



ATOM GRIP (AG02-A)

USER GUIDE

Version 1.0

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Thank you for purchasing a Rigtec Atom Grip.

We hope you enjoy using the Atom Grip as much as we've enjoyed designing and manufacturing it.

If you have any questions, suggestions or just want to say hello; please contact the team at hello@rigtec.com





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SAFETY INFORMATION

These instructions should be handed over to the person carrying out the installation.

- Only a qualified, trained and competent technician should carry out installation work.
- The device should only be used with approved accessories and spares.
- Do not exceed the Working Load Limit (WWL) – when used with other accessories make sure that the Working Load Limit of any component is not exceeded.
- Care should be taken when lifting and moving – the combined weight of the device and any accessory should be within safe manual handling limits.
- Care should be taken when transporting that injury is not caused - make sure the device and any attached accessory is correctly secured.
- All equipment should be visually inspected before use and in the event of any damage, it must be immediately taken out of service and assessed by a competent person.
- Any suspended accessory must be independently secured with an approved safety wire/s. Local laws or regulations should be consulted regarding the additional safety of hanging equipment
- When working at elevated heights or under a suspended load, make sure that all necessary precautions have been taken.
- Only install the approved projectors into the Air Frame, as listed in the User Guide. Attempting to install projectors other than those listed in the User Guide may result in serious injury.
- Do not use the Air Frame outdoors. The Air Frame should not be installed where it can be exposed to wind or rain.
- Do not expose the Air Frame to moisture or excessive heat.
- Do not install the Air Frame on unstable surfaces.
- Do not hang the Air Frame from unstable, unsafe or inappropriate objects/structures. Ensure the structure can support the overall weight.
- When stacking Air Frames, ENSURE all four locking pins are securely positioned through the adjoining male and female Air Frame stacking connectors.





SAFETY INFORMATION

These instructions should be handed over to the person carrying out the installation.

- Do not install an Air Frame whilst people are under the hanging area.
- Do not make adjustments to a hanging Air Frame or Atom Grip whilst people are under the hanging area.
- A Minimum of TWO people should be used to lift, carry and install the Air Frame with a projector installed.
- Thorough examination of lifting equipment must take place at least every 12 months by a qualified technician.

In addition to these scheduled examinations, equipment will require a thorough examination following:

- Any accident or dangerous occurrence.
- Any significant change in conditions of use.
- Any long periods of inaction.
- Each time the equipment is used.





PART NAMES

Use this page as a reference of the various part names throughout this User Guide.

1. Clamp Handle
2. Clamp
3. Adjustment Handle
4. Ball Joint
5. Base
6. M8 Bolts (x 4)
7. M6 Bolts (x 4)





ADJUSTMENTS

The Atom Grip adjustment handle can be used to achieve 25° tilt and 360° rotation of the hanging projector. To operate the Atom Grip Adjustments follow these instructions:

1. Rotate the Adjustment Handle anti-clockwise to untighten the Atom Grip ball joint.
2. The Atom Grip Base and attached projector can now be tilted and rotated to the required angle and position.
3. Once the projector is in the required position, rotate the Adjustment Handle clockwise to tighten the Atom Grip ball joint.
4. The adjustment will now be locked into position. See Page 8 for how to achieve additional tightening and untightening of the ball joint.

The Accessory / Projector must not be moved whilst the Atom Grip Ball Joint is in a tightened position - failure to loosen the mechanism prior to adjustments WILL CAUSE DAMAGE TO THE ATOM GRIP.

When the Adjustment Handle is released, the attached accessory may unexpectedly swing from its clamped position depending on the speed the Adjustment Handle is moved, the weight and centre of gravity of the accessory – PRECAUTIONS SHOULD BE TAKEN TO AVOID ANY IMPACTS.

UNDER NO CIRCUMSTANCES SHOULD THE ADJUSTMENT HANDLE / LEVER BE REMOVED WHILE A LOAD IS BEING SUPPORTED.

1



2



3



4





ADJUSTMENTS

The Adjustment Handle is used to tighten and untighten the ball joint by simply rotating either clockwise or anti-clockwise. It is possible to tighten and untighten the ball joint more than one turn:

1. To untighten the ball joint further, follow these steps:
 - a) Lift the Adjustment Handle to disengage the lever.
 - b) Whilst raised, rotate the handle clockwise.
 - c) Release the handle, so it lowers and reengages with the mechanism.
 - d) Rotate Adjustment Handle anti-clockwise to loosen the ball joint further.
2. To tighten the ball joint further, follow these steps:
 - a) Lift the Adjustment Handle to disengage the lever.
 - b) Whilst raised, rotate the handle anti-clockwise.
 - c) Release the handle, so it lowers and reengages with the mechanism.
 - d) Rotate Adjustment Handle clockwise to tighten the ball joint further.

The Accessory / Projector must not be moved whilst the Atom Grip Ball Joint is in a tightened position - failure to loosen the mechanism prior to adjustments WILL CAUSE DAMAGE TO THE ATOM GRIP.

When the Adjustment Handle is released, the attached accessory may unexpectedly swing from its clamped position depending on the speed the Adjustment Handle is moved, the weight and centre of gravity of the accessory – PRECAUTIONS SHOULD BE TAKEN TO AVOID ANY IMPACTS.

UNDER NO CIRCUMSTANCES SHOULD THE ADJUSTMENT HANDLE / LEVER BE REMOVED WHILE A LOAD IS BEING SUPPORTED.

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1a



b



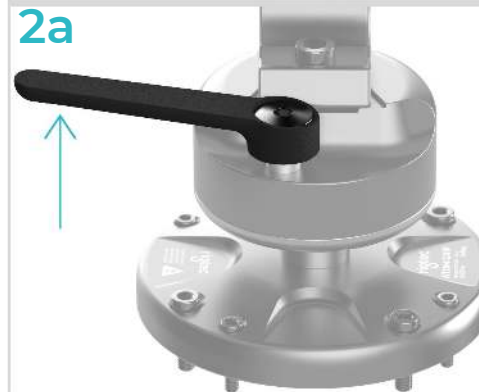
c



d



2a



b



c



d





ATTACHING TO AN AIR FRAME

To attach an Atom Grip to any of the 3 Atom Grip Attachment Plates on an Air Frame please follow these instructions:

Required Tools:

- 6mm Hex Key (Allen Key)

1. Place the Atom Grip on to the Atom Grip Attachment Plate. Line the M8 bolts up with the M8 Atom Grip Threads.
2. To help prevent damage to the M8 Atom Grip Threads on the Air Frame it is good practice to initially attach the bolts by hand. Attach each bolt loosely, gradually tighten them evenly.
3. Once all bolts are located in the threads and loosely attached; use a 6mm Hex Key to tighten. Tighten all four bolts evenly.
4. Ensure all four M8 bolts are **torqued to 6 ± 0.5 Nm (M8)**.

Any suspended accessory must be independently secured with an approved safety wire/s. Local laws or regulations should be consulted regarding the additional safety of hanging equipment.

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4





HANGING FROM A TRUSS

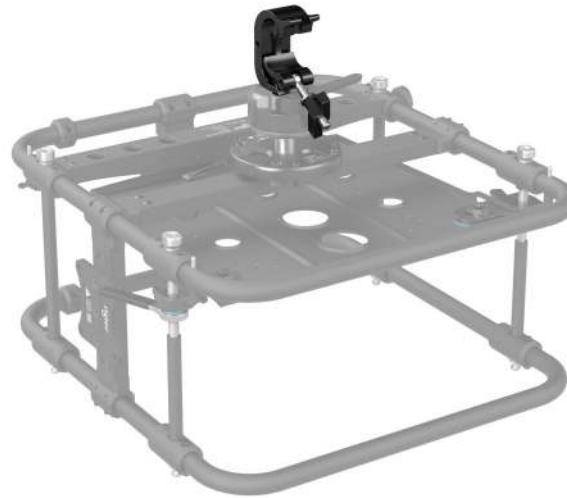
Once the Atom Grip is attached to the Air Frame it can be hung from a Truss. Follow these instructions:

1. Firstly, ensure the Atom Grip is correctly attached to the Air Frame (See Page 9). Then untighten and open the clamp by using the clamp handle.
2. Lift the complete structure to the truss (Do Not Exceed Safe Manual Handling Limits - Two or more people may be required to lift)
3. Hang the Atom Grip Clamp from the truss.
4. Ensure the clamp is closed and tightened by tightening the clamp handle using hand pressure only.

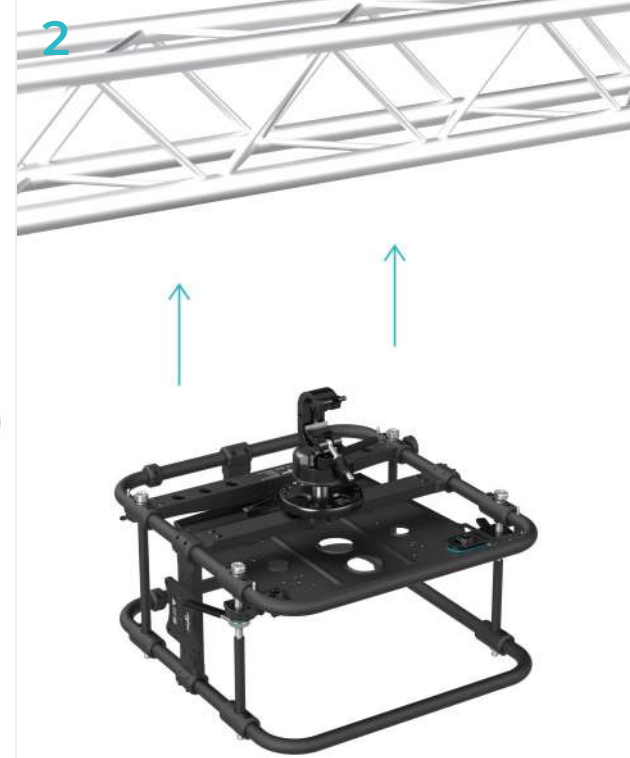
Only use the clamp on the correct size tube (48-51mm) in a horizontal orientation and make sure that the tube has end stops or is fully enclosed.

Any suspended accessory must be independently secured with an approved safety wire/s. Local laws or regulations should be consulted regarding the additional safety of hanging equipment.

1



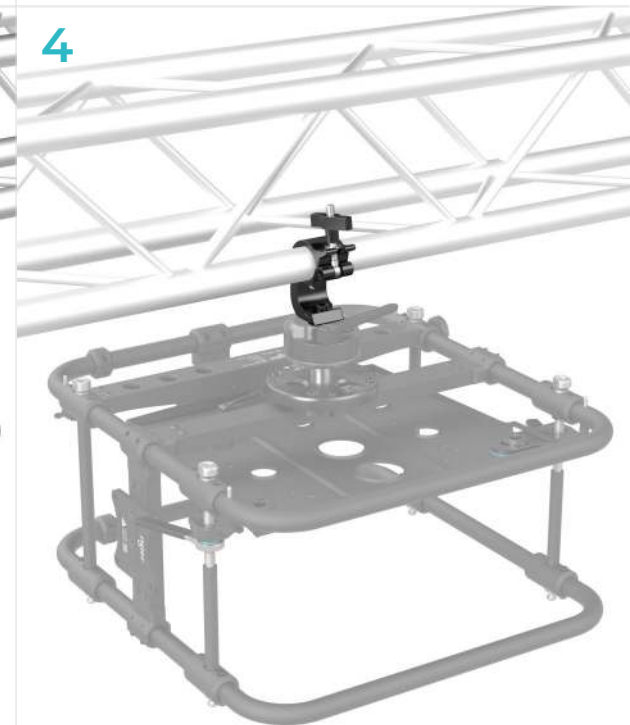
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SAFETY STEEL CABLES

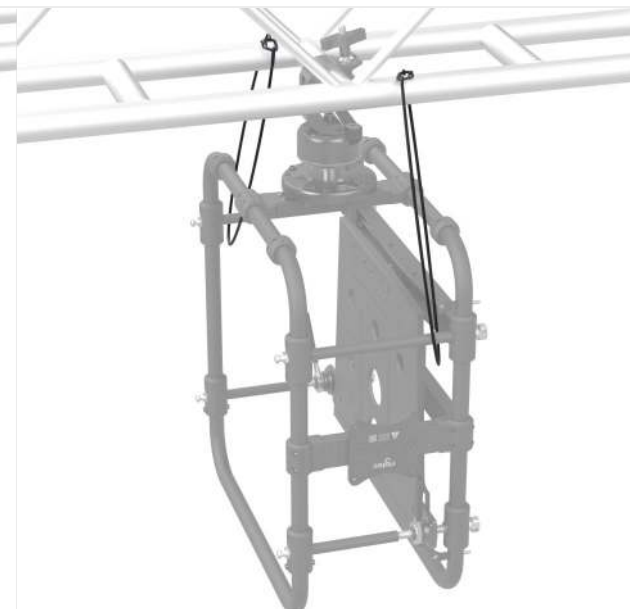
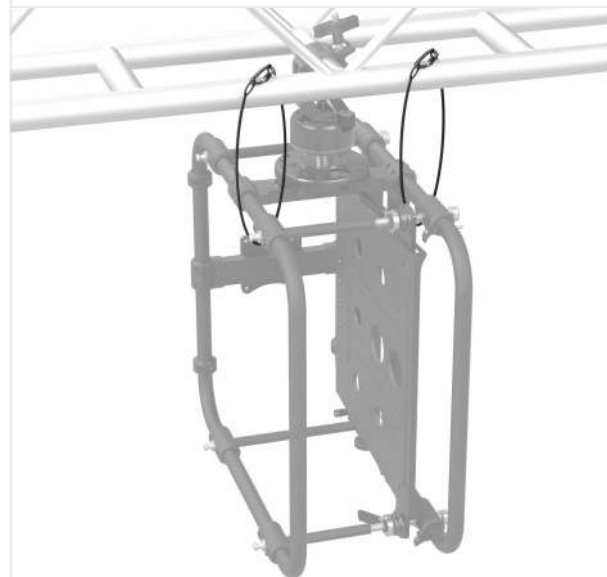
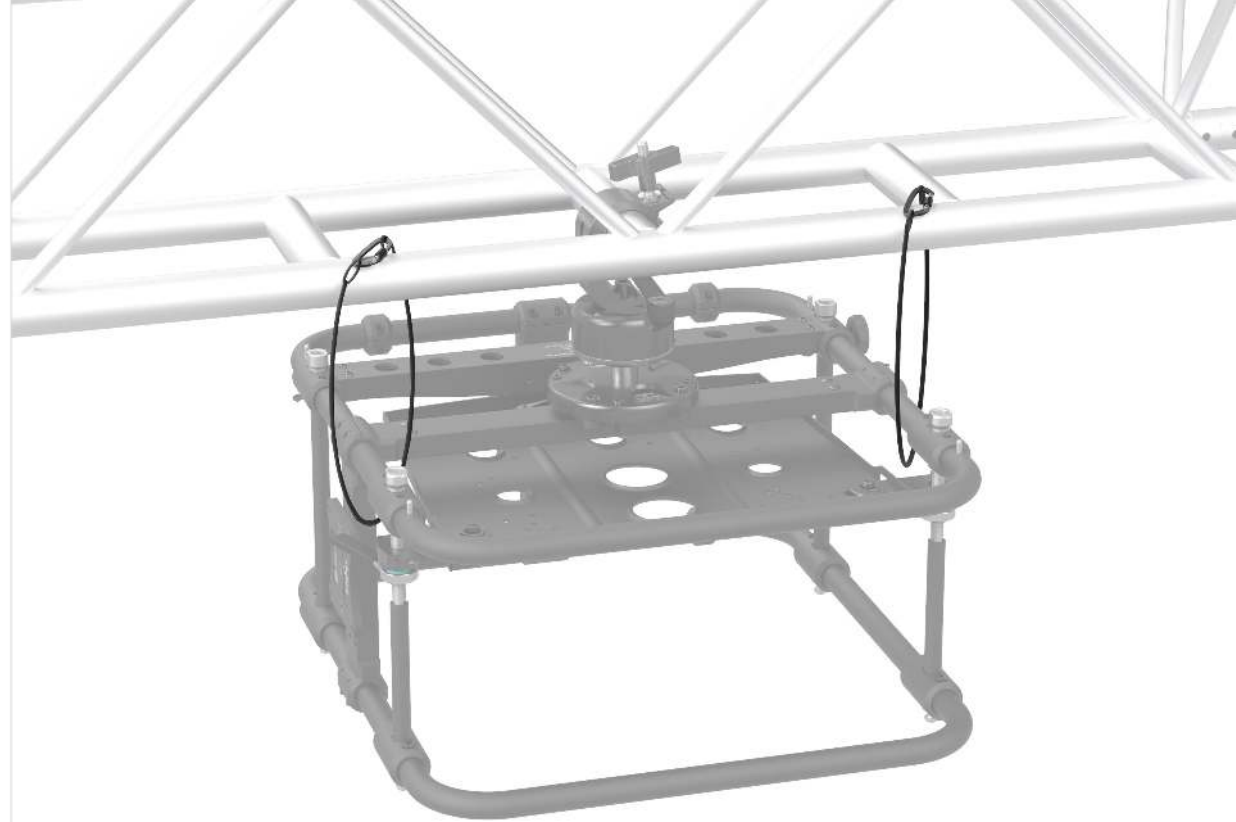
The installer bears the responsibility to ensure the Air Frame and Atom Grip is suspended in a safe and secure fashion. Safety Steel Cables must be applied to suspended Air Frames according to local regulations and standards. For more information on safely suspending equipment please consult local laws and regulations.

The installer must ensure safety cables are the correct length, format and strength - No drop distance is allowed or must be limited as much as possible.

Please follow these instructions and diagrams when choosing where to position Safety Steel Cables on Rigtec Air Frames:

1. **Landscape Orientation;** Please loop safety steel cables around the suspending truss and through the Air Frame, around the Side Bars
2. **Portrait Orientation;** Please loop safety steel cables around the suspending truss and through the Air Frame, around the Side Bars.
3. **Floor Projection Orientation;** Please loop safety steel cables around the suspending truss and through the Air Frame, around the Back Bars.

DO NOT USE THE REMOVABLE FRONT BAR FOR ATTACHING A SAFETY STEEL CABLE





SPECIFICATION

Part Number: AG02-A

Description: Atom Grip

Flying Weight: 4.2kg / 9.25 lbs

Working Load Limit (WWL): 245kg / 540.13 lbs

Tilt Adjustment: 25°

Rotation Adjustment: 360°

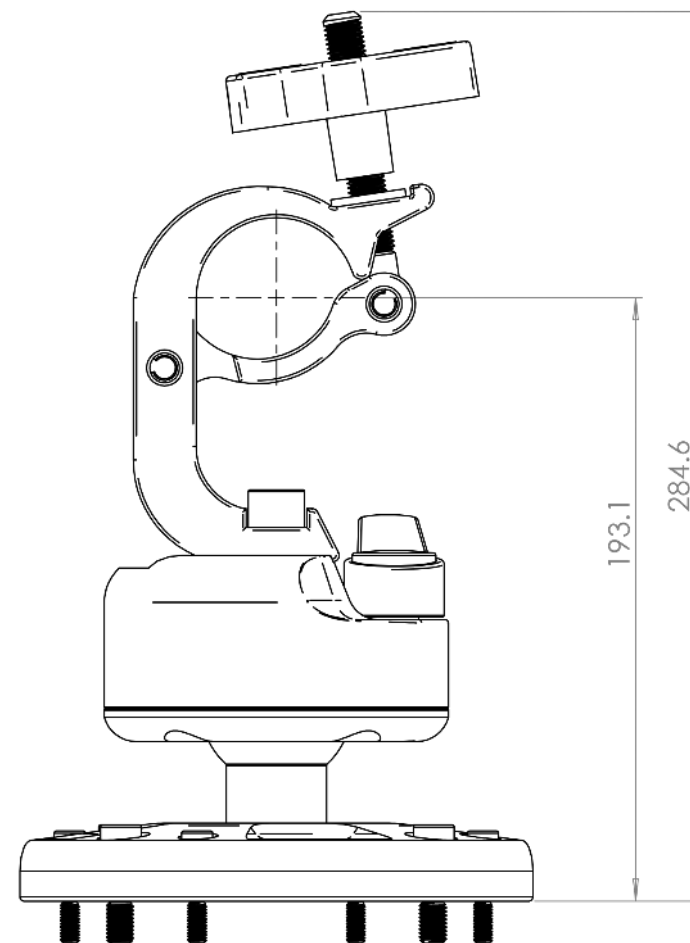
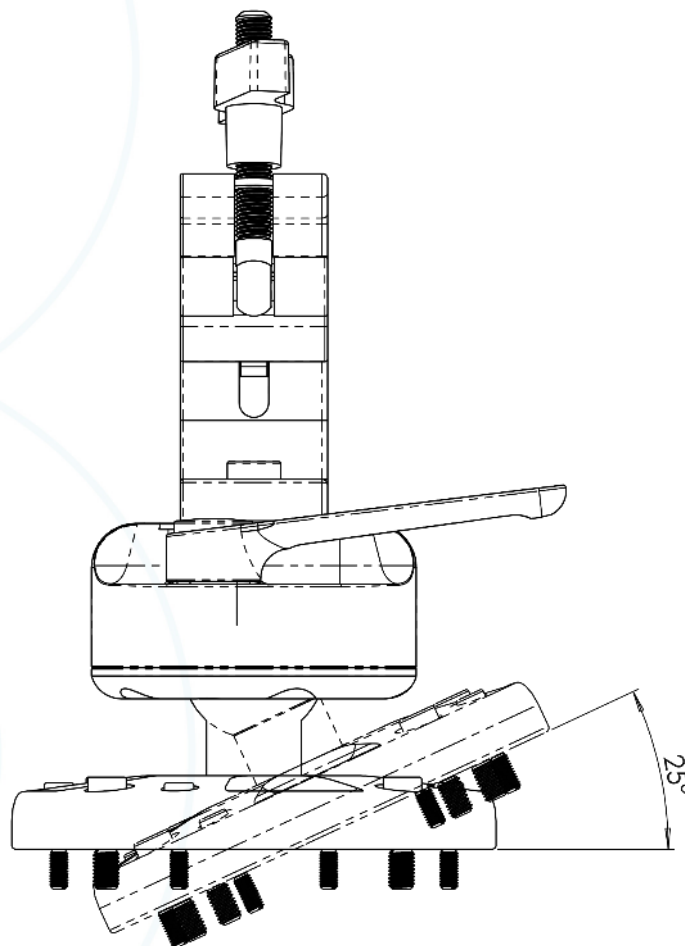
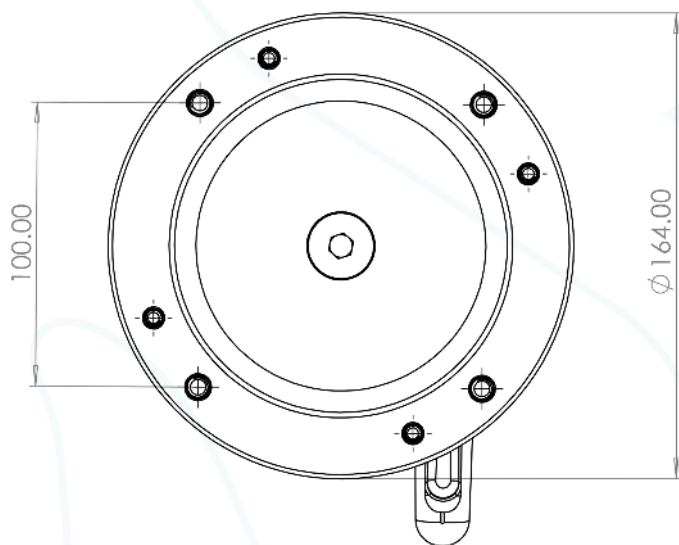
Tube Diameter: Ø48-51mm

Bolt Size: 4 x M8 / 4 x M6





DIMENSIONS





CE DECLARATION OF CONFORMITY



Manufacturer:

Rigtec
Unit B1 Holly Farm Business Park
Kenilworth
CV8 1NP
+44 (0) 1926 290 418
www.rigtec.com

Description of lifting accessory: Atom Grip

Part Number: AG02-A

Is in accordance with the following Directive:

Machinery Directive 2006/42/EC

Harmonised Standards:

EN ISO 12100:2010

Safety of machinery. General principles for design. Risk assessment and risk reduction

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all applicable essential requirements of the EC directives.

Signed:

A handwritten signature in black ink, appearing to be "Matthew Boyse".

Matthew Boyse - Authorised Representative

Rigtec Ltd

18/05/2021

Registered Address: Unit B1 Holly Farm Business Park, Honiley, Kenilworth,
Warwickshire, CV8 1NP

Registration Number: 08702138





UKCA DECLARATION OF CONFORMITY

Manufacturer:

Rigtec
Unit B1 Holly Farm Business Park
Kenilworth
CV8 1NP
+44 (0) 1926 290 418
www.rigtec.com



Description of lifting accessory: Atom Grip

Part Number: AG02-A

Is in accordance with the following Directive:

Supply of Machinery [Safety] Regulations 2008 and Supply of Machinery [Safety] Regulations [A] 2011

Harmonised Standards:

EN ISO 12100:2010

Safety of machinery. General principles for design. Risk assessment and risk reduction

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all applicable essential requirements of the UKCA directives.

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