

COSMIC TRUSS MANUAL

We would like to thank you for choosing COSMIC TRUSS trussing and ask for your own safety, to read and follow these operating instructions carefully, before first start-up.

GENERAL

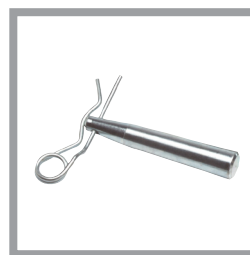
This trussing left our factory in perfect condition. If transport damages should be present, do not use this product and contact your specialized dealer. To guarantee a safe practice, the safety and warning notes listed in these operating instructions must be absolutely considered. Truss systems may only be built and dismantled by qualified staff. The warranty claim expires with damage, which is caused by neglect of the instructions. The manufacturer does not assume any liability for the damages resulting from it.

1. DRIFT

- When rigging, dismantling, or servicing the trussing, make sure the area below installation place is blocked off.
- Always fix lowered trusses with an appropriate safety-rope.
- Unauthorized modifications on the trussing are forbidden due to safety reasons

1.1 ASSEMBLY

COSMIC TRUSS products are designed user friendly and offer a convenient assembly. Nevertheless working with a truss construction requires a certain professional knowledge. Please do not attempt to work with truss if you are unsure and lack knowledge; contact a rigging specialist for assistance.



1. Check the truss, the truss pins, the conical and the safety clips for any damages. If any piece is damaged, do not use it and have it examined by a specialist or replace it with an original COSMIC TRUSS product.
2. Check that you have all parts.
 - a. 4-Point systems (e.g. F34) consist of 4 conical, 8 truss pins and 8 safety clips
 - b. 3-Point systems (e.g. F33) consist of 3 conical, 6 truss pins and 6 safety clips
 - c. 2-Point systems (e.g. F32) consist of 2 conical, 4 truss pins and 4 safety clips

3. Insert a conical half-way into a main tube and check that the drillings in the conical are aligned with the drillings in the main tube. The larger hole in the conical must face outwards.
4. Insert now a truss pin with the narrow side down and push it through. For a tolerance free connection, use a copper or synthetic hammer to drive the pin completely through the cone and main tube.
5. Push a safety clip through the small hole of the truss pin. This secures the pin so that it cannot fall out.
6. Repeat this step for each main tube. You might have to turn the truss to insert all truss pins and safety clips.
7. Insert now the truss with the conical side into the next truss you want to add and secure the main tubes of the second truss as well with all truss pins and safety clips.

If you are using a screwed COSMIC TRUSS system (e.g. M25AS) then you can use the same methods as described above. Make sure the nut is fixed on the screw, but not too tight, as it may damage your truss.

1.2 DISMANTLING

1. Remove all the safety clips
2. Push truss pins from the inside to the outside and remove them (If you use a synthetic or copper hammer to drive the pin out, be careful as the truss pin might fly off when you knock hard with the hammer)
3. Loosen the connection and pull the truss apart
4. Collect and secure all conical, truss pins and safety clips.

1.3 INSTALLATION

Please consider the DIN 15560 and the respective national norms during the installation.

- When rigging, dismantling, or servicing in an area where installation exists, always be sure that the ground surface is safe, stable, and not dangerous.
- The installation must always be secured with a secondary safety attachment, e.g. an appropriate catch net. This secondary system must be constructed in such a way that no part of the primary installation can fall down in the unlikely event that a portion of the primary system fails.
- The installation of the trussing has to be built and constructed in a way that it can hold 10 times the weight for one hour without any harming deformation.
- Security and mechanical technological facilities must be checked by an expert as follows:
 - at least once a year
 - before first start-up and after substantial modifications before the restarting operation
 - every four years to the extent of the acceptance checking

Qualified personnel must make sure that these checks are carried out as specified!

1.4 OVERHEAD RIGGING

This requires a high measure of experience. This means:

- Knowledge in the calculation to the definition of the load-capacity.
- Knowledge of the used installation material.
- Regular safety inspections of the used material and the device

If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Injuries and/or damages to property can be the result of an improper installation!

- The device must never be fixed swinging freely in the room and has to be installed out of reach of people.
- Before rigging make sure that the installation area can hold a minimum point load of 10 times the installation's weight. (Note: The maximum load of the truss can be found labeled on every COSMIC TRUSS trusses; Furthermore you can also download our free COSMIC TRUSS TOOLBOX application for your smartphone)

At overhead rigging the trussing must always be safeguarded with a safety-rope. This must satisfy the following conditions:

- Interpretation for at least the 12-fold weight of the fixture
- only quick link with screw cap
- maximum drop distance 20cm / 7.87 inches
- after single load due to fall or damage this may not be used any more

1.5 RESPONSIBILITES

- Always make sure with trussing constructions and/or buildings that all local authority regulations are adhered to.
- The characteristics of a structure made from COSMIC TRUSS components will change by making even the smallest change of parts and therefore a structure should be re-tested as described above after such changes.
- Depending upon your local situation, it is possible that further regulations must be considered. You should be aware of these and adhere to them accordingly.
- We would like to draw your attention to the fact that you are responsible for the trussing system provided by you, i.e. you must take care for it that the static regulations and all other regulations are kept. You are also responsible for any third parties used for rigging purposes and should send them any copies of mounting instructions, official approvals and load weight charts.
- You are also responsible for third party riggers, to send them a copy of the mounting instructions, the statistical removal and the official approvals.
- Please use only original COSMIC TRUSS products. It can easily be identified by the engraved COSMIC TRUSS Logo and the TUV approval label which can be found on every truss.
- The truss construction has to be properly earthed.

1.6 SERVICE

The following points must be particularly considered:

- Any screws in the construction must sit tightly and may not be corroded.
- No deformations may be visible to trusses, fastenings, support towers, or any other system component.
- Mechanically moved parts should not be moved in such a way as to cause them to become unbalanced, and any moving parts should not receive any wear or tear.
- Any electrical connecting cables may not show any sign of damages, deposits or material aging.
- Use only original COSMIC TRUSS spare parts.

If you have any questions, please do not hesitate to contact us: info@CosmicTruss.com or visit our website www.CosmicTruss.com for truss datasheets, load tables, statics and further information.

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