

Box Corer 1000 cm²



80.100 - Box corer, 1000 cm², 50 cm penetration:

Application:

The KC Denmark box corer series is a marine geological sampling tool designed for collecting soft sediment samples from lakes or oceans. It is deployed from a research vessel using a deep-sea wire and is suitable for use at any water depth. The design minimizes disturbance of the sediment surface caused by bow-wave effects, which is essential for quantitative investigations of benthic micro- to macrofauna, geochemical processes, bottom water sampling, and sedimentological studies.

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.

Lead weights:

The weight base is configurable with up to 18 lead weights, each 20 kg (max. 360 kg). Larger capacity on request.

Easy handling:

When the rack is lifted by a winch the integrated handles allow an easy and swift guidance of the box corer.

80.101-50 - Sample tube:

- Contents: 40 L, approx.

- Standard
- AISI 316 stainless steel, 4 and 10 mm
- Finish: Electro polish
- Sample area: 1000 cm²
- Overall dimensions: 40 x 37 x 56 cm
- Weight: 31 kg

80.102-50 - Special sample tube:

- Contents: 40 L, approx.
- Removable front plate for easy access to the sample
- AISI 316 stainless steel
- Finish: Electro polish
- Sample area: 1000 cm²
- Overall dimensions: 40 x 37 x 56 cm
- Weight: 31 kg

80.105-50 - Sample tube:

- Contents: 40 L, approx.
- Polycarbonate
- Transparent
- Only for very soft sediment
- Sample area: 1000 cm²
- Overall dimensions: 40 x 37 x 56 cm
- Weight: 10,5 kg

80.300- HY - Hydraulic carriage:

- For sample tube transport
- Support for sample tube, AISI 316 stainless steel
- Inclusive hydraulic lift
- L x W x H: 130 x 56 x 124 cm
- Weight: 127 kg

In-situ photo from Vietnam:

Description:	
Box Corer frame	50 x 50 x 5 mm square tube, AISI 316 stainless steel.
Mounting and releaser	AISI 316 stainless steel.
Sample tube	4 mm electro polished AISI 316 stainless steel.
Shovel and shovel arms	AISI 316 stainless steel.
Wires	AISI 316 stainless steel.
Wire guidance	Brass/Polypropylene.
Weights	Lead.
Dimensions:	
Frame:	
Length and width:	110 x 80 cm.
Height	110 cm.
Total height of fully mounted Box Corer	210 cm.
Total height of box corer when the sample has been taken	360 cm.
Shipping, dimensions and weights	162 x 92 x 158 cm, gross weight 510 kg.

Sample tubes (optional)	
600 cm ² :	29 x 20,7 cm.
1000 cm ² :	34,5 x 29 cm.
Weight:	
Total weight of complete Box Corer with 6 weights (600 cm ²):	App. 290 kg.
Total weight of complete Box Corer with 6 weights (1000 cm ²):	App. 300 kg.
Weight of each lead weight on weight station:	20 kg.

Description	Ordering No.
Box Corer, complete, 600 cm² , consist of: 1 pc box rack, 1 pc 600 cm ² box sample tube AISI 316 stainless steel, standard inner shovel and 4 pcs. 20 kg lead weights (80 kg)	80.000
Spare parts for 600 cm²	
Sample tube, AISI 316 stainless steel, standard 600 cm ²	80.001
Special sample tube (AISI 316 stainless steel), 600 cm ² with removable front plate	80.002
Inner shovel for 600 cm ² , AISI 316 stainless steel, weight 3,2 kg	80.003
Small carriage for sample tube transport, AISI 316 stainless steel	80.004
Lead weight, 20 kg. each	80.200
Box Corer, complete, 1000 cm² , consist of: 1 pc box rack, 1 pc 1000 cm ² box sample tube AISI 316 stainless steel, standard inner shovel and 4 pcs. 20 kg lead weights (80 kg)	80.100
Spare parts for 1000 cm²	
Sample tube, AISI 316 stainless steel, standard 1000 cm ²	80.101
Special sample tube (AISI 316 stainless steel), 1000 cm ² with removable front plate	80.102
Inner shovel for 1000 cm ² , AISI 316 stainless steel, weight 4,2 kg	80.103
Lead weight, 20 kg. each	80.200
Small carriage for sample tube transport, AISI 316 stainless steel	80.300

Source: KC Denmark A/S

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