

Abstract

Method and device for extracting a pile element from a ground

The invention relates to a method and a device for extracting a pile element from a ground. With this method a position of the pile element in the ground is determined by means of a detection unit, and, depending on the determined position, a first bore with a first drilling tool is made reaching an upper end of the pile element, whereby the first bore is provided as cased bore with an outer guide tube; when extracting the first drilling tool the guide tube remains in the ground, a second drilling tool with a hollow drill shank is brought to the pile element through the guide tube, the pile element is at least partially overdrilled by the second drilling tool, and the drill element is taken up in the drill shank and the overdrilled pile element is extracted from the ground. The invention furthermore relates to an arrangement for extracting a pile element from a ground by means of a drilling rig at which a rod is arranged, comprising a guide tube that is disposed to be rotatably drivable at the mast and that is insertable in the ground for producing an exit opening for the pile element, a first drilling tool that is arranged to remove soil material at least in the guide tube through the pile element, and a second drilling tool comprising a hollow drill shank that is formed to at least partially receive the pile element, whereby the second drilling tool can be brought to the pile element through the guide tube approximately coaxially, whereby at least one detection unit is provided, which is designed to determine a position of the pile element in the ground.

(Fig. 1)