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*The CPT factory*

# MOSTAP Soil Samplers

for high quality in-situ soil samples



## features

- proven push sampling technique; thick-walled piston samplers
- used in combination with a CPT system or other pushing system
- samples with a diameter of 35, 65 or 70 mm
- suitable versions for various soil types
- special versions for contaminated soil
- 70 mm samples can be extended with 1 m-sections

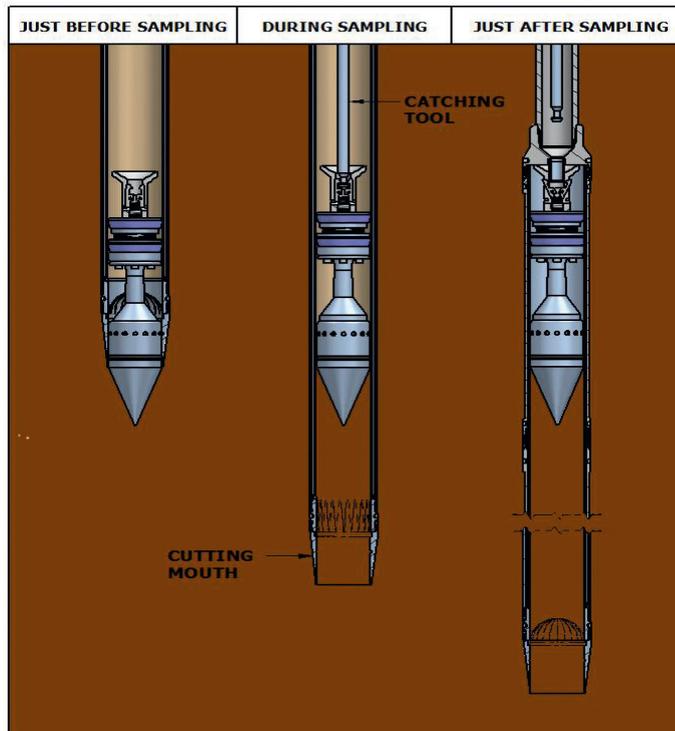
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# MOSTAP Soil Samplers, for high quality in-situ soil samples

## introduction

Soil sampling is a fundamental part of geotechnical soil investigation. Many geotechnical laboratory tests require “undisturbed” soil samples. The MOSTAP soil sampler is a fixed-piston sampler with a proven technique of minimizing soil disturbance and able to obtain samples of various diameters and lengths.

## how the MOSTAP works



The MOSTAP is pushed by CPT rods or casing tubes to the required starting depth. A wire-line catching tool is lowered inside the string and unlocks the cutting mouth.

Subsequently, the MOSTAP is pushed down while the conical tip is held stable by the wire-line, acting as a piston. The MOSTAP sample tube slides beyond the conical tip. Once the tube reaches the required end depth, the catching tool releases the tip and can be pulled out. Then the string including the MOSTAP with soil sample can be retracted (to remove the sample). The use of a core catcher and sock is optional and will depend on the soil type and sample conditions.

## sample length

The MOSTAP 70 provides the option to extend the sample length with portions of 1 m. The sample tubes are 1 m and positioned at the same height as the outer tubes and therefore dismountable one by one.

## ensuring sample quality

For MOSTAP 35/65/70:

- a nylon sock ensures minimal friction during sampling; the nylon sock is cut to the required size and slides into a plastic liner tube
- closing caps and a plastic liner tube ensure minimal loss during transportation and storage

For MOSTAP 70, to ensure less disturbances of the soil:

- an apex angle of 40 degrees
- a cutting shoe with a 6 degree cutting edge
- an internal drain that eliminates the negative pressure created during retraction

## MOSTAP Soil Samplers categorized

In the standards EN 1997-2:2007 and NEN-EN-ISO 22475-1:2006 three sampling method categories are defined (table 3.1, page 34). For regular soil conditions the MOSTAP 35, 65 & 70 fall into sampling category B that can achieve quality class 2 samples. In favourable soil conditions these thick-walled piston samplers can be ranked in category A achieving class 1 samples.

	MOSTAP 35	MOSTAP 65	MOSTAP 70
Sample diameter (mm)	35	65	70
Apex angle (degrees)		60	40
Cutting shoe (degrees)		30	6
Sample lengths (mm)		995 or 1,495 or 1,995	1,000 extendable by 1 m sections
Weight per sample length (kg)	12 or 14.8 or 17,5	21 or 24,5 or 30	24 + 12 kg per 1 m extension
Length tool per sample length (mm)	1,559 or 2,059 or 2,559	1,676 or 2,176 or 2,676	1,740 + 1 m per extension
Diameter sampler tool (mm)	60		90
Pushed by means of	36 mm CPT rods	56 mm casing tubes	36 mm CPT rods or 56 mm casing tubes
Samples suitable for	profiling & material identification	shear/oedometer/triaxial tests	
Recommended for use in	sand, silt, clays	soft-stiff cohesive/organic soils	soft-stiff cohesive/organic soils & sensitive soils
For polluted soil	stainless steel sample tube	not available	stainless steel sample tube

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