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Claims

1. Rotary drilling tool (10) for producing a bore in the ground with
   - a tubular base body (12),
   - a cutting means (30) arranged on an underside of the base body (12) for removing ground material,
   - a receiving space (14) in the base body (12) for receiving ground material and
   - an end plate (16) which is arranged on an upper side of the base body (12) and has at least one through-opening (18),

   characterized in that
   in the area of the at least one through-opening (18) a pump means (20) is arranged, by which a flow of flush liquid through the at least one through-opening (18) can be generated and which extends radially along the end plate (16), the pump means (20) is designed as a screw pump, and a connecting means (40) for connecting the tubular base body (12) to a drill drive instrument is mounted on the upper side of the base body (12).

2. Rotary drilling tool according to claim 1,
   characterized in that
   the pump means (20) is arranged on an upper side or underside of the end plate (16).

3. Rotary drilling tool according to claim 1 or 2,
   characterized in that
   the pump means (20) is designed for conveying the flush liquid into the receiving space (14) of the base body (12) or out of the receiving space (14) of the base body (12).

4. Rotary drilling tool according to any one of claims 1 to 3,
   characterized in that

on an outer and/or inner side the tubular base body (12) has a flight for conveying flush liquid and/or removed ground material.

5. Rotary drilling tool according to any one of claims 1 to 4,
characterized in that
the cutting means (30) has at least one rotatably supported roller bit (32) and/or at least one stationary round shank bit (33) and/or at least one stationary removal tooth (34).

6. Rotary drilling tool according to claim 5,
characterized in that
several rotatably supported roller bits (32) and/or stationary round shank bits (33) and/or stationary removal teeth (34) are mounted in a ring-shaped arrangement on the underside of the base body (12).

7. Rotary drilling tool according to claim 5 or 6,
characterized in that
the at least one or several rotatably supported roller bits (32) and/or the at least one or several stationary round shank bits (33) and/or the at least one or several stationary removal teeth (34) are mounted in an exchangeable manner on the base body (12).

8. Rotary drilling tool according to any one of claims 1 to 7,
characterized in that
the screw pump has at least one helical conveyor flight (22) and/or at least one inclined turbine blade (24).

9. Rotary drilling tool according to any one of claims 1 to 8,
characterized in that
the screw pump has an axial length which is smaller than the axial length of the tubular base body (12).

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10. Rotary drilling tool according to any one of claims 6 to 9,
characterized in that
the rotary drilling tool (10) is a core drill which is designed for producing a drill core and for receiving the drill core in the interior of the base body (12).

11. Rotary drilling tool according to any one of claims 7 to 9,
characterized in that
the rotary drilling tool (10) is a drilling bucket which is designed for receiving extensively removed ground material in the interior of the base body (12).

12. Drilling apparatus for producing a bore in the ground with a mast and a drill drive for driving a drilling tool in a rotatable manner,
characterized in that
a rotary drilling tool (10) according to any one of the preceding claims is provided.

13. Method for producing a bore in the ground with a drilling tool,
characterized in that
a rotary drilling tool (10) according to any one of the preceding claims is used.