

## Job Report

# Drilling Rigs

# LB 28-320 and LB 36-410

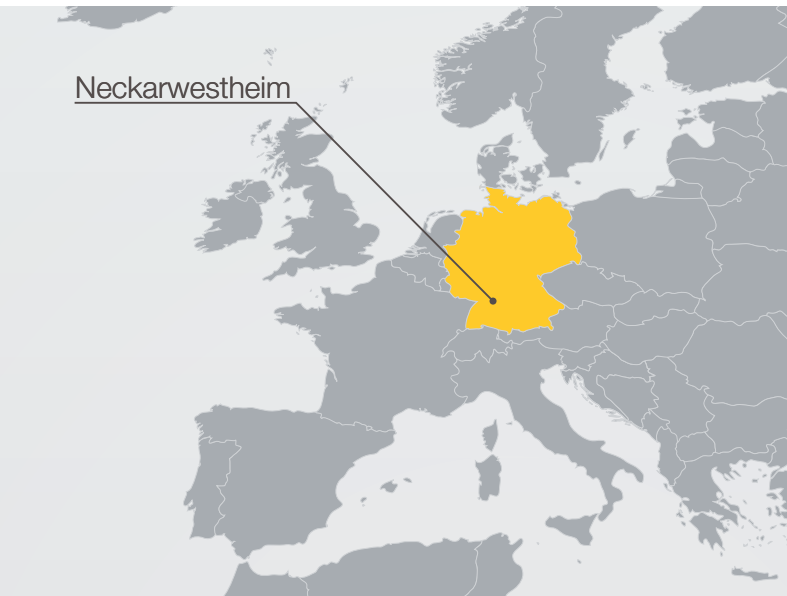


„The leader adjustment of more than one metre provides a huge advantage, especially when positioning the machine in front of the drilling hole and when changing the tools.“

**Juergen Schutte**  
Foreman – Keller Grundbau GmbH

# LIEBHERR

Neckarwestheim



## Situation

EnBW Kernkraft GmbH (EnKK), Germany's third largest power concern, has the aim to quickly and efficiently decommission nuclear power plants in Baden-Württemberg – consistent with the interests of the energy revolution. The required infrastructure is currently being built. The buildings are planned for the processing of demolition materials and the storage of radioac-

tive waste. Almost 6.6 billion euros have been reserved by the German power concern for the decommissioning of its nuclear reactors in Neckarwestheim and Philippsburg. A period of two and a half years is estimated for the construction and commissioning of the facilities.

## Task

In Neckarwestheim the company Keller Grundbau GmbH carried out the foundation work for the new decommissioning centre. The centre's processing should reduce the amount of radioactive waste to a minimum. The foundation work entailed drilling

depths amounting to a total of 12,000 m. For this Keller Grundbau GmbH chose three Liebherr drilling rigs: one LB 28-320 and two LB 36-410.

## Solution

The three Liebherr drilling rigs used to install the pile foundations were equipped for Kelly drilling. In addition to single drilled piles with a diameter of 1.20 m and a depth of 20 m, a drilled pile wall was erected. The piles were in cohesive soil, cased down to the final depth and inserted between 2 and 4 m in hard rock. The Liebherr drilling rigs convinced with their high

performance. This was especially remarkable since the soil conditions proved to be challenging. Each machine produced three piles per day, a total of approximately 60 m of drilling. The work started in April 2016 and was completed in September of the same year.

### Technical Data: LB 28-320 / LB 36-410 – Kelly Drilling

Operating weight:	98.7 t / 115 t
Max. torque:	320 kNm / 410 kNm
Engine power:	390 kW / 390 kW

Max. crowd force:	400 kN / 400 kN
Max. drilling depth:	70 m / 88 m
Max. drilling diameter:	2,300 mm / 3,000 mm