

Depth vibrator with adjustable imbalance

Abstract

5 The invention relates to a depth vibrator for compacting soil,
comprising: a rotary drive (3); a drive shaft (4), which is
rotatingly drivable about a rotary axis (A) by the rotary
drive (3) in a first rotation direction (R1) and in an
opposite second rotation direction (R2); a primary mass body
10 (5), which is connected non-rotatably to the drive shaft (4)
and rotates together with the latter about the rotary axis
(A); a secondary mass body (6), which is movable into a first
rotation position (P1) relative to the primary mass body (5)
by rotation of the drive shaft (4) in the first rotation
15 direction (R1) and which is movable into a second rotation
position (P2) relative to the primary mass body (5) by
rotation of the drive shaft (4) in the second rotation
direction (R2), wherein in the first and second rotation
position (P1) the secondary mass body (6) is jointly rotatable
20 can be rotated together with the primary mass body (5) about
the rotary axis (A); wherein the centre of mass (S6) of the
secondary mass body (6) and the centre of mass (S5) of the
primary mass body (5) have different radial distances from the
rotary axis (A).

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Figure 1