999285402 - 09/2016
en-GB

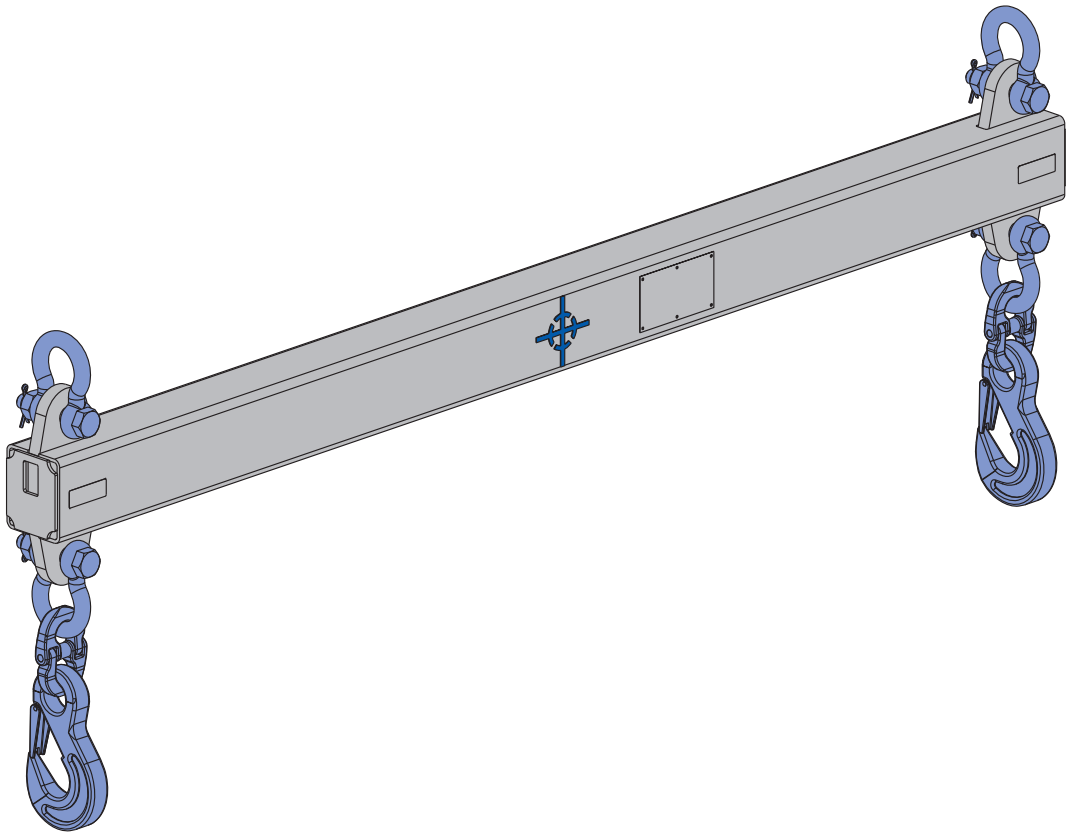
The Formwork Experts.

Lifting beam 110kN 1.80m

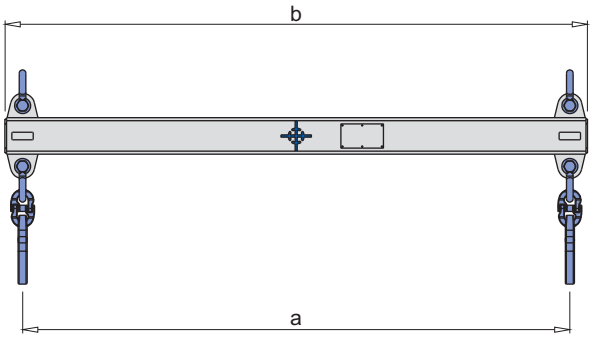
Art. n°: 586360000 | 2011 models onward

Original Operating Instructions

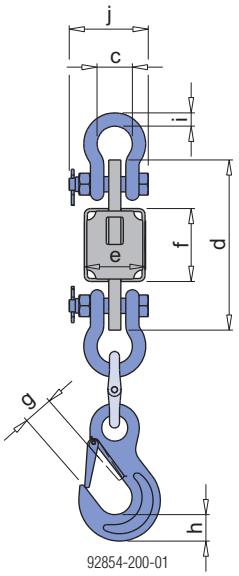
Please retain for future reference



Basic drawings of product



a ... 1800 mm
b ... 1916 mm



c ... 58 mm
d ... 280 mm
e ... 100 mm
f ... 120 mm
g ... 39 mm
h ... 44 mm
i ... 22 mm
j ... 130 mm

Data on rating plate

Designation: Lifting beam 110kN 1.80m
Art. n°: 586360000
Dead weight: 53.5 kg (118.0 lbs)
Max. load: 11000 kg (24250 lbs)
Year of manufacture: see rating plate

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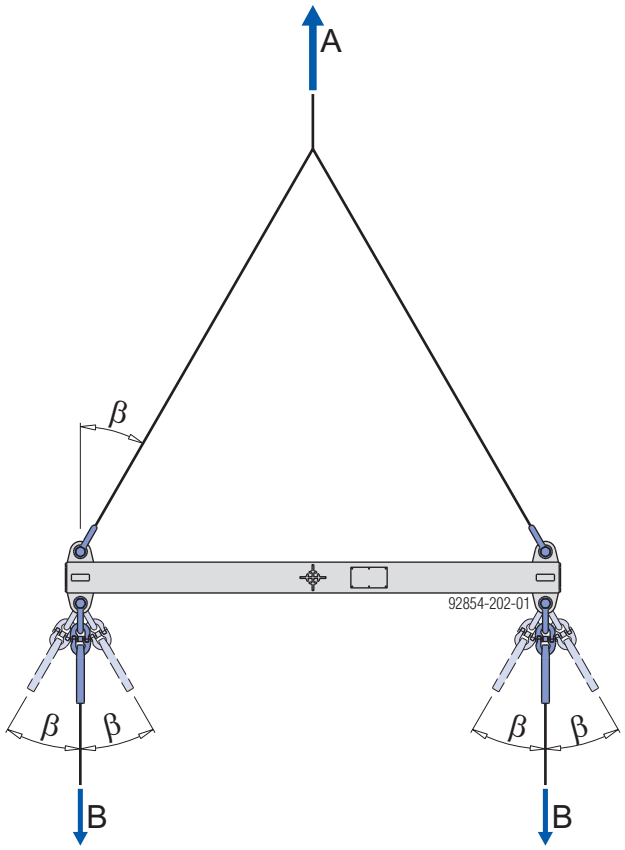
Intended use

The Lifting beam 110kN 1.80m is a lifting accessory. It is used for attaching and lifting loads.



Spread-angle β max. 30°!

Max. load:
A ... 11000 kg
B ... 5500 kg

- It is forbidden to use the product for anything but its intended purpose!
- It is forbidden to lift other manufacturers' formwork with it.
- Only use serviceable, functioning components. (Do a sight-check to see if any parts are damaged).
- The lifting accessory may only be used by experienced, trained persons ('crane slingers').

Deployment limitations

- It is forbidden to use it for handling liquid or bulk materials.
- Only use the lifting-beam in a temperature range from -20 °C to +100 °C.

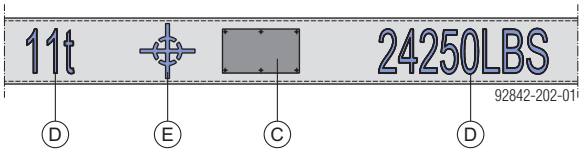
Maintenance & inspection

- Repairs may only be carried out by the manufacturer!
- Doka accepts no liability for products that have been altered!

Before every use

➤ Check for any signs of damage or visible deformation.

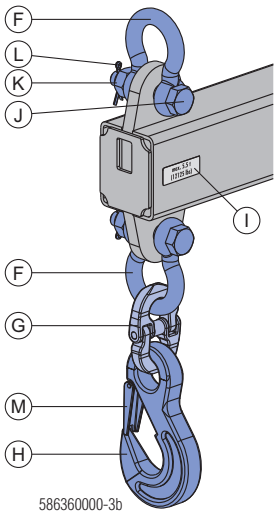
Lifting accessories that do not meet the following criteria must be withdrawn from use immediately:
- No deformation.
- No cracks or notches.
- No damage due to the influence of heat.
- Rating plate must be in place and clearly legible
- The load-carrying capacity must be clearly legible on both the lifting-beam and the adjusting-lugs.



C	Rating plate
D	Information on load-carrying capacity
E	Centre-of-gravity mark

➤ Check the slinging points.

- Completeness
  - On each end of the lifting-beam there must be 2 shackles, a connecting link and an eye-hook.
- The safety latch prevents accidental opening of the hook, and so must always be in place.
  - It must always close by itself.
- The bolts on both shackles must always be secured by the nut and by the cotter pin.



F	Shackle
G	Connecting link
H	Eye-hook
I	Label showing load capacity (5.5 t / 12125 lbs)
J	Shackle bolt
K	Hexagon nut M24
L	Cotter pin
M	Safety latch

At regular intervals

- Inspection of lifting accessories must be performed at regular intervals by an **expert** in conformity with **national statutory provisions**.
  Unless otherwise stipulated, such inspection must be carried out **at least once a year**.

Storage

- Store lifting accessories in a dry and well ventilated place, protected from the weather and from all corrosive substances.

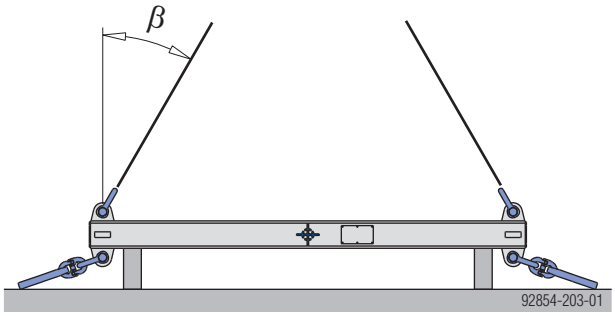
How to use

Attaching the lifting chain to the lifting beam

Important note:

- ➤ The lifting chain used must be adequately dimensioned.

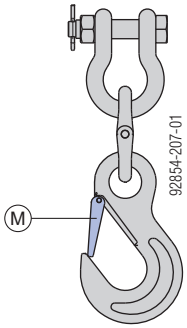
➤ Attach the lifting chain to the shackles on the lifting-beam.



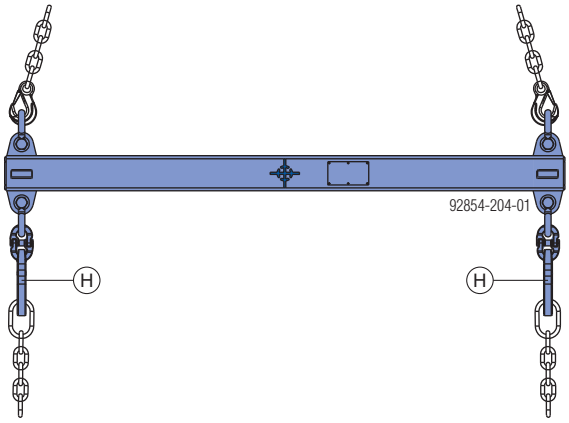
β ... max. 30°

➤ Attach the load to both eye-hooks.

After the lifting chains have been connected to the eye-hooks, the safety latches must always be in the closed position.



M Safety latch



H Eye-hooks

Important note:

- ➤ Never exceed the permitted load-carrying capacity of the lifting-beam.
- ➤ Do not exceed the max. load of the slinging points on the item (load) for repositioning!
- ➤ The load centre must be located exactly beneath the crane hook.

Maximum angle of inclination of the lifting-beam: 6°

WARNING

Jerky movements cause overloading

- ➤ Never use the lifting-beam to break cohesion between the concrete and the load.
- ➤ While repositioning the load, make sure that no collisions occur, and that the load does not sway back and forth.

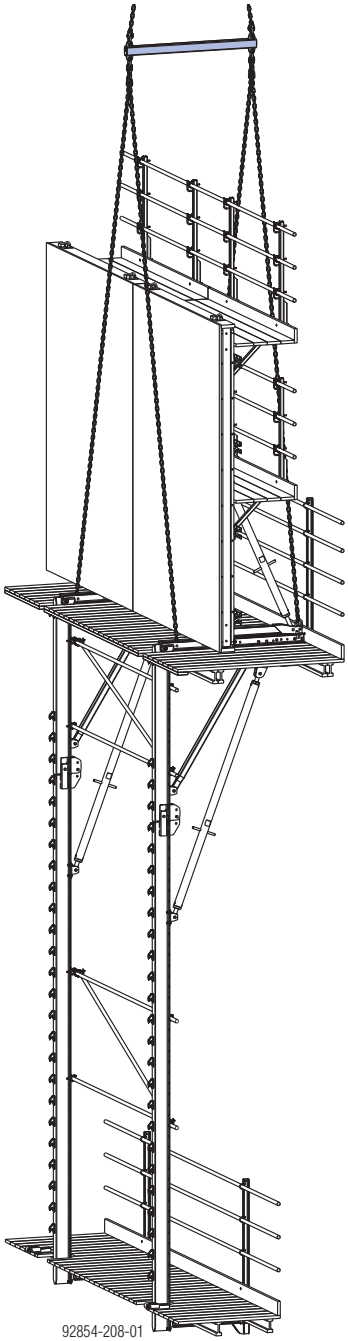
➤ Fly the load to its next location (guide with tag-lines if necessary).

Follow the directions given in the Operating Instructions of the lifting chain that is being used.

Practical examples

Vertical profile not guided

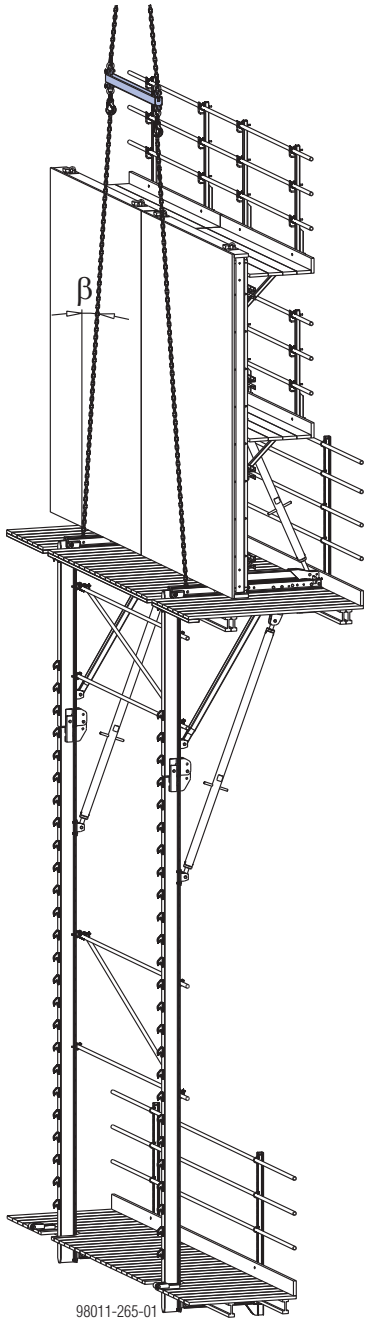
If the unit for repositioning is not yet being guided in the suspension shoes (during the start-up phases, for example), then the lifting chains must be attached to all four crane-hoisting points on the unit for repositioning.



Vertical profile guided (typical sequence)

In the typical sequence, the unit is guided in the suspension shoes. For this reason, it is sufficient here if the crane hoisting tackle is attached to the two front slinging points.

However, it is equally possible to lift and reset the unit with a four-part lifting tackle. This is advantageous when it is necessary to minimise the friction in the suspension shoes (e.g. if the crane only has a low load capacity).



β ... max. 30°

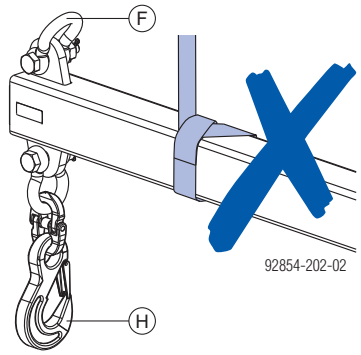
Follow the directions in the relevant User Information booklets and Operating Instructions!

Possible incorrect usages

WARNING

➤ The uses illustrated below are prohibited, as are other, similar uses!

➤ Use ONLY the provided attachment points (shackles and eye-hooks).

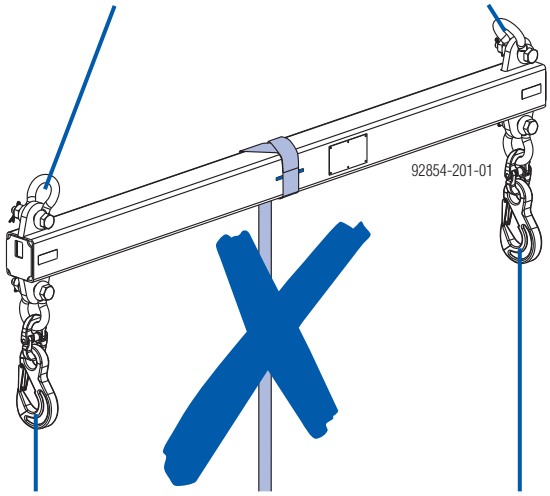


F Shackle

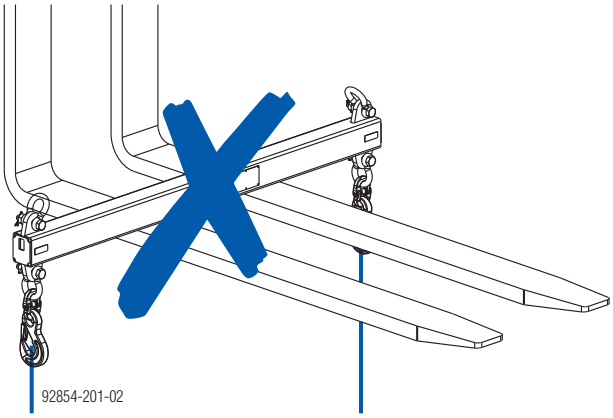
H Eye-hook

It is forbidden to loop lifting slings around the lifting-beam.

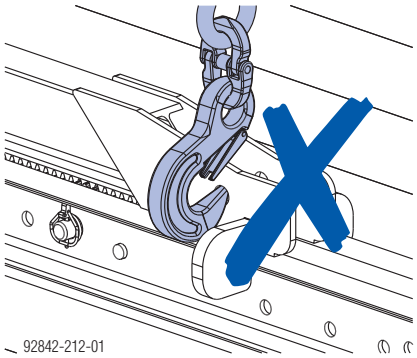
➤ Do not attach any additional slings to the lifting-beam.



➤ Do not subject the lifting-beam to bending stress.



➤ Do not apply loads to the tips of the eye-hooks.



The hooks and lugs of the load must be able to move freely in the eye-hooks.

CE

EC Declaration of Conformity
pursuant to EC Directive 2006/42/EC.

The manufacturer declares that by reason of its conception and design, the following product

Lifting beam 110kN 1.80m, art. n° 586360000

conforms – in the version marketed by ourselves – to the pertinent fundamental health and safety stipulations of the relevant EC Directives.

The following harmonised standards were applied:

- EN ISO 12100:2010
- EN 13155:2009

Person authorised to compile technical documentation (pursuant to European Directive on Machinery Annex II):

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