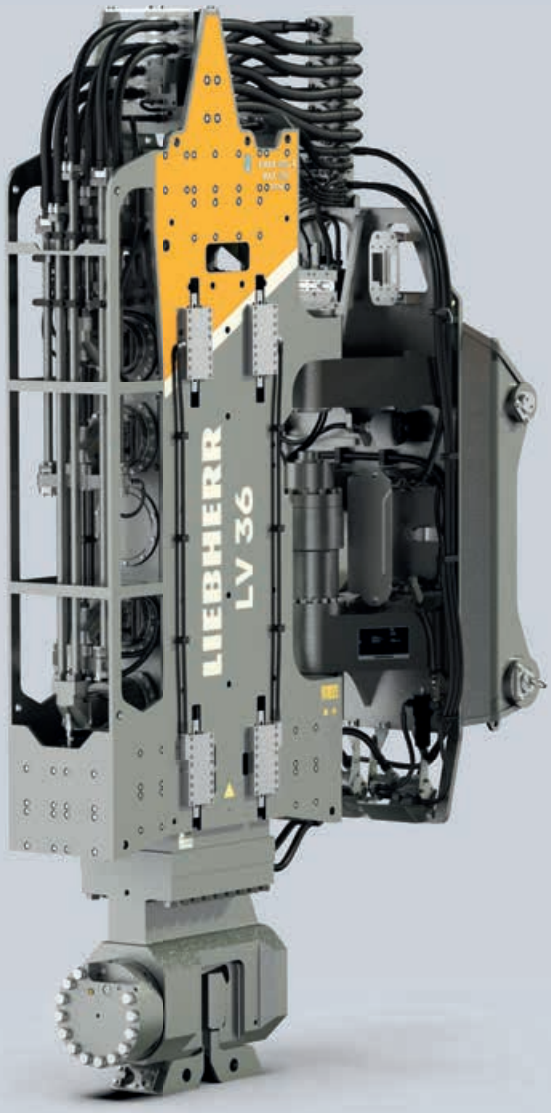
EN

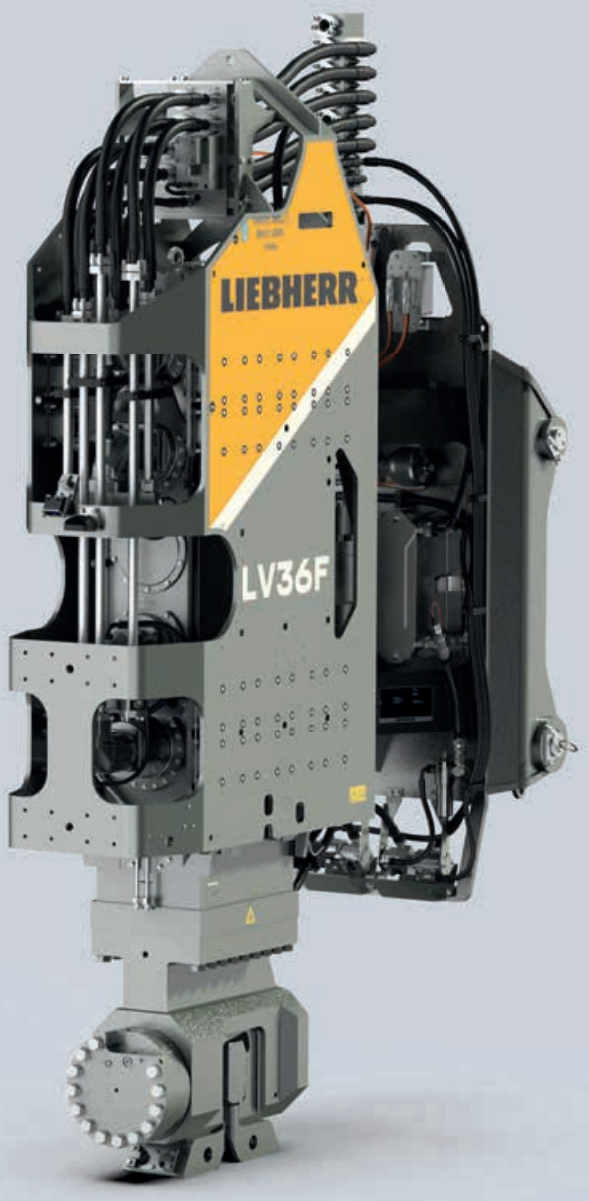
LV 36 and LV 36 F

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.

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

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

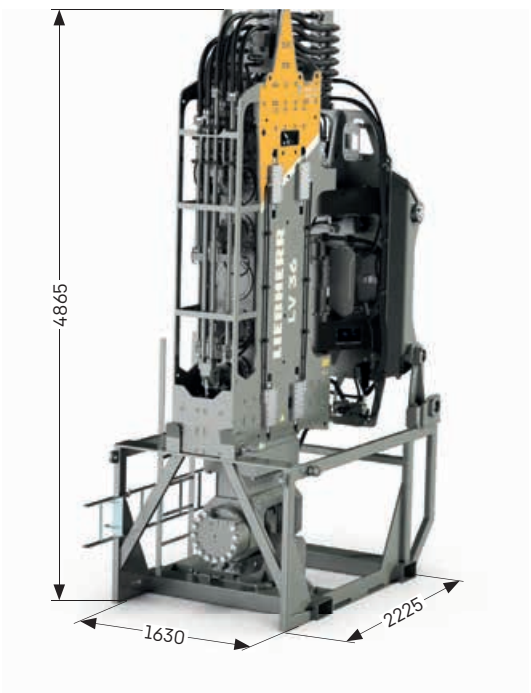
Eccentric adjustment
maintenance-free, robust, with continuous control

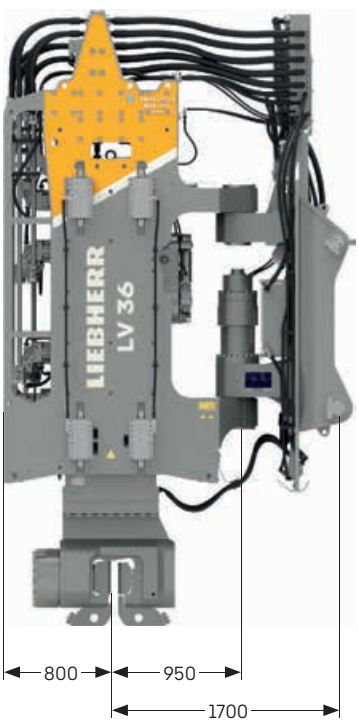
Largely dimensioned main bearings
longer service life

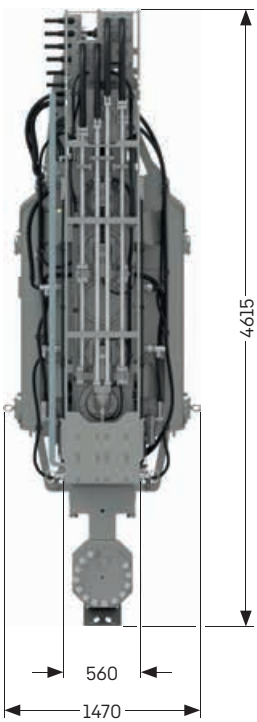
Key features
- Static moment: 0–36 kgm
- Max. centrifugal force: 1910 kN
- Max. frequency: 2400 rpm
- Dynamic weight including 240 t clamp: 6300 kg
- Total weight including 240 t clamp: 11165 kg (LV 36-23)*
- Transport weight including 240 t clamp: 11950 kg (LV 36-23)*
- Vibrator width in piling axis: 560 mm
- Swing range vibrator: +/- 87°

*Weight when vibrator is mounted on a LRB 23.
When mounted on a LRB 355.x, the weight increases by 320 kg.

Application
- Sheet piling







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 counterbalances 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

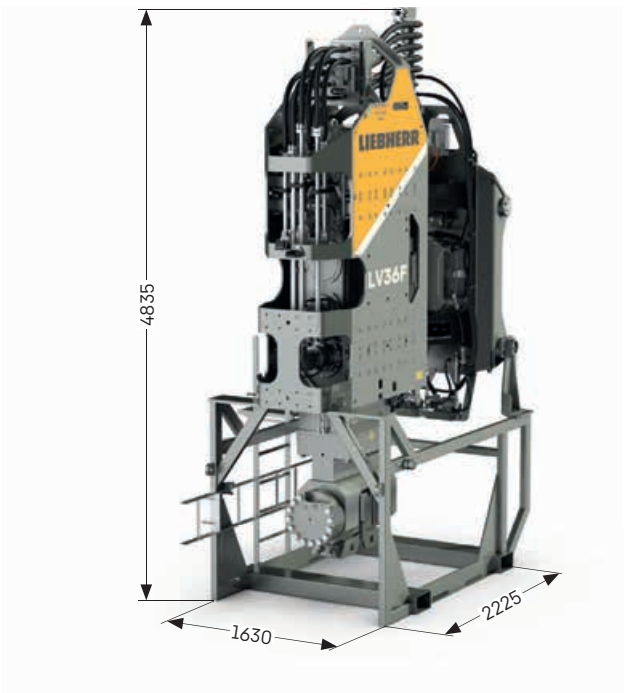
Eccentric adjustment
maintenance-free, robust, with continuous control

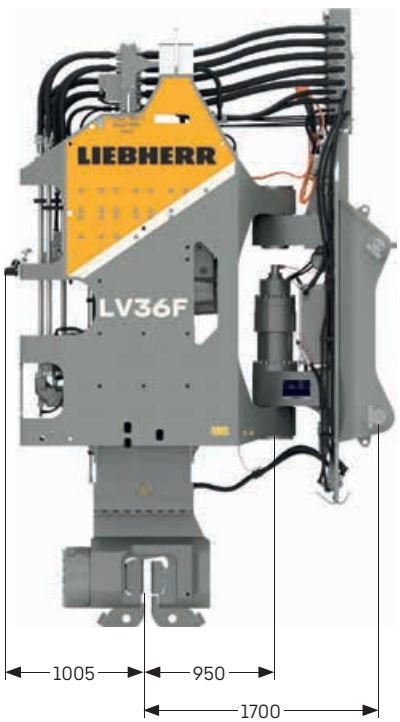
Largely dimensioned main bearings
longer service life

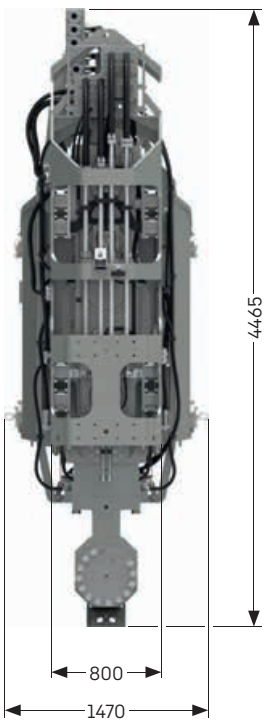
Key features
- Static moment: 0–36 kgm
- Max. centrifugal force: 1910 kN
- Max. frequency: 2400 rpm
- Dynamic weight including 240 t clamp: 6505 kg
- Total weight including 240 t clamp: 11145 kg*
- Transport weight including 240 t clamp: 11935 kg*
- Swing range vibrator: +/- 50°

*Weight when vibrator is mounted on a LRB 23.
When mounted on a LRB 355.x, the weight increases by 320 kg.

Application
- Ground improvement

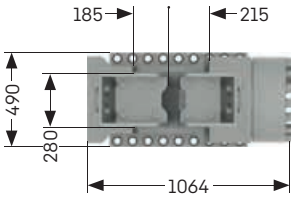


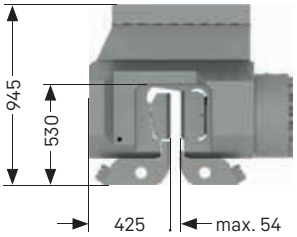


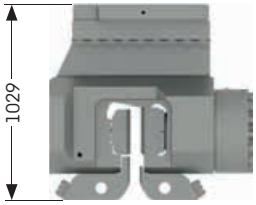


Technical data clamps

Clamp 240 t



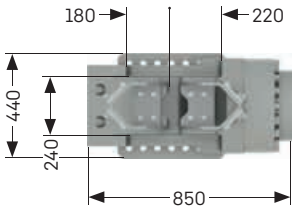


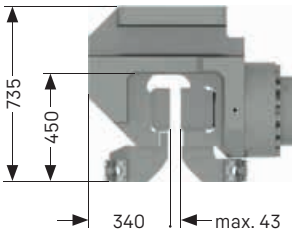


Clamp 240 t		
Weight	t	1.8

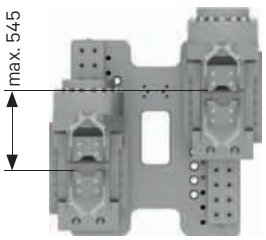
Clamp 240 t with intermediate slab		
Weight including intermediate slab (for clamp rotated 90°)	t	2.1

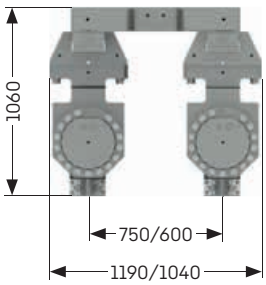
Clamp 140 t (2 pcs. required)





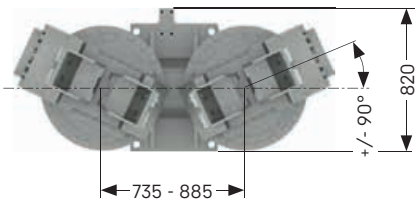
U profile sheet piles

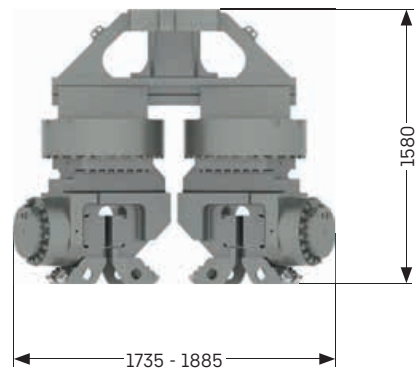




Weight		
Total weight	t	3.0

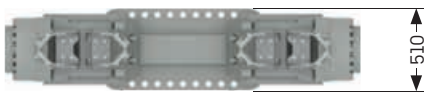
Z profile sheet piles

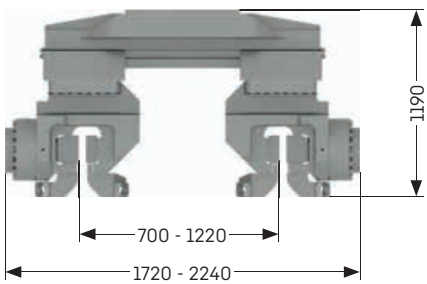




Weight		
Total weight	t	4.2

Caisson beam and clamps





Weight		
Total weight	t	3.2

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