

Job Report

# HS 8030 HD in Dredging Operation



**LIEBHERR**

Karlsruhe  
Germany



### Situation

The grab dredger “Zander”, which belongs to the Waterways and Shipping Office Mannheim (WSA), has recently returned to operation following a period of renovation. With a width of 8.6 m and a length of approximately 30 m it is ideally suited for the maintenance of the waterway beds and locks, as well as the upkeep of safety embankments. Rock material and gravel can be effortlessly removed or precisely position-

ed by the on-board Liebherr duty cycle crawler crane type HS 8030 HD. “There’s always gravel in the Rhine - if you are quiet you can permanently hear the gravel hitting the ship’s propeller,” says the machine operator Herr Horn. In that case the WSA will never run out of work. Within a short period new material is washed up.

### Application

The vessel is predestined for operation in shallow waters as it has a draught of about 1.1 m. In general it operates in water depths up to a maximum of 10 m. Grabs with capacities of either 1 m<sup>3</sup> or 2 m<sup>3</sup> can be fitted to the HS 8030 HD, depending on requirements. For work with large stones an orange

peel grab (polyp) is occasionally used. “The Upper Rhine is still a rough water. In July the water depth is approximately 4.5 m, but when depths increase to 7.5 m the water flows at high speeds and is hard to negotiate.”

### Operation

The HS 8030 HD belongs to the 30-tonne class of machine. In order to save weight and also to ensure stable positioning, WSA decided to install the machine on a fixed base column. Due to the low installation height of the machine the vessel’s centre of gravity is improved and therefore provides

for easier operation. The Waterways and Shipping Office has purchased a total of five machines type HS 8030 HD, all of which will operate on similar vessels. Positive experience with the machine and local service were important factors in the decision to purchase from Liebherr.

#### Technical data: HS 8030 HD

Boom length:	21 m
Pull force winches:	2 × 10 t
Rope diameter:	24 mm
Engine power:	180 kW at 2000 rpm