

Lift Shaft Sling JLS

Installation instructions



Only use the Lift Shaft Sling in its unaltered original condition. Any modifications, additions or welding work are strictly prohibited. This may cause the load to fall and result in personal injury.

Caution: Do not load the Lift Shaft Sling JLS until a concrete strength of at least $f_{ck,cube} = 25 \text{ N/mm}^2$ has been reached.

Both nuts must be secured with a high-viscosity, high-strength, preferably coloured threadlocker (e.g. LOCTITE® 275 or equivalent) to prevent accidental loosening.

Assembly instructions exemplary. Assembly steps apply to the JLS 25 und JLS 40.

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Product description

The Lift Shaft Sling JLS is an anchor point retrofitted in the shaft ceiling for material loads, e.g. lift cars without passenger transport, during installation and maintenance work.

They are specially designed for areas away from the edge. It should be noted that they do not serve as fall protection.

They are installed in the reinforced concrete ceiling with a minimum concrete quality of C25/30 with a protruding loop.



Our experts will be happy to help you – by e-mail to tb.jta@pohlcon.com or by phone on +49 30 68283-802.

Scope of delivery

- Pressed threaded sleeve including identification ring with galvanised threaded rod
- Galvanised, flexible steel wire rope eyelet secured against unscrewing
- Anchor plate with centred hole
- Precision steel tube in special grade, galvanised
- 2x hexagon nuts (nut/lock nut) with washers
- Labelling tag
- Labelling tag on the anchor plate
- Supplied as a ready-to-install component with a load capacity of 25 kN and 40 kN

Assembly instructions

- The Lift Shaft Sling JLS is only supplied pre-assembled.
- Installation of an incomplete or damaged Lift Shaft Sling is not permitted!
- The Lift Shaft Sling may fail if third-party parts are used. It may therefore only be used in perfect original condition.
- The Lift Shaft Sling must not be brought into contact with chemicals or other aggressive substances.
- All instructions for use and application of products that are used in conjunction with the JLS must be observed.
- Before operation/use, the operator must ensure that the anchor point is only put into operation after it has been checked for defects by a competent person and all defects found have been rectified.
- Refer to the inspection logbook.

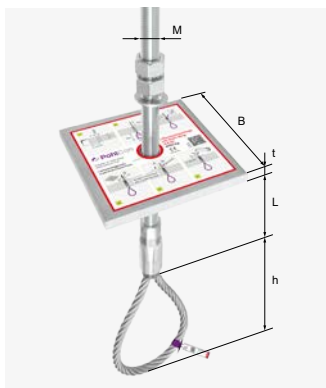
Storage



Anchor point for material loads according to EC Machinery Directive 2006/42/EC.

Before installation, the data on the following page should be taken into account in the dimensioning and checked during installation.

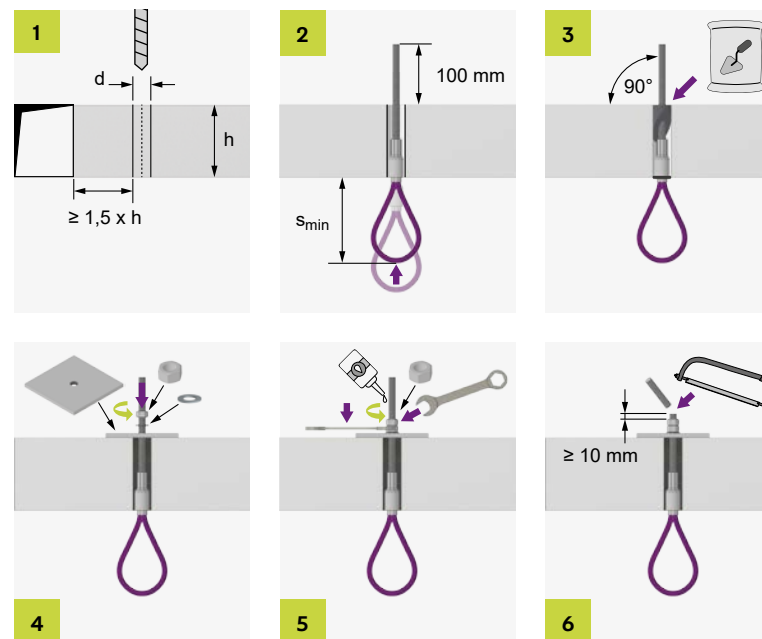
Dimensions



Type	JLS 25	JLS 40
Load capacity	2,500 kg	4,000 kg
WLL	25 kN	40 kN
M	20 mm	20 mm
L	550 mm	560 mm
h	225 mm	250 mm
B	160 mm	200 mm
t	12 mm	15 mm
Bore diameter	32 mm	40 mm
Minimum sling	225 mm	250 mm
Fillet radius	17 mm	22 mm
Weight	4,3 kg	7,6 kg

The design of the anchors is the responsibility of the respective planner. The verification of the load transfer through the anchor plate into the reinforced concrete ceiling and its transmission must be provided individually. To ensure safety, planning may only be carried out by qualified personnel.

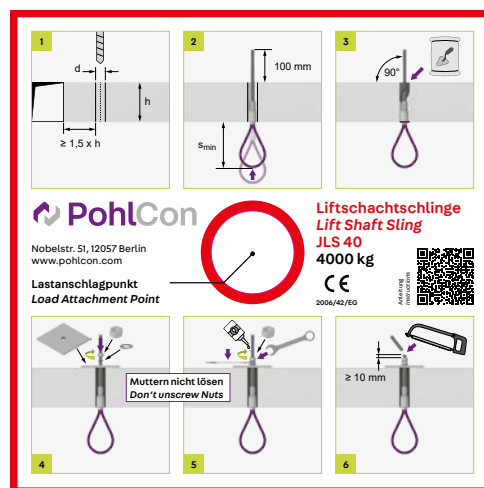
Assembly



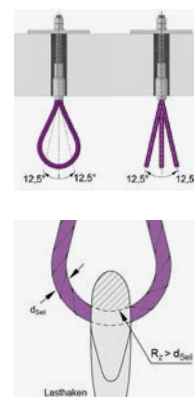
1. Creating a borehole.
2. Insert the anchor into the drill hole and secure it temporarily to prevent it from falling out. The entire anchor sleeve should be flush with the surface, leaving only the rope loop visible.
3. Filling the drill hole with grouting mortar.
4. After the grout has hardened, install the anchor plate including washer, nut and lock nut.
5. Tighten the nut and locknut hand-tight/ secure against unintentional loosening.
6. If necessary, cut off the protruding thread end at least 10 mm above the lock nut.

Labelling

The Lift Shaft Sling JLS is labelled on the steel plate placed above the reinforced concrete ceiling. A tag is also attached to the load loop. Important information can be found on both the label and the tag. This includes the load class, the maximum permissible weight and warnings about safe use.



Application notes



The Lift Shaft Sling JLS is only designed for loads caused by centric tension. Loads caused by diagonal pull from an angle of 12.5° must not act on the load loop and must therefore be strictly avoided.

When selecting slings, the specified radii of curvature R_z must be observed. Slings with radii of curvature R_z that are too small can lead to failure or damage to the rope loop even under nominal load. It is essential to use slings with the minimum radius of curvature R_z .

This product should only be handled by trained and qualified personnel. If there is any uncertainty regarding the condition of the system, a qualified person must assess its usability! Use of the sling by untrained personnel can cause operating errors and components to fall, posing serious risks to health and safety. Proof of sufficient load-bearing capacity of the shaft ceiling (thickness, reinforcement, load transfer) must be provided by the responsible planner.

According to the Machinery Directive 2006/42/EC, the operating coefficients were defined as follows:

- Operating coefficient of metallic components: $\hat{Y} = 4$
- Operating coefficient for ropes: $\hat{Y} = 5$
- The dimensions of the plate shown were selected so that they offer fourfold safety against localised compression from a concrete quality of C20/25.



The use of anchor points with inadequate or missing labelling is not permitted.