

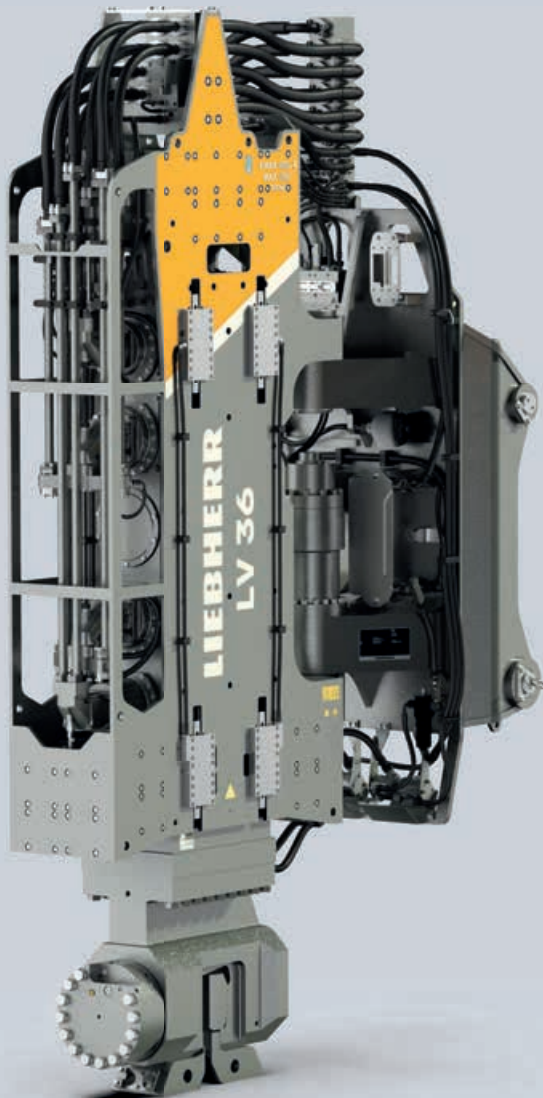
EN-US

LV 36 and LV 36 F

Vibrators
www.liebherr.com

LIEBHERR

Deep foundation machines



LV 36

With the LV 36 Liebherr provides a powerful and innovative high frequency vibrator for installing and extracting steel sheet piles, steel pipes and other piling elements. Thanks to the use of state-of-the-art components, the vibrator is particularly easy to maintain. It is leader-mounted on the LRB series of carrier machines. These deliver the necessary pull and push force through their rope crowd systems. The integrated rotation device allows for a swing range of +/- 87° and the pivot point close to the piling axis combined with robust design enable precise and comfortable operation.

Key features

- Static moment: 0-260 ft lb
- Max. centrifugal force: 429,385 lbf
- Max. frequency: 2400 rpm
- Dynamic weight including 529,109 lbs clamp: 13,889 lbs
- Total weight including 529,109 lbs clamp: 24,615 lbs (LV 36-23)*
- Transport weight including 529,109 lbs clamp: 26,345 lbs (LV 36-23)*
- Vibrator width in piling axis: 1.8 ft
- Swing range vibrator: +/- 87°

*Weight when vibrator is mounted on a LRB 23.

When mounted on a LRB 355.x, the weight increases by 705 lbs.

Application

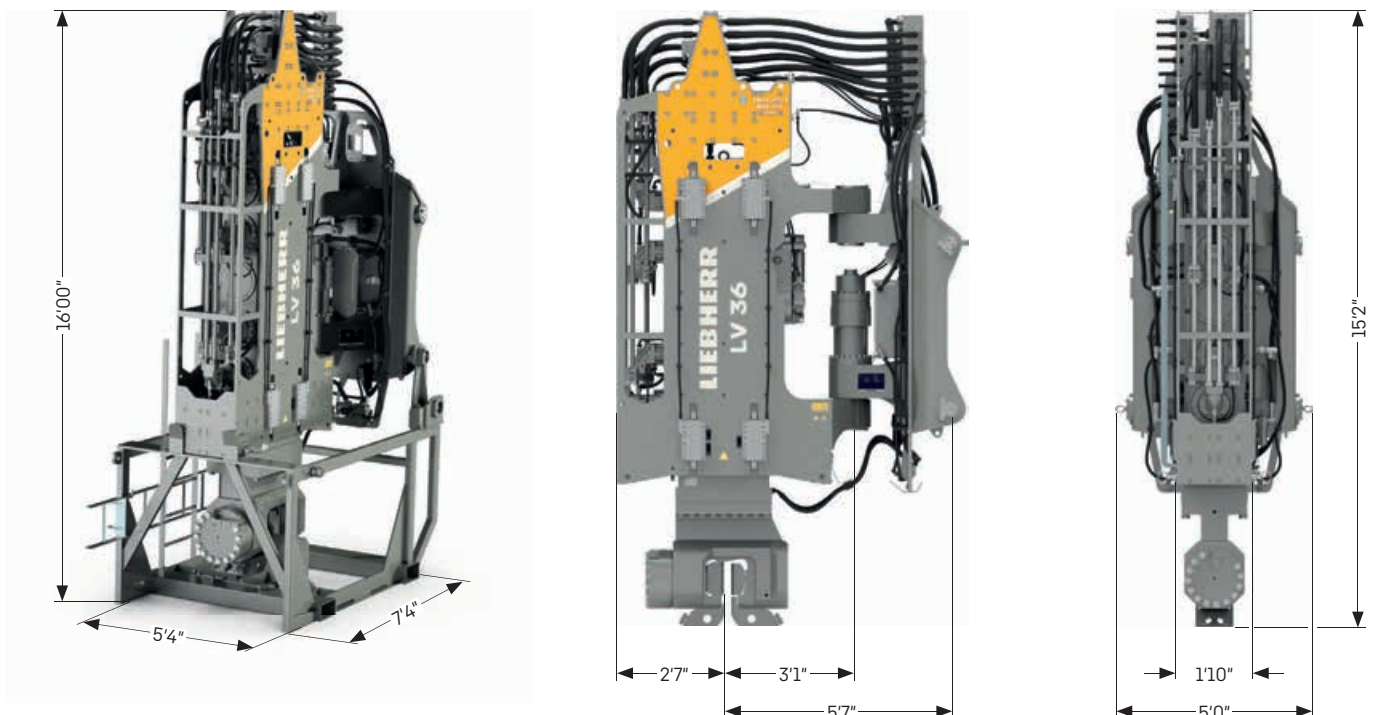
- Sheet piling

Symmetrical layout and new linear guiding
more efficiency, higher endurance, less maintenance

Cooling system
preheating of the block, more efficient cooling and lubrication

Eccentric adjustment
maintenance-free, robust, with continuous control

Largely dimensioned main bearings
longer service life



LV 36 F

The high frequency vibrator LV 36 F is specially designed for all common methods of ground improvement. This includes the installation of vibro-replacement columns or vibrated cast-in-place piles. The flexible suspension of the exciter block in the yoke counter-balances the angular errors between piling element and leader, which are unavoidable in this application. This also minimises the loss of performance as well as the wear on all parts.

No linear guide
means no wear on the vibrator and piling element

Additional cooling system
designed for continuous operation of the vibrator under tough conditions

Eccentric adjustment
maintenance-free, robust, with continuous control

Largely dimensioned main bearings
longer service life

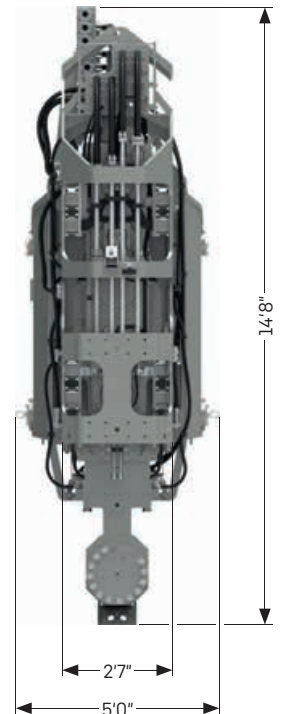
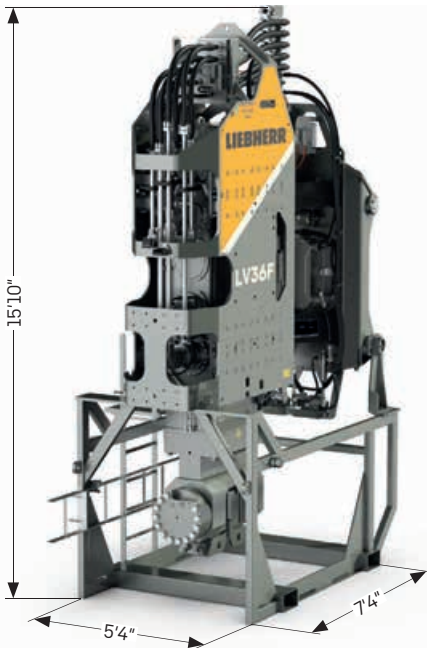
Key features

- Static moment: 0-260 ft lb
- Max. centrifugal force: 429,385 lbf
- Max. frequency: 2400 rpm
- Dynamic weight including 529,109 lbs clamp: 14,341 lbs
- Total weight including 529,109 lbs clamp: 24,570 lbs*
- Transport weight including 529,109 lbs clamp: 26,312 lbs*
- Swing range vibrator: +/- 50°

*Weight when vibrator is mounted on a LRB 23.
When mounted on a LRB 355.x, the weight increases by 705 lbs.

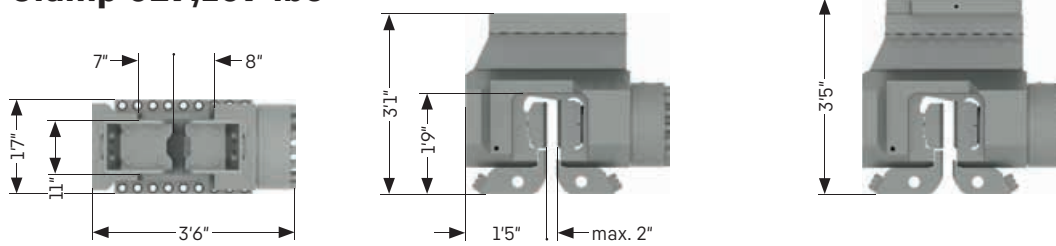
Application

- Ground improvement



Technical data clamps

Clamp 529,109 lbs



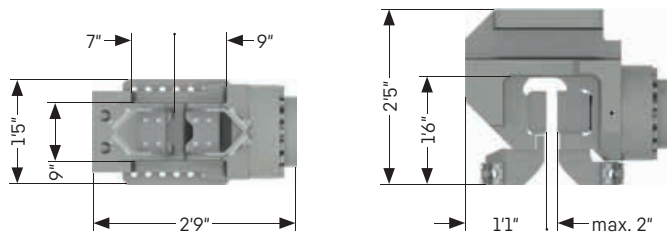
Clamp 529,109 lbs

Weight lbs 3,968

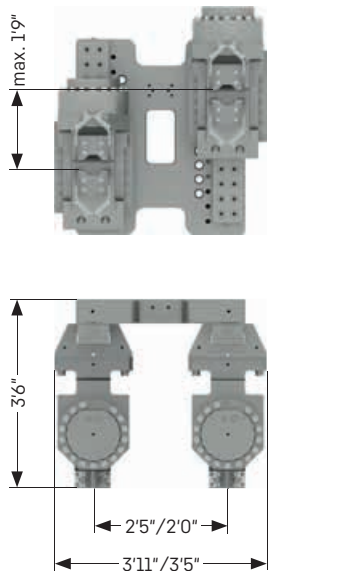
Clamp 529,109 lbs with intermediate slab

Weight including intermediate slab (for clamp rotated 90°) lbs 4,630

Clamp 308,647 lbs (2 pcs. required)



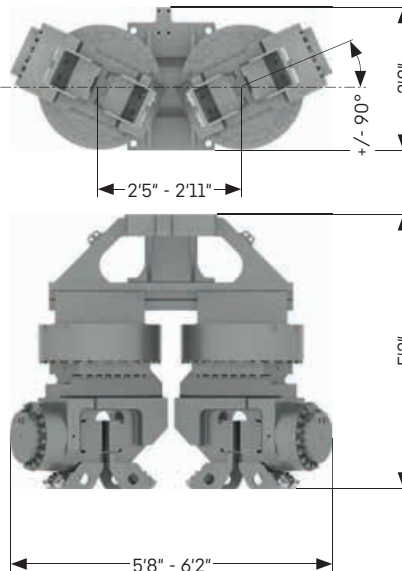
U profile sheet piles



Weight

Total weight lbs 6,614

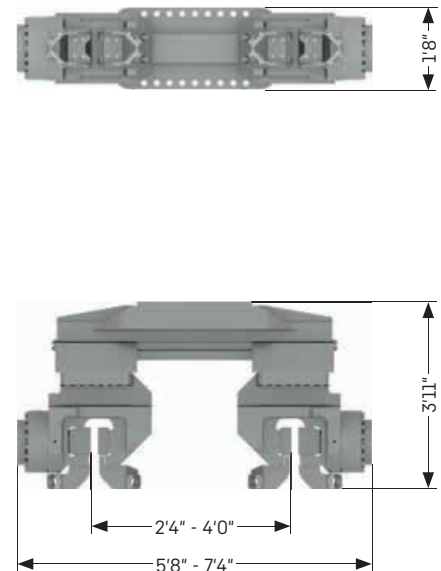
Z profile sheet piles



Weight

Total weight lbs 9,259

Caisson beam and clamps



Weight

Total weight lbs 7,055