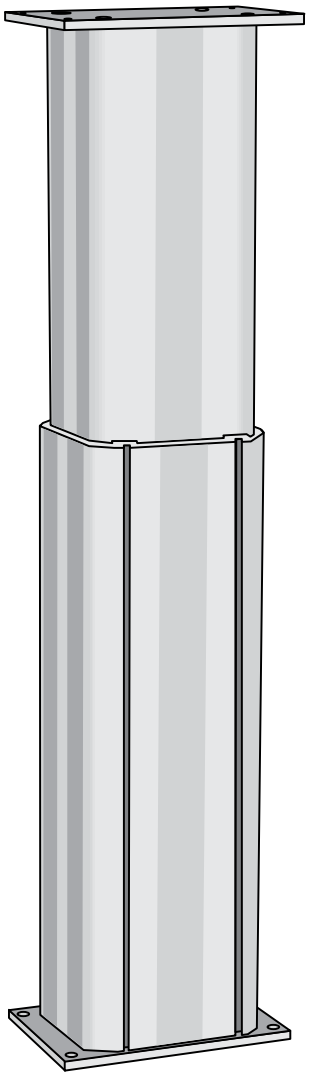
Lift Column

Installation instructions



Description

Areas of application

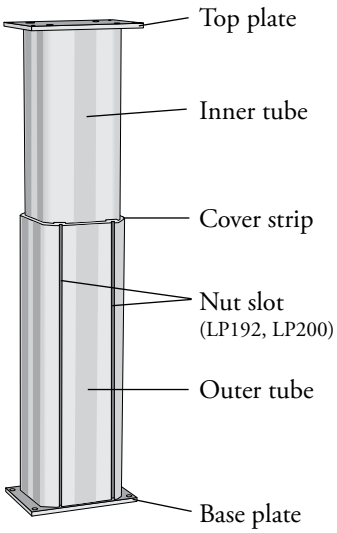
Gigant lift columns are supposed to be built in and used to adjust the working position of workstations, f xtures or other machines. Other areas of application can be dangerous, so instructions from Gigant must be carefully studied and followed.

- Lift columns should not be used during hot work such as welding without specif c precautions being taken
- Lift columns must not be suspended from a ceiling or walls
- Lift columns must not be used to lift people

Attention

Design

T e image to the right shows the lift column's various components.



Function

T e lift function of the lift column is driven by an electric actuator housed inside the telescopic element. T e actuator is powered by a low voltage transmitted via an external power source/control unit and regulated by a controller. Integrated limit switches stop the column at its top and bottom positions.
An integrated Hall ef ect sensor (all lift columns with an 8-pin connector) measures and compares pulses between two lift columns in order to synchronize them and achieve precise parallel operation.

Accessories

Examples of accessories from the Gigant range:

- Control unit for single or parallel operation with one or more motor groups
- Control unit bracket for attaching control units to the outer tube's nut slots (LP192, LP200)
- Controllers, such as table or hand control, foot pedal
- Reinforced base for f oor installation
- Base frames with adjustable feet for freestanding installation

Installation instructions

Inaccurate handling can cause malfunction. Please make sure that all the steps in this assembly instruction always are implemented in order to ensure correct and safe function of the product.

Attention

- Compare the specif cations of the product with your current application. Only when your specif cations are within the products specif ed range can the product be used.
- Follow local laws and regulations
- Use the product in its original design without any changes.

Transport damage

Inspect the goods as soon as they arrive and report any transport damage direct to the forwarder.

Transport/handling

Storage: time in original packaging should be kept short. Keep in a cool dry place, protected from light and dust.
Transport: depending on design the lift columns can weigh 30 kg or more. Crush hazard: should the product tip over it can cause crush injuries. Suitable lifting equipment should be used to ensure safe handling of the product during transport and assembly.

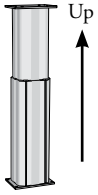
Risk of crushing

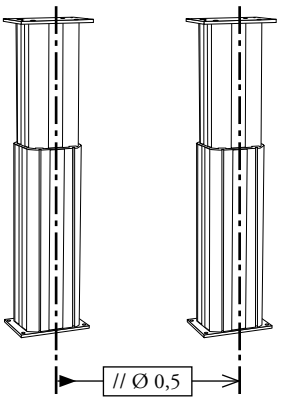
Assembly

- Gigant lift columns must be installed indoors in well-lit premises that are at room temperature.
- Ensure that the lift column is level by assembling it on a stable surface. For freestanding applications, base frames are available as an accessory. Control units and controllers must be positioned to avoid damage during operation.
- Gigant lift columns must be positioned at least 120 mm from walls or surrounding objects to avoid the risk of crushing. Ensure that there is no contact with surrounding objects and no risk of crushing as the lift column is raised and lowered.

Risk of crushing

- When installing mechanically-linked lift columns for parallel operation, the columns must be assembled so that any deviation in parallelism is less than 0.5 mm per 1,000 mm. If this is not possible, one or more attachments must be f exible enough to absorb deviations.
- All Gigant lift columns are to be assembled with the inner tube positioned upwards as shown in the accompanying illustration if not otherwise specif ed.





Safety instructions

Ensure that the distance between the lifting mechanism and adjacent objects is such that there is no risk of crushing. Do not place objects within the lift columns' range of movement, neither above nor below. T e force produced by the lift columns can cause serious personal injury and damage if used incorrectly.

Warning! Risk of crushing!

Do not expose the lift column to heavy blows or impacts.
Ensure that the lift column and any equipment on top of it is properly secured.
Do not attach equipment to the lift column using anything other than nut slots and bolt holes.
Never dismantle a lift column yourself, as internal components can spring out and cause personal injury if handled incorrectly.
When welding close to the lift column, the control unit and cabling must be shielded and kept at a suitable distance from the welding transformer and its cables. Otherwise there is a risk of permanent damage to the lift column's electronics.
In the event of a warranty claim, any dismantling work must be performed by Gigant or authorized personnel.

Any dismantling work and servicing must be performed by Gigant or authorized personnel.

Inspections and maintenance

T e lift column structure does not normally require anything more than normal cleaning. Keep equipment clean using a mild and environmentally-friendly detergent.
Inspect the lift column daily for any damage to the cabling and other electrical equipment.

Certif cate/Type plate

T e Gigant lift column is supplied with a certif cate for built-in of a partially incomplete machine according to the EU directive on machinery 2006/42/EC, appendix II 1B.

Specif cation of materials

Telescope:	Natural anodized aluminium
Plates:	Galvanized steel
Actuator:	Plastic/aluminium/copper
Cable:	Plastic/copper
Cable gland:	Rubber
Packaging:	Plastic/wood/corrugated paper (to be recycled according to current regulations)

Technical data

Lifting power:	See the type plate
Bending moments:	See product sheet for each lift column model
Voltage:	24V DC
Power consumption:	See the type plate
Intermittence:	15 %, max. 2 min. continuous or 5 cycles
Sound level:	<70 dB

For dimensions and other data, see the Gigant datasheet for each model.

www.gigant.co.uk