



Swimming Pool and Flow tank

The facility is a medium size pool for testing performance of small swimming robots. The room is equipped with a tracking system based on the cameras mounted above the swimming pool. Tracking system provides position information of all bright points in the swimming pool area. Swimming tests against water flow can also be done by mounting removable components of the flow tank system, shown in the left photo.

Key Features

- Removable flow tank components for fast switching between infinity swimming and free swimming
- Quick and fast integration of tracking system client code
- Good position accuracy of multiple points in 2D (

Possible Applications

- Testing and position tracking of swimming robots while swimming freely in the pool
- Swimming (and position tracking) against the constant flow of water, i.e. infinity swimming when speed and direction of flow is matched with the ones of the swimming robot



Access information

Corresponding infrastructure	École Polytechnique Fédérale de Lausanne BioRobotics Lab
Location	Route Cantonale, 1015 Lausanne, Switzerland
Unit of access	Working day

Technical specifications

Position accuracy	
Max water flow speed	50cm/s
Flow tank dimensions	400cmx100cmx37cm (LxWxD)
Free swimming dimensions	600cmx200cmx37cm (LxWxD)
Position data protocol	Client server data with timestamps

Additional information

You may contact olexandr.gudozhnik@epfl.ch or alessandro.crespi@epfl.ch for further information.