

LEAD-LINE SPECIFICATIONS

Description:

The lead Line is a device used for measuring the depth of the water as well as obtaining a sample of the ocean floor, is one of the oldest of all navigating tools. A lead line is usually used in shallow areas. Lead lines were ropes or lines, with graduated depth-markings and a lead weight attached to the end. Sounding line is also called "Lead line".

Uses:

Lead lines are to be used in situations where use of electronic sounding would be impractical, impossible, or give faulty results. Lead line sounding is especially suited for underwater investigation of rock or concrete placement; on the slopes of jetties, groins, and revetments; and near bulkhead construction. In such areas, echo sounding may be inaccurate or contaminated with noise from side echoes. Lead lines are to be used in conjunction with acoustic or nuclear density techniques to corroborate echo soundings. Also, for silty bottoms containing "fluff" that would give questionable echo sounding readings, a lead line may be required in a construction contract.



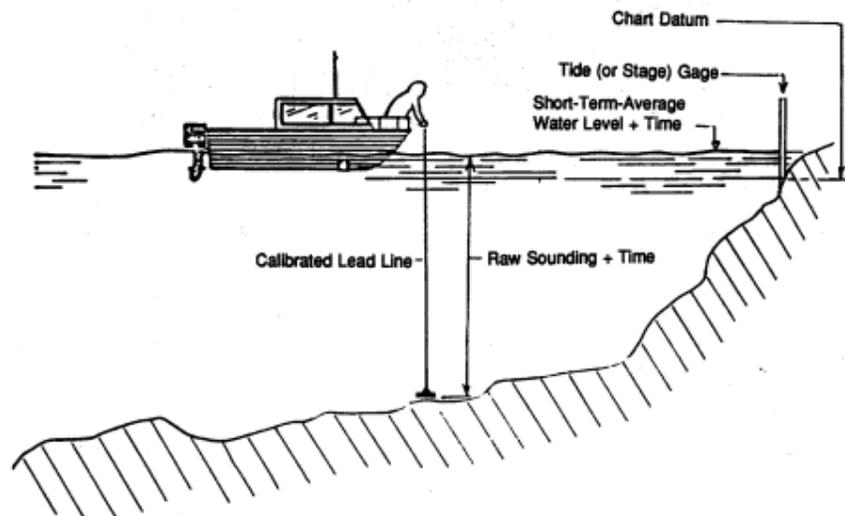
Item No.: Description

Total weight	: 7.5kgs (including chain)
Weight of sounding lead	: 3.0kgs
Weight of chain	: 4.5kgs
Length of the chain	: 20 m
Suitable for use in flowing water	: yes
Operation	: manually
Usable in situations where the depth of water shallow:	yes

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Operation:

A lead line or a sounding line is usually a length of a cord with a sounding lead attached to the end. Due to prolonged use, a line of hemp or cotton is liable to get stretched. To graduate such a line, it is necessary to stretch it thoroughly when wet before it is graduated. The line should be kept dry when not in use. It should be soaked in water for about one hour before it is used for taking soundings. The length of the line should be tested frequently with a tape. For regular sounding, a chain of iron is preferred. Lead lines are usually used for depths over about 6 meters. Sounding lead is a weight (made of lead) attached to the line. The weight should be somewhat streamlined and should have an eye at the top for attaching the cord. It often has cup-shaped cavity at the bottom so that it may be armed with land or tallow to pick up samples from the bottom. Where the bottom surface is soft, lead filled pipe with a board at the top is used with the lead weight. The weight penetrates in the mud and stops where the board strikes the mud surface.



Lead-line depth measurement