The ISE HYSUB Remotely Operated Vehicle (ROV) is a **fully customizable work class ROV** which is optimized for your operational profile. Select your payloads, depth, power, and frame size to receive your customized HYSUB in as little as 6 months! Every HYSUB is **designed to last for decades** in harsh conditions and is easy to **modify and upgrade** when new technology becomes available.

**APPLICATIONS**
- Inspection and Intervention
- Construction and Drill Support
- Recovery and Salvage
- Cable and Pipe Burial and Inspection
- Ocean Science and Sampling
- Hydrographic and Site Survey

**INDUSTRIES**
- Environmental Monitoring
- Commercial Offshore
- Oil & Gas
- Mining
- Scientific Research

**PAYLOADS AND TOOLING**

The HYSUB can be equipped with any equipment, payloads, and tools designed for use on an ROV. These include:

- Jetting Skid for trenching and cable burial
- Suction Samplers, Sample Baskets, and Collection Systems
- Core Sampler, Clathrate Sampler
- Ultra HD Camera and Light Systems
- Hydrographic Survey Skid
- Cable and Pipe Tracking, CP, and Survey Skid
- 7 Function Manipulators and 5 Function Grabbers
- Cable, rope, and chain cutters

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FEATURES & CAPABILITIES

These are the features that are built into the HYSUB to ensure our customers achieve great results:

- **Modular, Versatile and Configurable:** Change your tools, cameras, lights, skids and components to suit your operation
- **Upgradability:** Spare I/O channels, mounting locations, and payload capacity for adding and removing equipment
- **Auto-functions:** Station Keeping, Depth, Altitude, Heading, Speed, and Cruise Control
- **Line Follow and Mission Planning:** Use ISE AUV mission planning software to allow your HYSUB to perform tasks autonomously
- **USBL/LBL positioning**
- **LARS, TMS and Winch Options:** Top-hat or Garage TMS. A-Frame, Cursor, or Gantry LARS. Up to 7000m Winch

STANDARD EQUIPMENT

- **Scanning Sonar:** Imagenex 881a*
- **TOGS NAV**: Depths, heading, speed, altitude
- **Cameras:** 1 x 1080p HD Colour Zoom
  - 1 x Low Light
  - 4 x POV SD Colour
- **Lights:** 6 x 6000 Lumen
  - 2 x 18000 Lumen (Optional)*
- **Pan and Tilt:** Electric or Hydraulic
- **Beacons:** MetOcean Novatech RF & Strobe*
- **Wireless Bellypack**

SOFTWARE AND COMPUTERS

- **ISE Automated Control Engine (ACE)** modular, upgradable, field proven, multiplatform software

SPARE CHANNELS, UPGRADES AND ADD-ONS

- **Power:** 24 VDC @150 Wm, 120 VAC @ 2.3 kVA, 240 VAC @ 1.2 kVA
- **Lights:** 2 x 250 W Ports @ Light Junction Can
- **5 x RS232, 3 x RS485/422, 2 x Ethernet, 2 x Spare Fibres**
- **Video:** 2 x SD Channels
- **Navigation:** INS, DVL, USBL & LBL Beacons
- **Payloads and Sensors:** Can accept CTD, Sonars (MBES, SSS, SBP, SAS), Environmental Sensors, and Scientific Payloads

*Others available upon request
** Not including skid
*** Based on selected options and skid

CUSTOMIZATION: set up your ROV to optimize your operations

RUGGED AND RELIABLE: HYSUB has a proven track record of being able to take a beating in real world conditions

SPECIFICATION

ROV PERFORMANCE

- **Depth Ratings:** 100—6000 m
- **Power:** 25—250 hp (19 kW—186 kW)
- **Bollard Pull:** 370 kg (50 hp), 500 kg (100 hp), 1100 kg (150 hp)
- **Surface speed:** up to 1.9 m/s (3.7 kts)
- **Hydraulic Thrusters:** 4 x 12”—19.5” Vertical
- **Through Frame Lift:** 500 kg—1000 kg*
- **Payload:** 100—200 kg*

WEIGHT AND DIMENSIONS

- **Length:** 2.5—3.45 m
- **Width:** 1.0—2.0 m
- **Height:** 1.0—2.3 m**
- **Weight:** 700—5700 kg***

MANIPULATORS AND GRABBERS*

- **Standard:** ISE Magnum 7F and 5F*
- **Optional:** TITAN 4, ORION, Rigmaster, Predator*
- **Multiple mounting locations**

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