

Voith Hydro Wavegen Limited is a wholly owned subsidiary of Voith Hydro.

## Wave Tank Details



### Multi-Directional Tank

- :: **Size**  
20m long x 6m wide x 1.5m deep
- :: **Wavemakers**  
8 independent piston wavemakers. Each paddle is independently driven by brushless AC servo motor and supplied with force absorption feedback control electronics
- :: **Seas**  
Mixed, short crested
- :: **Spectra**  
Pierson Moskovich, ISSC, Scott Bretschneider, Neumann, Gaussian, Mitsuyasu and JONSWAP

### Instrumentation

- :: Industrial PC
- :: 10 Channel strain gauge amplifier / conditioning unit
- :: 6 Channels of water/wave height probe amplifiers
- :: 2 x Analogue to Digital boards for 64 true differential channels.
- :: Labtech Notebook and Instrunet software for data acquisition.
- :: 6 motion response sensors
- :: 12 x 250N Waterproof load cells
- :: 12 x Linear Displacement Transducers
- :: 2 x 500N Axial Load cells
- :: 2 Tri-axial load cells (500N)
- :: 10 IP68 rated miniature absolute pressure transducers (0-200mbar).
- :: MKS Differential pressure transducers (+/-500 Pa)
- :: MKS Differential pressure transducers (+/-100 torr)
- :: Submersible Bi-axial Load Table, capacity 3kN (subject to detailed model layout)
- :: Model making workshop
- :: Video and stills photographic facilities

### Unidirectional Tank

- :: Maximum depth at paddle 1.2m
- :: 3.7m wide Active paddle - AC servo motor driven
- :: Floor dimensions - 18.3m x 3.7m

Standard Layout - Staged 1:25  
∴ slope, wave absorbent beach and walls

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