

Depth Integrating Sediment Sampler (Suspended Type)

SEDIMENT SAMPLING

General Description

DH59 is an easy-to-use **medium-weight suspended sediment sampler**.

The sampler consists of an **epoxy coated, streamlined bronze casting** weighing approx. 10 kg, which partially encloses the sample container. It is equipped with a tail vane assembly to orient the intake nozzle into the approaching flow as the sampler enters the water. With the instrument oriented into the direction of flow (nozzle horizontal and pointed upstream) a **continuous stream filament is discharged into the sample bottle** during the period of submergence.

The axis of the sample container is inclined at an angle to the vertical which permits **sampling to within 90 mm of the stream bed**.

The sample container is sealed against a gasket in the head cavity of the casting by pressure applied to the base of the bottle by a hand-operated spring-tensioned pull-rod assembly at the tail of the sampler. Suspended sediment samples are discharged into the bottle containers. The air in the bottle is discharged through an air exhaust tube in the body casting. This tube is protected by a streamlined projection alongside the head of the sampler.



Technical Specifications

Type	Suspended sampler using a winch, depth integrating
Material	Epoxy coated cast, marine bronze body
Net Weight	10 kg (22 lb)
Length	380 mm
Scope of Delivery	<ul style="list-style-type: none"> ■ Sampler with three nozzles: 3.2, 4.8 and 6.3 mm diameter ■ Sampler bottle: see flipside (additional bottles available as spare parts) ■ Carry case
Packing Details	16 kg, 0.01 m ³

Accessories



Sampler bottle DH4805:

0.5 litres, nylon, screw cap for DH48, DH59 and D49 units



Winches (WS500, WS400, WS250) and Winch Board (SAN22SS):

HyQuest Solutions' stream gauging winches are hand-operated single drum winches capable of handling Columbus gauging weights up to 45 kg using a winch board (e.g. SAN22SS) or bridge crane (e.g. 3WBC or 4WBC). The winches are designed for ease of operation and serviceability in the field: compact, portable, light-weight, and handled easily and safely by one person.



Bridge Cranes 4WBC and 3WBC:

HyQuest Solutions' bridge cranes are collapsible units for discharge measurement or for sediment sampling from bridges. The cranes are made from structural aluminium and stainless steel.



The bridge cranes are simple to put up and fold down into a compact sized package for transport. Two models are available:

- 4WBC: 4 wheels, used for weights and sediment samplers up to 70 kg
- 3WBC: 3 wheels, light-weight, used for weights and sediment samplers up to 45 kg

Please ask for details.

HyQuest Solutions' Sediment Sampling Product Portfolio

You can choose from a vast selection of manually or winch-deployed depth-integrating sediment samplers, bedload samplers, rising stage samplers, and their accessories. HyQuest Solutions samplers are based on designs developed by the United States Federal Inter-Agency Sedimentation Project. Please contact us for advice!

Reseller

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