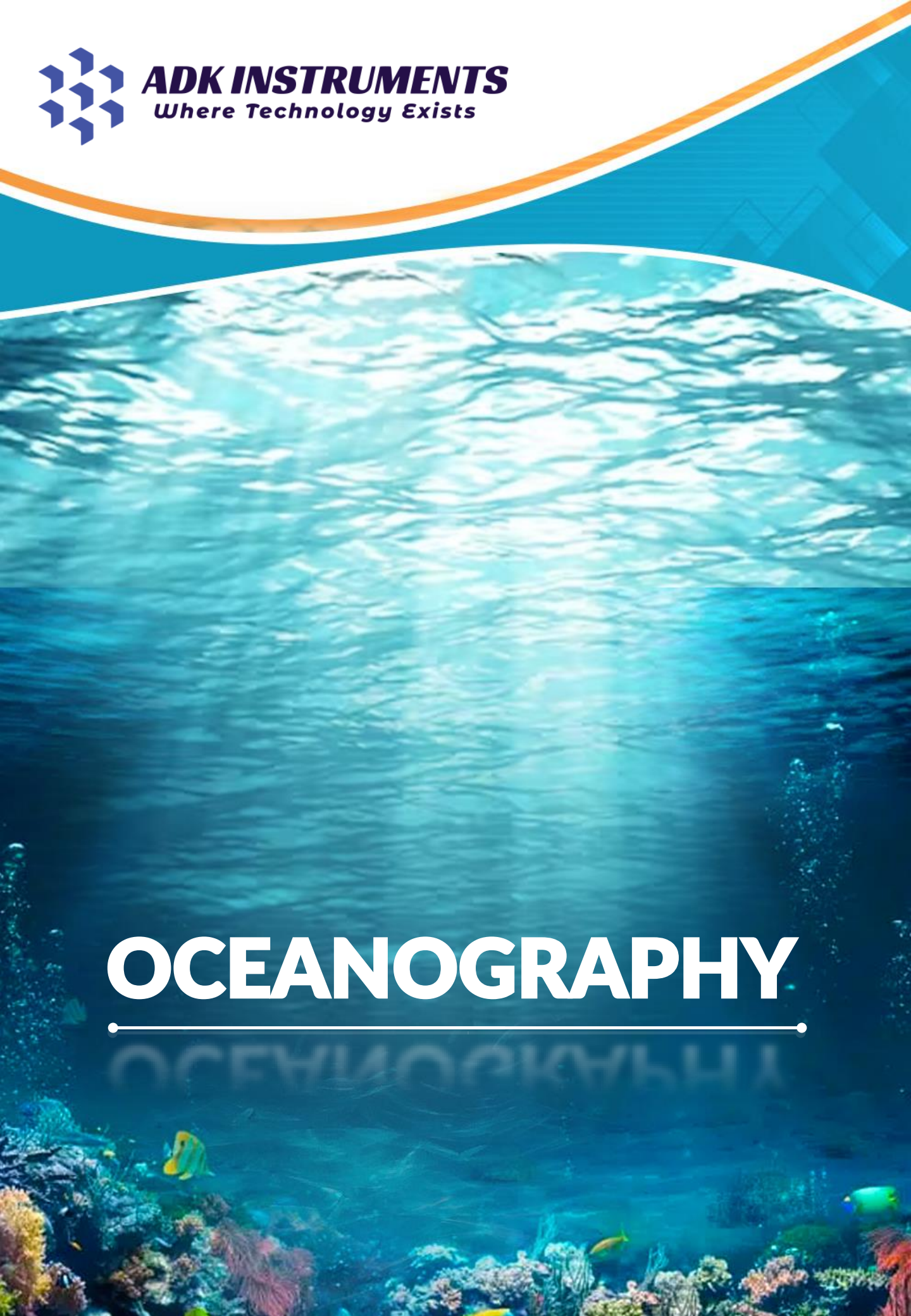
ADK INSTRUMENTS
Where Technology Exists



OCEANOGRAPHY

ADK INSTRUMENTS
Where Technology Exists

Setting Standards, Today And Tomorrow

We set new principles in client experience and aim to create future-ready products. We take great pride in our products, that reek of quality, and our industry-best personalized services.

We, at ADK Instruments, work on the most important things that an industrial enterprise needs, which include Industrial Measurement Tools. Our tools are designed with utmost precision, and are tested under rigorous conditions, in order to provide a one-stop, fuss-free solution to all our dear patrons.

All our products are meticulously crafted and manufactured, and that personal touch ensures that you never have to worry about the instrumental needs in your work domain.

ALL CATEGORIES

Air quality

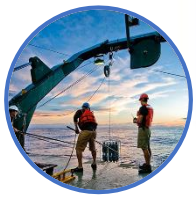
Water Quality

Measuring Devices

Hydrology

Meteorology

Waste Water


Oceanography

Rugged Systems

Constructional Tools

Modems/Routers

Laboratory Technology

Personal Tracking

HIGH VALUES

Our Success is not only due to the quality of our work. It’s down to attitude, our approach and the way we treat our clients.

Focus

We Have A 100% Commitment To Making All Our Sites The Best They Can Possible Be, No Matter What It Takes To Get There.

Passion

Our Desire To Produce Good Work Runs Deep- That's What Lets Us Handle Every Project With Fresh Energy And Enthusiasm.

⇆ Empathy

Our Desire To Produce Good Work Runs Deep- That's What Lets Us Handle Every Project With Fresh Energy And Enthusiasm.

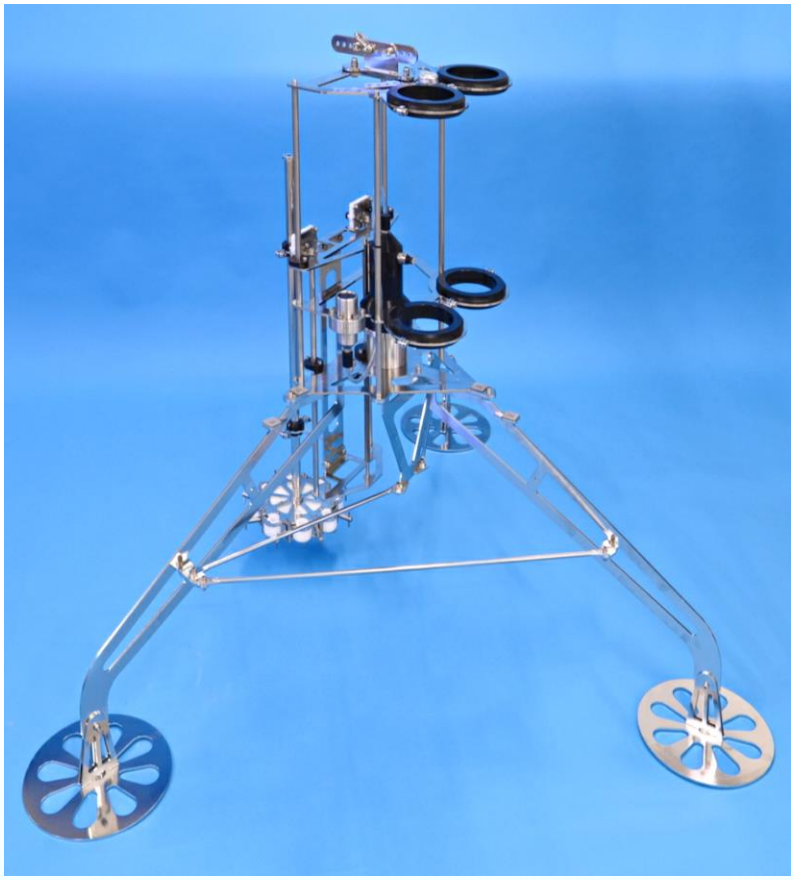
AUTONOMUS BENTHIC LANDER

1D PROFILER SYSTEM

Description

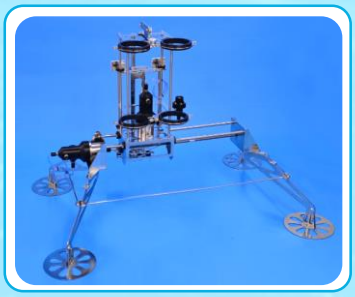
1D profiler system for shallow water micro profiling studies. The Mini Profiler MP8 is a portable 8-channel system for shallow water field measurements of micro profiles of for example O2, pH, H2S, N2O, H2, redox and resistivity. The profiler can be submerged to a depth of 300 m and runs completely autonomously.

The profiler can be adapted to a deep sea profiler rated to 6000 m depth to be handled by an ROV. Furthermore, the number of channels can be increased to 8, battery time can extended, and the motor system can be upgraded from the standard 1D profiling to a 2D profiling system. The Field DataLogger platform allows for communication and synchronization of data from multiple external devices including optodes, CTD's, ligth sensor and more. Combined with the wide selection of sensors and electrodes from Unisense you can build a system for your specific research needs or adapt the system as your research evolves.



Specifications
Rack made from AISI 316 stainless steel
Programmable movement in vertical direction
Resolution: 0,05 mm (0,025 mm on request)
1 motor having a separate unit for pressure balancing
Completely automated profiling measurements of up to 4 analytes
Shallow water deployment down to 300 m depth
Unisense In Situ Amplifier and Connector System for easy handling
Powerful Unisense Field DataLogger
Robust and accurate motor system for 1D profiling
Workshop and training at Unisense
Dimensions, footprint: L x W x H: 135 x 135 x 135 cm
Height: 105 cm

Related Divides

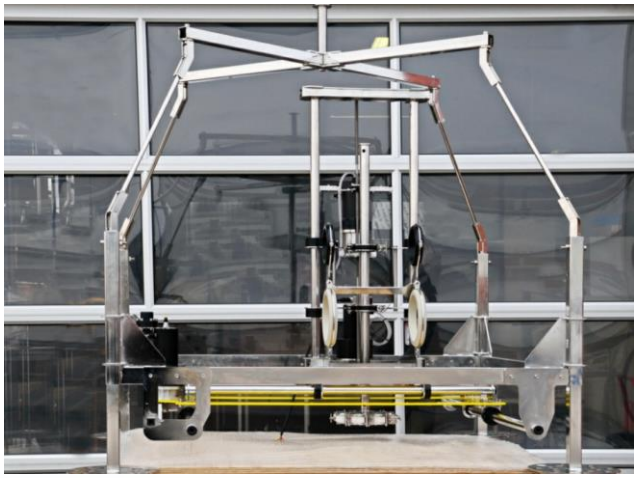


2D Profiler System MP8

3D PROFILER SYSTEM

Description

3D profiler system for shallow water microprofiling studies. The 3D profiler is a system for deep sea water field measurements of microprofiles of for example O2, pH, H2S, N2O, H2,. The profiler can be submerged to a depth of 6000 m and runs completely autonomously.



Specifications
Rack made from AISI 316 stainless steel
Programmable movement in three axis
Resolution: 0,05 mm (0,025 mm on request)
3 motors having separate units for pressure balancing
Water deployment down to 6000 m dept
Powerful Unisense Field DataLogger
Workshop and training at Unisense
Robust and accurate motor systems for 3D profiling
Powerful Unisense Field DataLogger

CUSTOM MADE LANDER

Description

ANTENNA

Manufactured from 2 meter Ø28 mm stainless steel tube, mounted on a floatation rack with 3 pcs of powerful springs, manufactured from AISI 316 stainless steel 316. 2 pcs/each
Safety bolt
For antenna 2 pcs /each
Flash holder
Complete, manufactured from green polyethylene (PE - HD).

BALLAST SYSTEM

3 pcs manufactured from aluminium, I.D. Ø26 cm.
4 pcs bracket and 4 pcs acrylic tube for protect ballast chain.
4 pcs adjustable holder for acoustic release transponder made of stainless steel 316 and Polypropylene Plastic.

LOWER FRAME

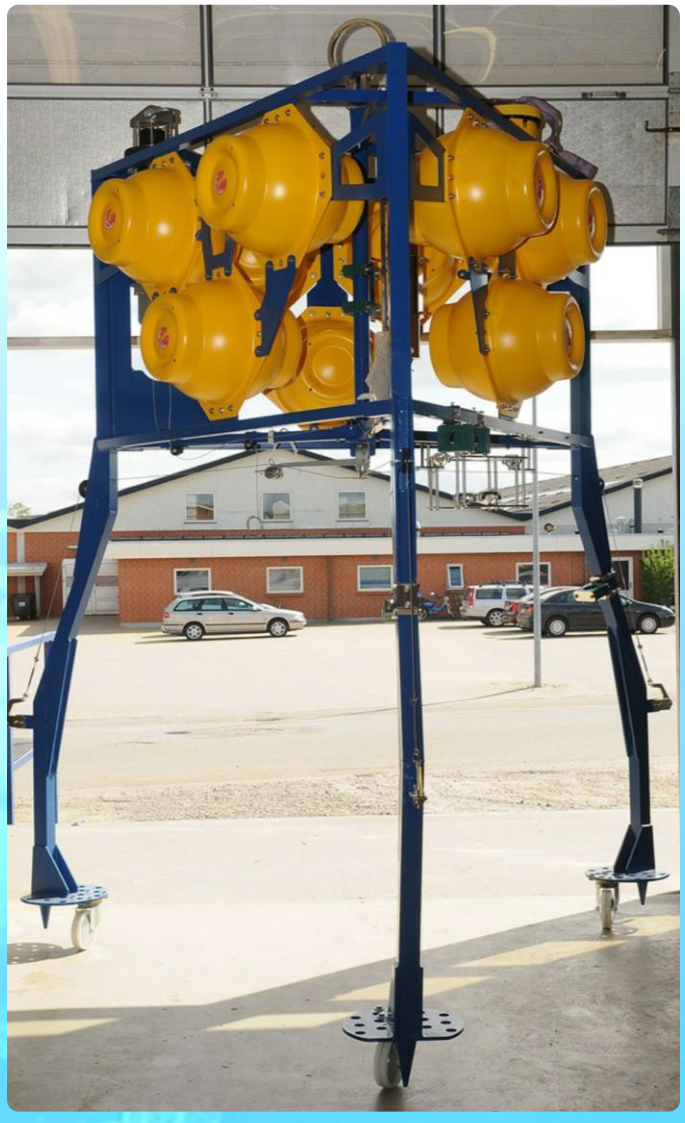
Manufactured from aluminium tube 50 x 50 x 4 mm with 4 adjustable legs and prepared for burn wire release system.

CATCH RING

Ø50 cm diameter, manufactured from AISI 316 stainless steel, mounted on the floatation rack.
17" glass spheres (floatation) with yellow hard hats PE-HD, buoyancy app. 25 kg for every sphere.

BURN WIRE RELEASE SYSTEM

Manufactured from laser cut AISI 316 stainless steel and holder for acoustic release transponder.

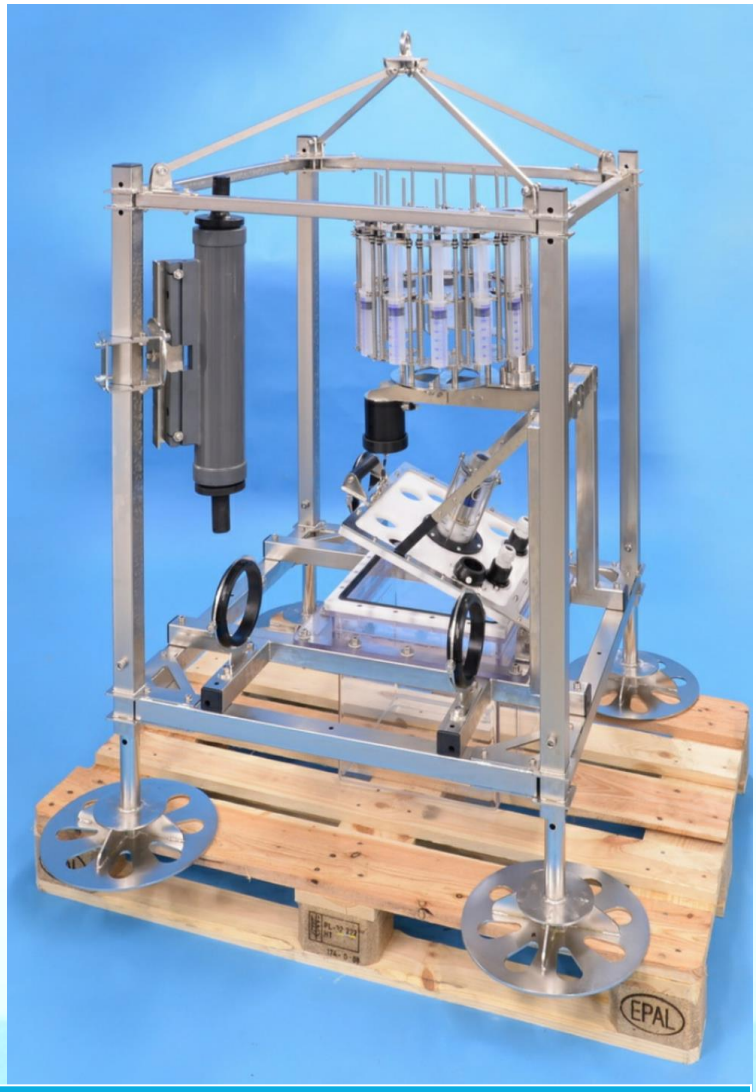


SQUARE LANDER

Description

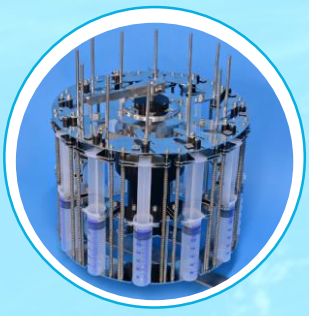
Lander frame with a benthic chamber and various water samplers.

Small and compact lander rack made of AISI 316 stainless steel tube 40 x 40 x 2 mm with 4 adjustable legs. The standard rack can be configured with different items and accessories. This model does not have a buoyancy system, thus it must be deployed by a cable.



Specifications	*Description*
Multi water sampler:	Multi water sampler (AISI 316 stainless steel) with 12 pcs syringes, (50 ml) made of nylon (PA 6.6). A time lapsed trigger allows individual programming of each sample.
Niskin water sampler:	Niskin water sampler 1,7 L; the sampler is stepless adjustable from horizontal up to vertical position. It is released with a burn wire system.
Benthic chamber with stirrer:	Manufactured from Polycarbonate, dimension 300 x 300 x 350 mm. The chamber has a flat bottom and the POM frame is mounted on the Polycarbonate chamber. The chamber has 16 powerful neodymium magnets for keeping the lid closed. The lid supports 8 pcs of sensors (Aanderaa or Unisense). At the middle, a pressure compensated motor ensures a steady stirring in the chamber. The lid is closed using a 24 V electromagnetic system. The lid has a manifold for connecting the multi water sampler.
Dimensions:	L x W x H: 106 x 106 x 146 cm. L x W x H, no feet and lifting point: 80 x 80 x 118 cm. Weight: 87 kg.

Related Divides



Multi water sample

Niskin water sample

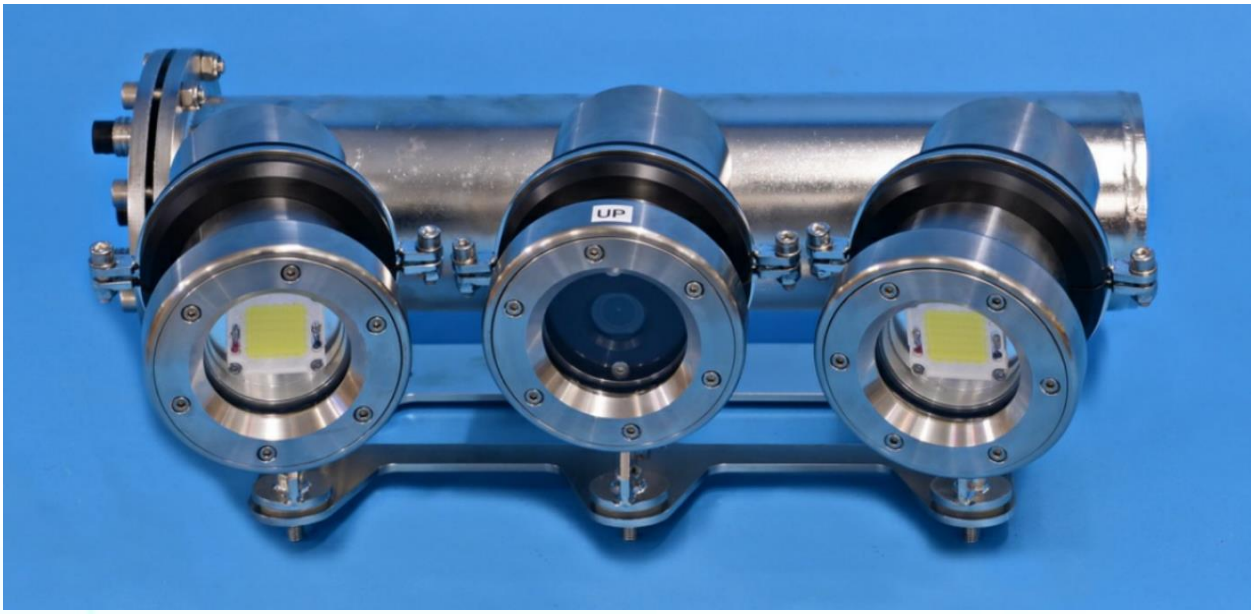
Benthic chamber with stirrer

CAMERA AND LIGHT

CAMERA AND LIGHT OPTION FOR 500M

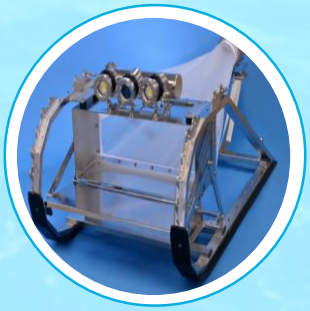
Description

Mounting brackets can be offered for various types of oceanographic equipment.



Specifications	*Description*	
Camera	EIS	Electronic image stabilization
	Housing	AISI 316 stainless steel
	Subconn connector	MCBH8MSS
	Resolution	12 MP
	Field of view (FOV)	145°
	Weight,	4,10 kg
	Length	19,5 cm excl. Subconn connectors
	Diameter02	Ø10,5 cm
Light	Housing	AISI 316 stainless steel
	Subconn connector:	MCBH2MSS
	LED chip	50 W

Related Divides



EPIBENTHIC SLEDGE WITH CAMERA OPTION

CURRENT MEASUREMENT METER

FST HEMISPHERES

Description

The hemisphere method describes near-bottom flow conditions in watercourse. The method is based on a simple concept:

The weight of a hemisphere exposed to a flow is moved by a given current from a reform plate. The set of hemispheres consists of 21 identical hemispheres with different specific gravity.

Modern conservation of running water and restoration of nature aims at natural variation of the physical environment of running water, considering channel form, as well as discharge and bottom space sediment. This complicates the use of traditional methods of measuring flow for example propeller instruments, well-known to be unreliable for measuring current in weeded running water or near the bottom of the stream.

Specifications	*Description*
Material	Pressure molded polycarbonate thickness 2,5 mm
Calibration	No. 1 - 21 star metal with screwed and glued bottom plate
Tolerance	Specific gravity better than 1%
Capsuling	Hermetically welded in plastic
Baseplate	PVC with ballast inlay (lead) and inlayed tube level for correct horizontal positioning
Surface	Sprayer sealed (Algae-fusing surface)
Transportation	Alloy transport box with plastic insert
Current Velocity	0 - 4 m/sec
Temperature	-10° to 40°C (Storing: -20° to +50°C)
Maintenance	None or simply wipe off

DIGITAL FLOW METER WITH BACK RUN STOP

Description

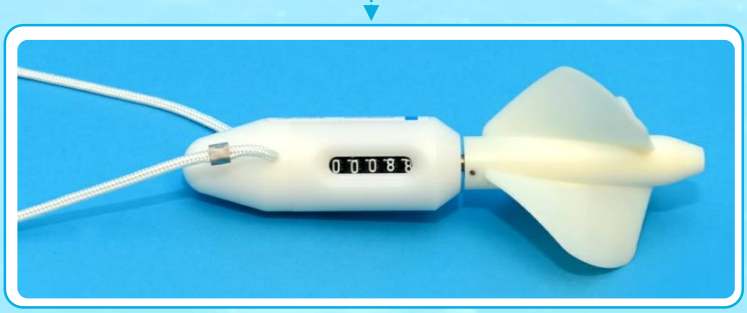
Digital flow meter without back run stop is designed for determining the amount of water passing through a plankton net or a pipe with a known diameter.

The flow meter is recommended for a horizontal tow of the plankton net. If lowered in a vertical position, the flow meter counts on its way down as well as when drawn back through the water column, thus causing an improper read-out. For a vertical pull you can use digital flow meter, which comes with the back-run stop feature.

Diameter of propeller/counter body: 70/32 mm, length 185 mm, 5-digit counter; easy installation by a two-wire point connection of the nosepiece. The construction is based on a free flooding design, so it can be used for full (unlimited) oceanographic depth. 23.090 - Digital flow meter.23.090 - Digital flow meter. Mounting of the flow meter (the net bag to the right).Mounting of the flow meter (the net bag to the right).

Specifications	*Description*
General	
Flow meter	Recommended for horizontal pull
Material	
	Polyamide, PA 6.6 Nylon rotor
Nose cone	POM Plastic
Body	POM Plastic
Gear shaft	Armaloyed stainless steel main rotor and idle gear shaft
Dimension	
Overall length	19, 0 cm
Standard rotor diameter	7, 5 cm
Other data	
Depth rating	Unlimited (Free floating)
Data read out	Five ten-digit counter wheels reading 00000 to 99999. One count per rotor revolution
Counter	99999 counts, equal approx. 16, 2 nautical miles. The counter can be reset to “0”.
Mounting	Universal bridle allowing two point connection

Related Divides



DIGITAL FLOW METER WITHOUT BACK RUN STOP

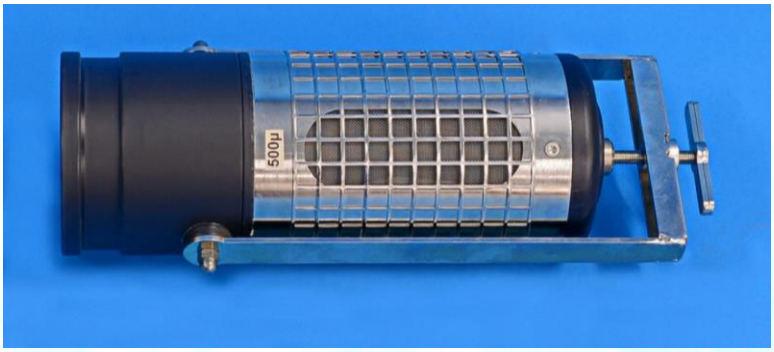
PLANKTON NET Ø50 CM

PLANKTON NETS

Description

The upper part of the net is made of strong Beaver nylon. Standard mounting with 3 pcs. of polyester line Ø5 mm. with bridles, length 80 cm.

The conical net bag with an upper diameter of 50 cm and a length of 200 cm is made of Monodur Nytal (Nylon) 50 to 500 µm or 20 to 40 µm.
The sample can be removed through a valve at the bottom of the sample cylinder.



Specifications	*Description*
Outer diameter	Outer diameter. 50 cm
Length of net	200 cm
Mesh size	50 - 500 µm, 20-40 µm
Net bucket	
	Sample cylinder made of POM and AISI 316 stainless steel
	It has 3 windows, slightly offset, so you can easily pour out the content
	Overall length: 285 mm
	Outer diameter of tube: 80 mm
Details	Solid fastenings for the lines, using bridles and ring made from AISI 316 stainless steel
	Solid hems and reinforcements

Related Divides

RING TRAWL NET
Ø100 CM

SMALL PLANKTON NET
Ø25 CM

PLANKTON NETS IN
VARIOUS MESH SIZE

WP 2 NET Ø57/70/75 CM

Description

The WP-2 plankton net can be equipped with a digital flow meter (optional) for determining the amount of water passing through the plankton net.

Specifications	*Description*
Collecting bottle closed	Dimensions: Ø160 x 275 mm (295 mm incl. brackets)
Adapter for plastic bottle	Support for 1 and 2 L plastic bottles
	Incl. 1 pc of 1 L bottle
	Requires a set of nylon lines
	Made of AISI 316 stainless steel and Polypropylene
Nansen releaser	AISI 316 stainless steel
	Weight, inclusive drop messenger: 3,35 kg
	Overall dimension (inclusive bolts): 240 x 105 x 50 mm

Related Divides

WP 3 NET Ø113 CM

BONGO NET 2 X Ø30 CM

BONGO NET 2 X Ø60 CM

NET FOR COLLECTING JELLYFISHES

DREDGES

AGASSIZ TRAWL 300 X 80CM

Description

The Agassiz trawl is used to collect organisms, particularly invertebrates, living on the ocean bottom.

Specifications	*Description*
Opening	300 x 80 cm with chains on all sides
600 cm	600 cm
Manufactured from	AISI 316 stainless steel tubes, 40 x 40 x 4 mm
Finish	Electro polish. On request, a painted version can be provided
Steel wire, diameter 10 mm	Steel wire, diameter 10 mm
Steel wire	Diameter 10 mm
Length, incl. bridle	11 m approx.
Weight	115 kg

EPIBENTHIC SLEDGE 80 X 30CM

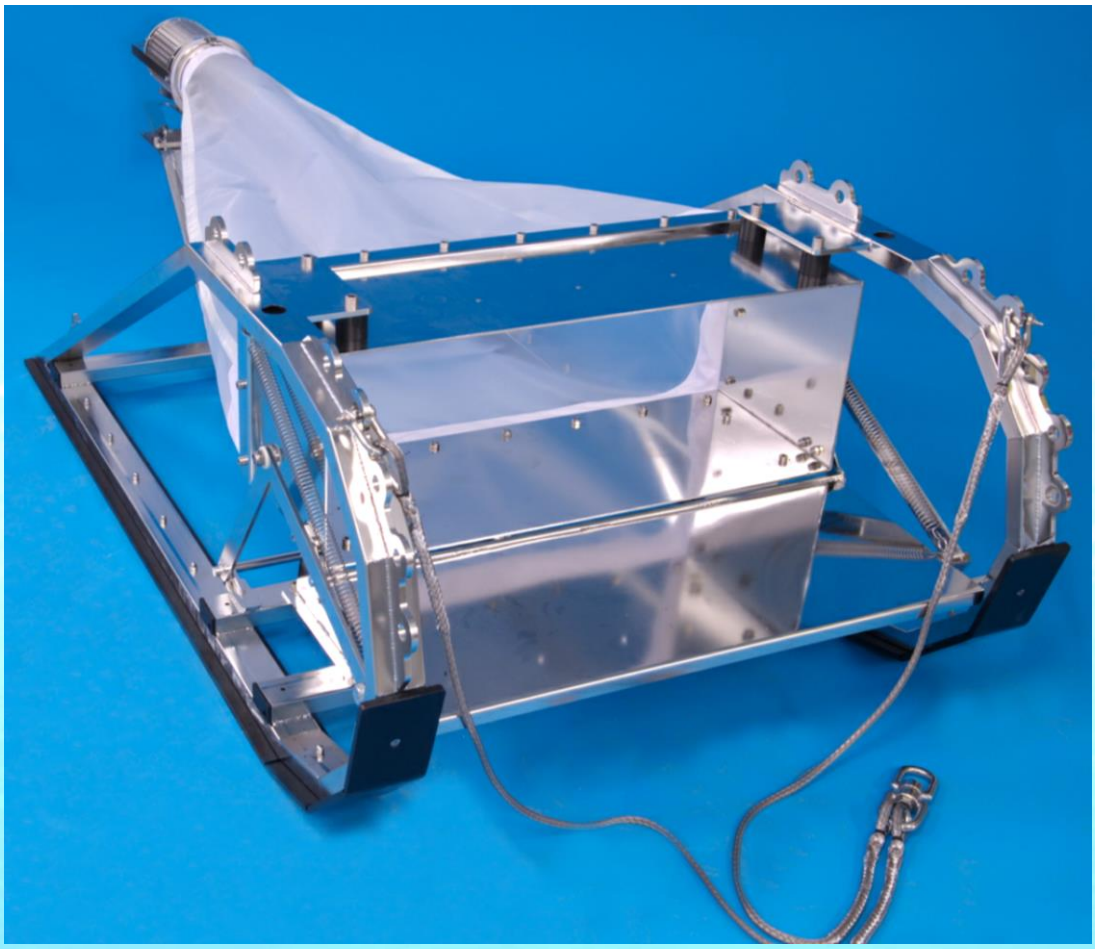
Description

Application

The epibenthic sledge is a system for sampling benthic and benthopelagic faunas. The epibenthic sledge consists of a rectangular frame with a mesh net attached to it. When towed along the seabed, its weight scrapes into the benthos, collecting any organisms on the surface or in the first centimeters of sediment.

General

A mechanically operated flap closes the net during deployment and opens when the sledge touches the bottom. The net will also collect the organisms in the water column just above the benthos (25 cm above the seabed).



Specifications	*Description*
Technical data	Opening L x H: 80 x 30 cm - 2400 cm² Dimensions L x W x H: 170 x 110 x 60 cm AISI 316 stainless steel Net, length 150 cm, mesh size 500 µm AISI 316 stainless steel net Weight: 100 kg
Camera	Resolution: 12 MP Field of view (FOV): 145° EIS - Electronic Image Stabilization
Lights	LED chip, 50 W, each Intensity Luminous(lv): 6000 LM Viewing angle: 120 -140° Subconn connector
Battery and mounting brackets	Battery cylinder with Subconn connectors Capacity for 90 mins. of recording Fully adjustable brackets for lights/camera
General	All items are manufactured from AISI 316 stainless steel with a finish of electro polish Housings for camera and lights: Diameter: Ø105 mm, length 195 mm Max. depth: 500 m

OCKELMAN SLEDGES 30 X 15 CM

Description

Front:

The net opening is located 3 cm above the sea bed

Mounting of the net bag:

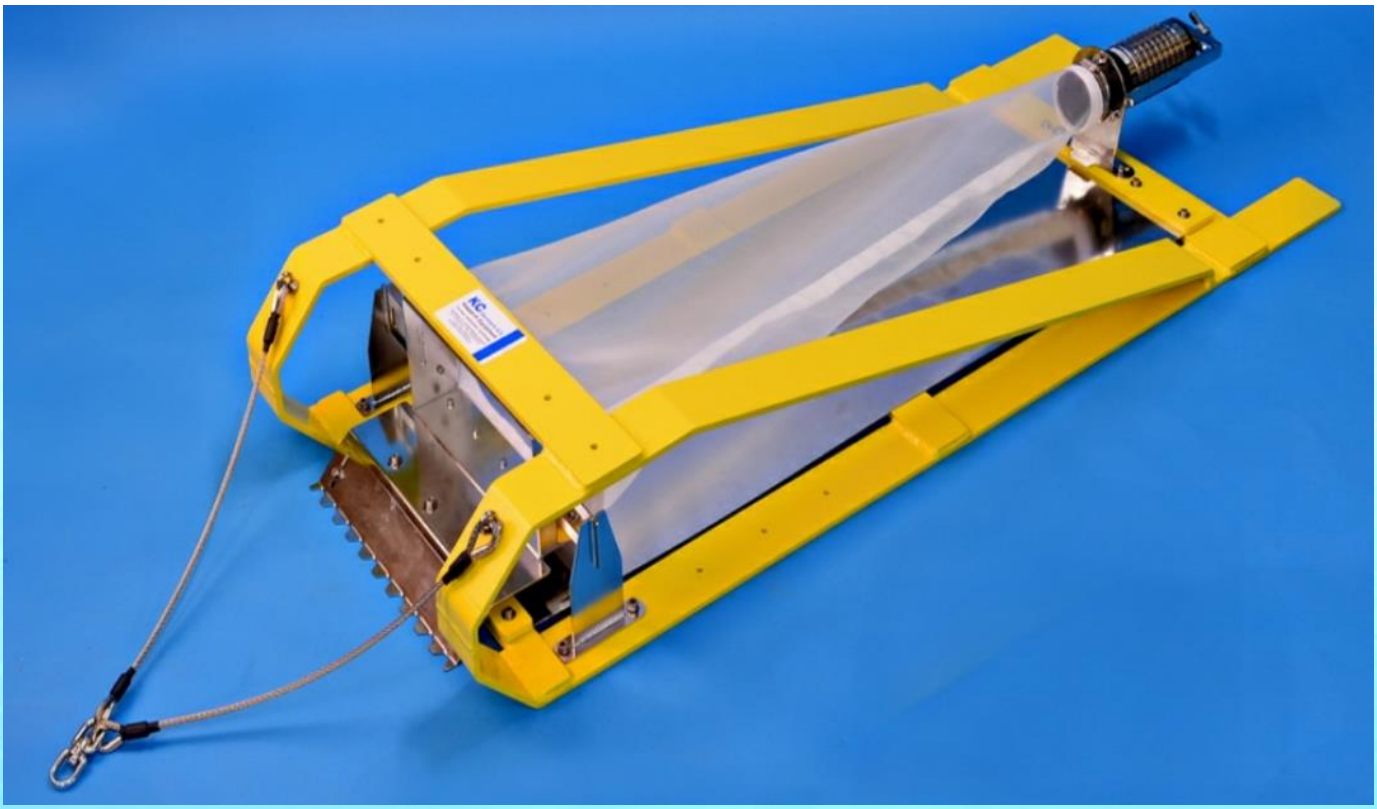
A solid fastening for the net bag will ensure a simple replacement

Net bucket:

Sample cylinder made of POM and AISI 316 stainless steel It has 3 windows, slightly offset, so you can easily pour out the content.

The windows are covered by a net, according to the mesh size of the planktonnet.

The windows are protected by AISI 316 stainless steel net at the outer side (mesh size 10 mm)



Specifications	*Description*
Made from	AISI 316 stainless steel
Opening, L x H	30 x 15 cm, located 3 cm above the sea bed
Adjustable shovel plate with a row of teeth	Adjustable shovel plate with a row of teeth
Net bag: Mesh size 1000 µm	Net bag: Mesh size 1000 µm
Net bag, length: 100 cm	Net bag, length: 100 cm
Dimensions: L x W x H: 154 x 57 x 25 cm	Dimensions: L x W x H: 154 x 57 x 25 cm
Weight: 25 kg	Weight: 25 kg
Camera and light option	
Materials	AISI 316 stainless steel
Length	50 cm, excl. Subconn connentors
Height	19,5 cm
Weight, complete system incl. cables	26 kg

RECTANGULAR DREDGES 40 X 20 CM

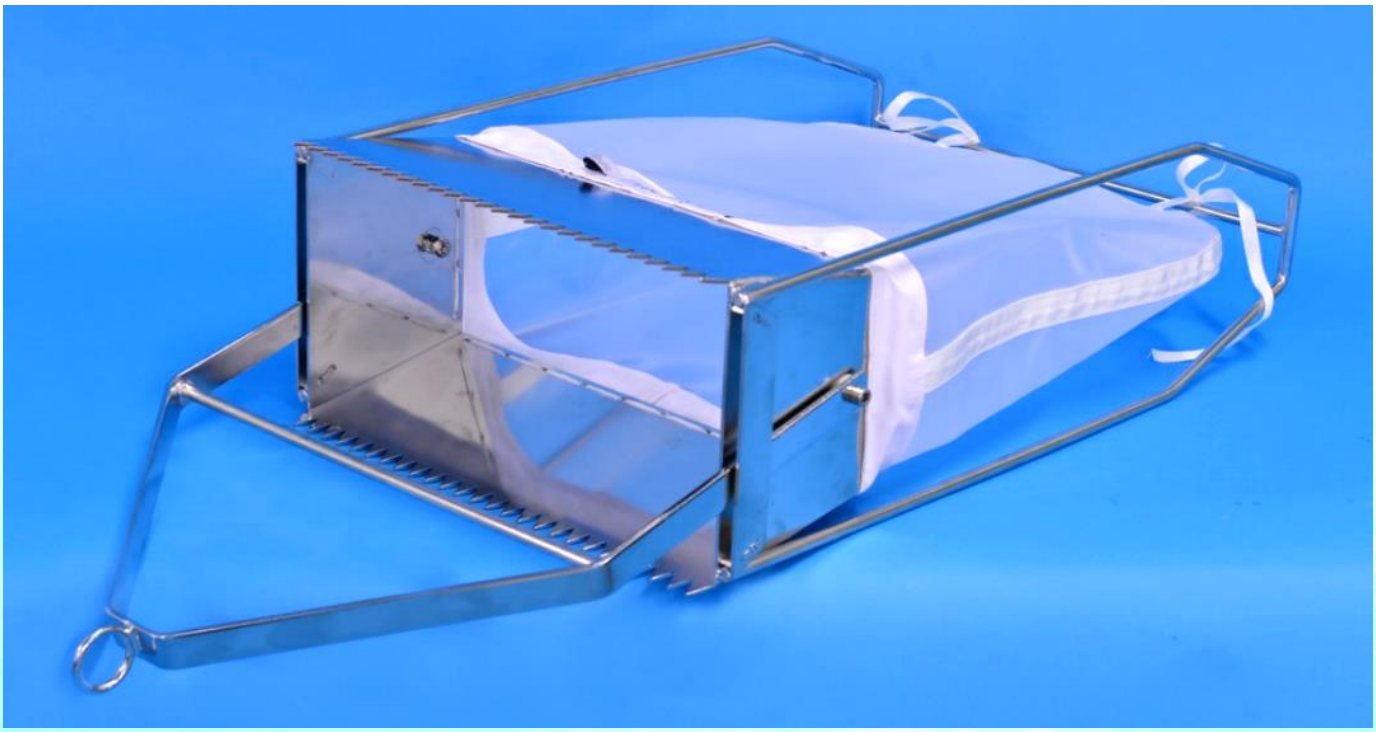
Description

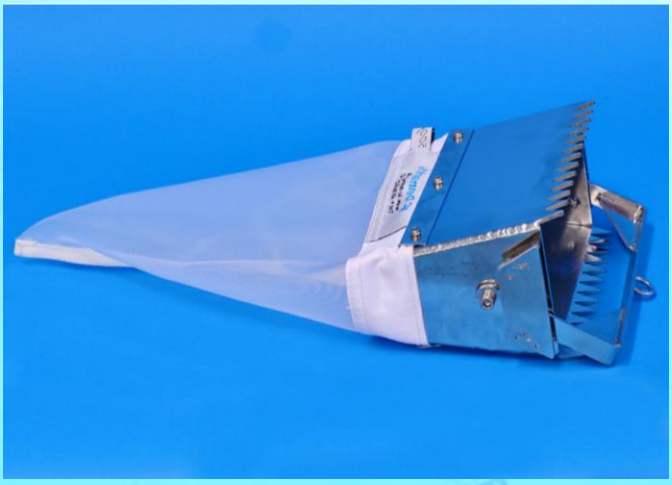
Application:

Rectangular dredge is for collecting biological and/or mineralogical samples with an opening of 40 x 20 cm (L x H).

Small rectangular dredge:

Is a smaller version of the rectangular dredge, with an opening of 20 x 10 cm (L x H). The nylon net bag is mounted at the end of the frame and comes as a standard with mesh size of 500 µm, but other sizes can be made on request.



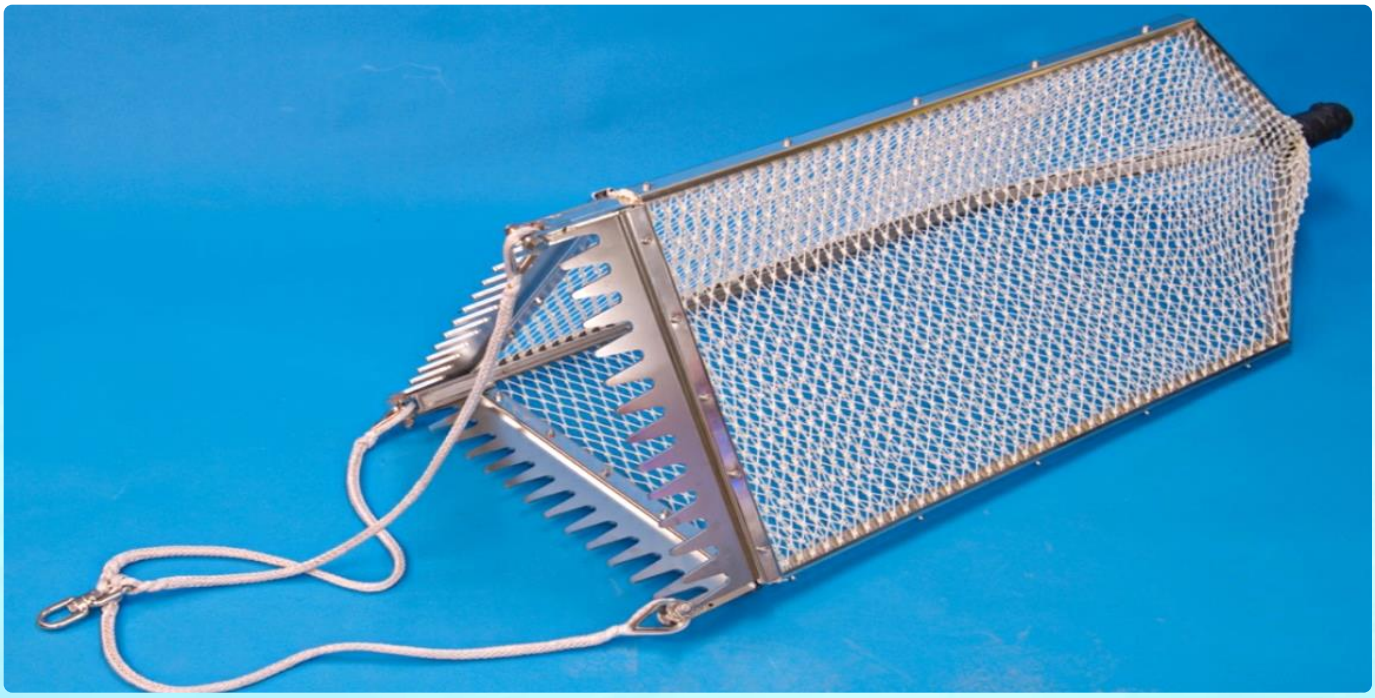


Specifications	*Description*
Material	The rectangular dredge is made of 3 mm AISI 316 stainless steel plate. The two large sides of the frame are furnished with a row of teeth and has a total of 52 pcs.
Net bag	A nylon net bag, length 50 cm, is mounted at the end of the frame. Standard mesh size is 500 µm, but other sizes can be made on request.
Guiding arms	Two guiding arms, made of Ø10 mm stainless steel, will protect the net bag.
Technical Data	Weight : 8 Kg Dimension, Mouth, L X H : 40 X 20 cm Length of net : 50 cm Overall dimensions, L X H X W : 105 X 25 X 43 cm Inner net bag : 500 micron

TRIANGULAR DREDGES 55 X 55 X 55 CM

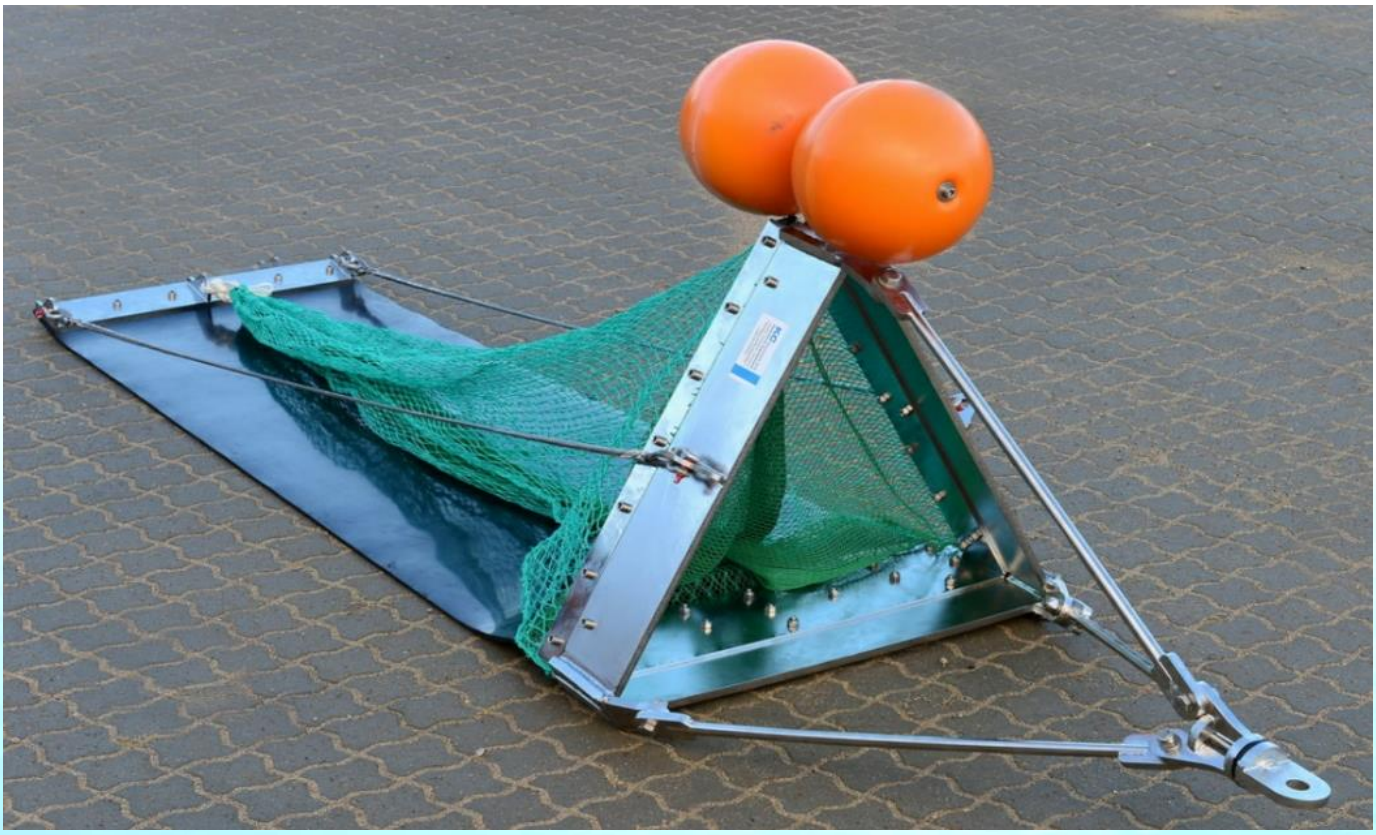
Description

The biological dredge is made of heavy duty AISI 316 stainless steel. The triangular frame is furnished with a row of teeth guiding plants and algae into the bottom of the net.
A coarse meshed 2 cm Nylon net of 100 cm length for collecting biological and/or mineralogical samples is mounted on the frame.
A fine meshed net can on request be mounted inside the coarse net for collection of zooplankton.
The dredge is held in position by guiding arms welded to each corner.



Specifications	*Description*
Technical Data	Weight : 20 Kg
	Dimension, fron : 55 X 55 X 55 cm
	Length, Incl. bridle : 220 cm
	Inner net bag : 500 micron

TRIANGULAR DREDGES 80 X 80 X 80 CM



Specifications	*Description*
Technical Data	Outer dimension: 80 x 80 x 80 cm
	AISI 316 stainless steel, thickness 15 mm
	Length: 350 cm
	Height with buoys: 102 cm
	Outer net bag: Length: 200 cm, nylon, 3 mm, mesh size: 30 mm
	Weight: 180 kg
	2 buoys
	Inner net bag: Length: 200 cm, knotless, mesh size: 10 mm

EPIBENTHIC SLEDGE 92 X 29 CM

Description

Application:

The epibenthic sledge is a rigid, high-performance system for sampling small stones, benthic and benthopelagic faunas. The sledge consists of a rectangular frame with two rails. When towed along the seabed, its weight scrapes into the benthos, collecting any organisms on the surface or in the first centimeters of sediment.
The sledge can be used at any depth. During the tow, the huge fin will stabilize the sledge.

Specifications	*Description*
Opening	920 x 290 mm - 2668 cm²
AISI	316 stainless steel
Finish	Electro polish
	Dimensions (no fin): L x W x H: 246 x 140 x 64 cm
Dimensions (incl. fin)	L x W x H: 246 x 140 x 128 cm
Weight	270 kg incl. fin
General	
Materials	A video camera with battery cylinder and two lights can be attached to the frame. Important: Using this option, the useable depth is limited to 500 m.

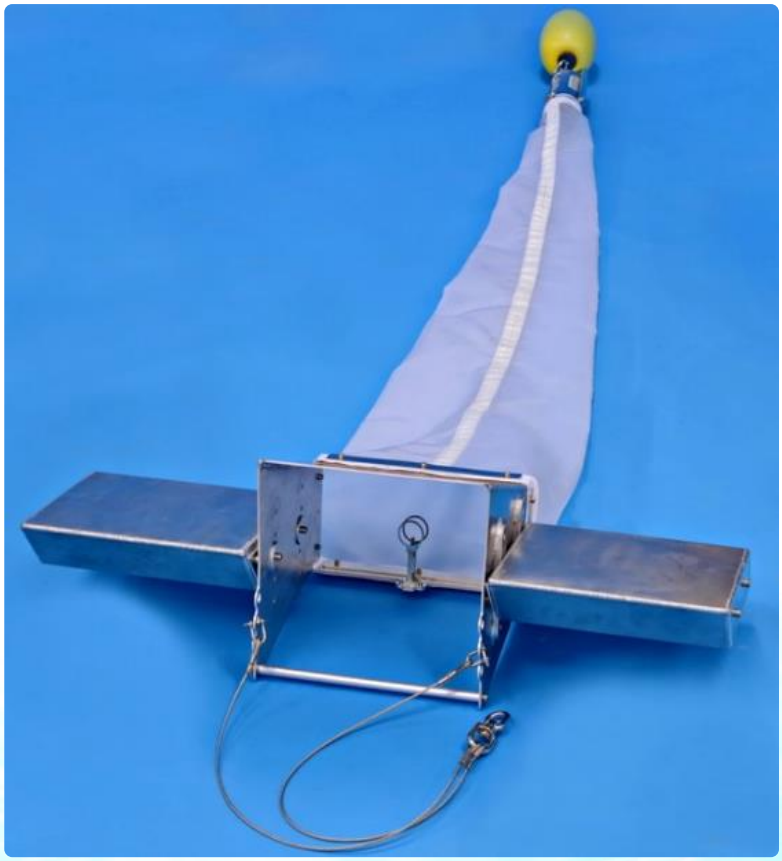
MANTA TRAWL NET 30 X 15 CM

MANTA NET

Description

A manta trawl is a net system for sampling the surface of the ocean. The net it pulls is made of thin mesh, and the net is useful for collecting samples from the surface of the ocean, such as sampling of micro plastic. Standard delivery comes with mesh size 300 µm. Other sizes on request. A pair of wings bolted onto an inner frame which serve to lift the net frame so that samples are efficiently collected at the top of the water column. More adjustments for the vings and the bridle allows various sampling heights.

The sample cylinder is made of AISI 316 stainless steel and it comes with a small buoyancy so it remains in horizontal position during the sampling. It has 5 windows covered by steel net; the mesh size is equal to the main net.



Specifications	*Description*
General	Aperture size: 30 x 15 cm Length, excl. bridle: 250 cm Length, incl. bridle: 385 cm Manufactured from sea water resistant aluminum Mesh size 300 µm; other sizes on request Support for mechanical flow meter Incl. sample cylinder and a buoyancy Adjustable buoyancy height to sample on the water surface Max. recommended towing speed: 3 knots Weight: 9,75 kg (10,25 kg incl. flow meter)
Digital flow meter	Exclusive back-run stop Counter: 5 digits Diameter of propeller and counter body: Ø70/32 mm Length: 190 mm Depth rating: Unlimited 99999 counts, equal approx. 16,2 nautical miles Threshold: 20 cm/sec Range: 20 cm/sec to 8,0 m/sec Recommended for horizontal operation Weight: 0,5 kg

Related Divides

MANTA TRAWL NET 70 X 30 CM

MICRO PLASTIC PARTICLE PUMP

PLASTIC PARTICLE PUMP

Description

Plastic particle pump sampler is able to run sampling on 4 different mesh sizes during one deployment, while keeping a precise account on the total volume, measured by a magnetic/inductive flow meter with accuracy of typical 0,035 %. The pump can run continuously, or you can program it for a specific volume.

Due to its very flexible range of filter sizes (ranging from 1000 µm down to 100 µm), it has proven itself a very useful tool in sampling plastic particles in the ocean as well as lakes. Other sizes (down to 20 µm) on request; in general, we recommend 50 µm as a minimum; a small mesh size may clog very fast thus reducing the pump's capacity. The filter plates themselves can easily be removed thus supporting pumping with fewer or none filters at all.

Standard delivery comes with 20 m of cable for the data and the power supply. Extension of the cable length to be ordered together with the pump.

Specifications	*Description*
Capacity	12000L/hour. Approx. 200L/min. at 0 m water column, with no filters
Power supply	230 VAC
Power consumption	0,75 kW
Pump	AISI 304 stainless steel
Flow meter	Magnetic/inductive, accuracy typical 0,035 %
Main rack	AISI 316 stainless steel
	Zinc anodes to protect against corrosion
Footprint, pump	60 x 60 cm
Max. depth	40 m
Length	137 cm
Weight	total pump, control box and 20 m of cable: 85 kg

Related Divides

PORTABLE PUMP FOR MICRO PLASTIC

MINI MICRO PROFILER

MANTA NET

Description

Mini micro profiler is a novel portable instrument has been designed for in-situ microsensor measurements. The micro profiler, which can be equipped with microsensors for measurements of oxygen, pH, sulphide (S -- or H2S) and temperature, is ideal for a wide range of applications including:

- Oxygen respiration.
- Benthic primary production.
- Quantification of sulphide oxidation and sulphate reduction by measurement with a sulphide (gas or ion) microsensor for use inbio-filmsand sediments.

Profiling measurements can be carried out with a spatial resolution of 50 µm in numerous locations including:

- At the sediment-water interface (from tidal flats to 100 m water depth).
- In bio-films, for studying the transformation of organic matter. Under ice, for studying respiration and primary production of ice-algae.

Specifications	*Description*
Weight, in air	10 kg
Total height	1,0 m
Distance between feet	0,75 m
Pressure compensated sensor	Pressure compensated sensor house made of acrylic (PMMA) with a screw-in tightening ring in the top made of (POM) and 3 pcs. O-rings. The bottom is protected by an AISI 316 stainless steel ring. Tested for 800 atmospheres pressure.
Pressure stable connectors	Gold plated, 3 or 4-pin connectors made of AISI 316 stainless steel with 3/8" UNF thread and 3 pcs. of wire, length 25 cm. Tested for a pressure of 800 atmospheres.
Camera housing	Housing: AISI 316 stainless steel. Internal diameter: 72 mm Length: 120 mm. Front glass: 10 mm Acrylic (PMMA) Max. depth: 200 m Connector for transmission: 1 pc Subconn Finish: Electro polish
Lamp for 12 V	12 volt DC 35 watt lamp 38° Housing: AISI 316 stainless steel Finish: Electro polish
Datalogger box	Housing: AISI 316 stainless steel Internal diameter: 125 mm Length: 340 mm Front glass: 10 mm Acrylic (PMMA) Max. depth: 200 m

PLANKTON PUMP

PLANKTON PUMP FOR 150 M DEPTH

Description

A plankton pump pumps up seawater via a water pipe through a little net with a mesh size depending on the intended research object. On request, the nets are available in other mesh sizes. The standard pump is delivered with 60 µm net. Plankton is collected in the recipient below; a flow meter can be integrated as part of the pump (optional).

Usefulness of a plankton pump

- Research on the distribution of plankton
- The use of a plankton pump is very advantageous for sampling plankton in shallow water (compared to the use of plankton nets)
- A plankton pump can be deployed at a specific location

Specifications	*Description*
Technical specifications	Power supply: 230 VAC Power consumption: 550 W Max. depth: 150 m. Standard delivery comes with 40 m cable Capacity: Up to 26.000 L/hour (app. 433 L/min.) Optional: Flow meter of pumped volume (23.095) Pump: AISI 304 stainless steel Main rack: AISI 316 stainless steel Finish: Electro polish Comes with 3 pcs of zinc anodes (28.102) Net bag: Diameter Ø199 mm, length: 480 mm, mesh size: 60 µm Filtration area: 3000 cm² Dimensions for the control box: L x W x H: 36 x 30 x 15 cm Footprint for the pump: Max. 40 x 40 cm Height: 147 cm Weight (pump and cable): 30 kg Weight (control box): 4 kg
Net bag	Mesh size: 60 µm, other sizes on request Material: Monudur HD Nytal Filtration area: 3000 cm² Diameter: 201 mm Length: 480 mm
Flow meter with Honeycomb - optional:	Back-run stop (non-resetable) Counter with 5 digits Length of chamber: 250 mm Honeycomb made of AISI 316 stainless steel
Collecting bottle:	Material: Polycarbonate Contents: 1 L Mesh size: 60 µm (other mesh sizes on request) Protection for net: AISI 316 stainless steel, mesh size 10 x 10 mm Weight: 0,25 kg
Zinc anode:	Zinc anode, Ø40 x 17 mm To avoid corrosion when used in salt water As standard, the pump comes with 3 zinc anodes
Mounting Clamps:	For mounting of the net bag 1 set consists of 2 pcs

Related Divides

PLANKTON PUMP FOR 600 M DEPTH

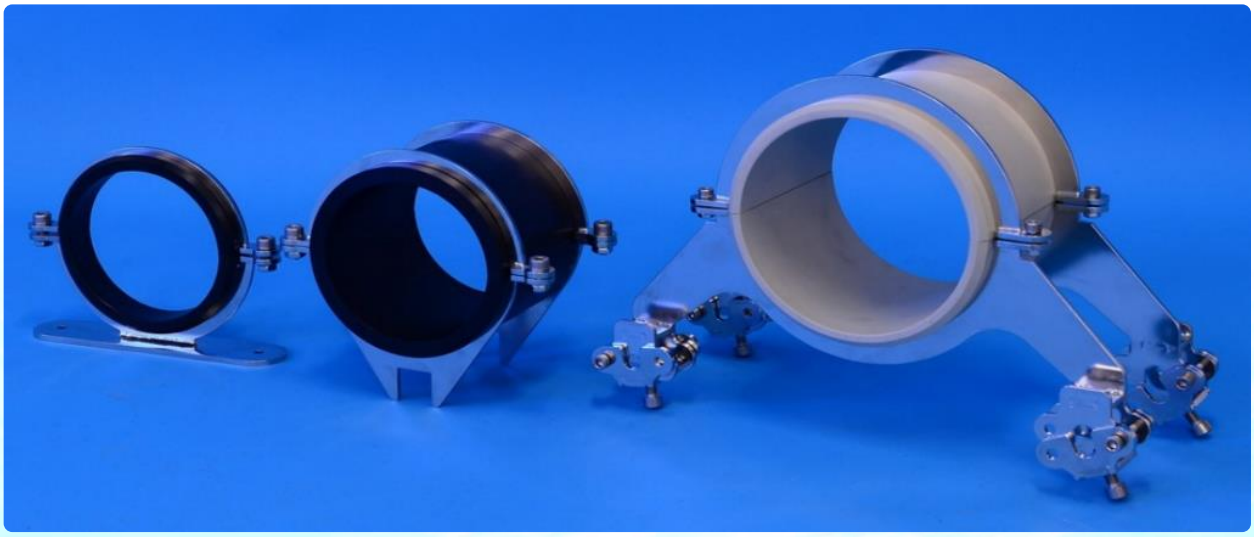
PRESSURE STABLE BATTERY CYLINDER

PRESSURE STABLE BATTERY CYLINDER FOR 6000M

Description

Application:

Battery cylinders are rated for 4000 m depth & 6000 m depth (Need to mention during the time of order). Both cylinders have room for the programmable timer (USB or RS-485 interface) and pressure transmitter (optional) which can be used for Niskin rosette racks, sediment trap stations, plankton pumps, small multi water sampler station and lander systems.



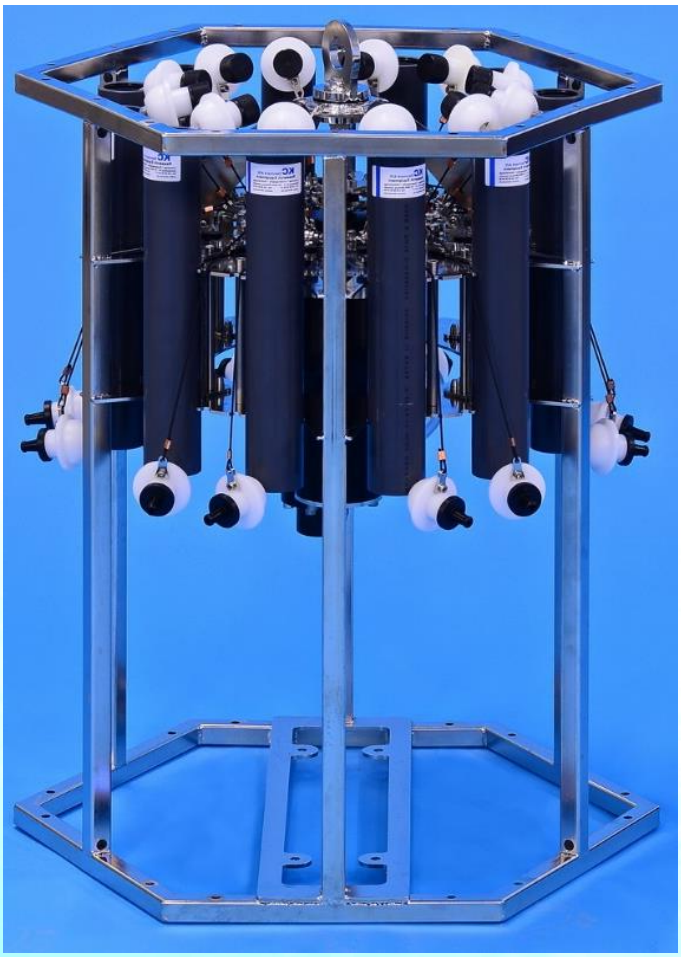
Specifications	*Description*
Technical Data	24 Volt DC/10 Amp/h Pressure cylinder made of AISI 316 stainless steel Subcon connectors made of AISI 316 stainless steel
Dimensions	Length, (inclusive Subconn): 670 mm Diameter, outer: 123 mm Diameter, inner: 84 mm Weight, incl. batteries: 31 kg

ROSETTE AND RACKS

NISKIN MINI ROSETTE 12 BOTTLES

Description

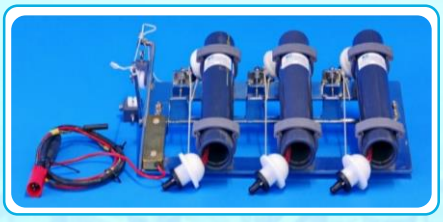
Rack manufactured from AISI 316 stainless steel, capacity of 12 Niskin water samplers, capacity up to 1 L.



Niskin bottles are non-metallic construction, so its interior is totally free from metal parts. End stopper closure band made of sea water resistant Para/Latex band. The standard battery and electronics come with a sleep mode functionality allowing deployment up to 12 months

Specifications	*Description*
Features	Niskin bottles are available in sizes of 300, 600 and 1000 ml. Deployment up to 12 months with standard battery Release system is motor driven (24 Volt DC) Release manually or fully programmable with an optional time lapsed trigger Support for triggering by pressure Trigger includes software: actual status for the samplers, battery voltage, motor current, etc. Room for mounting of a CTD rack 6000 m & 4000 m depth rating (Need to be mentioned by the time of order)
Standard delivery	The rosette rack does not include power supply, timer, cables and Niskin bottles. The accessories must be ordered separately.
Dimensions and weight:	Model 60.000 without bottles and battery cylinder: diameter 57 cm, height 75 cm, weight 31 kg.

Related Divides



NISKIN WATER SAMPLER 3 X 250 ML

ROSETTE STATION 6 BOTTLES

RACK FOR MOUNTING OF 2 PCS. NISKIN BOTTLE + CTD

RACK FOR MOUNTING OF 2 PCS. NISKIN BOTTLE

CENTRE HANGER

ROSETTE WITH GLASS BOTTLES

Description

Rack manufactured from AISI 316 stainless steel, capacity of 12 glass bottles, each 1 L. The bottles remain closed until the individual, programmable release takes place. Before the raising of the unit to the surface, a drop messenger will release a mechanism closing all bottles.

Specifications	*Description*
Features	Depth rating: 500 m Standard delivery comes with glass bottles of 1 L. Other sizes on request Release system is motor driven (24 Volt DC) Release manually or fully programmable by mounting of an optional time lapsed trigger Support for triggering by pressure Trigger includes software: actual status for the samplers, battery voltage, motor current, etc. Footprint: 59 x 59 cm Height: 116 cm Weight: 51 kg

WATER SAMPLERS

NISKIN WATER SAMPLER 1.7 TO 12 LITRE (60.XXX)

Description

The water sampler is fully made of PVC and its interior is totally free from metal parts. Top- and bottom plates are held together with a sea water resistant rubber string, and a drop messenger releases the closing mechanism. Because of the open construction during the deployment, the Niskin bottle can be used at any depth.

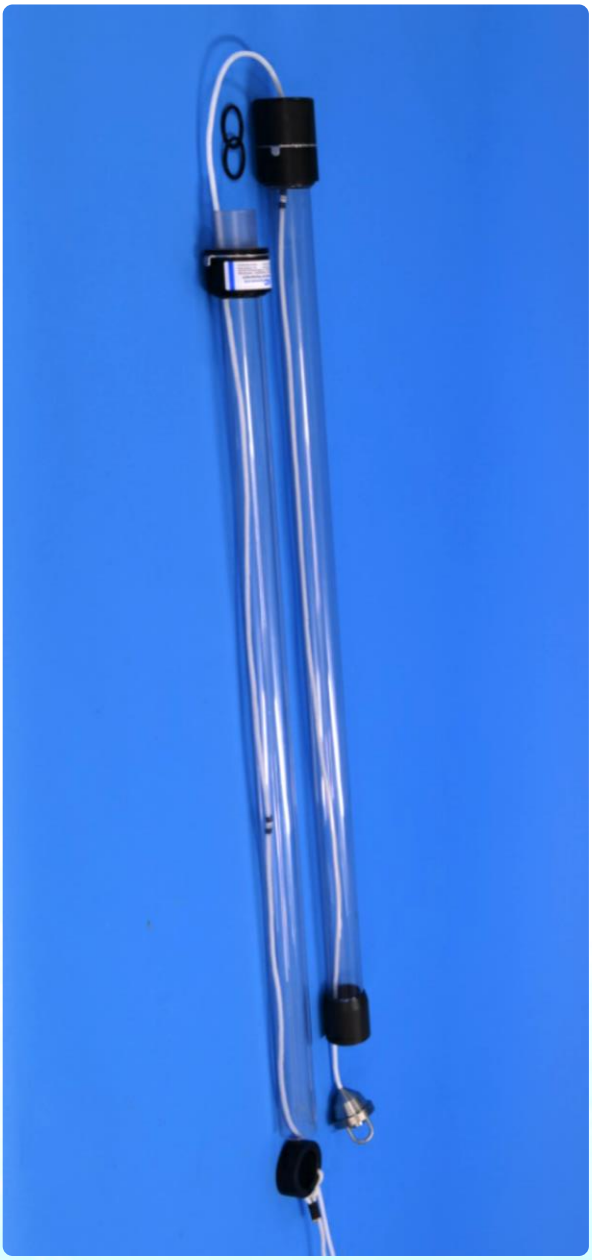
Niskin water sampler can be used singly (by use of 1 pc Centre hanger for single ocean water sampler) or in series and closes correspondingly. The Niskin water bottles are also available in a special version, (61.xxx series) which can only be used with our Rosette and Racks system. The 61.XXX series comes without drop messenger and two M10 bolts.

Specifications	*Description*
Niskin water sampler	1.7 Ltr
Niskin water sampler	2.5 Ltr
Niskin water sampler	5.0 Ltr
Niskin water sampler	7.5 Ltr
Niskin water sampler	10 Ltr
Niskin water sampler	12 Ltr

Related Divides

NISKIN WATER SAMPLER 1.7 TO 12 LITRE(61.XXX)

INTEGRATED WATER SAMPLER



Description

Application

Collecting vertical water samples of 2 m height.

General

Integrated water sampler, tube Ø40 mm x 100 cm, (polycarbonate), sample volume 2 L. Inclusive 10 m of Ø5 mm polyester line, marked with figures every meter.

Extension

The tubes are connected with a POM coupling device equipped with O-rings inside. The closing bung is made of AISI 316 stainless steel.

- The coupling device can also be secured by use of 2 extra O-rings.
- Transport box for water samplers. Made from PE/HD (Polyethylene). Ø12 x 116 cm.
- Locking mechanism for the line.
- On the bottom there is a ring where an additional weight of app. 1 kilo can be attached if used in streamy water.

Related Divides

LIMNOS WATER SAMPLER 2 L

RUTTNER WATER SAMPLER

Description

Application

Ruttner water sampler is based on the Ruttner design and it is suitable for taking samples in lakes, water borings, wells, etc. For smaller version you can go for Ruttner water sampler 1 L.

Thermometer

Internal thermometer (non-mercury) for registration of the in-situ temperature. Temperature range between -10 and +60 °C. For the 1,7 L Ruttner the thermometer is scaled 0 - 50 °C.

Drop messenger

All Ruttner samplers come with a drop messenger (Image 2).

Metal free interior

Ruttner samplers can be delivered without internal, metallic parts in the sample tube. Please specify on ordering.

Available Variant:

- Ruttner water sampler 1.7 L.
- Ruttner water sampler 3.0 L.
- Ruttner water sampler 5.0 L.

Specifications	*Description*		
Volume	1.7 L	3.0 L	5.0 L
Cylinder tube acrylic (O.D/I.D X L)	13.3/12.3 X 15 cm	13.3/12.3 X 25 cm	13.3/12.3 X 43 cm
Height	63 cm	73 cm	92 cm
Weight	5.8 Kg	6.5 Kg	7.5 Kg
Drop messenger, Brass	400 g	400 g	400 g
Recommended line	Maximum Ø5 mm		

Related Divides

RUTTNER WATER SAMPLER 1 L

SMALL STAINLESS STEEL WATER SAMPLER

Description

Small stainless steel water sampler is made of AISI 316 stainless steel with an outer diameter of 54 mm. Finish: Electro polish.

On top of the water sampler a rubber bung with 10 m of Ø5 mm rope is mounted.
Custom made Nylon lines with markers and various lengths can be made upon request for more details kindly refer our product Hand winches and lines.

Stainless steel water sampler

The water sampler shown from the top. Before deployment ensure the rubber bung is pressed down in the top part of the sampler, once the desired depth have been reached, you yank the line, and the rubber bung will open up, and your water sample will be taken. Recommended for a max. depth of 20 m.

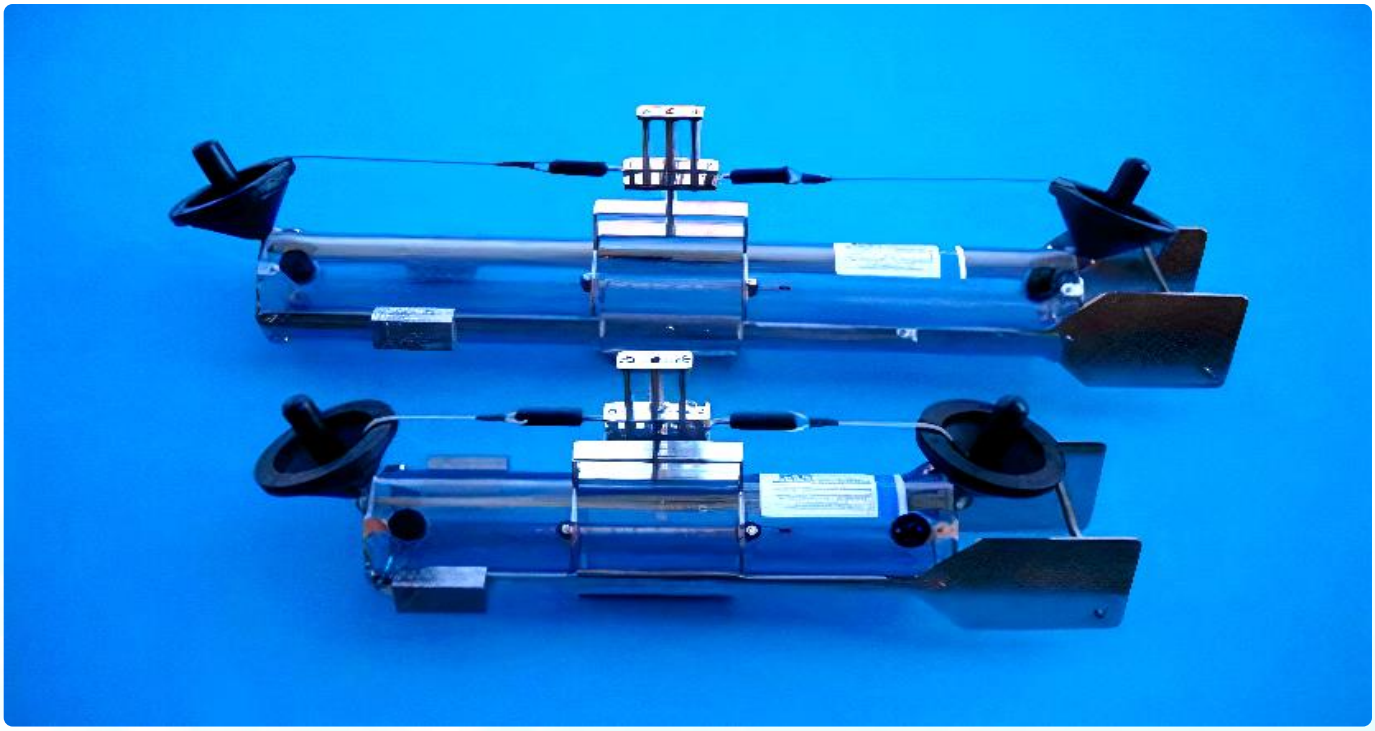
Specifications	*Description*
Dimensions	Small stainless steel water sampler 0.5 L : Length 33 cm Small stainless steel water sampler 1.0 L : Length 58 cm Small stainless steel water sampler 1.5 L : Length 83 cm

VAN DORN WATER SAMPLER

Description

The sampler is made of a sturdy transparent acrylic tube and has a double releaser, activated by a drop messenger. The release system is manufactured from AISI 316 stainless steel. The Van Dorn comes with the drop messenger.

The horizontal Van Dorn water sampler is intended for taking water samples near the bottom in lakes, streams, or in stratified water bodies. The water sampler is based on the Van Dorn design. When the 2 rubber end covers are released, they are held together by a rubber strap.



All Van Dorn models have been re-designed for better performance and now the steering fins are integrated into the sampler, ensuring a better stabilization in flowing water.

Thermometer

The water sampler comes with a standard, non-mercury thermometer, with a temperature range between - 10 and + 60°C (1 degree indications on the scale).

Lines

Polyester lines, Ø5 mm can be supplied as unmarked line or marked each meter. Kindly refer our product hand winches for more details.

Drop messenger

Brass, 500 g, is included. used on a Ø5mm line

Available Variant

- Van Dorn Water Sampler 2.0 L.
- Van Dorn Water Sampler 3.0 L.
- Van Dorn Water Sampler 5.0 L.

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Specifications	*Description*		
Dimensions	2.0 L	3.0 L	5.0 L
Diameter of tube (O.D/I.D)	110/100 mm	110/100 mm	110/100 mm
Drop messenger box	500 g	500 g	500 g
Length	450 mm	580 mm	830 mm
Total weight	4.4 Kg	5.1 Kg	7.2 Kg

WATER SAMPLER FOR WELLS AND POLLS

Description

The telescopic reinforced fibre glass shaft can be provided with other types of measuring or sampling units, the unit comes with an acrylic beaker.

Application

The water sampler is made for usage in small lakes as well as pools, With its extension shaft it makes it an ideal instrument to use to be able to collect water samples, in places where the space is limited.
related products

Specifications	*Description*
Water Sampler with telescope handle 250 ml	Water sampler for pools and wells 250 ml shaft manufactured from reinforced fiber glass, length 1.5 m (Max. length 6 m). Clamp for beaker made of AISI 316 stainless steel. Weight 0.9 kg, beaker with spout made of acrylic.
Water Sampler with telescope handle 750 ml	Water sampler for pools and wells 750 ml shaft manufactured from reinforced fiber glass, length 1.5 m (Max. length 5 m). Clamp for beaker made of AISI 316 stainless steel. Weight 1.0 kg, beaker with spout made of acrylic.

DROP MESSENGER

Description

Drop messenger 200g Brass

Used on a Ø2 mm nylon line.
Dimensions: 32 x 40 mm. Hole: Ø10 mm
For: Ruttner Water Sampler 1 L.

Drop messenger 500 g

Dimensions: 30 x 90 mm. Hole: Ø10 mm.
For Ekman Grabs and Ruttner Water Sampler. (1,7 - 3 and 5 L)

Drop messenger 400 g, with open/closing mechanism

Dimensions: 60 x 63 mm. Hole: App. Ø11 x 7 mm.
Open the messenger, attach it to the line at any point, close the messenger and you're ready.

SMALL MULTI WATER SAMPLER

SMALL MULTI WATER SAMPLER
3 X 50 ML

Description

Application

The multi water sampler can be used on lander systems for taking samples from seabed or incubator chambers or placed on a ROV for taking samples over oil pipelines. The photo shows a mounting on a sea flume for in situ studies of threshold, erosion velocity and erosional behavior of undisturbed marine muds.
The samplers are released simultaneously by a burn-wire system.

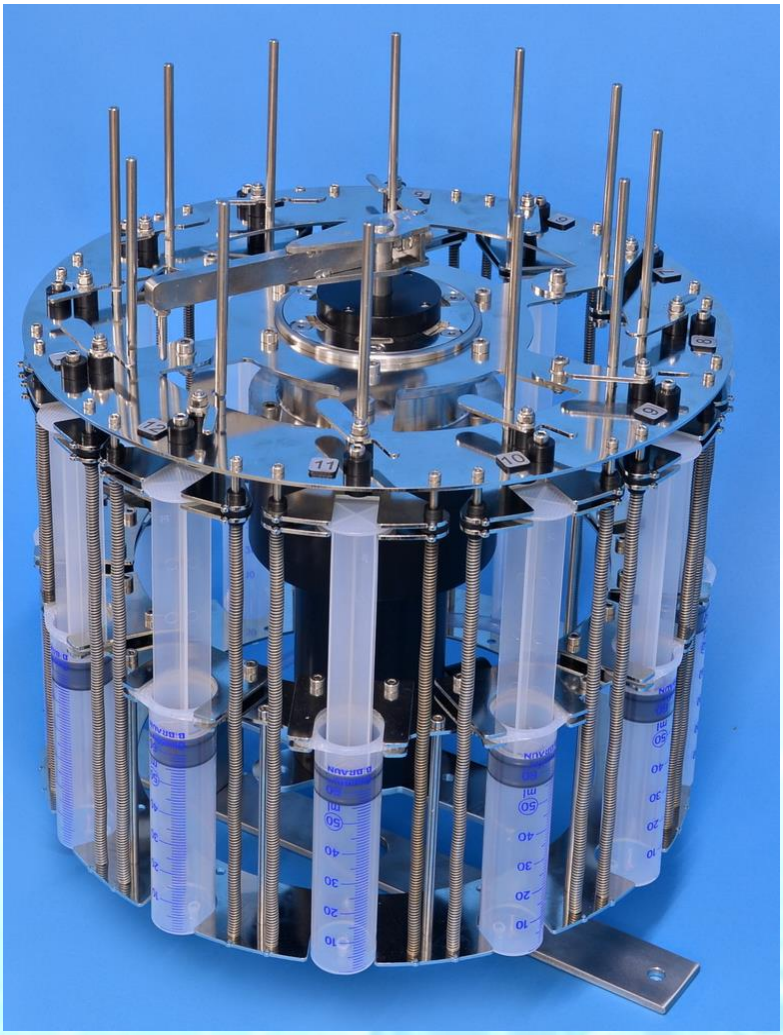
SMALL MULTI WATER SAMPLER 12 X 50 ML

Description

This is a new model multi water sampler with 12 pcs 50 ml syringes. The model can operate on 6000 meter depth.

Operating voltage is between 12 and 24 Volt DC. Every time the motor gets a pulse it will release one syringe. As option, a time lapsed trigger can be attached. The motor is pressure compensated for 6000 m depth.

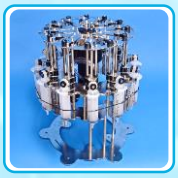
The multi water sampler can be used on landers for taking samples from seabed or incubator chambers or placed on a ROV for taking samples over oil pipelines.



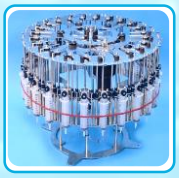
Specifications	*Description*
Volume: 12 x 50 ml	Volume: 12 x 50 ml Deployment up to 12 months with the standard battery Reverse functionality (injection or suction function) Syringes: Nylon PA 6.6 AISI 316 stainless steel Finish: Electro polish Programmable trigger can be mounted (optional). Interface: USB Operational depth: 6000 m with battery 100.226 Power supply: 24 VDC, current 1 Amp Comes without cables, trigger, battery cylinder, etc. Time to fill a syringe: 10 sec. Diameter: 340 mm Height, loaded: 310 mm Height, released: 370 mm Weight: 10 kg, in water: 7.5 kg
Rack for multi water sampler	Rack for mounting of 100.210 water sampler and battery cylinder AISI 316 stainless steel Finish: Electro polish L x W x H: 71 x 46 x 74 cm Weight: 16.5 kg

Related Divides

SMALL MULTI WATER SAMPLER 6 X 100 ML



SMALL MULTI WATER SAMPLER 12 X 100 ML



SMALL MULTI WATER SAMPLER 24 X 100 ML

SMALL MULTI WATER SAMPLER 36 X 500 ML

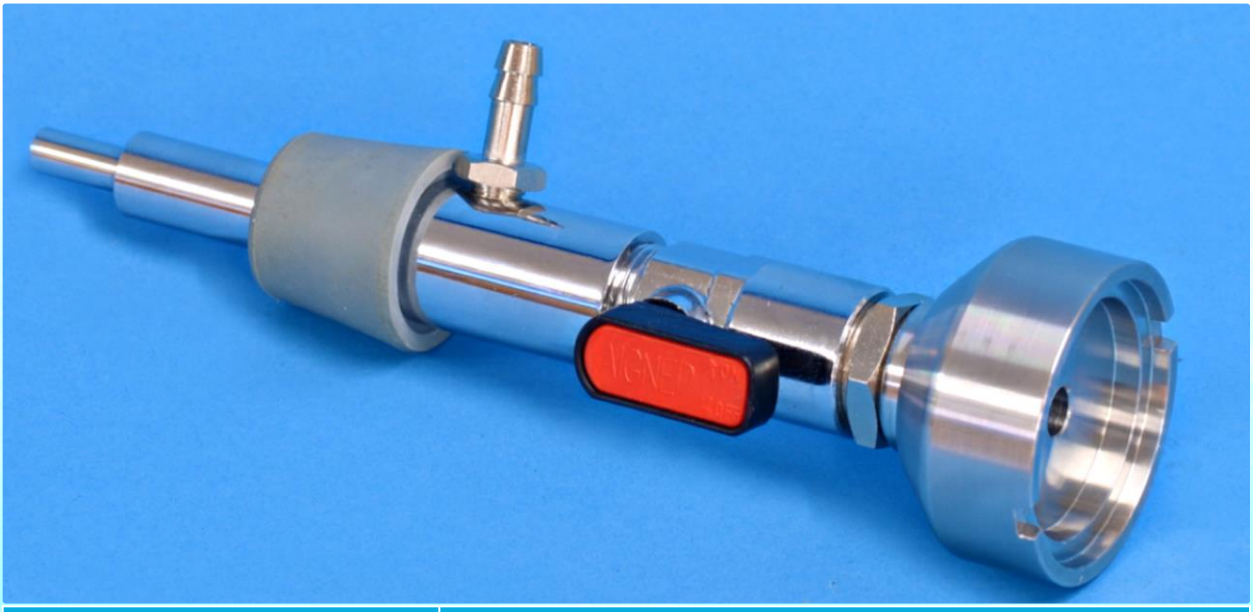
VACUUM FILTRATION STATION

VACUUM FILTRATION SYSTEM 500 ML X 1

Description

Filtration using vacuum is a chemistry laboratory technique which allows for a greater rate of filtration. Whereas in normal filtration gravity provides the force which draws the liquid through the filter paper, in suction filtration a pressure gradient performs this function. This has the advantage of offering a variable rate depending on the strength of the pump being used to extract air from the acrylic chamber.

Care must be taken not to use such a strong vacuum that the filter paper rips (in which case all the solid will be lost back into the solvent) or in extreme cases the glass flask breaks.The upper and under parts are manufactured from AISI 316 stainless steel and the cylindrical tube is made of acrylic. Support for vacuum.



Specifications	*Description*
Filtration unit	Contents: 500 ml. Support for vacuum Ball valve Fits for blue and red cap bottles Inclusive support screen AISI 316 stainless steel. Holder for filter paper: POM Acrylic tube, OD/ID: 60/52 mm. Length 240 mm. Filtration surface: 12,56 cm^2 Filter paper: Ø47 mm Total height, excl. glass bottle: 330 mm Weight: 0,95 kg Standard delivery does not include bottle Weight: 0,95 kg
Vacuum pump	230 V/50 Hz, 125 W IP 54 Water separator Manometer Dimensions: L x W x H: 24 x 21 x 23 cm Weight: 5.25 kg

Related Divides

VACUUM FILTRATION SYSTEM 6 CHAMBER 0.5L

VACUUM FILTRATION SYSTEM 3.0 LITER

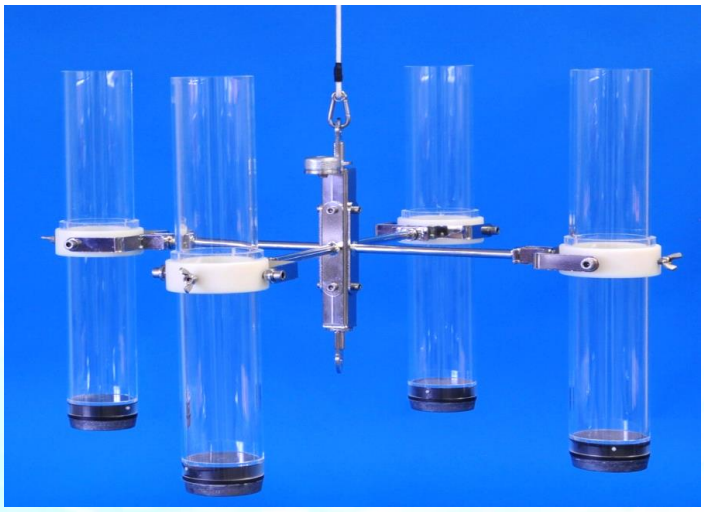
VACUUM FILTRATION SYSTEM 500 ML X 6

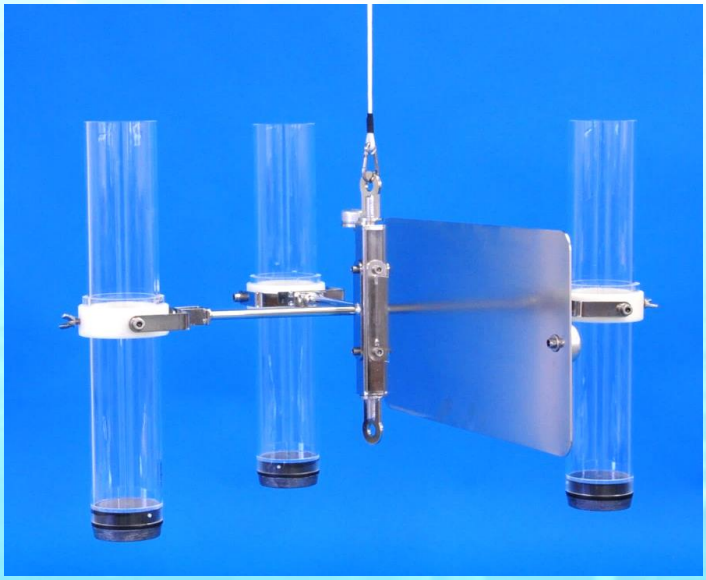
SEDIMENT TRAP STATION

SEDIMENT TRAP STATION Ø80 MM TUBES

Description

The construction of the sediment trap array ensures a permanently vertical position of the sampling tubes during deployment. The steering fin (optional) and the pivot joints force the array to be held at right angle to the current.





Available models with Ø80 mm tubes

- 1 tube, 1 steering fin.
- 2 tubes.
- 2 tubes, 1 steering fin, 1 balance arm.
- 3 tubes, 1 steering fin.

Specifications	*Description*
Main rack:	The main rack for the series sediment sampler, is made from AISI 316 stainless steel; the rack is delivered with 1 pc zinc anode Ø30 x 15 mm 0.55 kg total.
Sample tube:	The sample tube is used for the KC sediment trap series Ø80 only, the tube is Ø80/Ø72, length 450 mm with a lead weight in the bottom 1.5 kg total.
Arm for sediment station:	The arm for the sediment trap station is made from AISI 316 stainless steel and Polyamide PA 6.6, the arm is connected to the main rack with a pivot joint fastening ring.
Balance arm:	Balance arm for the Ø80 mm sediment trap series: This arm can only be used for the model. The arm is made from AISI 316 stainless steel, with a lead weight at the end for creating balance.

Related Divides

SEDIMENT TRAP STATION Ø80 MM WITH LID

SEDIMENT TRAP STATION Ø110 MM WITH LID

SEDIMENT TRAP FOR 12 OR 24 BOTTLES

Description

Sediment sampling with time lapsed trigger. Max. depth 6000 m depending of battery used.

Available Models:
The funnel has an internal diameter of 570 mm (0.25 m^2) or 800 mm (0.5 m^2). As per below list both sizes are available with either 12 or 24 bottles.

IMPORTANT: One bottle remains open during the deployment, so useable number of bottles is only 11 or 23

- Sediment Trap - 0.25 m^2 - 24 Bottles - 250 ml
- Sediment Trap - 0.25 m^2 - 12 Bottles - 500 ml
- Sediment Trap - 0.50 m^2 - 24 Bottles - 250 ml
- Sediment Trap - 0.50 m^2 - 12 Bottles - 500 ml

Specifications	*Description*
Time lapsed trigger:	Programmable timer for individual release of a maximum of 24 samples. The individual delay between every sample is fully programmable.
Honeycomb:	Top of funnel is covered by a Honeycomb.
Rack for sediment trap:	Manufactured from AISI 316 stainless steel

Related Divides

SEDIMENT SAMPLER WITH 1 BOTTLE 0.25 L

SEDIMENT SAMPLER WITH 1 BOTTLE 5 L

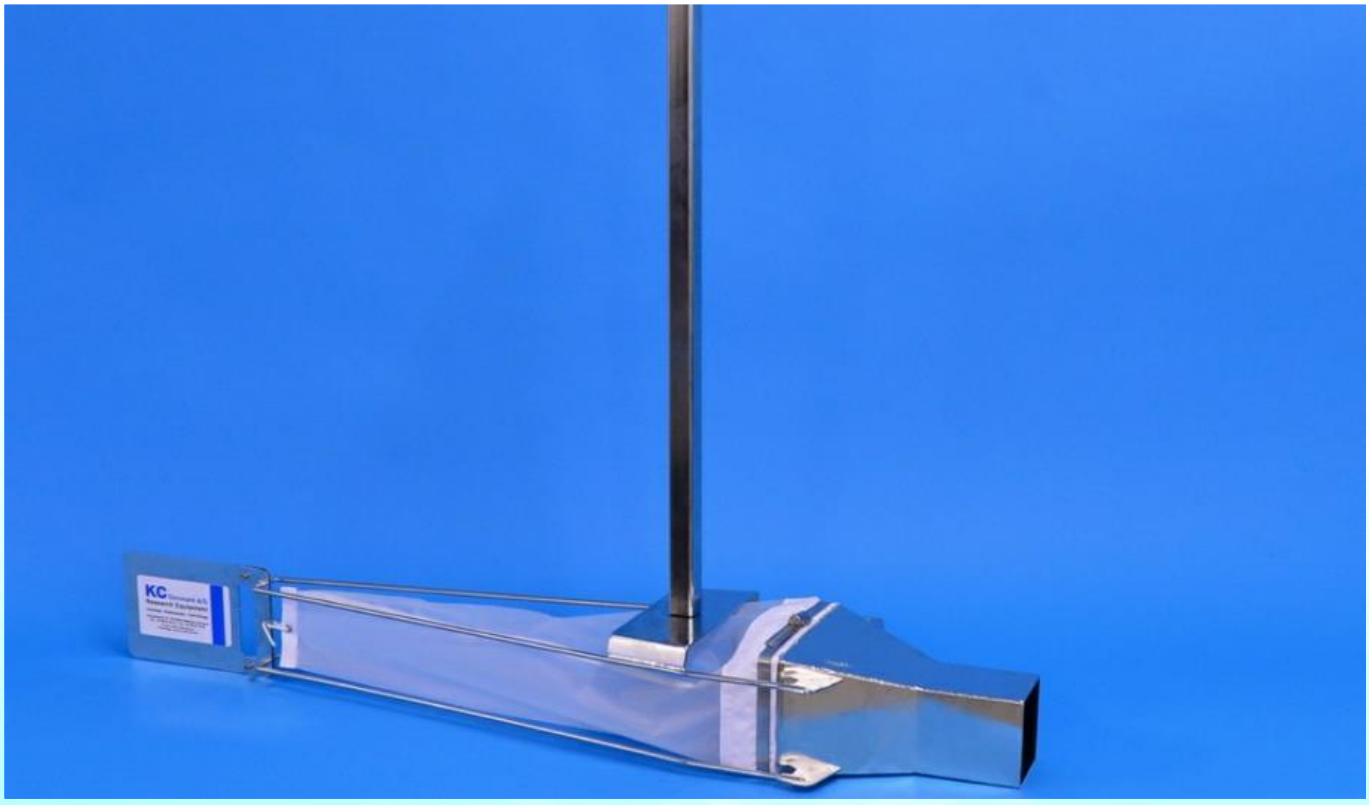
HELLEY-SMITH SAMPLER

Description

Application

The United States Geological Survey (USGS) originally developed the Helley-Smith sampler, and it was designed for collecting sand, silt, gravel, or rock debris carried by streams above the seabed.

The sampler is a good choice for collecting bed load materials, which have a partial size or a density that does not allow great movement above or away from the streambed.

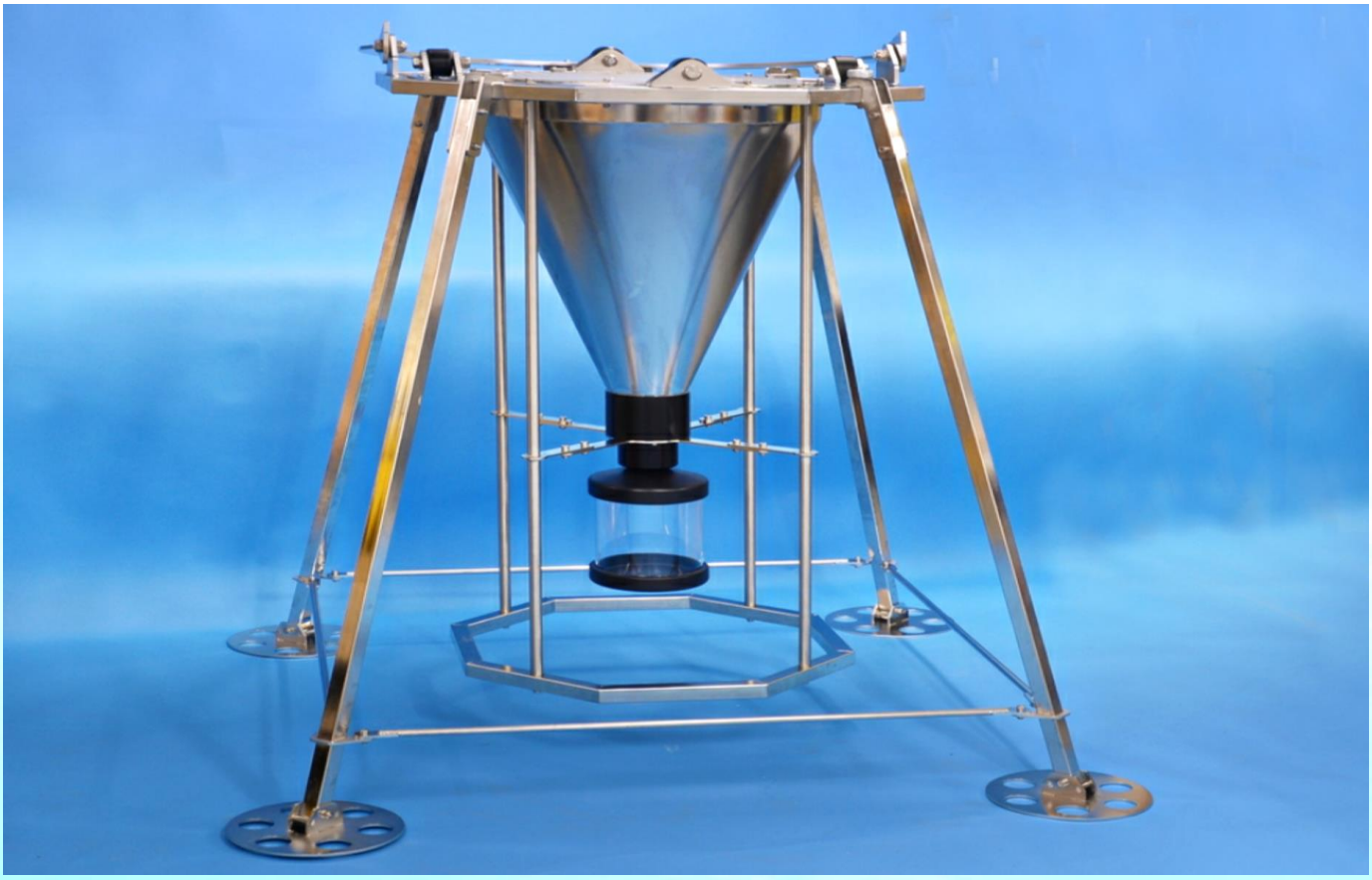


Specifications	*Description*
Net bag for Helley-Smith Sampler	As standard, the sampler comes with 100 µm nets on 3 sides, while the top section of the net is 250 µm, other combinations can be made upon request.
Technical specifications	Net bag: Upper part 250 µm, other parts 100 µm, length 54 cm. Sample area 64 cm². Manufactured from 2 mm AISI 316 stainless steel and 6 mm bars for the rack itself. L x W x H: 96 x 25 x 83 cm. Height without pole: 13 cm. Weight 4.2 kg.

SEDIMENT TRAP 0.25 M²

Description

A high volume sediment trap used to investigate the vertical flux of particles in the water column and the trap can be deployed in both oceans and inland waters. On a sloped seabed, the gyro-hinged design holds the funnel in vertical position, up to 45° depending on the positioning of the rack on the seabed.
The rack comes with 4 inclined, detachable legs made of square AISI 316 steel tubes, 40 x 40 x 3 mm which are held together with 4 pcs of Ø15 mm horizontal steel bars mounted beneath.



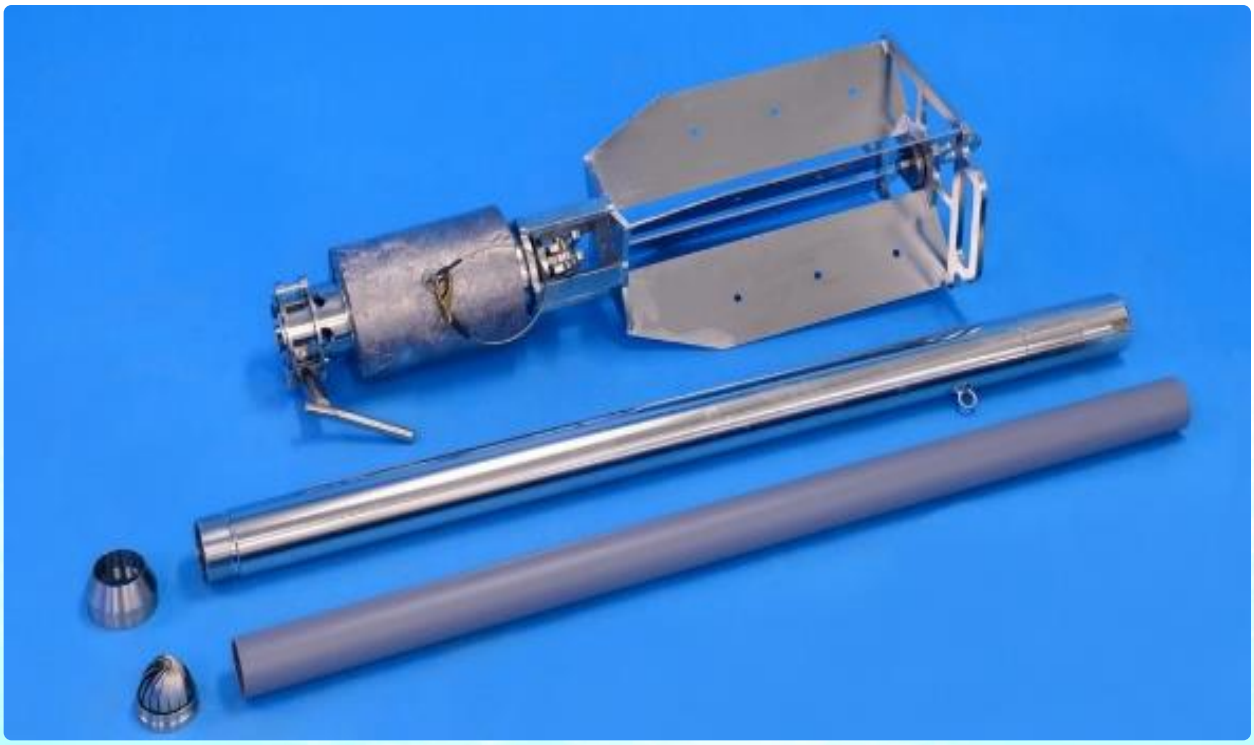
Specifications	*Description*
Capacity:	1 collecting bottle, capacity 5 L.
Maximum depth:	Full oceanographic depth.
Camera option:	Sample depth of max. 500 m, it is possible to attach our camera and light system
Sediment trap	Sediment trap, 0.25 m², with funnel, honeycomb and a 5 L bottle 2 Zinc anodes for protection against corrosion Funnel, inner diameter: Ø57 cm (0,25 m²) Funnel, height: 75 cm Dimensions of top, parallel sides: 85 cm Dimensions of top, parallel sides, no gyro: 64 cm Rack and funnel are manufactured from AISI 316 stainless steel Finish: Electro polish Footprint: 138 x 138 cm Height, deployed: 153 cm Height, incl. the curved rack: 210 cm Weight: 90 kg
Collecting bottle:	Volume: 5 L Diameter: Ø200 mm Height: 280 mm Weight: 2 kg
Camera and light:	Camera with EIS - Electronic Image Stabilization Resolution: 12 MP 2 lights Max. depth: 500 m Mounting requires a bracket Kindly refer our product cameras and lights for more details

SEDIMENT SAMPLER

FREE FALL CORER

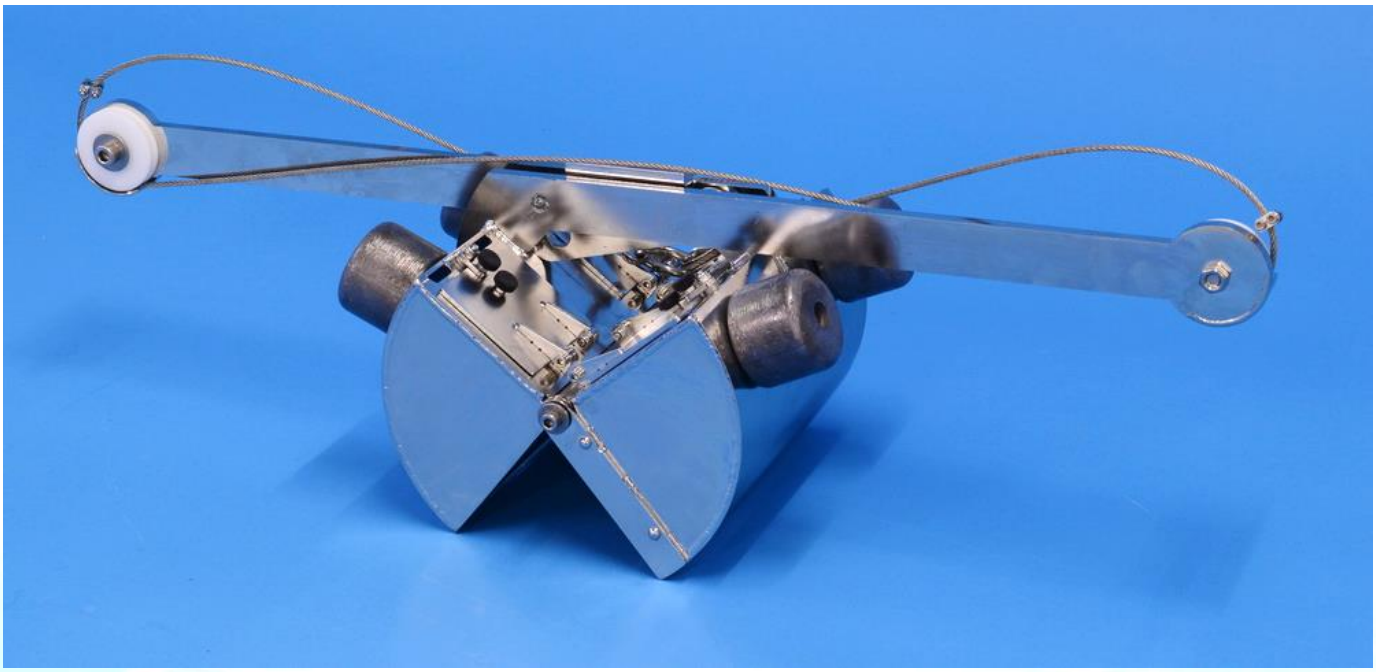
Description

The corer is designed for taking samples in sandy sediment. The corer body as well as the sample tubes are manufactured from AISI 316 stainless steel and the surface has a finish of electro polish. The corer tube comes with a removable carver (nose piece) and at the inside there is an orange peel closing system (core catcher) to prevent the sample from exiting.



Specifications	*Description*
Increase of weight	The top of the corer body has 4 pcs steering fins and it is possible to increase the weight with a maximum mounting of 24 pcs lead weights, 2 kg each. Standard mounting comes with 2 pcs 7 kg lead weights below the fins.
Corer tubes	Dimensions: OD 60/ID 53 mm. Available length of 1000, 1500 and 2000 mm.
Polypropylene liners:	Dimensions: OD 50/ID 46 mm x 995 mm. Available length of 995, 1495 and 1995 mm.
PMMA Acrylic liners:	Dimensions: OD 50/ID 46 mm x 995 mm. Available length of 995, 1495 and 1995 mm.
Weight:	Weight, standard delivery: 38 kg (incl. 1 m stainless steel tube). Weight, max.: (with 24 lead weights and 2 m corer tube): 93 kg.
Height	Total height without corer tube: 760 mm.

VAN VEEN GRAB 250 CM²



Description

Application
Sampler for collecting bottom sediments for biological, hydrological and environmental studies.

General
The grab is based on the Van Veen design. It is made of AISI 316 stainless steel and the surface is electro polished. The grab itself is manufactured from 3 mm plate (250 cm²), 4 mm for 1000 cm², 8 mm for a 2000 or 2500 cm² and 10 mm for 5000 cm².

Higher performance
Can be achieved by adding 4 extra lead weights, 4 x 1 kg, item 13.310-4 (optional).

Lids
The small models are delivered with 4 lids; the 12.310 model Van Veen grab 2000 cm² has 2 lids available. By opening the lid(s) it is possible to take out one or more undisturbed sample to have a look at the stratification of the sediment without releasing the whole sample.

Specifications	*Description*
Sample area	250 cm² - 4 lids
Sample	3,14 L
Dimensions	20 x 20 x 70 cm
Lids	60 x 70 mm each. Qty.: 4
Materials	AISI 316 stainless steel. The grab = 3 mm
Max. operation weight	10,1 kg incl. 4 x 1,0 kg lead weights (standard delivery). Support for extra weights (4 x 1 kg, item 13.310-4). This option comes with bolts and nuts.
Extras:	4 lids
Operation weight gradually reduceable by removing lead weights.	
Shipping weight inclusive packing:	12 kg (16 kg with 4 extra lead weights).
Packing	L x W x H: 60 x 40 x 40 cm

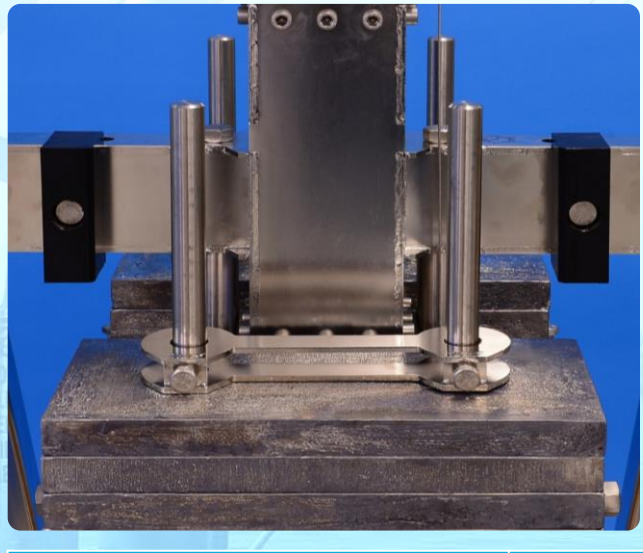
BOX CORER

Box Corer 600 cm²

Description

Application

The box corer's series is a marine geological sampling tool for soft sediment in lakes or oceans. It is deployed from a research vessel with a deep-sea wire and suitable for any water depth. It is designed for a minimum of disturbance of the sediment surface by bow wave effects which is important for quantitative investigations of the benthos micro- to macro fauna, geochemical processes, sampling of bottom water or sedimentology. The main racks for 600 cm² and 1000 cm² box corers are identical; the only difference is the size of the corer tube as well as the inner shovel.



Specifications	*Description*
Lead weights	The weight base is configurable with up to 18 lead weights, each 20 kg (max. 360 kg). Larger capacity on request.
Sample tube	Contents: 30 L, approx. AISI 316 stainless steel Finish: Electro polish Sample area: 600 cm² Weight: 20 kg

Related Divides

BOX CORER 2500 CM²

BOX CORER 7500 CM²

DAY GRAB

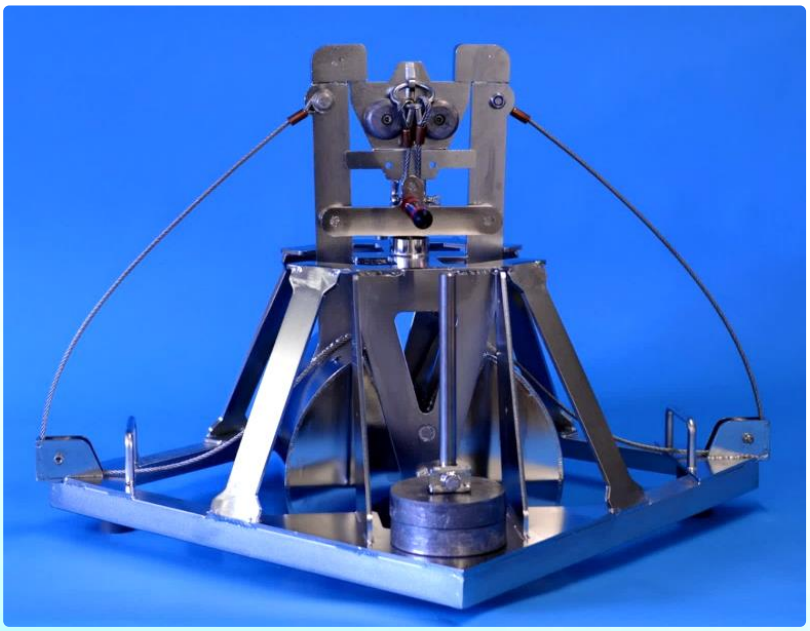
DAY GRAB 1000 CM²

Description

The main frame, grab and releaser are manufactured from AISI 316 stainless steel with an electro polished surface, with overall dimensions of 70 x 70 x 70 cm. Standard

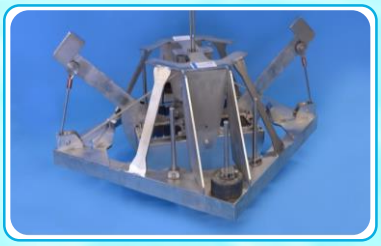
Application

The Day Grab is highly suitable for taking well-defined samples from hard as well as soft sediments.



Specifications	*Description*
Sample volume	Approx. 15 L of sediment.
Sample area	1000 cm²
Operational depth	Full oceanographic depth (no limit
Wire recommendation:	Ø6 mm stainless steel wire, for deployment.
Camera option:	Max. depth of 500 m it is possible adding our camera and light option. For more details kindly refer our product cameras and lights (requires a bracket).
Lids/Shovel:	On top of the grab are mounted 4 pcs of lids, (120 x 120 mm each), so you can take out some sample without emptying the grab. The inner shovel is based on Van Veen Grab 1000 cm² design and is made out of 6 mm AISI 316 stainless steel.
Safety split	The Day Grab is equipped with a security clip to avoid an unintended release of the grab causing injury.
Emptying or loading the Day Grab	Rack with protection grating. Heavy-duty design so you can empty or load Van Veen, Ekman and other grabs. Diameter of stainless steel bars: 10 mm. Space between the bars: 15 mm.

Related Divides

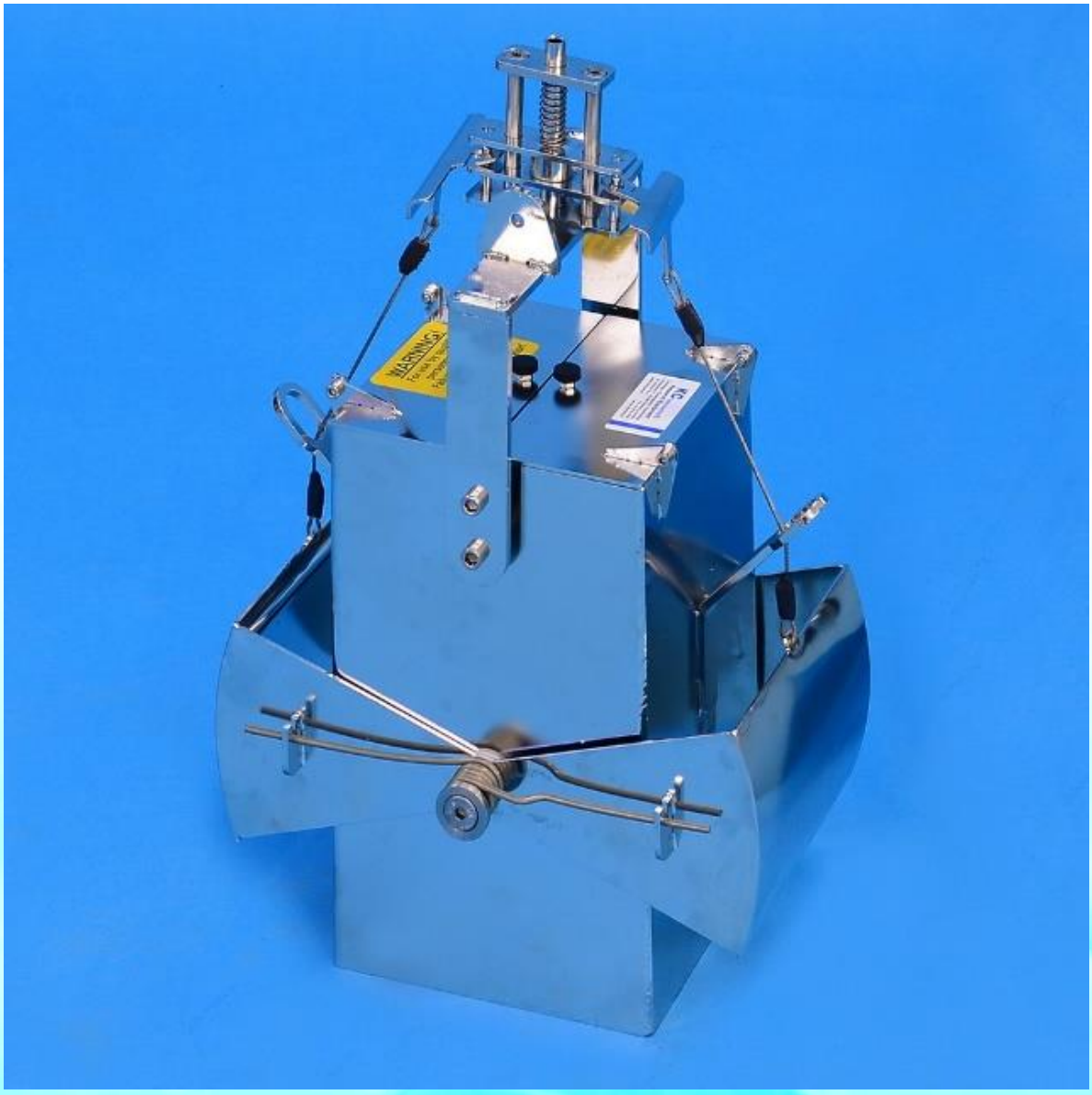


DAY GRAB 2000 CM²

Ekman Sediment Sampler - 225 cm²

Description

The Ekman bottom corer is based on the Ekman design. The sediment sampler is made of AISI 316 stainless steel.
To be deployed by means of a cord, recommended diameter 5 mm. Comes with a drop messenger for closing the grab.



Related Divides

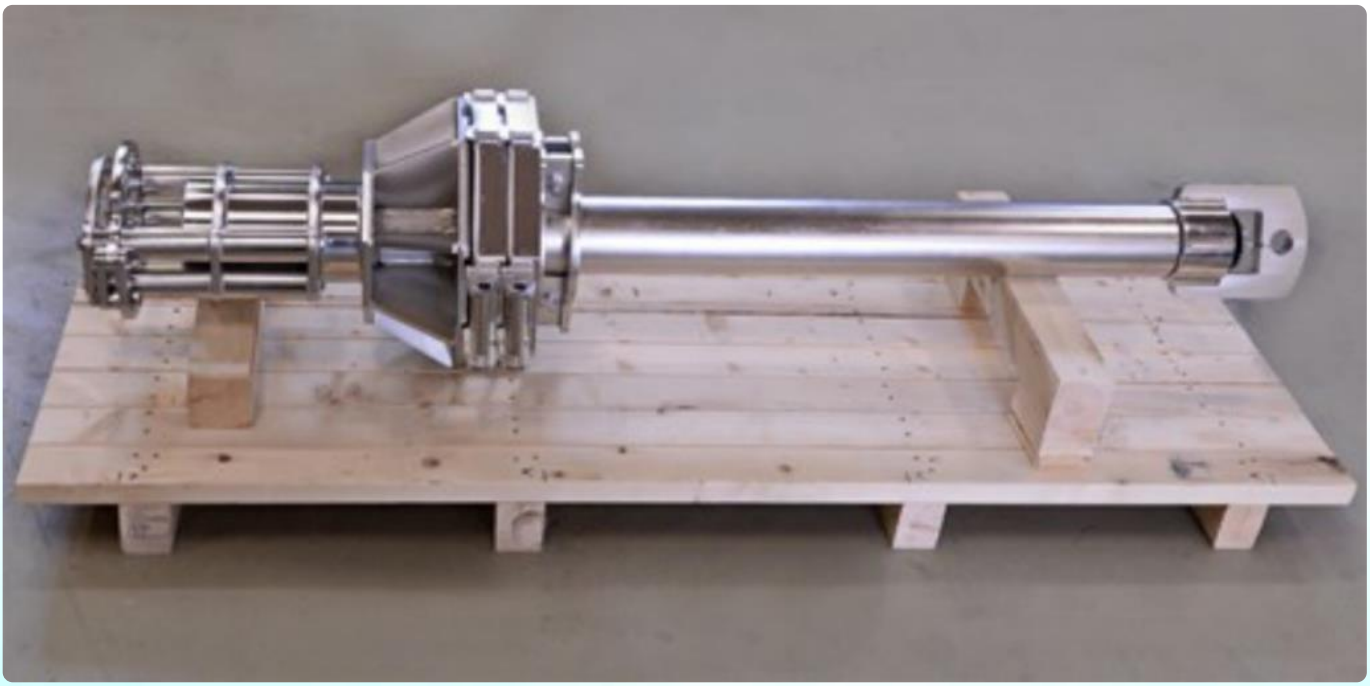
EKMAN SEDIMENT SAMPLER - 400 CM²

GRAVITY CORER Ø140 MM

Description

Application

The gravity corer is designed for taking samples in hard sandy sediment. Detachable core tubes with a length of 5 m. Up to 25 m in soft or muddy sediment.



Specifications	*Description*
Main body and weight base	The main body and the weight base are manufactured from AISI 316 stainless steel. The weight base has a capacity of 20 pcs. of weights, 80 kg/each made from lead and secured in a stainless steel container with handles. Max. weight of the corer: 2000 kg. On request the base can be made to support a larger number of weights. At the top there is a non return flap and a strong rubber packing.
Coring tube	The coring tube is made of AISI 316 stainless steel tube with a finish of electro polish. Length 5 m, outer/inner diameter of 140 mm/130 mm. The tube has room for an internal, thin-walled PVC liner, diameter 125/121 mm
Carver with orange peel:	The carver holds an orange peel (AISI 316 stainless steel), allowing the sediment sample to pass up into the tube, and prevents exiting of sediment when the coring tube is redrawn form the seabed.
Coupling device for tubes:	The coupling device for the extension of tubes is made from AISI 316 stainless steel, diameter 152 mm/141 mm.
Mounting of the equipment:	The coring body, the coring tube, the coupling device for tubes and the carver is fastened with special steel nails to be hammered into the right angled holes.
Weight base:	On request the weight base can be made for a maximum load of 2100 kg.
Support for piston corer functionality:	Adding the extension kit allows the gravity corer to work as a piston corer thus adding more versatility to the product. You can switch forth and back within few minutes.
Extruding the sample:	A ratchet device and a piston rod can be used for the extrusion.

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