycling events using velodrome halls and on cycling tracks such as Individual and Team Pursuit, 500 meters Time Trial, 1Km Time Trial and Team Sprint.

The STARTING GATE may be used as a stand-alone training unit, where a pushbutton manually triggers the opening and closing of the actuators. When used in a pair, it is linked to the TRACKER pursuit clocks with a dedicated controller, providing a fully automated start sequence, and a perfect synchronisation of the opening of both gates.



STARTING GATE

Top features

A V-shaped support at the level of the seat tube ensures the security and stability of the athlete.



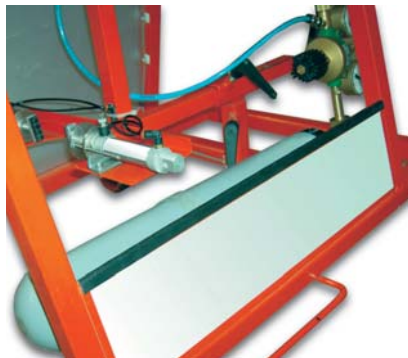
On one side, two rubber bases keep the contact with the track floor when the gate is installed. The bases are complemented by two wheels, allowing for quick and easy removal from the racing track.



On the other side of the starting gate, the two feet are screw-adjustable, allowing on the starting gate on the starting gate to be levelled to suit the angle of any Velodrome tracks at the start line throughout the world.



The stability of the starting gate allows the athlete to await the start signal whilst seated on the cycle, allowing the athlete to concentrate on the race start.



Numerous quick release, adjustable devices allow the starting gate to be quickly adjusted to suit any type and size of bicycle.



Two pneumatic actuators grip the cycle's rear wheel with a pressure of 4.5 to 6 bars. The pneumatic energy is provided by a bottle of gaseous nitrogen at a pressure of 200 bars.



An adjustable pressure reducer provides the service pressure of 4.5 to 6 bars required for the actuators.

STARTING GATE specifications

Article number :	3358.600
Dimensions (LxWxH) :	1110 x 800 x 1000 mm
Weight :	60.2 kg
Service pressure :	4.5 to 6.0 bars
Supply pressure :	200 bars
Working temperature :	0 to +50°C
Storage temperature :	-10 to +35°C
Protection :	IP 51
Certification :	CE and RoHS compliant

Bottles specifications

Recommended gas :	N2 (nitrogen)
Bottle length :	up to 70 cm
Diameter :	up to 15 cm (recommended : 10 cm)
Bottle capacity :	2 to 10 litres (recommended : around 4 liters)
Fill pressure :	200 bars
Hose diameter :	5.5 mm internal / 8 mm external

Notes concerning the bottles

- The choice of nitrogen is recommended for its auto-lubricating and anti-corrosive properties, thus protecting the actuators.
- A bottle of 3.8 liters of N2 loaded at 200 bars and providing a service pressure of 4.5 bars allows more than 1600 start cycles until a bottle refill is required.
- Due to international prescriptions concerning gas bottles transportation, Swiss Timing only delivers empty bottles originating from Switzerland.

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