

Integration of WJ.

The ASV concept works with all known high efficient propulsion systems i.e. Surface Piercing Propeller, Volvo Penta IPS, Servogear units, Voits Air propeller and Water Jet system.

To integrate a WJ system with the ASV concept has been a great challenge. Early in the process we learned that combining the shape of the WJ pickup, to reduce the total hull resistance, and avoiding pressurized from the air cushion to enter the WJ intake was the two main factors for success.



Picture showing ASV 10m w/RR FF220 WJ

With the first installation (above picture) we experienced several problems as:

- **to high WJ gondola resistance**
- **to much dynamic lift from planning surfaces on forward parts of WJ gondola**
- **depth of WJ installation**

Many rebuilds and several months later, with exquisite help from our partners Rolls Royce KaMeWa and SSPA, we managed to come up with a solution that gave us a good combination between resistance, manoeuvrability and function in all operating conditions as low speed, acceleration, high speed both in calm water and sea state.

