
LV 20 and LV 20 F

Vibrator
www.liebherr.com

LIEBHERR

Deep foundation machines



LV 20

With the LV 20 Liebherr offers a powerful and innovative high-frequency vibrator for the installation or extraction of steel sheet piles, steel pipes or other piling elements. Through the use of state-of-the-art components the vibrator is particularly easy to maintain. It is leader mounted on the carrier machines of the LRB series. The rope crowd systems of these machines provide the necessary push and pull forces.

Key Features

- Eccentric moment : 0-20 kgm / 0-145 ft lb
- Max. centrifugal force: 1160 kN / 260,778 lbf
- Max. frequency : 2500 rpm
- Dynamic weight including clamp: 2900 kg / 6,395 lb
- Total weight including clamp: 4400 kg / 9,700 lb

Application

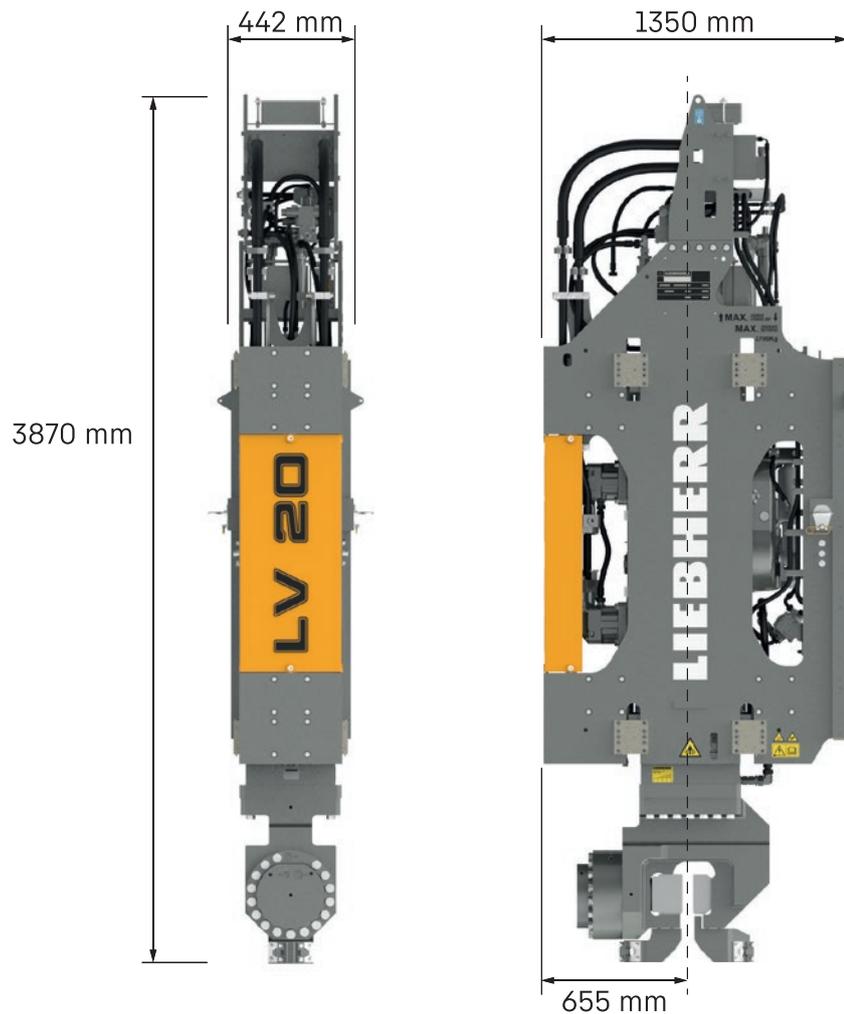
- Sheet piling

Symmetrical suspension and new linear guide
more efficiency, higher endurance, less maintenance

Cooling system
preheating of gearbox, more efficient cooling and lubrication

Amplitude adjustment
maintenance-free, robust, with continuous control

Large dimensioned main bearings
longer service life



LV 20 F

The high-frequency vibrator LV 20 F is specially designed for all common methods of soil improvement. This includes the installation of vibro-replacement columns or concrete vibration columns. The flexible suspension of the exciter block in the yoke counterbalances the angular errors between the piling element and the leader, which is unavoidable in this application. This also minimises the loss of performance as well as the wear on all parts.

Key Features

- Eccentric moment : 0-20 kgm / 0-145 ft lb
- Max. centrifugal force: 1160 kN / 260,778 lbf
- Max. frequency : 2500 rpm
- Dynamic weight including clamp: 3200 kg / 7,055 lb
- Total weight including clamp: 4700 kg / 10,362 lb

Application

- Soil improvement

No linear guide

Means no wear on the vibrator and piling element

Additional cooling system

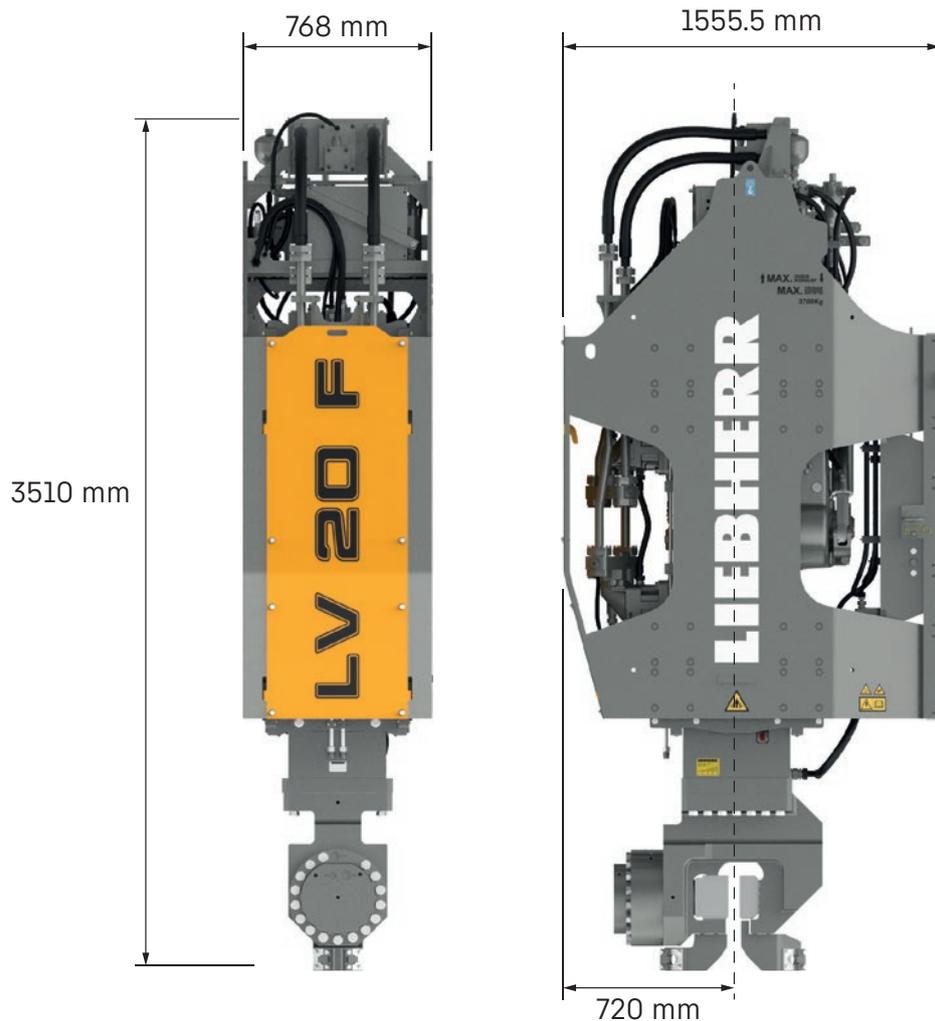
for continuous operation of the vibrator

Amplitude adjustment

maintenance-free, robust, with continuous control

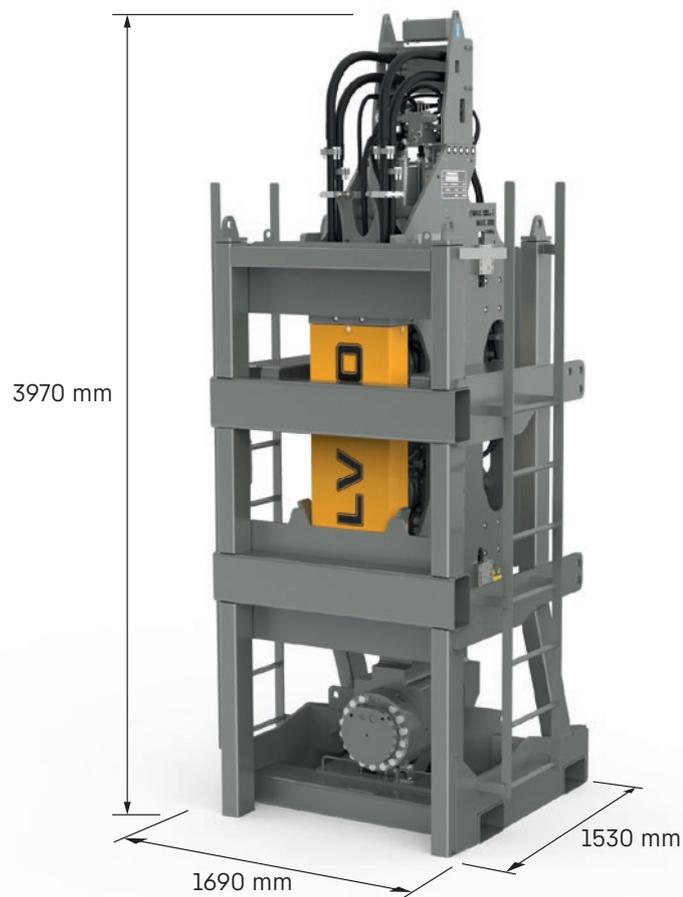
Large dimensioned main bearings

longer service life



Transport frame

LV 20



LV 20 F



Weights	LV 20	LV 20 F
Vibrator	ca. 3610 kg	ca. 3810 kg
Clamp	ca. 850 kg	ca. 850 kg
Feeder aid	ca. 30 kg	ca. 30 kg
Transport frame	ca. 1260 kg	ca. 1090 kg
Total weight	ca. 5750 kg	ca. 5780 kg