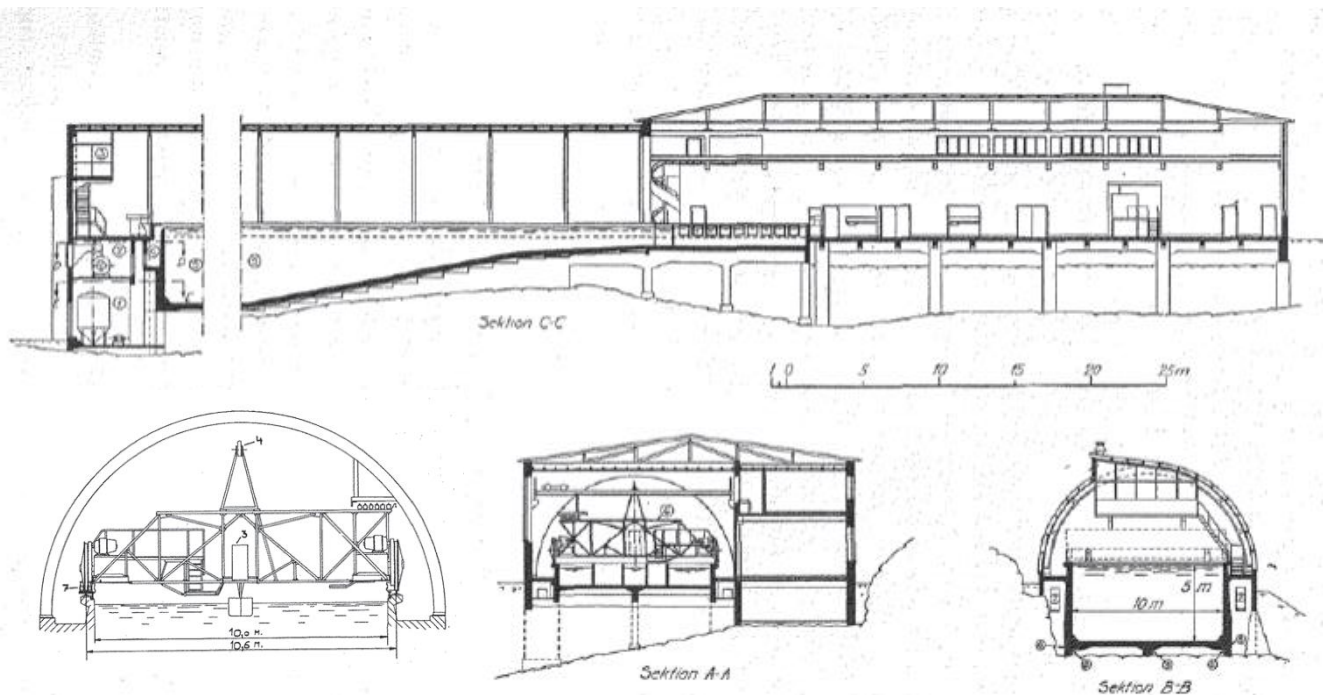


<b>Name of organization</b> SSPA Sweden AB	<b>Year of information updating</b> 2017
<b>Year established</b> 1940	<b>Year of joining the ITTC</b> 1948
<b>Address</b> Chalmers Tvärgata 10, Box 24001, SE-400 22 Gothenburg, Sweden	<b>Status in the ITTC</b> Advisory Council member
<b>Contact details</b> (phone, fax, e-mail) Phone: +46 37 772 90 00 Fax: +46 37 772 91 24 info@sspa.se	<b>Website</b> www.sspa.se
<b>Type of facility</b> Towing Tank	<b>Year constructed/upgraded</b> 1940 / Constantly upgraded
<b>Name of facility</b> SSPA Towing Tank	<b>Location</b> (if different from the above address)
<b>Main characteristics</b> L=260 m, B = 10m, T=5 m	

### Drawings of facility



**TOWING  
TANK**



## Detailed characteristics

### Technical data

Basin	L x B x D	260 x 10 x 5 m
Carriage	Speed	0 - 11 m/sec
	Speed accuracy	$\pm 0.001$ m/sec
Waves	Wave length	$0.4 < \lambda < \text{inf. m}$
	Wave height	$0 < H < 0.3$ m
	Frequencies	$0 < f < 2$ Hz

Wave generation capability: Regular and Irregular waves

Beach type: Concrete beach, ladder type

Model size and range: Ship lengths up to 10 m, Floating structures up to 4 m

### Applications (Tests performed)

The towing tank has many applications, primarily concerning hull and propeller form optimisation for all kinds of ships or energy saving devices with respect to resistance/propulsion.

The tank dimensions and the high carriage speed facilitate the use of large, self-propelled displacement models and testing of high-speed vessels (mono- and multihulls, semi-planing and planing craft, surface effect ships, etc.).

The flap type wave generators provide regular as well as irregular waves for the determination of seakeeping characteristics and ride comfort. By combining the results with a [SEAMAN Simulation](#) behavior in oblique seas can be estimated. Arrangements and techniques for testing submersibles (submarines and other underwater vehicles), sailing yachts etc boats are available, and various unconventional objects can also be investigated.

A database containing over 8,000 ship hull forms provides the basis for result analysis and guidance for hull form optimisation of merchant ships, as well as high-speed and planing crafts. In-house research activities ensure enhanced knowledge and the continuous development of methods within the field of ship hydrodynamics.

### Published description (Publications on this facility)

[www.sspa.se](http://www.sspa.se)