

C-Innovation Chooses Kongsberg AUVs



C-Innovation (C-I), USA, has signed an agreement with Kongsberg Maritime to acquire four new autonomous underwater vehicles (AUVs). The order adds significant AUV capabilities to C-I's remotely operated vehicle (ROV) fleet.

The Kongsberg Maritime AUV delivery includes two [HUGIN AUVs](#) and two [MUNIN AUVs](#). The HUGINs are depth rated to 4,500m and equipped with the latest generation of HISAS 1032, Kongsberg Maritime's Synthetic Aperture Sonar (SAS). They also carry an [EM 2040](#) multibeam echosounder, sub-bottom profiler, colour still image camera and laser profiler. The MUNIN AUVs are rated to 1,500m and equipped with a Kongsberg Maritime EM 2040M multibeam echosounder, sidescan sonar, sub-bottom profiler and colour still image camera.

Subsea Inspection

C-I's new HUGIN and MUNIN AUVs are specially designed for subsea inspection, mapping and pipeline surveys. They feature the most advanced autonomous pipeline tracking software, developed by Kongsberg Maritime, enabling the AUV to track and follow alongside a pipe using either the SAS or sidescan. The vehicles can also fly directly overhead a pipe tracking it with the EM 2040 to collect high resolution bathymetry, photo imagery and a laser profile of the pipe.

The HUGIN includes swappable batteries and removable data storage. The C-I MUNINs have a fast charge system and data download facility designed to maximise productivity and minimise down-time between dives. They are also supplied with the Kongsberg Maritime Reflection AUV post-mission analysis software.

Navigation Post Processing

In-mission supervision including real-time data transmission and position aiding is provided by Kongsberg Maritime's HiPAP acoustic system. The best position solution available is calculated by NavLab navigation post processing software.

C-I offers comprehensive subsea field development services, including front-end engineering, design and installation serving a global customer base. Its ROV capabilities provide a broad spectrum of support to subsea construction projects, as well as drilling, intervention, maintenance and heavy lift assignments.