



ADMIRAL STAGING FREEDOM Modular Rigging System Instruction Manual

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Product Information

Specifications

• Manufacturer: Rolight Theatertechniek B.V.

• Model: Freedom Modular Rigging System

• SKU: All codes starting with: RIPF****

· Country of Origin: The Netherlands

• Version: 03 (November 2023)

Product Usage Instructions

Introduction

The Freedom Modular Rigging System (FMRS) is designed to hang loads at a predetermined distance underneath a structure. It is suitable for temporary setups in the entertainment industry as well as for permanent installations in museums, event venues, and theatres.

Safety Instructions

All users must read and understand the safety instructions provided in the user manual before assembly, setup, and servicing of the FMRS. Make sure the manual is accessible to all users at all times.

Assembly Instructions

Follow the step-by-step assembly instructions provided in the manual for different components:

- Length Profiles and Couple Set: Follow instructions on page 13.
- Hangers: Refer to page 14 for assembly guidelines.

- Nutplate Set: Assembly instructions on page 15.
- Drop Arm Set: Instructions available on page 16.
- Floor Rack: Detailed assembly instructions on page 18.

Disassembly Instructions

When disassembling the FMRS, follow the reverse steps of the assembly instructions provided in the manual. Pay attention to details to avoid any damage to the components.

Maintenance

Regular maintenance is essential for the proper functioning of the FMRS. Refer to the maintenance section (page 19) of the manual for detailed guidelines on upkeep and inspection procedures.

Warranty

The FMRS comes with a warranty from the manufacturer. Refer to page 20 of the manual for information on warranty coverage and terms.

Contact Information

If you have any questions or need assistance with the FMRS, contact Rolight Theatertechniek B.V. using the provided contact details.

FAQ

Q: Are clamps and couplers included with the FMRS?

A: Clamps, couplers, and safety cables used to couple and secure the FMRS to the supporting structure are not included. Users must use certified clamps or couplers with a Working Load Limit (WLL) of at least 200 kg with a minimum safety factor of 8:1 as required for overhead lifting.

INTRODUCTION

Admiral Freedom modular rigging systems can be used to hang loads at a certain, predetermined distance underneath a structure. It is mostly used in temporary set ups in the entertainment industry but can be used for permanent setups in museums, event venues, theatres etc. as well. To increase readability, in this manual, Freedom Modular Rigging Systems will be referred to as FMRS.

Clamps, couplers and safety cables used to couple and secure the FMRS to the supporting structure are not included. The user must use certified clamps or couplers with a WLL (Working Load Limit) of at least 200 kg, with minimum safety factor of 8:1 as required for overhead lifting.

The FMRS is labelled with a redundant working load safety factor to meet the German standard for loads above persons DGUV17/18 (formerly known as BGVc1).

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

Readers and users are encouraged to notify Admiral Staging of errors and send in suggestions for improvements. These suggestions will be considered for future printings of this manual and changes to our products.

SAFETY INSTRUCTIONS

This user manual must be read and understood prior to assembly, setup and servicing. All people using and servicing the FMRS 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

LEGENDA

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

NOTICE: Relevant general information, not related to physical injuries.

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 INSTRUCTIONS."

WARNING

Clamps must be connected to the top brackets by means of self-locking nuts .

WARNING

Do not lift or load above people without the following precautions:

- Only use certified clamps or couplers which are made for the M10 bolt-nut connection.
- Use a certified additional, secondary safety cable to both, secure the FMRS to the supporting structure and the load coupled to the FMRS.
- A FMRS must be taken out of services immediately if, during use, repair or maintenance, serious damages are discovered.
- Remove people from the area during installation.
- Use solely instructed and/or trained personel.
- Wear appropriate Personal Protective Equipment (PPE) such as hard hats and gloves during installation.
- Make sure there is adequate amount of working light during installation of the product.

NOTICE

An additional, secondary safety component is not necessary if the fixing device (clamp or coupler) is inherently safe, can only be loosened by using a tool and is secured to prevent loosening of its own accord (self-locking nut).

SCOPE

The intended use of the FMRS is to hang loads at a certain, pre-determined distance underneath a supporting structure.

Loads can be lighting fixtures, video projectors, sound systems and/or set pieces.

Any other way of use then mentioned is considered to be a case of misuse. Solely the user is liable for any damage or injury resulting from such cases.

WARNING

Check local legislation for the application of use.

LIMITATIONS OF USE

WARNING

Exceeding the limitations of use can severely endanger audience and users. This product is NOT designed to lift people

- The FMRS can be operated from -20° up to 60° Celsius.
- Do not exceed the maximum ELL (entertainment load limit) stated on the product.
- Only load the FMRS in a vertical direction as indicated on the product.
- · Make sure the resulting forces on the supporting structure are approved by a competent person before applying

the load.

- To determine the maximum suspended load on the product, all imposed loads shall be considered. E.g. the dynamic factor caused by the lifting machinery.
- The FMRS must be inspected by a competent person as often as required but with a minimum of 1 x per year.

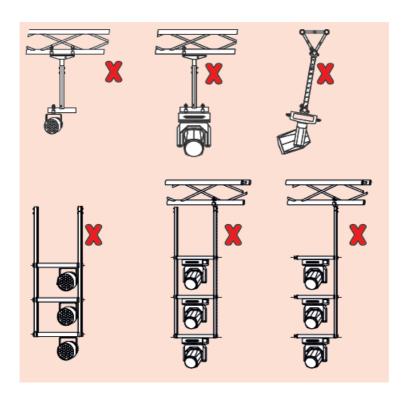
 Records of these inspections must be kept.
- Inspect equipment before every use. A damaged FMRS shall be taken out of service.
- Outdoor use shall be approved by a competent person and might influence the
- load capacity. Do not expose the product to full rain or snow. Outdoor use is the sole responsibility 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.
- The support structure, on which the FMRS is used, might need to have electric potential bonding.
- Do not use the FMRS to guide currents for electric potential bonding.
- The support structure, on which the FMRS is used, must have lightning protection when used outdoors.
- Use clamps or couplers which are made for the respective pipe diameters from the supporting structure. The use of clamps or couplers suitable for other diameter pipes could lower the allowable working load significantly.
- Use appropriate packaging to transport the FMRS. E.g. a flightcase.
- Solely use by ADMIRAL approved parts to replace damage or lost parts.

CAUTION

Do not throw the FMRS, as it might damage the product

WARNING

Do not suspend the FMRS as shown below. It creates torsional forces, influences the stability of the supporting structure and lowers the allowable working load.



WARNING

This product is NOT designed to be used in a predominantly dynamic loaded situation.

- Applicable Directives, Regulations, Standards and information Papers
- The following directive is applicable 2006/42/EC Machinery directive
- · The following regulation is used
- DGUV regulation 17 Regulations for stages and studios (Formerly known as BGVc1)
- · Parts of the following standards and information papers are used
- DGUV Information Safety at productions and events for television, radio, film, theatre,
- 215-313 exhibitions: Loads above persons (Formerly known as BGI 810-3)
- EN 17206:2020 Lifting and load bearing equipment for stages and other production areas within the entertainment industry
- BS 7905-1:2001 Lifting equipment for performance broadcast and similar applications. Part 1 specifications for the design and manufacture of above stage equipment

IDENTIFICATION

Freedom profiles

The aluminium length profiles are available in four sizes. They are mutually connectable with coupler set: RIPFZK10, allowing the user to build a constrution in the desired height.

The Freedom length profiles are equipped with the following stickers.

Freedom profiles top side sticker (fig: 01)

- 1. While adding multiple length profiles, this indicator indicates where to align with the other length profile.
- 2. While adding coupler set: RIPFZK10this arrow indicates where to tighten the set screws.

Freedom profiles bottom side sticker (fig: 02)

- 3. Product name and code
- 4. Applicable standard (page 7)
- 5. CE marking
- 6. Product weight
- 7. While adding coupler set: RIPFZK10 this indicates where to tighten the set screws.
- 8. Read manual before use
- 9. Working Load Limit in the vertical direction Indicates that every component of the Freedom system you add to the structure needs to be secured with two bolts.
- 10. Indicates that every component of the Freedom system you add to the structure needs to be secured with two bolts.
- 11. While adding multiple length profiles, this indicator indicates where to align with the next one.

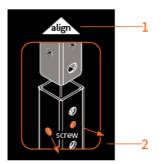
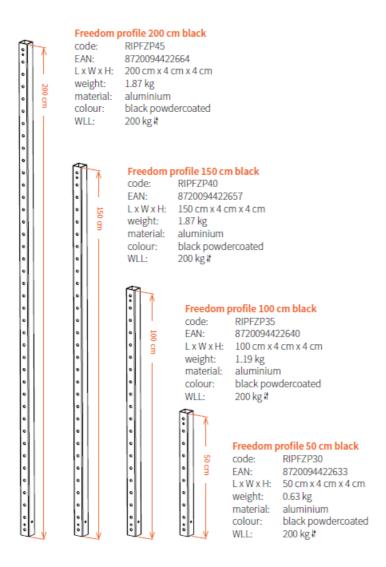


fig: 01



fig: 02



Freedom hangers

The aluminium hangers are meant to be attached horizontal between two length profiles. The Freedom hangers are equipped with the following sticker ▶

Freedom hanger sticker (fig: 03)

- Freedom hanger sticker (fig: 03)
 Product name and code
- 2. Read manual before use
- 3. CE marking
- 4. Applicable standard (page 7)
- 5. Product weight
- 6. Working Load Limit in the vertical direction



1. Freedom hanger 30 cm

• code: RIPFZT30

• EAN: 8720094422688

• tube: 30 cm / ø 48 mm

• weight: 0.56 kg

• material: aluminium

· colour: black powdercoated

• WLL: 75 kg

2. Freedom hanger 40 cm

• code: RIPFZT37

• EAN: 8720094422695

• tube: 40 cm / ø 48 mm

• weight: 0.67 kg

• material: aluminium

· colour: black powdercoated

• WLL: 75 kg

3. Freedom hanger 50 cm

• code: RIPFZT50

• EAN: 8720094422701

• tube: 50 cm / ø 48 mm

• weight: 0.80 kg

• material: aluminium

· colour: black powdercoated

• WLL: 75 kg

4. Freedom hanger 60 cm

• code: RIPFZT57

• EAN: 8720094422718

• tube: 60 cm / ø 48 mm

weight: 0.92 kg

· material: aluminium

· colour: black powdercoated

• WLL: 75 kg

5. Freedom hanger 80 cm

code: RIPFZT77

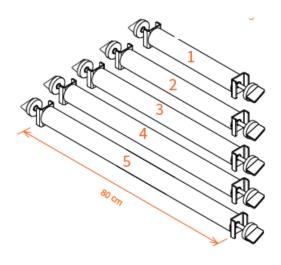
EAN: 8720094420165tube: 80 cm / ø 48 mm

• weight: 1.0 kg

· material: aluminium

· colour: black powdercoated

• WLL: 75 kg



WARNING

Always use the Freedom safety set (provided) to secure your load with a secondary safety device e.g. a safety cable.

NOTICE

All hangers are provided with the safety set (page 11)

Freedom nut plate set M10

• code: RIPFZM10

• EAN: 8720094422626

• weight: 0.36 kg

• material: 3 mm stainless steel

• WLL: 200 kg

• Provided: Freedom safety set (page 11)

• 2 x bolt M10 x 55

• 1 x bolt M10 x 20

1 x safety plate

• 2 x wing nut M10

• 2 x self lock nuts M10

Freedom coupler set

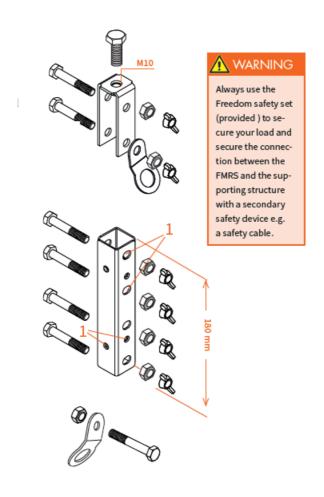
· code: RIPFZK10

• EAN: 8720094422619

• weight: 0.68 kg

• material: 2 mm stainless steel

- WLL: 200 kg
- 1 set screws (attached)
- Provided: 4 x bolt M10 x 55
- 4 x wing nut M10
- 4 x self lock nuts M10



Freedom safety set

• code: RIPFZS10

• EAN: 8720094422671

• weight: 0.14 kg

• Provided: 1 x bolt M10 x 55

• This item is provided in the Nut plate

• set (page 11) and all hangers (page 10). always use it for your secundary safety devise.

Freedom support base set Freedom flexible base set

• code: RIPFZV05 RIPFZV08

• EAN: 8720094422725 8720094420684

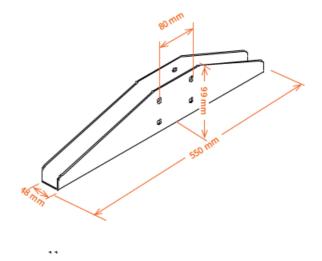
• weight: 1.7 kg

• material: aluminium

· colour: black powdercoated

• WLL: 200 kg

- Provided: 2 x bolt M10 x 55
- 2 x wing nut M10



NOTICE

The support base and flexible base are not compatible due to differences in the height of the holes.

Freedom Drop Arm

The basic Freedom Drop Arm set allows the user to hang a single moving head or static fixture on a variable height from 57.2 up to 87.2 cm.

The length can be extened with standard freedom length profiles in combination with coupler set: RIPFZK10. The Freedom Drop arm set is equipped with the following stickers ▶

Freedom Drop Arm top / bottom side sticker (fig: 4)

- 1. Product name and code
- 2. Read manual before use
- 3. Working Load Limit in the vertical direction
- 4. Special safety warning that indicates that every component of the Freedom System you add to the structure needs to be secured with two bolts.
- 5. CE marking
- 6. Applicable standard (page 7)
- 7. Product weight



Freedom Drop Arm top side

• code: RIPFT08T

• EAN: 8720094422602

length: 50 cmweight: 1.01 kg

material: stainless steelcolour: black powdercoated

• WLL: 200 kg

Freedom Drop Arm bottom side code: RIPFT08B

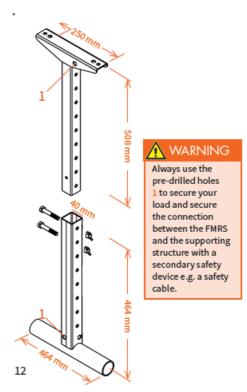
• EAN: 8720094422596

• length: 50 cm

tube: ø 50 x 380 mmweight: 1.13 kg

material: stainless steelcolour: black powdercoated

• WLL: 200 kg



This item is provided with the necessary screw set to connect it to the Drop Arm top side.

ASSEMBLY INSTRUCTIONS

WARNING

Clamps must be connected to the top brackets by means of self-locking nuts.

WARNING

Inspect the FMRS before use.

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

CAUTION

Use solely M10 Grade 8.8 bolts and self-locking nuts to connect clamps or couplers to the FMRS as well as connecting the vertical length profiles.

WARNING

Use a certified, secondary safety cable to both, secure the FMRS to the supporting structure and the load coupled to the FMRS.

ASSEMBLY INSTRUCTIONS LENGTH PROFILES AND COUPLE SET

1. Step 1

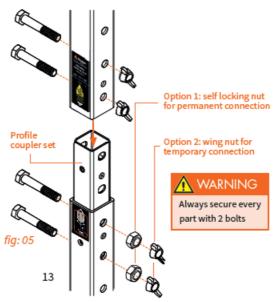
Choose which length the FMRS needs to be.

2. Step 2 (fig: 5)

Connect all the lenght profiles by using profile coupler set: RIPFZK10. Use two bolt sets M10 x 65 on each profile.

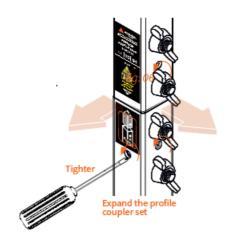
Choose your nuts depending on the use, permanent

- 1. (option 1) or temporary
- 2. (option 2). Tighten the self-locking nuts in such a way that three threads of the bolt are visible from the nut.



3. Step 3 (fig: 6)

Adjust the set-screws (see page 11, part indentification) to expand profile coupler set: RIPFZK10. This removes backlash and gives the system more rigidity.



ASSEMBLY INSTRUCTIONS HANGERS

1. Step 1

Choose which size hanger you want to use.

2. Step 2

Decide where on the length profile you want to assemble the hanger.

WARNING

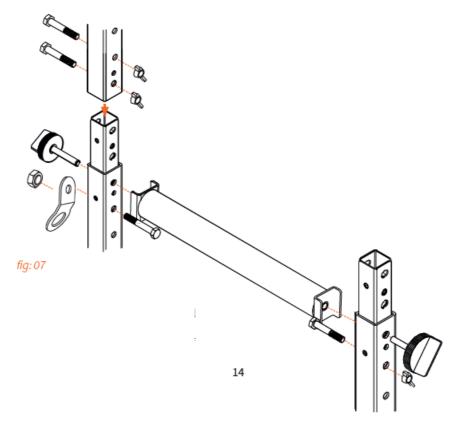
Always assemble the hanger between two length profiles. (fig: 07)

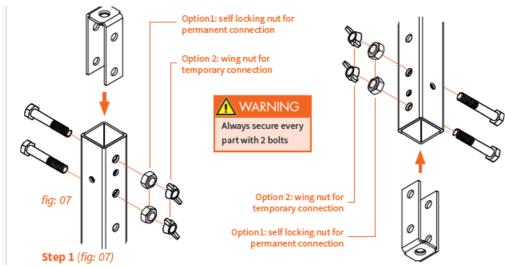
WARNING

Always use the Freedom safety set (provided) to secure your load with a secondary safety device e.g. a safety cable.

3. Step 3

Connect Safety set (provided with all Freedom hangers) by using a bolt. You can use the safety eye instead of the wingnut. (fig: 07)





Step 1 (fig: 07)

The nut plate set is used to connect a clamp or coupler directly to the length profile. In case of assembling a "Single rigger" connect two Nutplate sets, at the top and bottom of the profile. When assembling a "Down rigger", connect the Nut plate set at the top of the profiles.

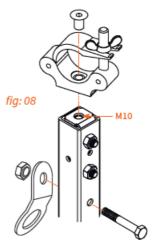
Choose your nuts depending on the use, permanent (option 1) or temporary (option 2). Tighten the self-locking nuts in such a way that three threads of the bolt are visible from the nut.

2. Step 2 (fig: 08)

Connect the clamp or coupler (not included) to the nut plate set, make sure a clamp or coupler is used with the ap-propriate Safety factor for the intended use. Tighten with a torque wrench.

3. Step 3 (fig: 08)

Connect a Safety set (provided with all Freedom nutplate sets) at the top by using a bolt.



WARNING

Always use the Freedom safety set (provided) to secure your load and secure the connection between the FMRS and the supporting structure with a secondary safety device e.g. a safety cable.

4. Step 4

Check if all fixing components are tightened correctly before applying the load.

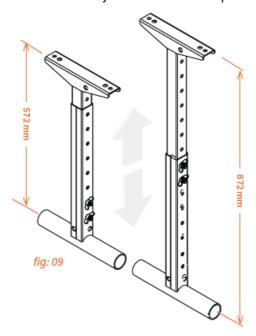
5. Step 5

Attach the load symmetrical to the bottom part of the FMRS.

ASSEMBLY INSTRUCTIONS DROP ARM SET

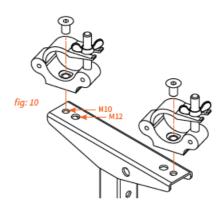
1. Step 1

Choose which length the Drop arm needs to be. If you want to use the basic Drop Arm, between 572 and 872 mm (fig: 09), continue with Step 2. If you need to expand the Drop arm using the length profiles (fig: 11) and Coupler set RIPFZK10, please follow the assembly instructions in chapter 5.1.



2. Step 2 (fig: 09)

Step 2: Slide the top part into the bottom part to the desired height. Secure the sides together with the screw set provided with the bottom side.

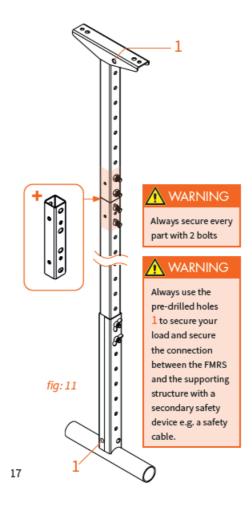


3. Step 3 (fig: 10)

Connect the clamp or coupler (not included) to the nut plate set, tighten with a torque setting of 25Nm.

4. Step 4 (fig: 11)

Use the safety eyes 1 in the Drop Arm to secure your load.



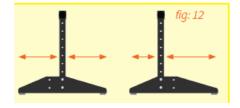
ASSEMBLY INSTRUCTIONS FLOOR RACK

WARNING

- Do not use the Freedom Floor Rack outside.
- Make sure no horizontal forces, like wind, are acting on the system.
- 1. Step 1 (fig: 12)

Before assembling the Floor rack, it's important to know which type of fixture you will be hanging in the system. CAUTION

Choose how you want to position (symmetrically or asymmetrically) the Freedom profile in the base. Make sure the point of gravity of the applied load is in the centre of the Freedom base.



NOTICE

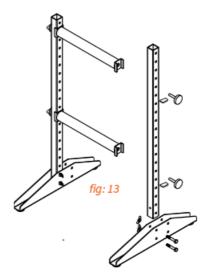
When selecting a base for your Floor rack, you have two choices: the support base or the flexible base. The flexible base allows you to fold down the Freedom profiles, making storage quick and easy. With the support base, the entire construction must be disassembled for storage since the profiles can't be folded. Note that the two bases are not compatible with each other due to their design differences.

2. Step 2 (fig: 13)

Assemble the hangers on to the length profiles, please follow the assembly instructions in chapter 5.2.

CAUTION

Always use a minimum of 2 hangers in a Floor rack.



3. Step 3 (fig: 13)

Connect the length profiles on to the support or flexible base. Tighten the self-locking nuts in such a way that three threads of the bolt are visible from the nut.

DISASSEMBLY INSRUCTIONS

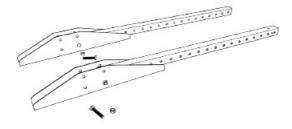
Follow chapter 5, 5.1 and 5.2 in reverse for disassembly of the FMRS.

NOTICE

When using the flexible base, you can easily store your Floor rack by simply removing the top screw from the base and folding down the Freedom profiles while they remain attached with the bottom screw.

STORAGE

- The FMRS must be stored in a dry, non-aggressive environment.
- · Make sure the parts cannot bend.
- Lay down flat for storage or transport. Only store or transport upright when using an appropriate storage frame / rack / flight case.
- Avoid vibrations. Rubbing parts can cause excessive wear and tear.



MAINTENANCE

SAFETY INSTRUCTIONS

The FMRS hardly needs any maintenance under normal use and environmental circumstances. For safety reasons however, all parts must be checked regularly for dirt, damage, loss and corrosion.

The FMRS 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 1 x per year. In case of doubt contact Admiral Staging.

- Check all components for damage and corrosion. Damaged and corroded parts shall be rejected and taken out
 of service.
- Remove all sharp and rough feeling edges and surfaces by using sand paper or a file. Check roll pins and welds for cracks. If cracked replace.

CAUTION

When replacing, only use genuine Admiral Staging components. Check chapter 4 for replacement parts.

WARRANTY

- For a period of 12 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 Staging distributors' warehouses
- The guarantee-period begins with the day of the delivery, proven by a purchase receipt like an invoice or delivery note or their copies.
- The guarantee is only applicable for new equipment.
- The guarantee 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 nonobservance of the safety regulations in this instruction manual.
- The guarantee will be invalid when other parts than the original Admiral Staging parts have been used or modifications of our design have been made by third parties.
- Guarantee repairs do not renew nor extend the guarantee period.
- In case of a claim that falls under the guarantee, e.g. a malfunction or spare part requirements please contact your point of sale or Admiral Staging.
- The manufacturer is not liable for indirect consequential damage and financial loss.
- The manufacturer shall not be liable for any changes made to the FMRS parts nor for any damage resulting from such changes.

CERTIFICATE

DECLARATION OF CONFORMITY FOR MACHINERY (2006/42/EG Annex II) Rolight Theatertechniek Josink Kolkweg 10 7545 PR Enschede The Netherlands

Herewith declares that:

Admiral Freedom Modular rigging system, all codes starting with: RIPF****

- is in compliance with the Machinery Directive 2006/42/EC annex II
- the following harmonized standards have been applied (or parts/clauses of):
 EN 12100-1-2010, EN 1999, EN 1993
- the following national technical standards and specifications have been used

(or parts/clauses of): German DGUV 17-18, German DGUV 215-313, DIN 15922:2018, EN 754 all parts, EN 755 all parts, EN 515, EN 573, EN 10204:2004Ms. E. Dijk Owner Rolight Theatertechniek b.v.

info@rolight.nl

Documents / Resources



ADMIRAL STAGING FREEDOM Modular Rigging System [pdf] Instruction Manual FREEDOM Modular Rigging System, FREEDOM Modular Rigging System, System

References

- | Rolight | Hoogwaardige licht-, video- en audioapparatuur voor de entertainmentbranche
- User Manual

Manuals+, Privacy Policy

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