



<i>Clamps 32-35 mm</i>	C6005, C6006, C6031, C6033, C6035
<i>Clamps 48-51 mm</i>	C6001, C6002, C6003, C6004
	C6007, C6011, C6015, C6016, C6017
	C6020, C6022, C6031, C6032, C6033
	C6034, C6040, C6042, C6001SPG, C6002SPG
<i>Clamps 40-70 mm</i>	C6044
<i>Clamps 48-80 mm</i>	C6018

USER MANUAL

Thank you for choosing PROTRUSS

Please note that every PROTRUSS product has been designed in Italy to meet quality and performance requirements for professionals and designed and manufactured for the use and application as shown in this document.

Any other use, if not expressly indicated, could compromise the good condition/operation of the product and/or be a source of danger.

This product is meant for professional use. Therefore, commercial use of this equipment is subject to the respectively applicable national accident prevention rules and regulations.

Features, specifications and appearance are subject to change without notice. Music & Lights S.r.l. and all affiliated companies disclaim liability for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document.

Product user manual can be downloaded from the website www.PROTRUSS.it , or can be inquired to the official PROTRUSS distributors of your territory (https://www.PROTRUSS.it/sales_network.html).

Scanning the below **QR Code**, you will access the download area of the product page, where you can find a broad set of always updated technical documentation: specifications, user manual, technical drawings, photometrics, personalities, fixture firmware updates.



Visit the download area of the product page: clamp 32-25 mm



Visit the download area of the product page: clamp 48-51 mm



Visit the download area of the product page: clamp 40-70 mm



Visit the download area of the product page: clamp 48-80 mm

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SAFETY INFORMATION



WARNING!

- Please read carefully the instruction reported in this section before installing, operating or servicing the product and observe the indications also for its future handling.

General

- The PROTRUSS clamps consists of various clamps used to lift loads or make structural connections. Clamps are used in the entertainment market. They can be used for permanent support structures in places of entertainment such as museums, event venues, theatres etc.
- Lifting loads is inherently dangerous so clamps are strictly for professional use only.
- Only competent persons are permitted to install and use PROTRUSS clamps. A competent person in this respect is an individual with relevant technical education, training and/or experience enabling him or her to perceive risks and to avoid hazards occurring during use of a product.
- The load capacity differs depending on the model and the safety factor required. Clamps are suitable to fit steel and aluminium tubes of diameters ranging from 32 mm to 80 mm depending on the model. Clamps are marked with the working load limit for static loading.
- Most clamps are available in silver (polished aluminium) or black coating.
- Special attention has been taken to safety. Therefore the TUV test certificates indicate the Working Load Limit.
- PROTRUSS has endeavoured to deliver the highest degree of accuracy possible. However, continuous improvement of our products is a PROTRUSS Policy. Therefore, product specifications are subject to change without notice.
- Readers and users are encouraged to notify PROTRUSS of errors and send in suggestions for improvement. All communications will be carefully considered for future printings of this manual and changes to our products.
- Some models of clamps are composed of different elements each with an individual Working Load Limit. The lowest of the working loads limit determines the overall strength and thus shall be used as max working load limit for the application.
- When clamps form part of a lifting machine or lifting system, the lifting machine or system shall be tested and marked with its WLL and appropriate certification issued.
- The resulting forces in the structure attached shall be verified before applying a load.

Scope

- The intended use of clamps is to be used as a lifting accessory to hang loads or create a connection between structural elements. Loads can be, but not limited to, lighting fixtures, video projectors, sound systems and stage sets.
- Structural elements can be pipes, trusses, tubular frame works or lifting brackets.
- Any use other than that mentioned is considered to be a case of misuse. The user/operator and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse.
- The use of clamps for scaffolding purposes under EN74 is explicitly excluded from the intended use.



Limitation of use

- Check local legislation for the application of use and adapt the use where ever necessary.
- The clamps can be operated in -20° Celsius up to +60° Celsius.
- Salt water environments require cleaning with fresh water at least once per week.
- Clamps shall only be used on steel or aluminium tubes or bars.
- When clamps are used as part of an outdoor lifting system, special factors such as ground condition and profile, wind loading, water accumulation on temporary structures and other criteria shall also be taken into account.
- When used in conjunction with any other accessories, care must be taken to ensure the Max Load of any component is not exceeded.
- Do always use a secondary safety when holding more than 50% of the marked WLL with persons in the hazard zone.
- The use of clamps is the sole responsibility of the user.
- To use the clamps the user must also observe the safety regulation, the assembly and dis-assembly instructions to be found in this manual.
- All persons who use and service this device have to be acquainted with this manual and must be informed about its potential hazards.
- It is also imperative to observe the local accident prevention regulations and/or occupational health and safety regulations.
- The manufacturer is not liable for indirect consequential damage and financial loss. The manufacturer shall not be liable for any changes made to the device nor for any damage resulting from such changes.

Modification

The following modifications are allowed to be executed by third parties.

Nut replacement: The standard nut shall be replaced by a self-locking nut when:

- Loads are predominantly dynamic.
- Loads are moving and change position.

Painting:

- To paint a clamp, cover all bolts and nut with tape.
- Use blasting to roughen the surface and to degrease the clamp.
- Use a wet-paint or powder coating paint system to colour the part.

Maintenance

- The clamps hardly need any maintenance under normal use and environmental circumstances. For safety reasons however, all parts must be checked regularly for damages, loss and corrosion.
- The clamp 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 PROTRUSS.
- Check all components for damage and corrosion. Damaged and corroded parts shall be removed and thrown away.
- Replaced component shall be genuine PROTRUSS components only.
- Replaced nuts must be in 8.8 grade.
- Check roll pins for cracks. If cracked replace.
- Barks and sharp edges shall be removed by a fine sandpaper or a veil.
- Maintenance and repairs can be executed only by competent persons. In any doubt you should contact the manufacturer.



Warning

Do not lift loads without the following precautions.

- Use a Self-locking nut instead of the wingnuts on the eye bolts when loads are predominantly dynamic and loads are moving and change position.
- For health and safety reasons people assembling, disassembling, transporting, maintaining and cleaning Clamps should wear adequate Personal Protection Equipment suitable for the environment you are working in such as, but not limited to; gloves, hard hats and safety shoes.
- Do Not lift loads above people.
- Do Not lift loads with any personnel in the lifting zone.
- Clamps shall be solely used for the range of pipe diameters as stated on the clamp. The use of a clamp on other diameter pipes will lower the working load limit.
- Do not exceed the working load limit engraved on the clamp and in this Manual or Max Load as instructed by your installer, as the installation conditions may alter the Max Load that can be applied to the clamp.
- Make sure the resulting forces on the supporting structure are approved by a competent person.
- All loads imposed shall be considered. E.g. dynamic forces caused by the lifting machinery.
- Bolts and nuts shall be tightened by means of a spanner in such a manner they cannot be released by man power.
- When loads are using electrical power, equip-potential bonding shall be put in place.
- Clamps shall be inspected by a competent person as often as required but with a minimum of once a year.
- Inspect equipment before every use. Damaged clamps shall be taken out of service and returned to an 'Approved Service Agent' for inspection.
- A clamp must be taken out of service immediately if, during use, repair or maintenance any serious damage is discovered.
- Maintenance and repairs and installation can be undertaken only by authorised personnel. If in any doubt contact the manufacturer.
- Do not throw clamps.
- Failure to carry out maintenance as necessary, including the replacement of parts to the correct standard, could render this equipment unsafe and the manufacturer cannot accept any responsibility in this respect.

Transport and storage

- Due to the relatively high self-weight it is advised to keep storage bins as small as possible in such a manner they can be lifted by one person. Local legislation for maximum load to be lifted by persons shall be adhered to.
- Before clamps are put into storage they shall be checked for defects. Defective clamps shall be clearly marked and put aside in such a way they cannot be re-used.
- Put the lid and eye bolt together and hand tighten. This way bolts will not get lost during transport.
- Ensure the product is stored and kept in a dry, ventilated environment to avoid corrosion.
- Do not store aluminium clamps in steel bins.

Disclaimer

The manufacturer accepts no responsibility for:

- Any use not compliant with the present instructions.
- Any use by untrained personnel.
- Any case when the safety standards are infringed.

The products to which this manual refers comply with:

- 2 PFG 1230/02.2016 - TÜV-Mark Approval.



1 - TECHNICAL DATA

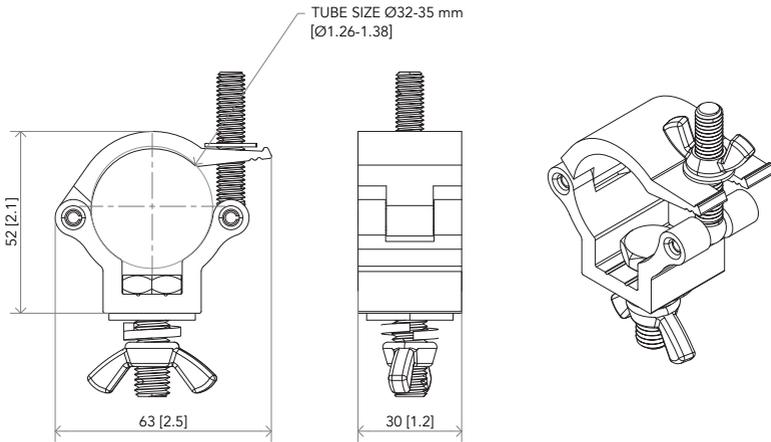
CODE	DESCRIPTION	TUBE DIAMETER	FINISH	WLL Working Load Limit
C6005A/B	Lightweight aluminum clamp, M10 bolt	32-35 mm	Aluminium / Black	75 kg / 165 lb
C6006A/B	Aluminum selflock swivel coupler	32-35 mm	Aluminium / Black	50 kg / 110 lb
C6035A/B	Slim aluminum clamp, M8 bolt	32-35 mm	Aluminium / Black	75 kg / 165 lb
C6001A/B	Heavy-load aluminum clamp, M10 bolt	48-51 mm	Aluminium / Black	500 kg / 1102,31 lb
C6002A/B	Slim aluminium clamp, M10 bolt, Aluminium	48-51 mm	Aluminium / Black	200 kg / 440,92 lb
C6003A/B	Heavy-load aluminum swivel coupler	48-51 mm	Aluminium / Black	500 kg / 1102,31 lb
C6004A/B	Aluminum selflock clamp, M10 bolt	48-51 mm	Aluminium / Black	250 kg / 551,15 lb
C6007A/B	Lightweight quick-lock clamp, M10 bolt	48-51 mm	Aluminium / Black	100 kg / 220 lb
C6011A/B	Lightweight aluminum clamp, M10 bolt	48-51 mm	Aluminium / Black	100 kg / 220 lb
C6015A/B	Aluminum selflock swivel coupler	48-51 mm	Aluminium / Black	100 kg / 220 lb
C6016A/B	Selflock slim clamp, M10 bolt	48-51 mm	Aluminium / Black	250 kg / 551,15 lb
C6017A/B	Heavy-load aluminum clamp, with lifting eye	48-51 mm	Aluminium / Black	200 kg / 440,92 lb
C6020A/B	Heavy-load aluminum side-clamp, M10 bolt	48-51 mm	Aluminium / Black	500 kg / 1102,31 lb
C6022A/B	Heavy-load aluminum slim swivel coupler	48-51 mm	Aluminium / Black	200 kg / 440,92 lb
C6028A/B	Slim aluminum clamp, with half-spigot	48-51 mm	Aluminium / Black	200 kg / 440,92 lb
C6032	Aluminum clamp, 5 kg loading, M10 bolt	48-51 mm	Aluminium	5 kg / 11,02 lb
C6034A/B	Slim aluminum clamp, M10 bolt	48-51 mm	Aluminium / Black	200 kg / 440,92 lb
C6040A/B	Aluminum clamp for 28mm spigot	48-51 mm	Aluminium / Black	200 kg / 440,92 lb
C6042A/B	Aluminum clamp for 28mm spigot + 16mm pin	48-51 mm	Aluminium / Black	200 kg / 440,92 lb 40 kg / 88,18 lb*
C6001SPG	Heavy-load aluminum clamp with spigot, M10 bolt	48-51 mm	Aluminium / Black	500 kg / 1102,31 lb
C6002SPG	Slim aluminium clamp with spigot, M10 bolt	48-51 mm	Aluminium / Black	200 kg / 440,92 lb
C6031	Superclamp in die-cast aluminum, M10 bolt	Flat surface grip: 13-30 mm Tubes grip: 15-50 mm	Black	15 kg / 33,06 lb
C6033A/B	Light-weigh steel clamp, M10 bolt	35-51 mm	Aluminium / Black	40 kg / 88,18 lb
C6044	Selflock slim clamp for 28mm spigot	40-70 mm	Aluminium	100 kg / 220 lb
C6018A/B	Selflock slim clamp, M12 bolt	48-80 mm	Aluminium / Black	200 kg / 440,92 lb

*300 kg (440,92 lb) for 28 mm spigot, 40 kg (88,18 lb) for 16mm pin.

2 - TECHNICAL DRAWINGS

CLAMPS 32-35 mm

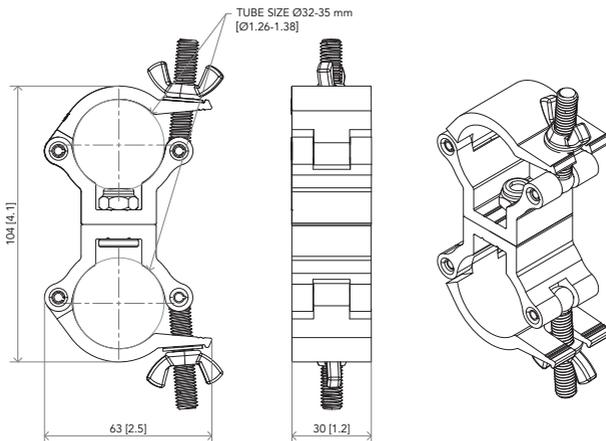
C6005A/B - WLL: 75 kg / 165 lb



Weight: 0,13 kg - 0,29 lbs

Lightweight aluminium clamp.

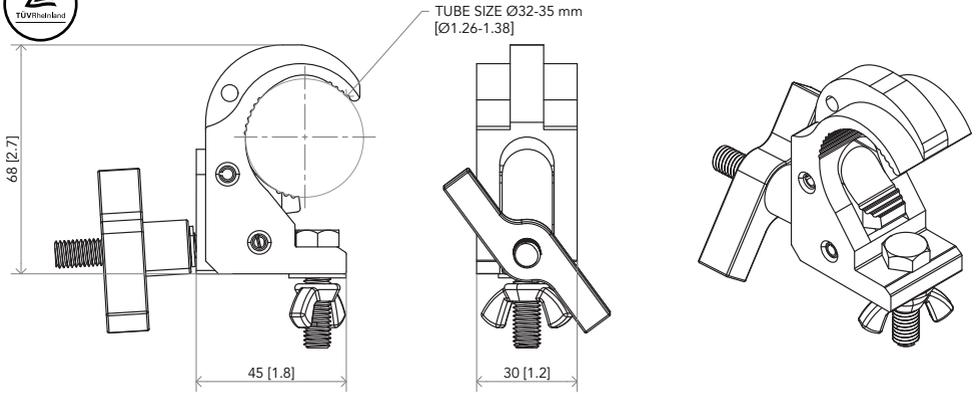
C6006A/B - WLL: 50 kg / 110 kg



Weight: 0,18 kg - 0,41 lbs

Set of two aluminium clamps free ee to rotate 360° for connection of two tubes.

C6035A/B - WLL: 75 kg / 165 lb



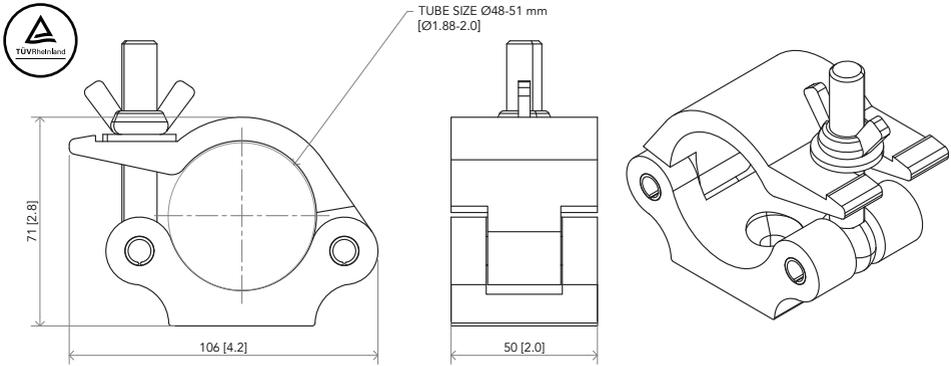
Weight: 0,29 kg - 0,64 lbs

Clamp manufactured from die-cast aluminium for lightweight equipment. The design has been conceived to eliminate truss damage usually associated with steel hook clamps and grants a faster mounting through two turns of the knob.

Fig. 01

CLAMPS 48-51 mm

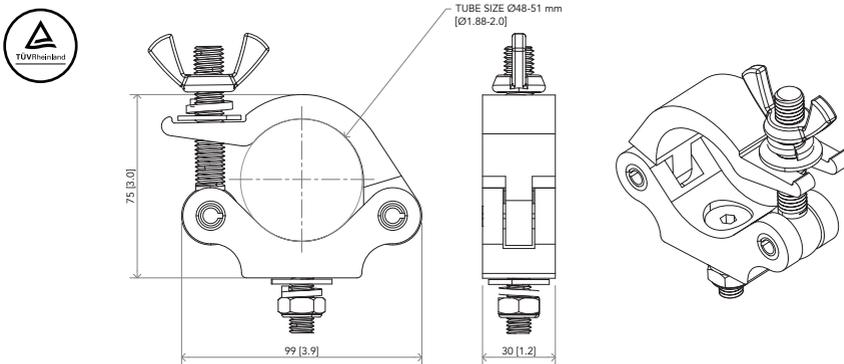
C6001A/B - WLL: 500 kg / 1102,31 lb



Weight: 0,52 kg - 1,14 lbs

Aluminium basic clamp can be used for most applications. There are used to suspend or make structural connections between tube and a variety of objects using an M10 fixing.

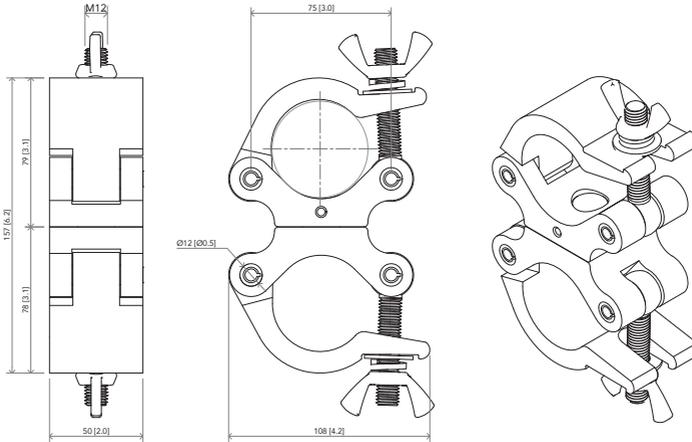
C6002A/B - WLL: 200 kg / 440,92 lb



Weight: 0,36 kg - 0,79 lbs

Aluminium slim clamps can be used for most applications. There are used to suspend or make structural connections between tube and a variety of objects using an M10 fixing.

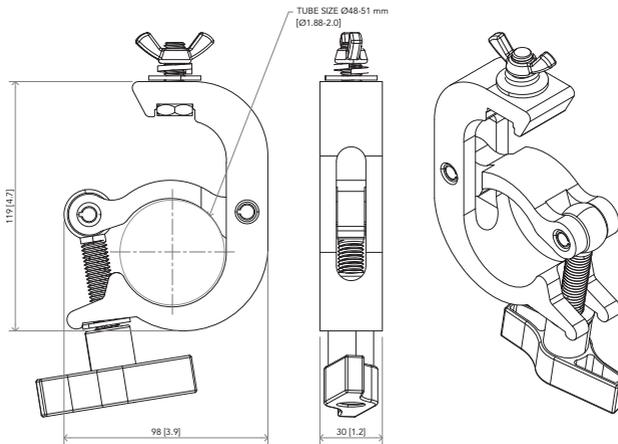
C6003A/B - WLL: 500 kg / 1102,31 lb



Weight: 1,02 kg - 2,24 lbs

Set of two aluminium clamps free to rotate 360° for connection of two tubes.

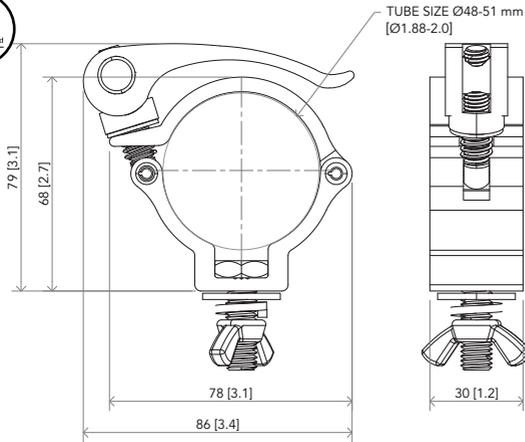
C6004A/B - WLL: 250 kg / 551,15 lb



Weight: 0,47 kg - 1,03 lbs

Aluminium selflock clamps designed to allow one person to hang heavy luminaires, through the automatic closing of the selflock.

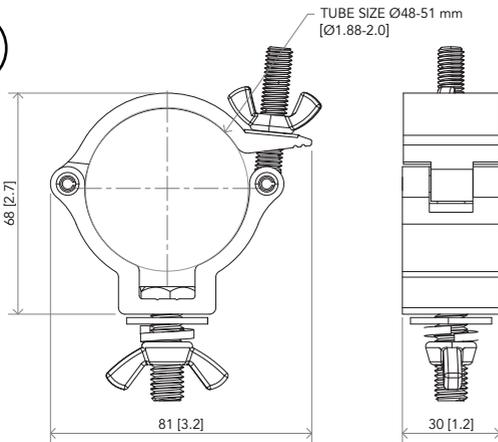
C6007A/B - WLL: 100 kg / 220 lb



Weight: 0,18 kg - 0,41 lbs

Aluminium clamp with a quick-locking system.

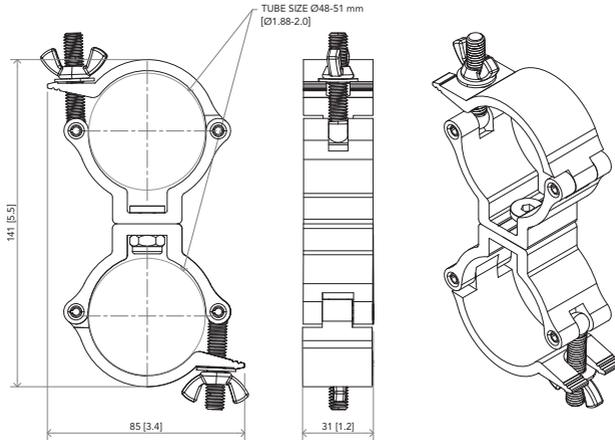
C6011A/B - WLL: 100 kg / 220 lb



Weight: 0,15 kg - 0,34 lbs

Aluminium slim clamp can be used for lightweight applications.

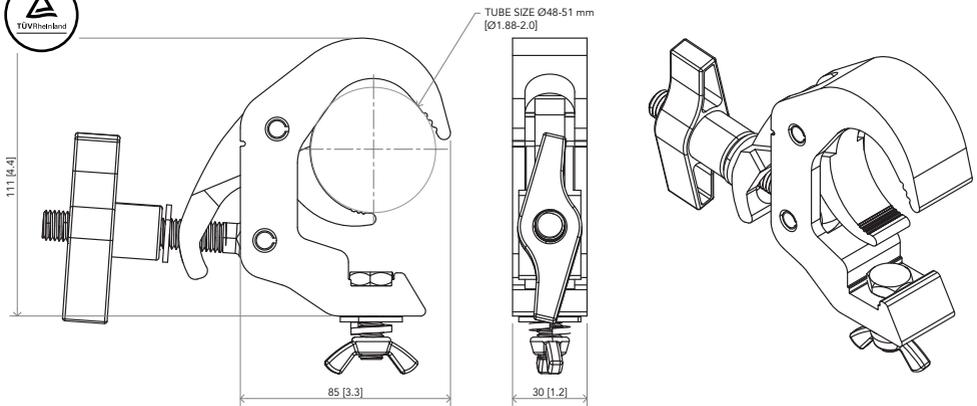
C6015A/B - WLL: 100 kg / 220 lb



Weight: 0,23 kg - 0,50 lbs

Set of two aluminium slim clamps free to rotate 360° for connection of two tubes.

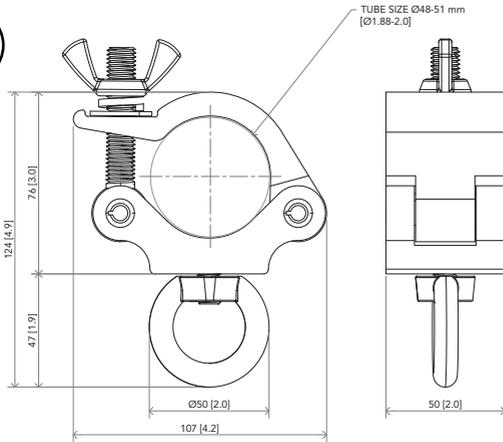
C6016A/B - WLL: 250 kg / 551,15 lb



Weight: 0,48 kg - 1,05 lbs

Aluminium clamp designed to allow one person to hang heavy luminaires, through the automatic closing with the weight of the object being hung.

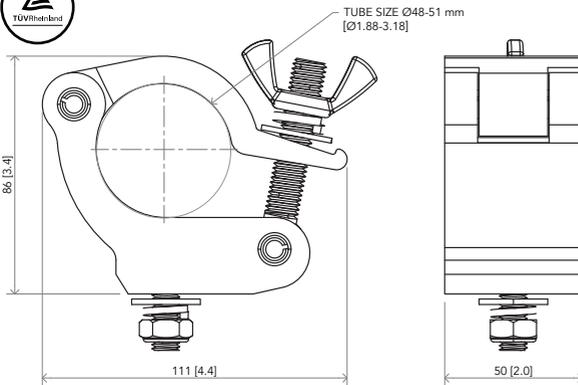
C6017A/B - WLL: 200 kg / 440,92 lb



Weight: 0,59 kg - 1,30 lbs

Aluminium clamp with eyebolt applied used to secure rope directly or via shackles, karabiners, hooks etc.

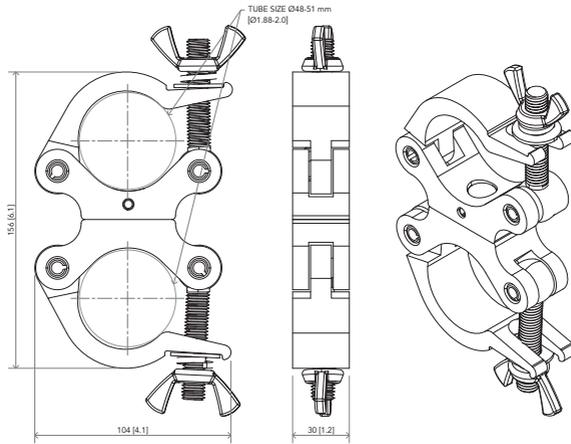
C6020A/B - WLL: 500 kg / 1102,31 lb



Weight: 0,6 kg - 1,33 lbs

Aluminium side entry clamps are used to suspend or make structural connections between truss or barrel and a variety of objects using an M10 fixing.

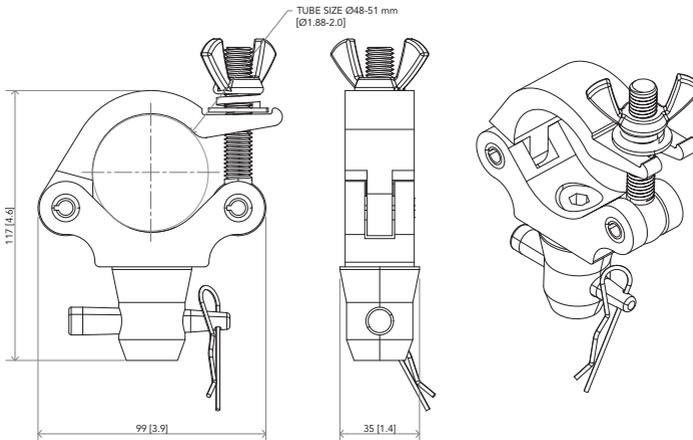
C6022A/B - WLL: 250 kg / 551,15 lb



Weight: 0,68 kg - 1,49 lbs

Aluminium double-clamp free to rotate 360° for connection of two tubes.

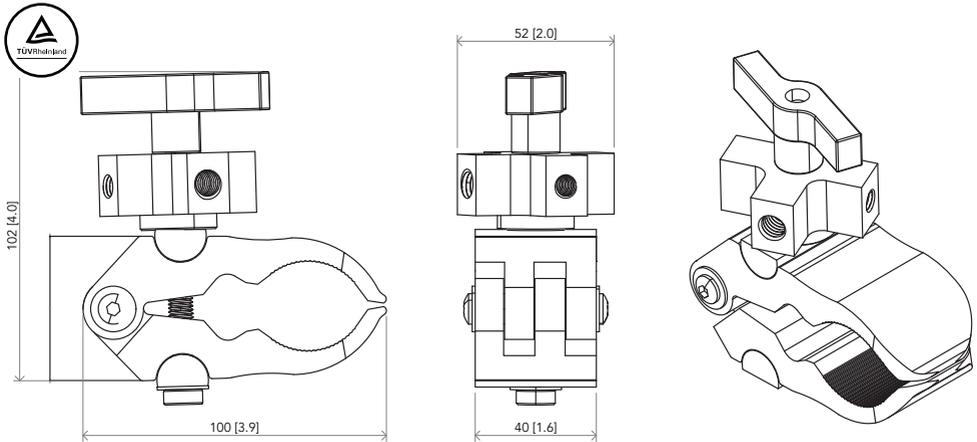
C6028A/B - WLL: 200 kg / 440,92 lb



Weight: 0,15 kg - 0,33 lbs

Aluminium slim clamp with half spigot.

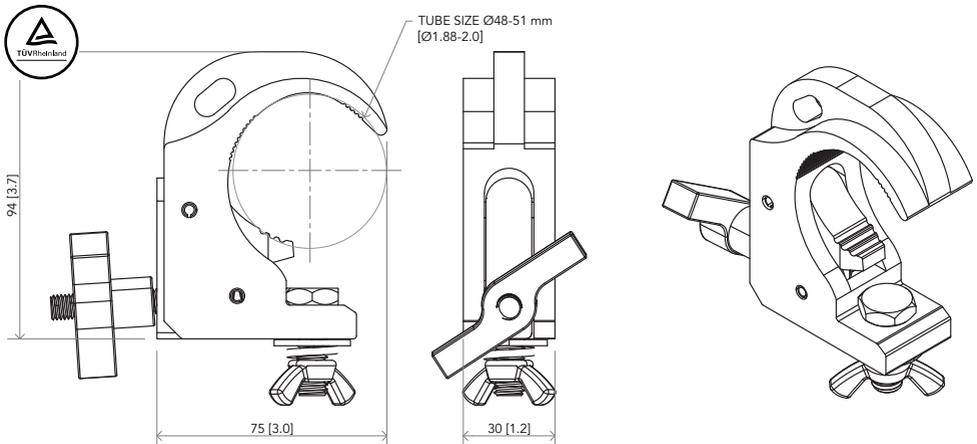
C6032A/B - WLL: 5 kg / 11,02 lb



Weight: 0,42 kg - 0,92 lbs

Clamp manufactured from die-cast aluminium for light-weight equipment. Its design has been conceived to eliminate truss damage

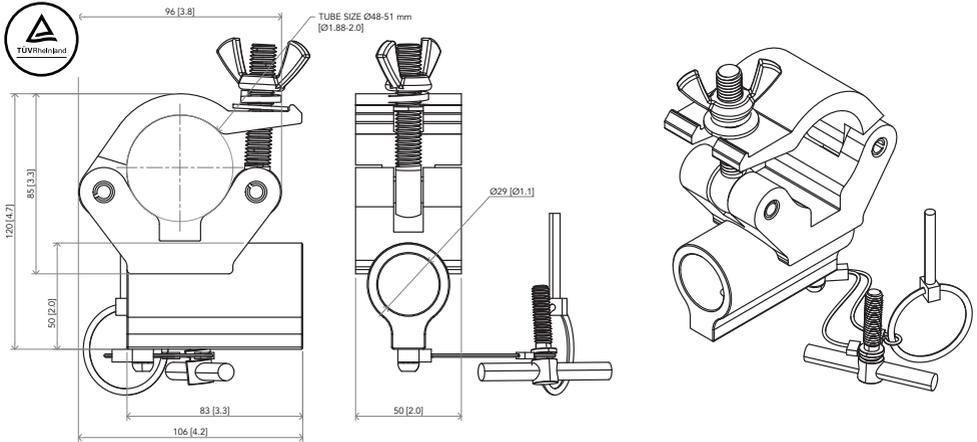
C6034A/B - WLL: 200 kg / 440,92 lb



Weight: 0,29 kg - 0,64 lbs

Clamp manufactured from die-cast aluminium for light-weight equipment. The design has been conceived to eliminate truss damage usually associated with steel hook clamps and grants a faster mounting through two turns of the knob.

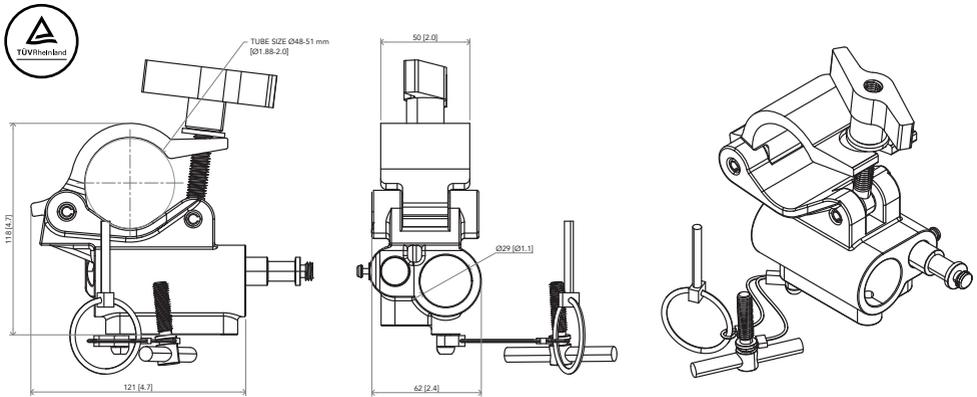
C6040A/B - WLL: 200 kg / 440,92 lb



Weight: 0,97 kg - 2,13 lbs

Aluminum clamp for 28 mm spigot (ECLFRSPG), equipped with safety pin.
The clamp is equipped with a 28 mm spigot hole that allows quick and easy fixing of lighting tools and fixtures equipped with a 28 mm spigot.

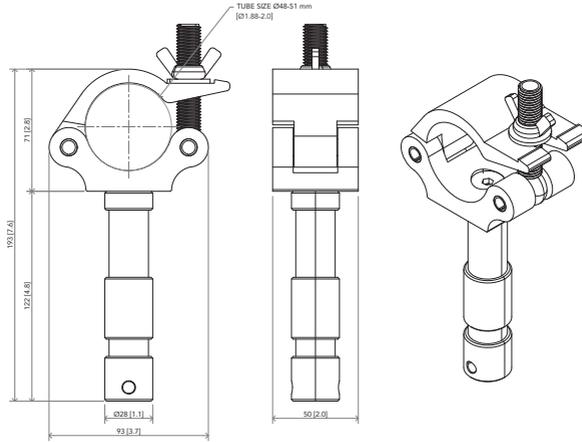
C6042A/B - WLL: 300 kg / 661,38 lb



Weight: 1,09 kg - 2,40 lbs

Aluminum clamp for 28 mm spigot, equipped with safety pin + 16 mm pin.
The clamp is equipped with a 28 mm spigot hole and a 16mm pin on board, that can be extract by a sliding mechanism.
It allows quick and easy fixing of lighting tools and fixtures equipped with a 28 mm spigot or with a predisposition for 16 mm pins.

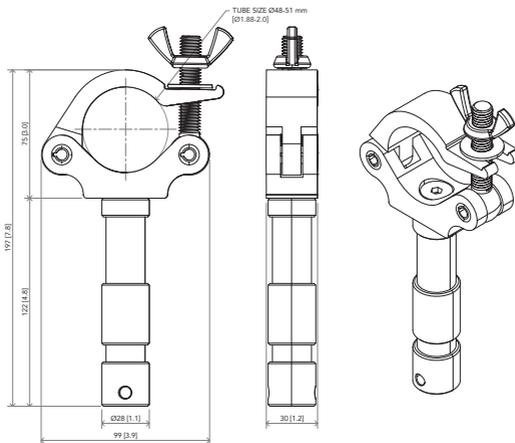
C6001SPGA/B - WLL: 500 kg / 1102,31 lb



Weight: 0,68 kg - 1,49 lbs

These aluminium clamps consist of a 28 mm spigot fixed to a aluminium clamp. These clamps are commonly fitted into a receiver mounted on a stand.

C6002SPGA/B - WLL: 200 kg / 440,92 lb



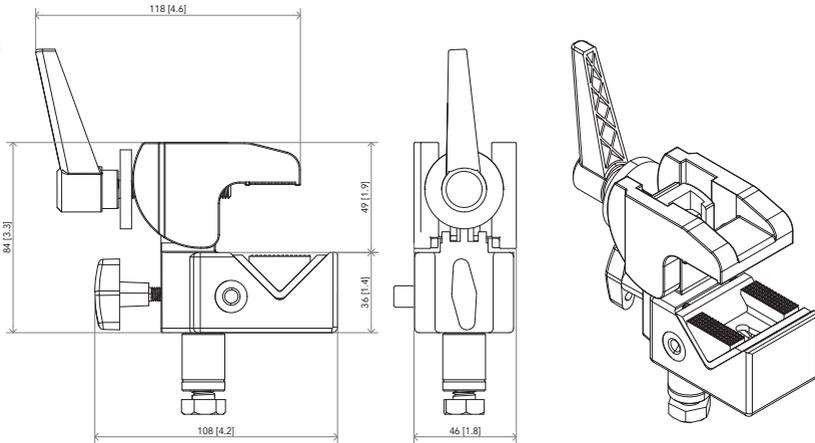
Weight: 0,54 kg - 1,19 lbs

These aluminium clamps consist of a 28 mm spigot fixed to a aluminium slim clamp. These clamps are commonly fitted into a receiver mounted on a stand.

Fig. 02

CLAMPS 48-51 / 32-35 mm

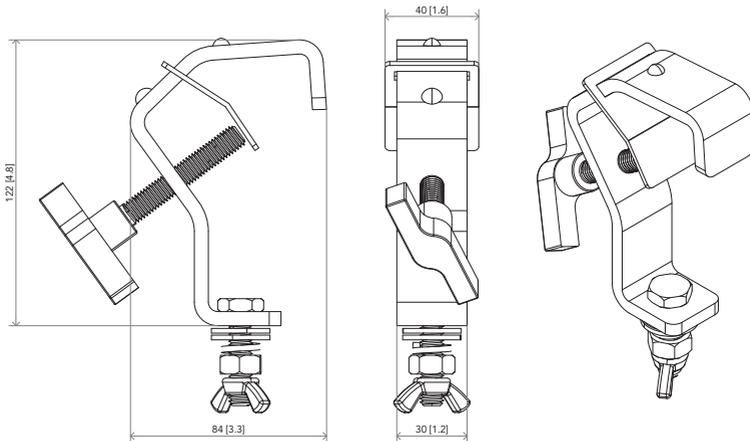
C6031A/B - WLL: 15 kg / 33,06 lb



Weight: 0,5 kg - 1,10 lbs

Superclamps are pressured die-cast aluminium clamps capable of clamping any flat surface from 13 mm to 30 mm and tubes from 15 mm to 50 mm diameter. Rubber grip pads prevent damage to surfaces. Supplied with a wedge to grip flat surfaces. There is a full range of snap in accessories to complement these versatile clamps.

C6033A/B - WLL: 40 kg / 88,18 lb



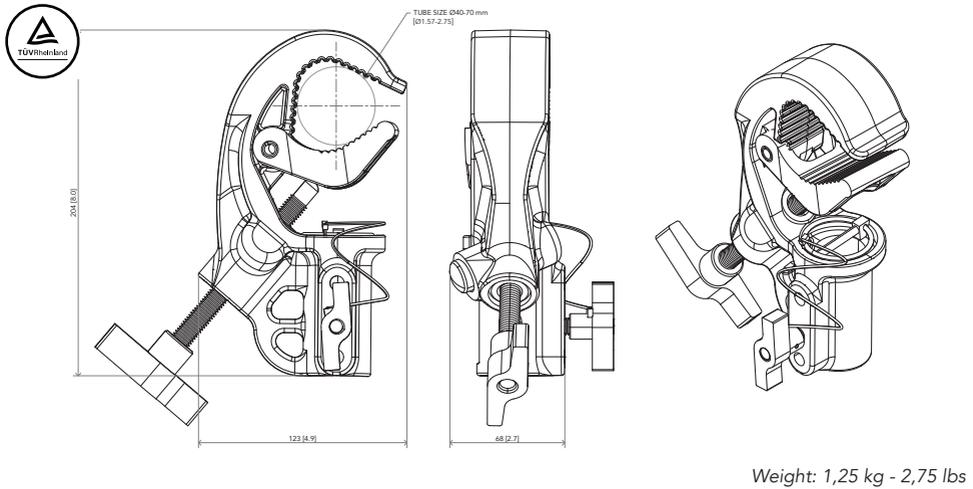
Weight: 0,35 kg - 0,77 lbs

Slim steel used for lightweight applications.

Fig. 03

CLAMPS 40-70 mm

C6044A/B - WLL: 100 kg / 220,46 lb

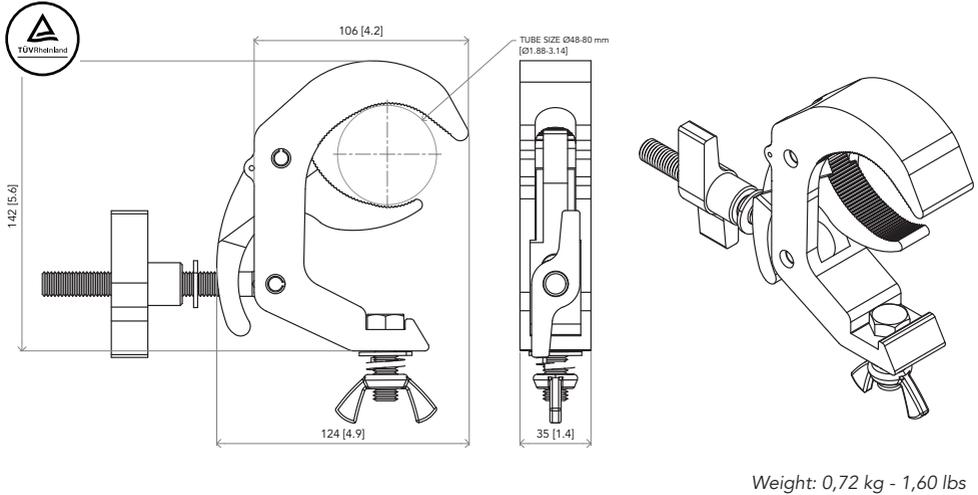


Aluminium selflock slim clamp for 28 mm spigot.

Fig. 04

CLAMPS 48-80 mm

C6018A/B - WLL: 200 kg / 440,92 lb

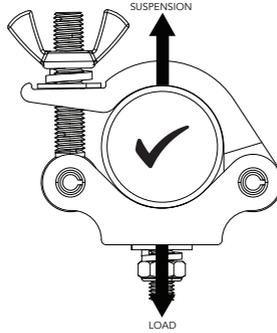


Aluminium truss clamp designed to allow one person to hang heavy luminaires, through the automatic closing with the weight of the object being hung.

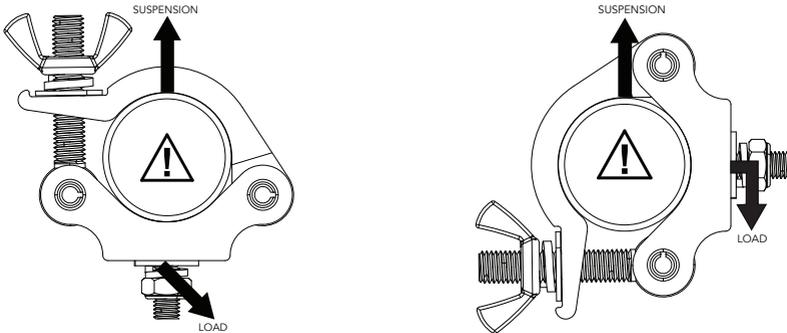
Fig. 05

3 - INSTALLATION

The working load engraved on the clamp is solely for a straight pull between the supporting pipe and connection point on the clamp.



The methods of suspension shown below create torsional forces, influence the stability of the supporting structure and lowers the working load of the clamp. This needs to be checked by a competent person.



Using clamps where the direction of load is parallel to the tube depends on, but not limited to, contact surface, material, friction resistance and the applied torque to the clamp's wingnut / nut. This type of application significantly reduces the stated wll and should be used with extreme caution.

Note: do not use fixings that, when tightened, will contact the tube or barrel on which the clamp is fixed as highlighted above (image on right, the screw are red marked).

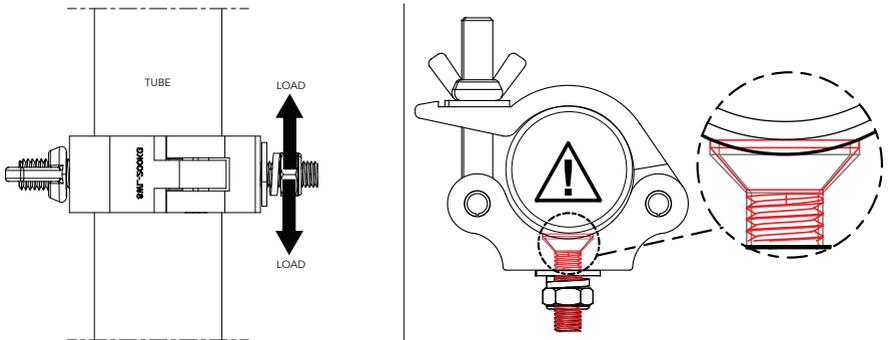
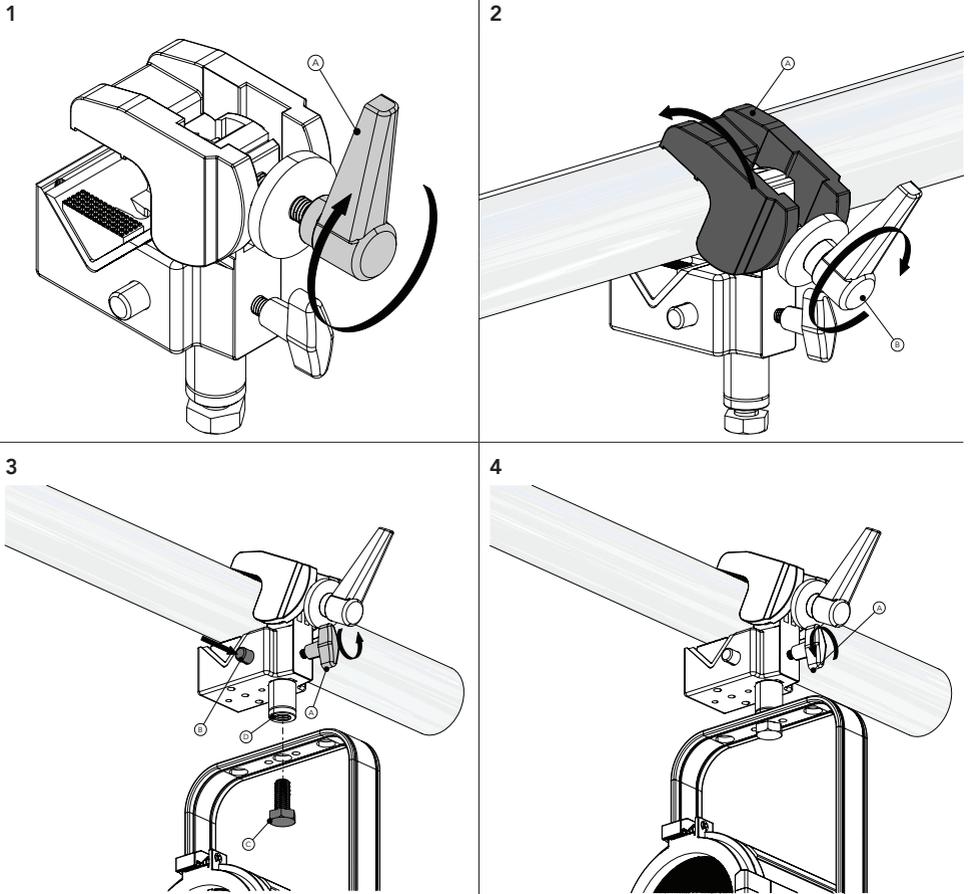


Fig. 06

Superclamp



A powerful universal clamping device capable of being attached to tubes (boards or any other supporting structures) between 13 mm and 55 mm (flat surface grip: 13-30 mm, tubes grip: 15-50 mm), accepting via a 16 mm hexagonal socket, lighting fixtures or a range of accessories including spigots, stud adaptors, extension arms and accessory fittings.

To weight of the die-cast superclamp is 0.5 kg and will support loads of up to 15 kg safely.

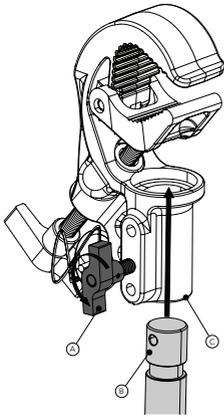
1. Open up clamp jaws by turning knob "A" anti-clockwise until it is capable of being slipped over suitable tube, board or bar support.
2. Arrange Superclamp in the best orientation for its final supporting job and tighten clamp jaws by turning knob "A" clockwise so that it firmly grips the supporting tube, board or bar.
3. To attach a lighting fixture or accessory with 16 mm spigot/stud, ensure knob "C" is loosened sufficiently to allow the spigot/stud to be inserted into the hexagonal socket, depress the spring loaded secondary safety plunger "B" on the side of the clamp jaw. This will allow you to fully insert the spigot or hexagonal stud of the lighting fixture or accessory. When the catch is released, it will prevent the spigot/stud falling out.
4. To secure and lock the lighting fixture or accessory in place, tighten knob "C" against the spigot/stud turning it clockwise.

Note: in order to dismantle, simply reverse the above procedures.

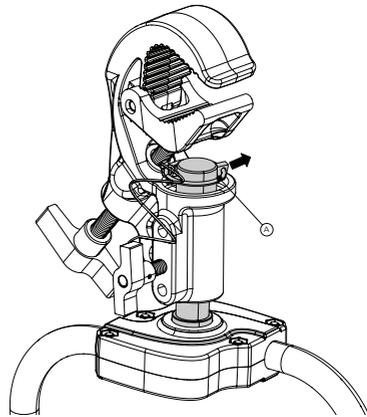
Fig. 06

Selflock clamp

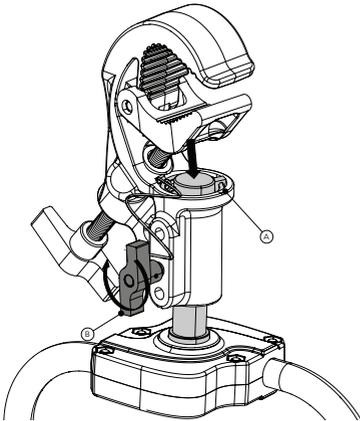
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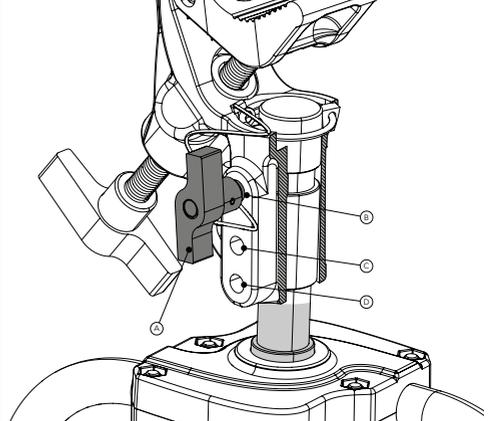
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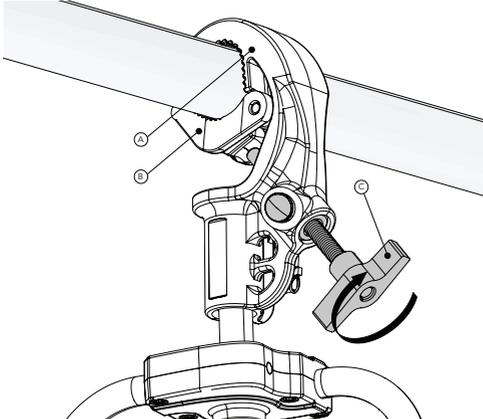
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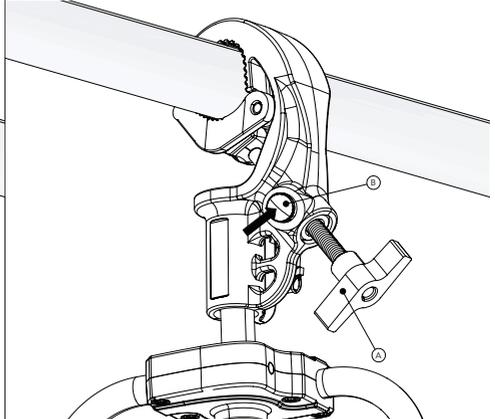
4



5



6



The C6044 clamp is used for hanging luminaires from suspended lighting rigs and lighting bars. A unique quick release mechanism for instantly adjusting the clamping jaw opening for gripping tubular or parallel sided supports between 40 and 70 mm diameter without tedious winding of the clamping spindle.

- 28 mm female attachment.
- Additional safety pin for 28 mm TV luminaire spigot to prevent accidental drop-out.
- Max load 100 kg (220 lbs).

To attach luminaire to the clamp proceed as follows:

1. Loosen clamping knob (A) until 28 mm spigot can be fully inserted into the clamp. Insert the 28 mm spigot (B) on the female attachment (C) until it protrudes as shown in figure 2.
2. The spigot has an hole drilled through it, into which you should insert the safety pin (A) in such a way that it protrudes equally from both sides of the 28 mm spigot. The safety pin (A) seats captive in the recessed depression and temporarily holds the weight of the luminaire.
3. Then tighten the locking knob (B) firmly against the recessed safety groove on the spigot.
4. Ensure that the knob (A) is able to seat in the recessed safety groove on the spigot. You may need to remove knob (A) from its present positions (D) in the casting and replace it in one or other of the two alternative screw holes provided (B) - (C).
5. The clamp and luminaire can now be suspended from supports varying in thickness between 40 and 70 mm.
Bring upper part of clamp jaw (A) to bear on supporting structure.
Push knob (C) so that casting (B) butts up to underside of support.
Tighten clamp securely on the support by turning the knob (C) in clockwise direction.
6. To loosen the clamp undo (turn anticlockwise) the knob (A) by a couple of turns and then the pressure on release button (B) will release the screw mechanism totally, allowing the screw spindle to be pulled open- greatly aiding the dismantling operation.

Fig. 07

4 - DISSASSEMBLY INSTRUCTION

1. Take the weight of the clamp.
2. Release the nut and fold the eye bolt aside.
3. Open the lid and fold aside.
4. Remove the load.
5. Check if the clamps are in good order. If not, mark them clearly and put aside.

5 - COMMISSIONING

- Before applying a load check that all connections are properly made.
- Before lifting check that all connections are still correct.
- Check if all parts are in good order.
- Repeat after 1 metre of lifting, vibrations might loosen bolt connections.

6 - INDICATIONS OF FAULTS

The following faults could be an indication of overload or misuse. Remove those clamps from service.

- Deformation of the lid.
- Nuts which cannot be turned by hand.
- Eyebolt which do not swivel properly.
- Lid which do not swivel properly.
- Clamp does not fit around the pipe.
- Eyebolt which does not hinge properly.
- Selflock which does not hinge properly.
- Load is hanging out of plumb while clamp is positioned vertically.

7 - INSPECTION, DISCARD AND REJECTION CRITERIA

If any fault is found, mark the product clearly and remove from service.

INITIAL INSPECTIONS

When first acquired, whether they are new or used, clamps should be inspected in accordance with table at page 24 and a record of the inspection maintained.

REGULAR INSPECTIONS

Regular visual inspections should be carried out in accordance with table at page 24. Regular inspections should be performed by a competent person and should be carried out prior to each incident of use.

PERIODIC INSPECTIONS

Periodic visual inspections should be carried out in accordance with table at page 24 and a record of the inspections maintained. Periodic inspections should be performed by a competent person and should be conducted at least once each year or in accordance with an inspection routine established by a qualified person.

Clamps which are subject to any accident must be inspected according to the requirements per periodic inspection and in accordance with table below.

INSPECTION FREQUENCY

CLAMPS IN REGULAR SERVICE

Clamps in regular service should be subjected to regular and periodic inspections.

PERMANENT INSTALLATIONS, STATIONARY

Periodic inspections should be carried out on all camps that are permanently installed in a stationary (not moving) configuration. The frequency of inspections should be determined on the basis of the prevalent conditions.

PERMANENT INSTALLATIONS, MOVING

Periodic inspections should be carried out every three months, or in accordance with an inspection routine established by a qualified person, on all clamps that are installed in a permanent configuration where movement of the truss system is an integral part of use.

RECORDS

Records of initial inspections and periodic inspections should be kept by the owner for each clamp and should be signed and dated by the person carrying out the inspections.

	INSPECTION LEVEL			ITEMS TO BE INSPECTED					
	INITIAL	REGULAR	PERIODIC	LID	BODY	EYEBOLT	NUT	ROLL PIN	ID
MISSING PARTS	Y	Y	Y						Y
HOLES	Y	Y	Y	Y	Y				
ABRASION	Y	Y	Y	Y	Y			Y	
CORROSION			Y	Y	Y	Y	Y	Y	
DEFORMATION	Y	Y	Y	Y	Y	Y	Y	Y	
EXCESSIVE WEAR		Y	Y		Y	Y	Y	Y	
CRACKS	Y	Y	Y	Y	Y	Y	Y	Y	

8 - MAINTENANCE

MAINTENANCE AND CLEANING THE PRODUCT

Although under normal use and environmental circumstances, clamps need little maintenance, for safety reasons, all parts must be checked regularly for damage, cracks and corrosion.

The clamp shall be checked in compliance with the local law by a competent person. Checking shall take place as often as required but at a minimum of once a year. If in doubt contact the manufacturer.

- Check all components for damage and corrosion. Damaged and corroded parts shall be removed and disposed of.
- Check roll pins for cracks. If cracked, replace the pins.
- Burrs and sharp edges shall be removed using fine sandpaper or a file.
- Maintenance and repairs must only be carried out by a competent person. If in doubt, contact the manufacturer.
- Do not use any mechanical abrasive machine to remove sharp edges from clamps.
- Use hot water and soap to remove any dirt from clamps.
- Do not use abrasive fluids to remove dirt or paint from clamps.

REPAIRS AND REPLACEMENT OF PARTS

- Damaged clamps should be returned to an authorised PROTRUSS service agent for repair.

IF THE PRODUCT IS NO LONGER NEEDED

- Products that are no longer needed can be scrapped. Preferably remove all steel parts, store part separately before offering them to a scrapping company.

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given.

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