ADMIRAL
STAGING

Original user manual

LIFTING WHEEL

Manufacturer:
Rolight Theatertechniek B.V.
Josink Kolkweg 10
7545 PR Enschede, The Netherlands
Phone (+31)53 432 06 44
info@rolight.nl
www.rolight.nl

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www.admiralstaging.com

CONTENTS

1. INTRODUCTION

The ADMIRAL LIFTING WHEEL has been designed for moving stage decks, truss parts and other decor pieces. The LIFTING WHEEL can be attached to truss, stage legs and other objects by using half couplers and/or additional accessories. It is mostly used in temporary setups in the entertainment industry but can also be used for permanent setups in museums, event venues, theaters, etc. as well.

Couplers and accessories for securing the LIFTING WHEEL are not included.

ADMIRAL has endeavoured to deliver the highest degree of accuracy possible. However continuous improvement of our products is ADMIRAL policy. Therefore product specifications are subject to change without notice.

Readers and users are encouraged to notify ADMIRAL of errors and send in suggestions for improvements. All communications will be carefully considered for future printings of this manual and changes to our products.

2. SAFETY INSTRUCTIONS

This user manual must be read and understood prior to assembly, setup and servicing. All people using and servicing the LIFTING WHEEL must familiarise themselves with the safety instructions and user guidelines written in this manual.
This manual needs to be accessible for all users at all times.

LEGEND

DANGER

DANGER: Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
This signal word is to be limited to the most extreme situations.

WARNING

WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE: Addresses practices not related to personal injury.

SAFETY INSTRUCTIONS

SAFETY INSTRUCTIONS: Is used for lists of steps, procedures or instructions that might otherwise substitute a DANGER, WARNING or CAUTION notification.
Note that equivalent phrases, such as SAFE OPERATION PROCEDURES or SAFE SHUT DOWN PROCEDURE, can be used in place of the words “SAFETY INSTRUCTION”.

CAUTION

DO NOT install the LIFTING WHEEL without the following precautions:

- The LIFTING WHEEL must be taken out of service immediately if, during use, repair or maintenance damages are discovered.
- Do not operate the LIFTING WHEEL with people on stage.
- Use solely instructed and/or trained personnel.
- Wear appropriate Personal Protective Equipment (PPE) such as hard hats and gloves during installation.
- Make sure there is adequate amount of working light during the installation of the product.

3. SCOPE

The intended use of the LIFTING WHEEL is to lift, move and install stages, truss constructions or other decor pieces quickly and easily on site.
The LIFTING WHEEL can be installed temporarily using half couplers or with mounting plates.
The maximum load per LIFTING WHEEL is 130 kg.

Half couplers, mounting plates or truss attachments required to secure the LIFTING WHEEL to the supporting structure are not included.
The user must use certified couplers with a WLL of at least 100 kg.

The maximum lifting height is 27 mm. Always lift the castor off the ground using the lever after installation to prevent a constant load on the castor.

The truss attachment used in combination with the LIFTING WHEEL is suitable for truss with a centre-to-centre main chord distance of 239 mm ± 1.5 mm (30 truss).

WARNING

Check local legislation for the application of use.

4. LIMITATIONS OF USE

WARNING

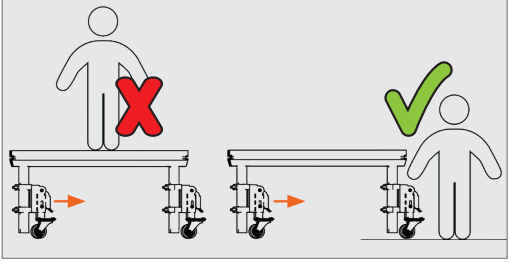
Exceeding the limitations of use can severely endanger the audience and users.

- The LIFTING WHEEL can be operated from -20° up to 60° Celsius.
- Do not exceed the maximum load stated on the product.
- Make sure the resulting forces on the LIFTING WHEEL structure are approved by a competent person before applying the load.
- The LIFTING WHEEL and accessories must be inspected by a competent person as often as required but with a minimum of 1 x per year. Records of these inspections must be kept.
- Inspect equipment before every use. A damaged LIFTING WHEEL and/or accessories shall be taken out of service.
- Outdoor use shall be approved by a competent person and might influence the load capacity. Do not expose the product to full rain or snow. Outdoor use is the sole responsibility of the operator.
- In case of use in the vicinity of saltwater, the product shall be rinsed regularly with fresh water to avoid corrosion.
- It is also imperative to observe the local accident prevention regulations and/or occupational health and safety regulations.
- Make sure the LIFTING WHEEL and used accessories are dry and free of dirt.
- Use appropriate packaging to transport the products, e.g. a flightcase.
- Solely use by ADMIRAL approved parts to replace damaged or lost parts.
- Do not re-zinc steel components as they might be subject to hydrogene embrittlement.
- After installation, lift the castor off the ground using the lever to ensure no constant load is applied to the castor.

- The support structure, on which the LIFTING WHEEL is used, might need to have electric potential bonding.
- Do not use the LIFTING WHEEL to guide currents for electric potential bonding.

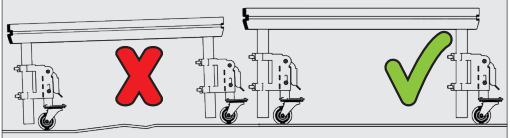
WARNING

Do not operate the LIFTING WHEEL with people on stage.



WARNING

Always use the LIFTING WHEEL on a flat surface.

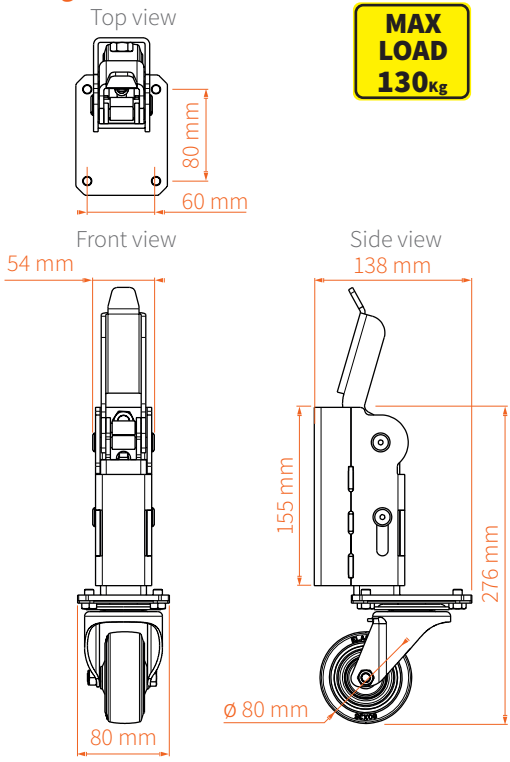


CAUTION

Do not throw the LIFTING WHEEL, as it might damage the product.

5. TECHNICAL DATA & LOADCHART

Lifting Wheel

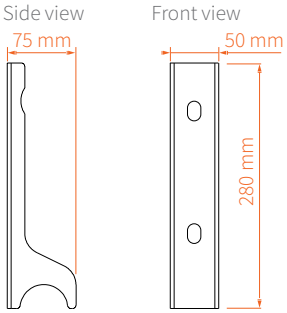


Technical data

Article code:	POPOAL04
EAN:	8720094420837
Max load*:	130 kg (1300 N)
Material:	steel
Finish:	zinc plated / powder coated
Colour:	silver / orange
Dimensions:	276 x 80 x 138 mm (L x W x D)
Weight:	2.95 kg
Bolt type:	M10
Lifting height:	ca. 27 mm

*The Max load is determined according to the applicable standards and guidelines.

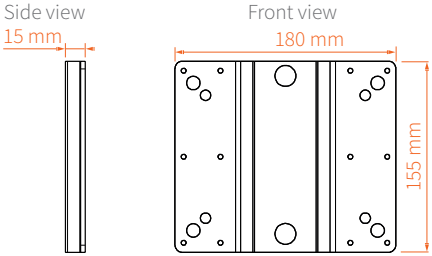
Truss Attachment



Article code:	POPOALT4*
EAN:	8720094420851
Material:	steel
Finish:	zinc plated
Colour:	silver
Dimensions:	280 x 50 x 75 mm (L x W x D)
Weight:	0.7 kg
Bolt type:	M10

*Half couplers and bolts not included

Mounting Plate



Article code:	POPOALT2*
EAN:	8720094420844
Material:	steel
Finish:	zinc plated
Colour:	silver
Dimensions:	180 x 155 x 15 mm (L x W x D)
Weight:	0.9 kg

*Half couplers, bolts and screws not included

Applicable Directives, Regulations, Standards and Information Papers

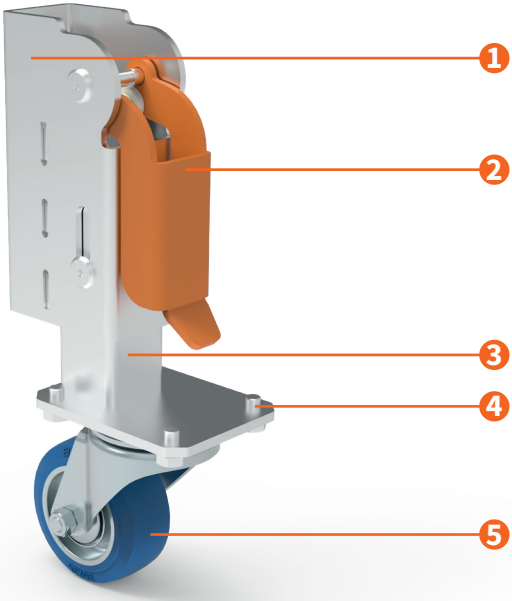
The following directive is applicable

2006/42/EC machinery directive

Parts of the following standards and information papers are used

EN 1990 Eurocode - Basis of structural design
EN 1993 Eurocode 3 - Design of steel structures

6. IDENTIFICATION

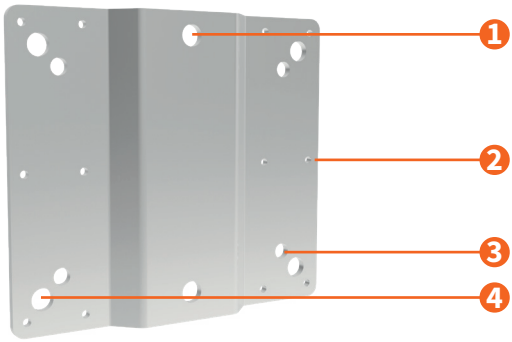


LIFTING WHEEL

1. Housing
2. Lifting lever
3. LIFTING WHEEL base
4. M8 bolts
5. 80 mm castor wheel

TRUSS ATTACHMENT

1. Hole for attachment coupler to LIFTING WHEEL
2. Hole for attachment to LIFTING WHEEL
3. Hook profile with rubber for truss



MOUNTING PLATE

1. Holes for attachment to LIFTING WHEEL
2. 3 mm screw/nail holes
3. M8 bolt holes
4. M10 bolt holes

7. EXPLANATION OF THE STICKER

LIFTING WHEEL sticker

1. Brand name
2. Product name
3. Article code
4. Barcode
5. EAN code
6. CE Marking
7. Weight
8. Caution sign
9. QR code to online manual
10. Max load

8. ASSEMBLY INSTRUCTIONS

WARNING

Inspect the LIFTING WHEEL and/or accessories before use. Make sure all components are in place and in good order. If damaged, mark the item clearly and take out of service*.

Make sure the LIFTING WHEEL surface is dry and free from dirt.

*See chapter 11 for further instructions!

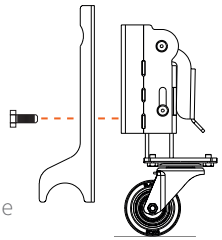
WARNING

Do not leave the castor under constant load. Lift the castor after installation.

TRUSS MOVER

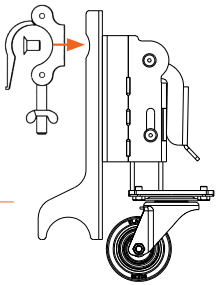
Step 1

Use an M10 x 20 mm bolt (8.8 quality) for assembling the Truss attachment to the LIFTING WHEEL.
Tighten the bolts with a torque setting of 25 Nm.



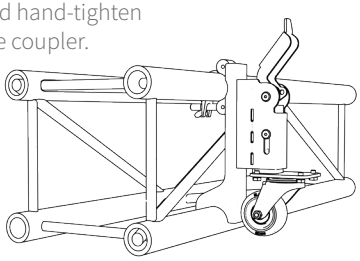
Step 2

Mount the half coupler (ADMIRAL art. nr RIHAHCA40, RIHAHACA41) to the LIFTING WHEEL. Tighten the bolts with a torque setting of 25 Nm.



Step 3

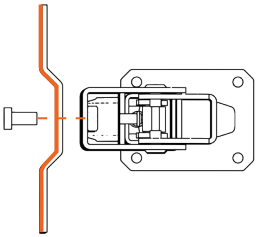
Hook the LIFTING WHEEL in place and hand-tighten (15 Nm) the coupler.



BOX RISER

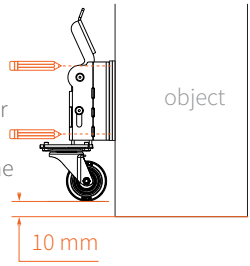
Step 1

Use two M10 x 20 mm bolts (8.8 quality) for assembling the Mounting plate to the LIFTING WHEEL.
Use a minimum torque setting of 25 Nm.



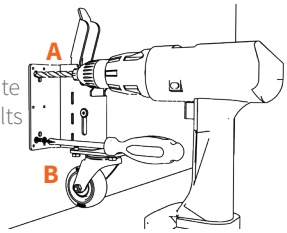
Step 2

To mount the LIFTING WHEEL at the correct height, raise the lifting lever up to lift the castor 10 mm off the ground and mark the bolt holes on the object.



Step 3

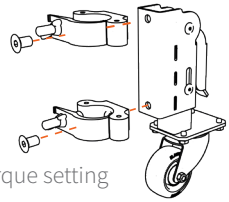
Drill the holes (**A**) and attach the Mounting plate with the appropriate bolts or screws (**B**). Fold the lifting lever down and move the object.



STAGE RISER ROUND (1 stage leg)

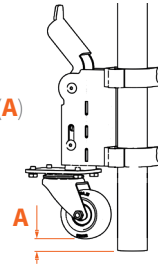
Step 1

Mount two half couplers (Admiral art. nr. RIHAHCA40, RIHAHACA41) to the LIFTING WHEEL. Tighten the couplers with a minimum torque setting of 25 Nm.



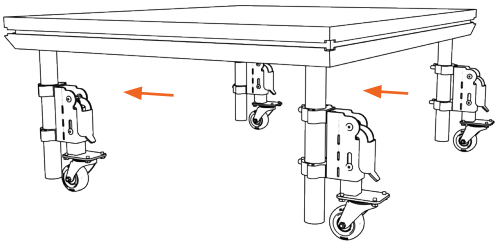
Step 2

Lift the lifting lever up and mount the half couplers to the stage leg, making sure the castor is 10 mm (**A**) off the ground. Hand-tighten (15 Nm) the half couplers.



Step 3

Fold the lifting lever down and move the stage.



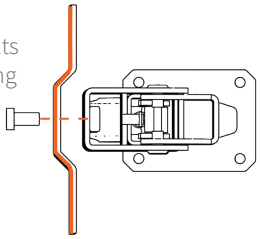
STAGE RISER ROUND (2 stage legs)

Note

Pay attention, the Mounting plate is used in a different position!

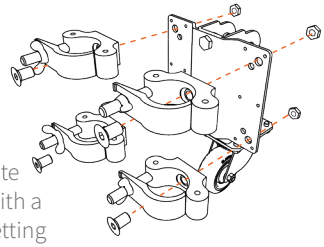
Step 1

Use two M10 x 20 mm bolts (8.8 quality) for assembling the Mounting plate to the LIFTING WHEEL. Use a minimum torque setting of 25 Nm.



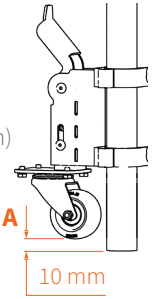
Step 2

Mount four half couplers (Admiral art. nr. RIHAHCA40, RIHAHACA41), to the Mounting plate and tighten them with a minimum torque setting of 25 Nm.



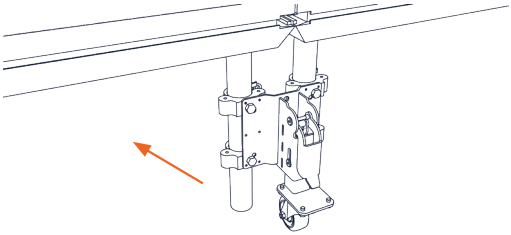
Step 3

Raise the lifting lever up and mount the half couplers to the stage legs, making sure the castor is 10 mm (**A**) off the ground. Hand-tighten (15 Nm) the half couplers.



Step 4

Fold the lifting lever down and move the stage.

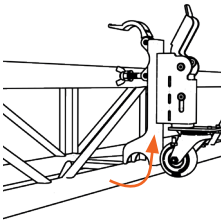


9. DISASSEMBLY INSTRUCTIONS

TRUSS MOVER

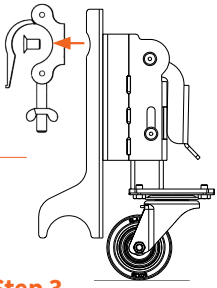
Step 1

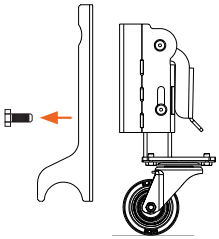
Raise the lifting lever up, unscrew the coupler and unhook the LIFTING WHEEL from the truss.



Step 2

Remove the coupler from the Truss attachment and the LIFTING WHEEL.





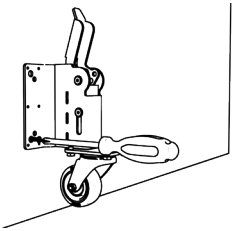
Step 3

Remove the Truss attachment from the LIFTING WHEEL.

BOX RISER

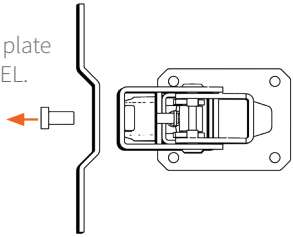
Step 1

Raise the lifting lever up and remove the Mounting plate from the object by removing the bolts and screws.



Step 2

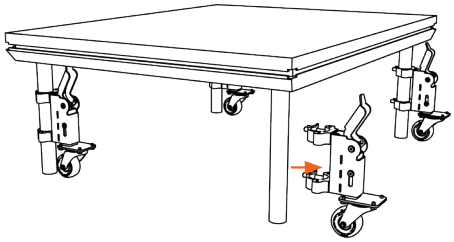
Remove the Mounting plate from the LIFTING WHEEL.



STAGE RISER ROUND (1 stage leg)

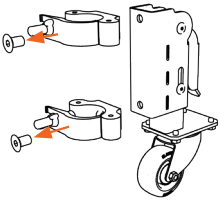
Step 1

Raise the lifting lever up, unscrew the couplers and remove the LIFTING WHEEL from the stage leg.



Step 2

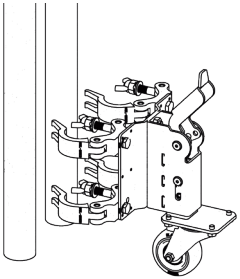
Remove the couplers from the LIFTING WHEEL.



STAGE RISER ROUND (2 stage legs)

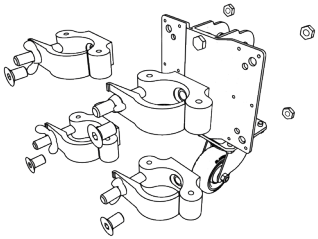
Step 1

Raise the lifting lever up, unscrew the couplers and remove the LIFTING WHEEL from the stage legs.



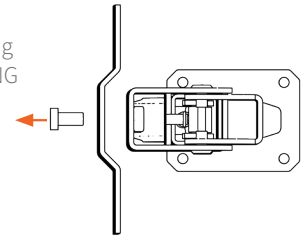
Step 2

Remove the couplers from the Mounting plate.



Step 3

Remove the Mounting plate from the LIFTING WHEEL.



10. STORAGE

The LIFTING WHEEL and its accessories must be stored in a dry, non-aggressive environment.

- Make sure the parts cannot bend.
- Avoid vibrations. Rubbing parts can cause excessive wear and tear.

11. MAINTENANCE & REJECTION CRITERIA

CAUTION

When replacing parts, only use genuine ADMIRAL components.

SAFETY INSTRUCTIONS

The LIFTING WHEEL and its accessories hardly needs any maintenance under normal use and environmental circumstances. For safety reasons however, all parts must be checked regularly for dirt, damages, loss and corrosion.

The LIFTING WHEEL and its accessories shall be checked in compliance with the local law by a competent person. Checking shall take place as often as required but with a minimum of 1x per year. In case of doubt contact ADMIRAL.

WARNING

If damaged, mark the item clearly and take it out of service.

- Missing or damaged parts shall be replaced by genuine ADMIRAL components solely.
- Check all components for damages like cracks, deformations, scratches and corrosion. Damaged and corroded parts shall be rejected and thrown away.
- In general, scratches > 10% of the wall thickness mean the products need to be rejected from use.
- In general, deformations > 10% of a straight line from the outer surface mean the products need to be rejected from use.
- Remove all sharp and rough feeling edges and surfaces by using sand paper or a file.
- Check welds for cracks, if cracked, replace.

12. WARRANTY

- For a period of 24 months we will repair, free of charge, any damage attributable to faulty materials or workmanship under the condition that the equipment is forwarded, freight paid, to our warehouse or one of the ADMIRAL distributors' warehouses.
- The warranty-period begins with the day of the delivery, proven by a purchase receipt like an invoice or delivery note or their copies.
- The warranty does not cover damage due to transport, negligent handling, overloading the equipment or parts subject to normal wear and tear signs. Nor damages that originate from a case of misuse because of non observance of the safety regulations in this instruction manual.
- The warranty will be invalid when other parts than the original ADMIRAL parts have been used or modifications of our design have been made by third parties.
- Warranty repairs do not renew nor extend the warranty-period.
- In case of a claim that falls under the warranty, e.g. a malfunction or spare part requirements please contact your point of sale or ADMIRAL.
- The manufacturer is not liable for indirect conse quential damage and financial loss.
- The manufacturer shall not be liable for any changes made to the LIFTING WHEEL parts nor for any damage resulting from such changes.

EC-DECLARATION OF CONFORMITY FOR MACHINERY (2006/42/EG Annex II)

Rolight Theatertechniek
Josink Kolkweg 10
7545 PR Enschede
The Netherlands

Herewith declares that:

ADMIRAL "LIFTING WHEEL"; Article code POPOAL04

- Is in compliance with the Machinery Directive 2006/42/EC annex II

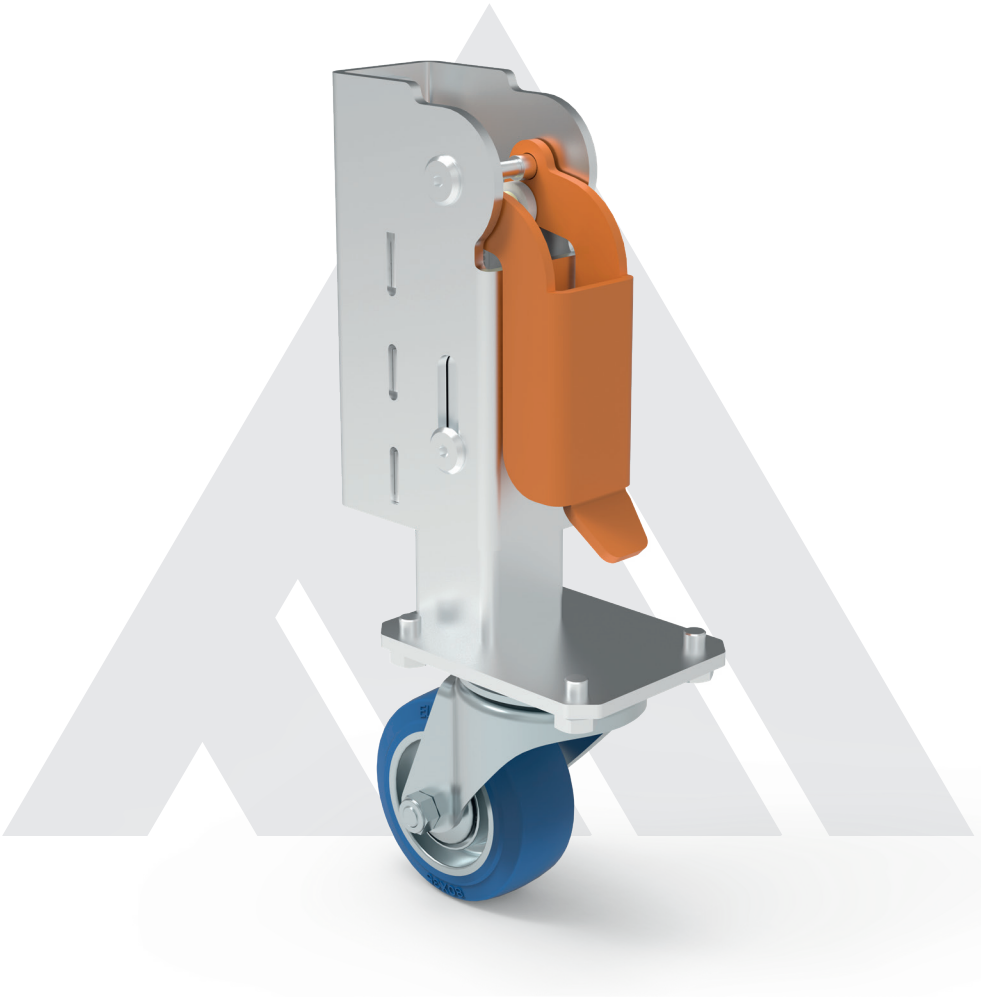
The following harmonized standards have been applied (or parts/clauses of):

- EN 1990 Eurocode - Basis of structural design
- EN 1993 Eurocode 3 - Design of steel structures

Enschede, The Netherlands 20-September-2025

Ms. E. Dijk
Owner Rolight Theatertechniek b.v.

Rolight theatertechniek bv
Josink Kolkweg 10
7545 PR Enschede
053 - 4 320 644
info@rolight.nl
www.rolight.nl
iban : NL38RABO 0127148426
bic : RABONL2U
k.v.k. : Enschede 06048772
btw : NL 8078.53.355 B01



ADMIRAL STAGING

| www.admiralstaging.com | Josink Kolkweg 10 | 7545 PR Enschede |
| The Netherlands | Tel: +31 53 4 301 201 |