

For Sale

Kittredge K-250 1 Person Submersible



General Specifications:

Operational Depth: 250 ft (tested to 300 ft.)

Weight: 2,800 lbs

Crew: 1 Pilot

https://en.wikipedia.org/wiki/K-250_Submarine

History:

This hull was originally built in 1986-1987 based on Kittredge drawings/specifications. Additional side and coning tower viewports were later added. The sub was operational for many years as part of a sub pilot training school as well as personal use by the original owner. I am the second owner.

I purchased the sub in 2012 and immediately started a complete ground up retrofit which concluded in late 2019 (most of the work occurring between 2016-2019).

During the retrofit many improvements were made to the hull including the replacement of some hull plating (belly of cylinder) and the reinforcement of the stiffening rings due to some corrosion issues. Additional penetrators were added as well as removable penetrator plates for easier future configuration changes (no welding). Additional reinforcement struts were added to the forward and aft ballast tanks for greater structural strength. Several existing penetrators were replaced with new. Oxygen and HP air tanks were added/relocated to the exterior. A variable ballast system using configurable floats was also added. All other systems were completely modernized using current technologies.

Summary:

This K-250 package is as close to a “turn key” package as I have ever seen being offered. It will never be newer than now! If you want to get diving quickly with confidence this might be the sub for you. Some misc. spare parts, a support gantry crane (lifts sub on/off trailer) and the custom refurbished trailer are all included. Hundreds of photographs and material purchase receipts to be included which document the refurbishing process. A highly detailed itemized Excel weight spreadsheet has been kept and will be included. The sub was refurbished with future maintenance considerations (easy disassembly).

Future Potential Needs:

- **Thruster Upgrade (All Parts Included)**
- **Underwater Comms**
 - **The Required SubConn Thru Hull Connectors are Installed**

Since the refurbishment the sub has successfully had its initial shallow water system trials (fall 2020). A video of this activity can be viewed at:

<https://www.youtube.com/watch?v=3u1O-fSKLYc>

A witnessed unmanned depth test to approx. 300 ft. was completed without issues (8/2021).

A video of this activity can be viewed at:

<https://www.youtube.com/watch?v=MlrT3IBVtzQ&t=14s>

What You Get:

Sub and Trailer (Clear Titles, the sub and trailer are currently registered in the state of Indiana)

Portable Gantry System

Misc. Spares

Documentation Package (photos/receipts/equipment manuals/Excel weight spreadsheet)

Submersible Highlights

No Rust, Garage Stored

Refurbished Hull

- Additional Viewports (not std. on typical K-250): Conning Tower (3) and Hull Sides (2)
- Removable Penetrator Plates (2 aft, 1 fwd.)
- Cylinder Hull "Belly" Plate Replaced (48" x 36")
 - Note: Representative Original Welds Were Ground Into and Visually Inspected and Found to be Full Penetration Welds (QA check)
- All Stiffening Rings Reinforced
- Professionally Sandblasted, Primed, and Painted (2017)
 - Sherwin Williams
 - Macropoxy Primer (interior/exterior)
 - Macropoxy High Solids Polyurethane (exterior)
 - Enamel Top Coat (interior)
- Fwd./Aft Ballast Tanks Structural Reinforcements Added
- New Mechanical Penetrators (ballast vent valves, drop weight, aft thruster steering, emergency buoy)
- Automatic Over Pressurization Valve
- External Variable Float Ballast System
 - Approx. 90 lbs. of Variability
- Bolt on Aluminum Skids

Emergency Drop Weight System

- 135 lbs.

All New Acrylic Viewports & Dome (mfg. 2015, installed 2019)

- Temp. Controlled Storage Until Installed
- Approx. 8 Hours of Outdoor/UV Exposure

2 Hatches

- Hard w/ Viewport
- Acrylic Dome (24" dia., 1 ¼" thick O-ring sealed, removable)

3 Fwd/Rev Variable Speed Thrusters (older MotorGuide units)

- 1 Aft w/Remote Electric Linear Actuator Steerage Control and RAI
- 2 Side w/ Locking Rotational Capability
- 3 Replacement Minn Kota Riptide (Salt Water Rated) 55lb Thrusters and Motor Controllers (Still in The Boxes, new in 2020) For Future Thruster Upgrade

Remote Control Thruster Pendant

- Independent Thruster Control
- Aft Thruster Position Actuator Control w/ Rudder Angle Indicator
- Reaches Throughout Sub

3000 PSI External HP Air Tanks

- 2 Steel 80 cu ft Scuba (new 2019)
- Protective Side Mount Enclosures

HP Air Distribution Manifold w/ Pressure Gauge

- Associated Valves

External O2 Tanks w/Pressure Gauge

- 1 Aluminum 60 cu ft (new 2017, never filled)
- External First Stage Regulator w/ Pressure Gauge (no HP O2 in cabin)
- Protective Aft Mount Enclosure

Supply/Spare O2 Tanks

- 1 40 cu. ft. Steel Commercial Tank (spare)

Drive Pediatric Adjustable O2 Regulator w/ Pressure Gauge (O2 cabin feed)

Internal Batteries (12 V DC)

- 2 x 200 Ah AGM (new 2020)

New Electrical Distribution System

- 300 A Main System Breaker
- 60 A x3 Thruster Breakers
- Battery Select Switch (batteries are in a 2 bank configuration)
- 8 Mid/Low Current Circuit Breakers
- Built In Charging Port

Instrumentation

- Analog Cabin Pressure
- Digital Depth Sounder
- Digital Depth Gauge (battery operated)
- Digital O2 Level Meters x2 (battery operated)
 - with calibration gas
- Digital CO2/Temp/Humidity meter (logs data) (battery operated)
- Digital Volt/Amp meter
- Cabin Fan (battery operated)

Built In Emergency Breathing System (BIBS)

- First/Second Stage Regulator

CO2 Scrubber System

Cabin Fan (battery operated)

Conning Tower Snorkel Valve

Forward External LED light (Pronk design)

Full Interior Red LED Lighting

Emergency Buoy

- 300ft #36 line

Removable Padded Floor System

External Decking (stepping pads)

Swing Seat (dome hatch position)

Fire Extinguisher

External LED Strobe (battery operated)

External Forward Mounting Science/Instrumentation Rack System

Protective Dome and Forward Viewport Covers

Trailer

No Rust, Garage Stored

Custom Tandem Axle (Built approx.1987, previous owner rebuilt around 2009, approx. 1,200 lbs.)

Sandblasted/Painted (2014)

New Tires (2014)

- Less Than 2K miles

New Rear Axle (2020)

- Kept Old Axle w/ New Bearings as Spare

Electronic Brake Control Unit (New 2020, For Tow Vehicle If Needed)

Emergency Break Away Kit (2020)

All New Bearings and Bearing Buddies (2020)

New Boat Winch (2014)

New Fenders (2014)

New Tongue Mounted Jack Stand w/ Wheel (2014)

New Running/Brake Lights/Wiring (2014)

Loading Guides (assists with centering the skids onto trailer during loading) (2020)

2 Tie Down Straps

Extension System (2014)

- Stores on Trailer
- Extends 26 ft.

Portable Gantry System

No Rust, Garage Stored (lightly used)

Northern Tool 3000 lb Adjustable Gantry Crane (2013)

2 Ton Chain Lift

2 Rated Lifting Straps

Package Price:

\$35,000.00

Project Photos:

Sub/Trailer/System Photos Can Be Viewed At:

<https://drive.google.com/drive/folders/13EXn7jvG9v7r6apFeTYiMvP51gMO67i?usp=sharing>

Disclaimer:

While I am attempting to be as transparent as possible regarding the condition of the sub and it's systems there may be issues I do not have knowledge of.

No warranties or guarantees are implied by this advertisement for sale. All items are being sold "as is".

Purchase will require a signed release of liability waiver.

I can be reached by text or voice: 317-847-0380, or by email @ psub101@gmail.com