

# Job Report

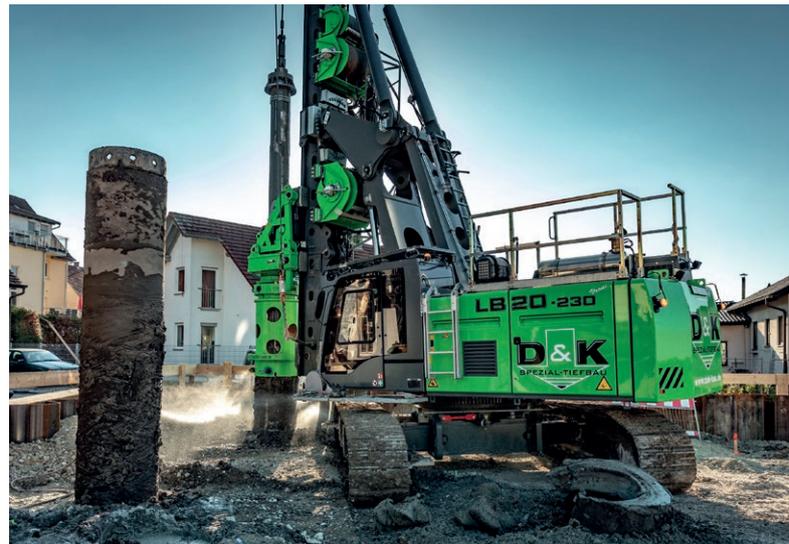
## LB 20 with BAT 230

**“The machine convinces with maximum flexibility. This is significant in order to be able to serve all construction sites for medium-sized deep foundation!”**

Edgar Renz  
Senior Construction Manager,  
D&K Spezialtiefbau



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### Situation

The building ground presents a major challenge for the expansion of the Federseeklinik in Bad Buchau. At the foundation level, the soil proves to be subject to settlement with layers of back-fill, turf and marl. Therefore, the load of the new building must be absorbed in deeper more stable layers of soil. The project is split into two building phases. In the first

phase a nursing home is being erected and in the second a welfare centre and sheltered housing. The local company D&K Spezialtiefbau is successfully carrying out the foundation work using the drilling rig LB 20 and the wheel loader L 514 Stereo.

### Implementation

The LB 20 is equipped with a high performance rotary drive from Liebherr's own range. With a torque of 230 kNm the BAT 230 delivers the prerequisite for short working cycles. Using the Kelly method, D&K are installing 84 piles with maximum diameters of 1180 mm and a total length of approximately 900 m. The greatest drilling depth is 16 m. For the

complete project the company is installing about 42 t of steel and 964 m<sup>3</sup> of concrete. In order to prevent penetration of soil or hydraulic subsidence at the bottom of the borehole, D&K are installing the piles partly under water surcharge. Despite these difficult conditions, an average of 3.5 piles per day can be installed with the LB 20.

### Advantages

Mobility is of utmost importance for the LB 20. Thanks to its compact design, the LB 20 can be transported complete. This enables quick mobilization between jobsites and so provides for economic operation of the machine. The BAT

series of rotary drives delivers the torque for all common drilling methods. These convince, above all, with their automatic torque regulation and adjustable speed ranges.

#### Technical data LB 20 - Kelly drilling

Max. torque:	230 kNm
Max. winch line pull:	180 kN
Max. crowd force:	300 kN
Max. drilling depth:	52.3 m

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