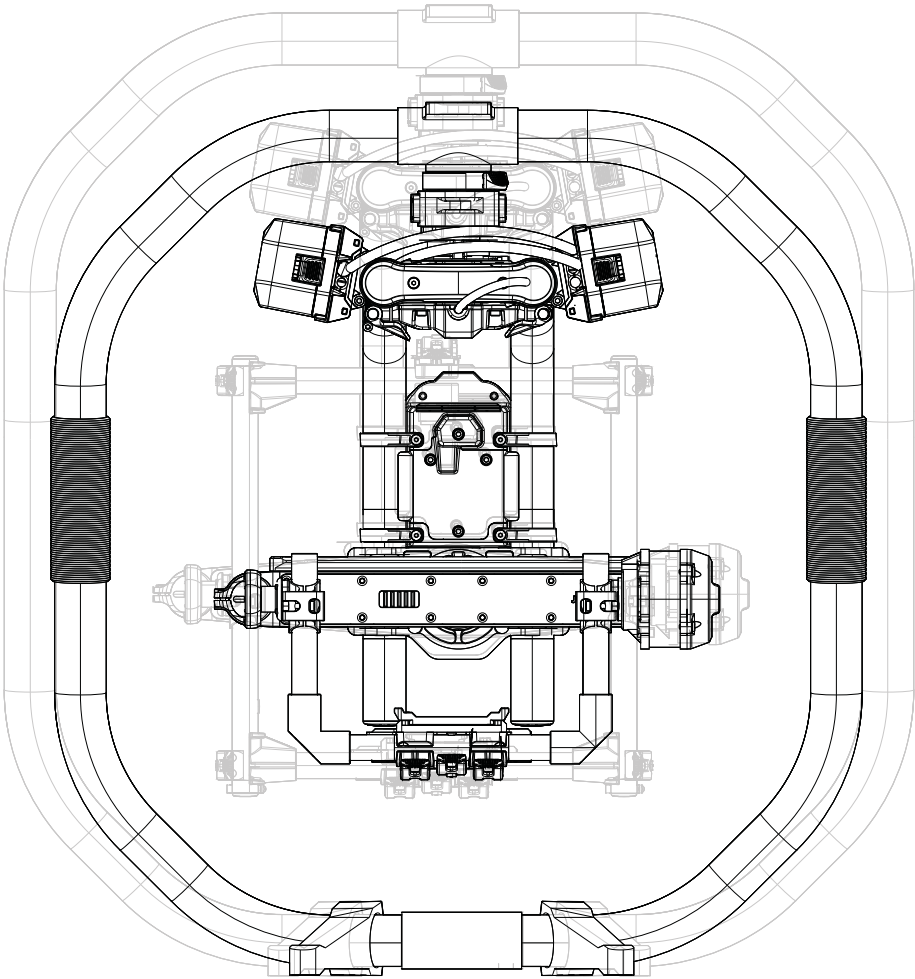
EN/DE

MANUAL SHŌRTY
HOW TO DOWNSIZE YOUR GIMBAL

Optimised for small, cubic cameras. Increased rigidity.
More mounting options. Half-camera-cage operation.
Up to 40% smaller size.



JAQUET Custom Manufacturing for Filmmaking Applications.

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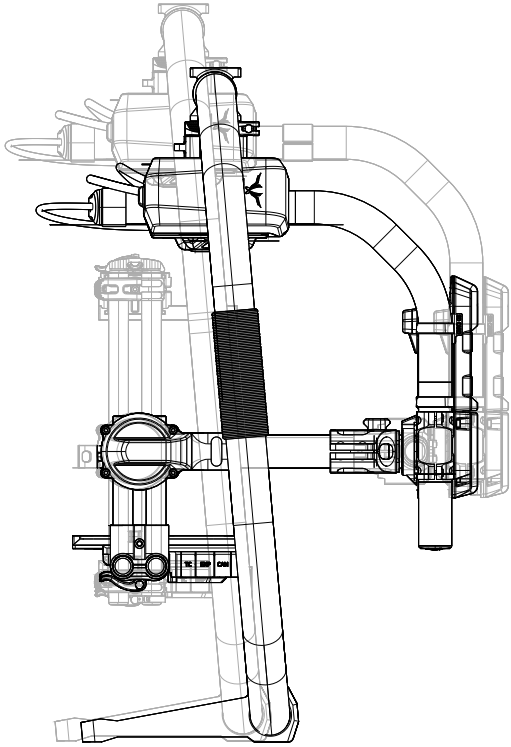
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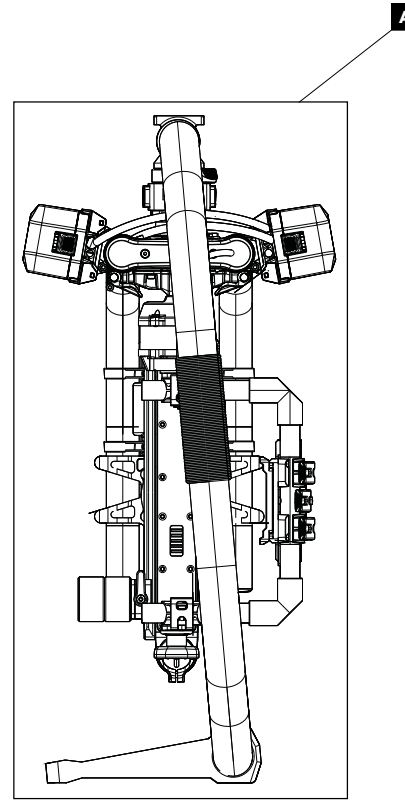
SHŌRTY CONVERSION KIT

This conversion is fully reversable (except ring conversion.)

New dimensions:
Shorty ring: 470 mm x 500 mm
Shorty camera cage: 150 mm (inner width)

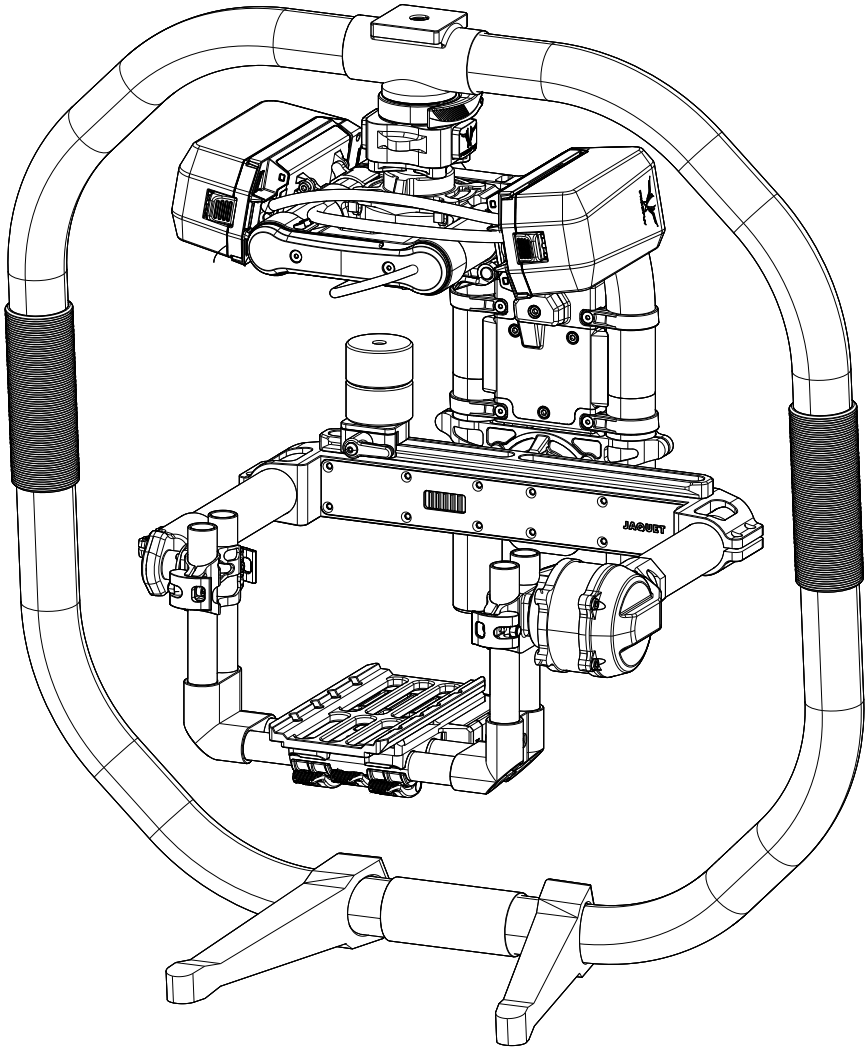
Shorty fits into a TENBA CAR CASE CC22 (**A**) 58 x 58 x 23 cm





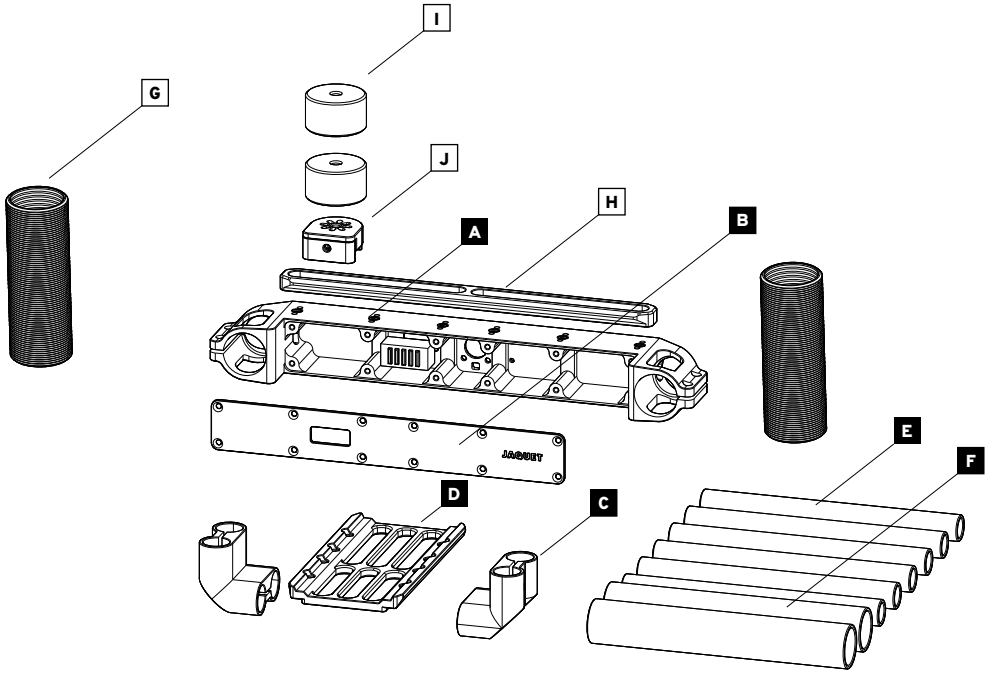
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FIGURE A



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SCOPE OF DELIVERY



Please check the completeness of your shipment upon receipt. The delivery consists of four components (see illustration):

Shōrty Kit (all neccessary screws included)
A Shōrty Roll Arm
B Roll Arm Plate
C 2x 15mm Rod Brackets
D Dovetail Plate (Arri compatible)
E 6x 15mm x 150mm rods
F 2x 25mm x 150mm rods

Optional Accessories
G 2x Knurled Tube Handles
H Nato Rail
I 2x Weights (1/4 UNC 20)
J Nato Bracket/Clamp (1/4 UNC 20)

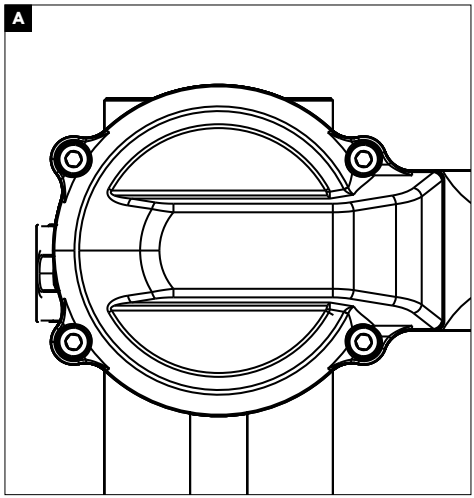
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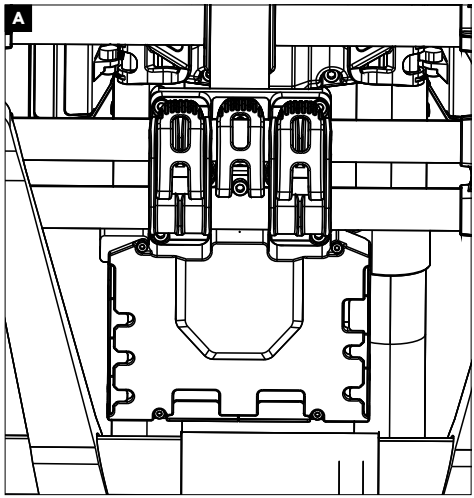
PREPARING THE CONVERSION

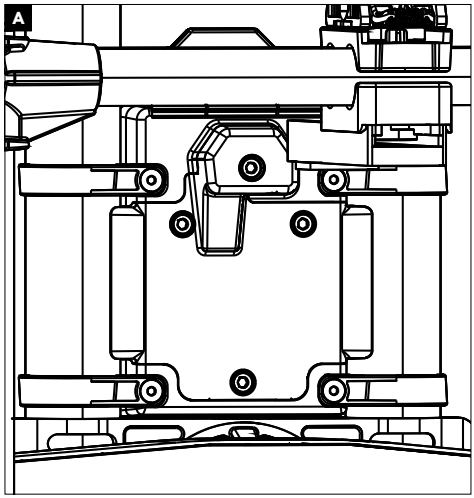
How to disconnect the cable harness

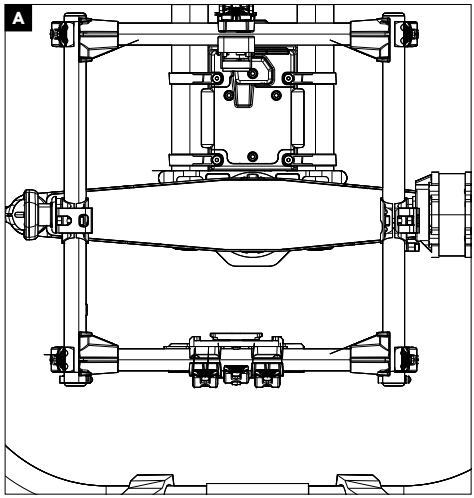
A Open the cover on the tilt motor and carefully pull the cable out.
B Open the cover under the camera plate and pull the cable out.
C Open the cover on the control unit above the pivot point and pull the cable out.
D Unscrew the plate from the roll axis arm.

Now carefully remove the cable harness.









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ASSEMBLING SHŌRTY

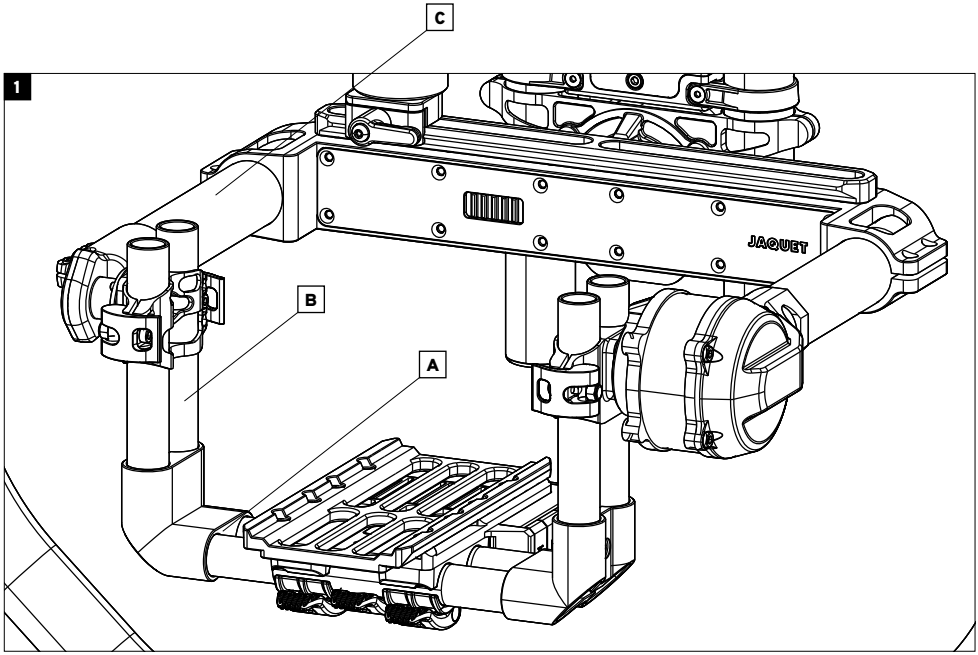
WHAT YOU WILL NEED

The entire cage and the 25 mm side rods will be replaced.
- Mōvi hex key (or similar)
– Shōrty parts (**A**–**F**)

FITTING THE SHŌRTY PARTS

Secure the new parts to your Mōvi using the screws supplied.
First, reconnect the cable harness.

TIP Leave the cover of the core unit open if you wish to raise the position of the roll axis.



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HOW TO RAISE THE POSITION OF THE ROLL AXIS.

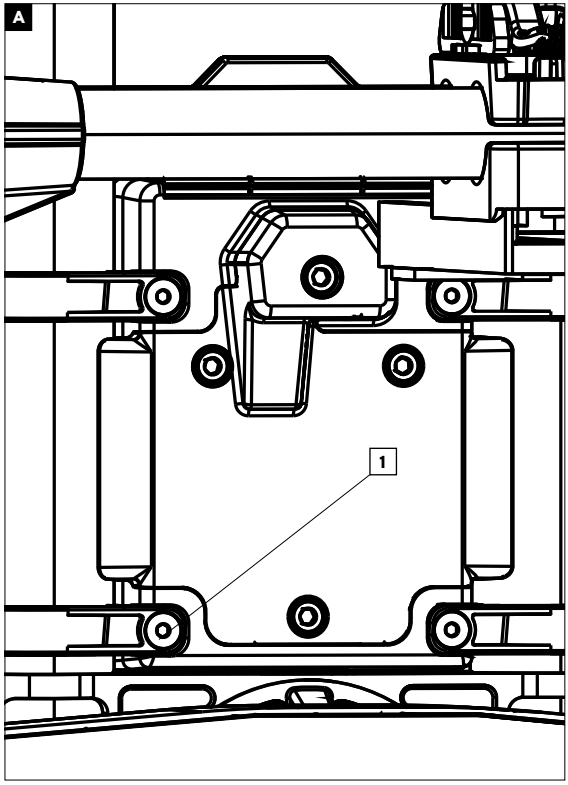
WHAT YOU WILL NEED

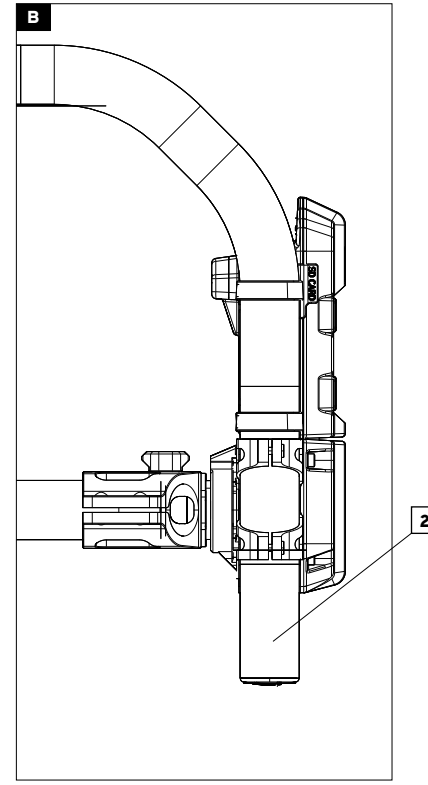
To make the Shorty as compact as possible, you'll need to raise the position of the roller axle.
If you're also reducing the size of the Ring Pro, this step is necessary to create enough space for the roll axis arm to rotate freely.

- Small hand drill (if you want to take it to the extreme)
- Open the door of the core unit (if it isn't already open) (**A**)
- Take care with the cable that runs into an opening in one of the 25 mm tubes
- Loosen the screws securing the core unit (**1**)
- Slide the core unit upwards before the cable hits the clamp.

This will easily give you about 50 mm of extra space without having to route the cable through a new hole (**2**).

If you need more space, you'll have to drill a new hole for the cable further down this tube inside the open core unit. However, it's better to start with the simpler option first.





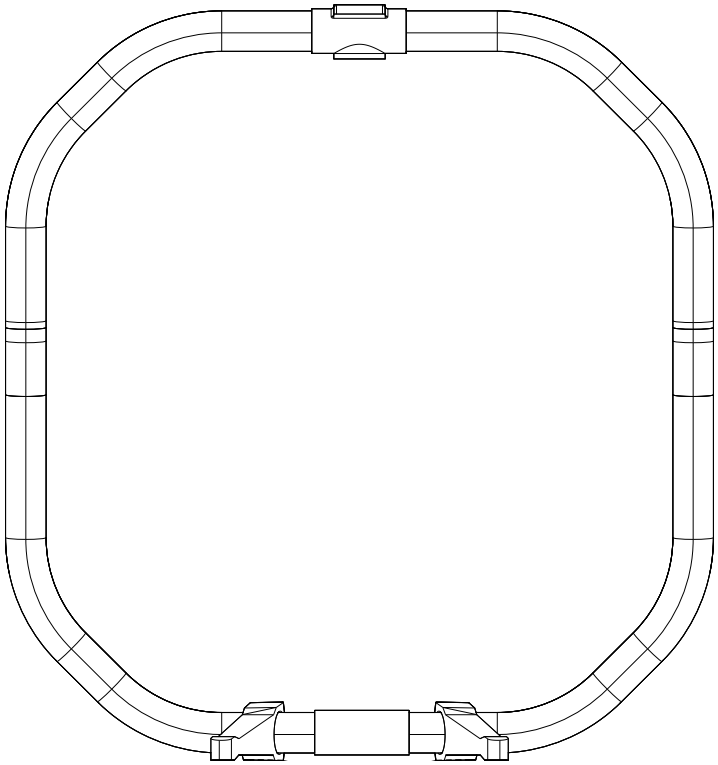
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SHORTEN THE RING A

WARNING! The new ring dimensions should be approximately 470 mm x 500 mm (W x H). The minimum width is determined by the space required for the TB50 batteries, whilst the minimum height is determined by the new dimensions of the roller arm and the new position of the roller axle.

What You Will need

- Rotary tool with a cutting disc for carbon
- Fine-grit sandpaper
- color tape
- Oven (200 °C)
- Two-component adhesive
- Bench drill



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SHORTEN THE RING B

WARNING! Measure twice before you cut!
Always wear a protective mask when cutting carbon fibre!

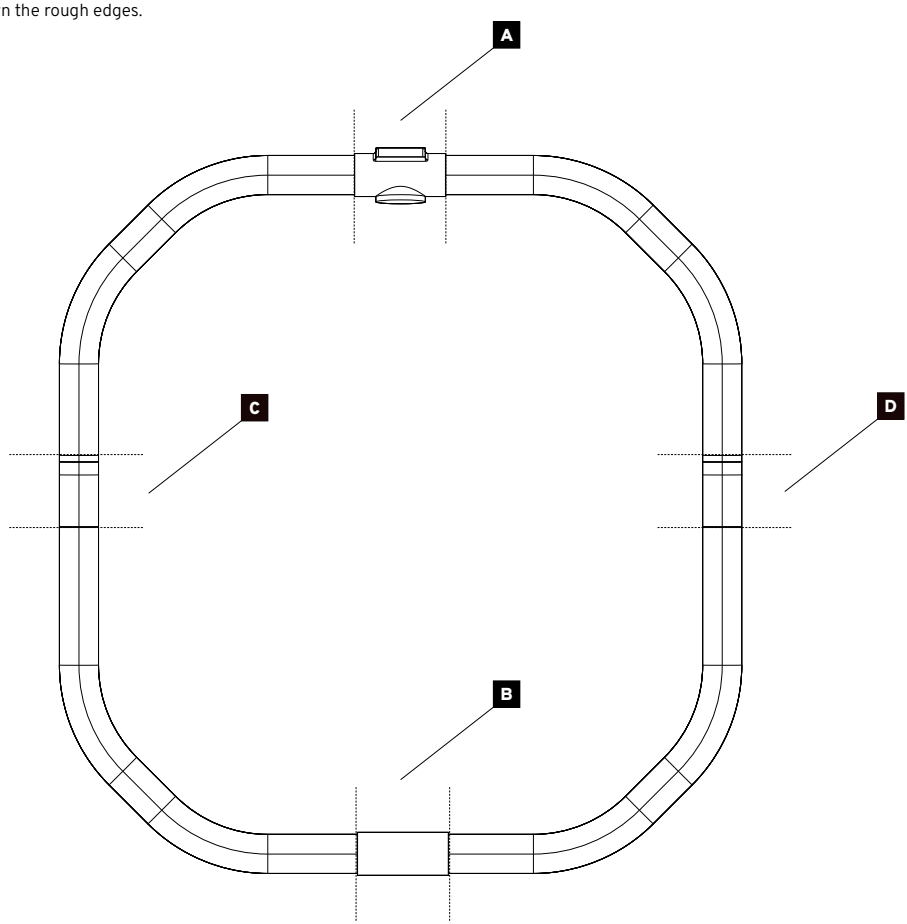
Cutting the ring into 4 main pieces

The new dimensions of the ring are 470 x 500 mm (W X H)

1. Mask off the ring with tape at the points where you intend to cut to prevent tool marks.
2. Cut the ring using the rotary tool.

Cut as close as possible to the aluminium tube (**A** and **B)**
Cut at the seam and 50 mm further down(**C** and **D)**

3. Sand down the rough edges.



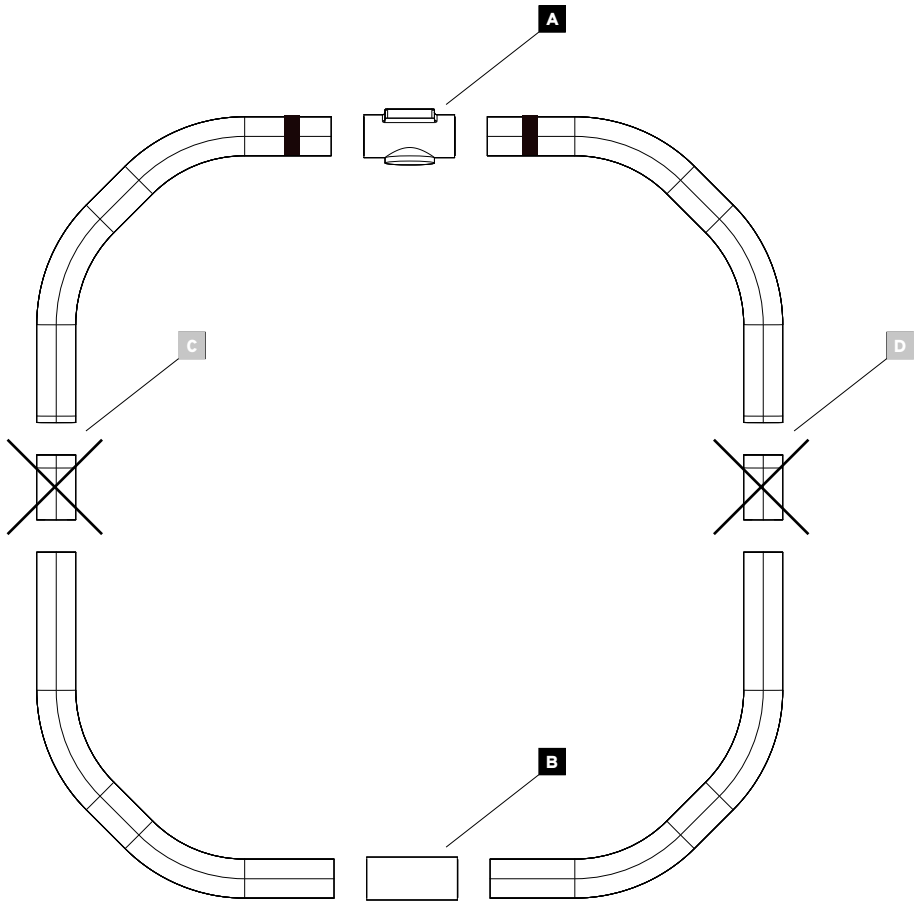
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SHORTEN THE RING C

WARNING! Use gloves!

How to remove the carbon fibre from the aluminium parts.

1. Place parts **A** and **B** in an oven at 200 °C for about 15 minutes until the carbon fibre softens.
2. Wear gloves to protect yourself! Use a screwdriver to remove the softened carbon fibre from the aluminium tubes.
3. Clean the tubes with sandpaper and roughen up the inner surfaces of the tubes.
4. Parts **C** and **D** are not required, as they will be replaced by knurled aluminium tubes.



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SHORTEN THE RING D

WARNING! Check the measurements twice!

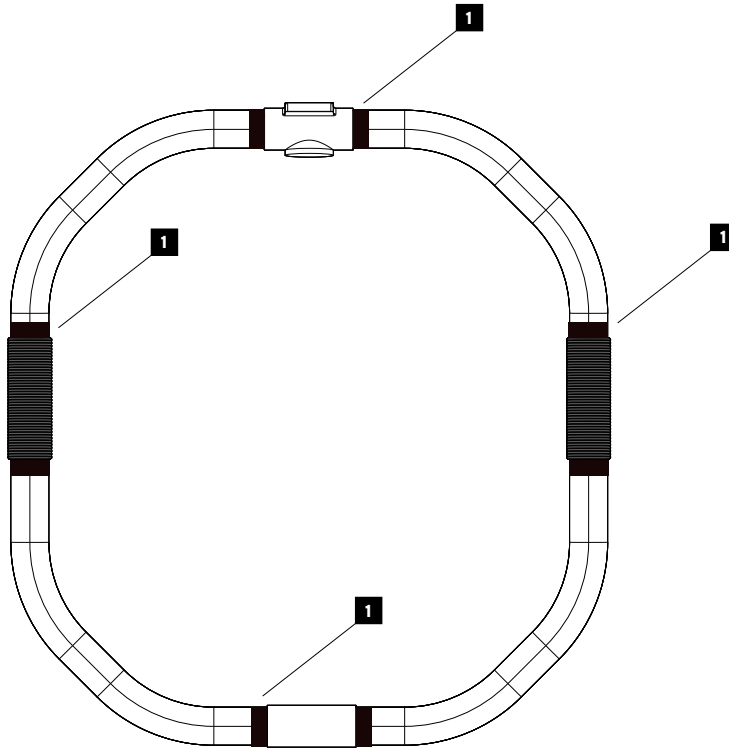
Stick everything back together.

1. Lay the parts out on a flat surface.
2. Stick the parts together loosely.
3. Check the measurements (470 x 500 mm W x H).
4. Use adhesive tape (1) (1, 2, 3, 4, 5, 6, 7, 8) again to mark the tubes.
5. Take the parts apart again.
6. Prepare the two-component adhesive.
7. Apply the two-component adhesive to the inside of the aluminium tubes.
8. Now stick everything together.

The adhesive tape should now prevent the carbon tubes from penetrating too deeply into the aluminium tubes. Take your time! The two-component adhesive takes about half an hour to set. Check the measurements again and make any necessary adjustments.

9. Wait at least 12 hours until the two-component adhesive has fully set.

TIP Tape everything together roughly first and check the dimensions with your gimbal before applying the adhesive.



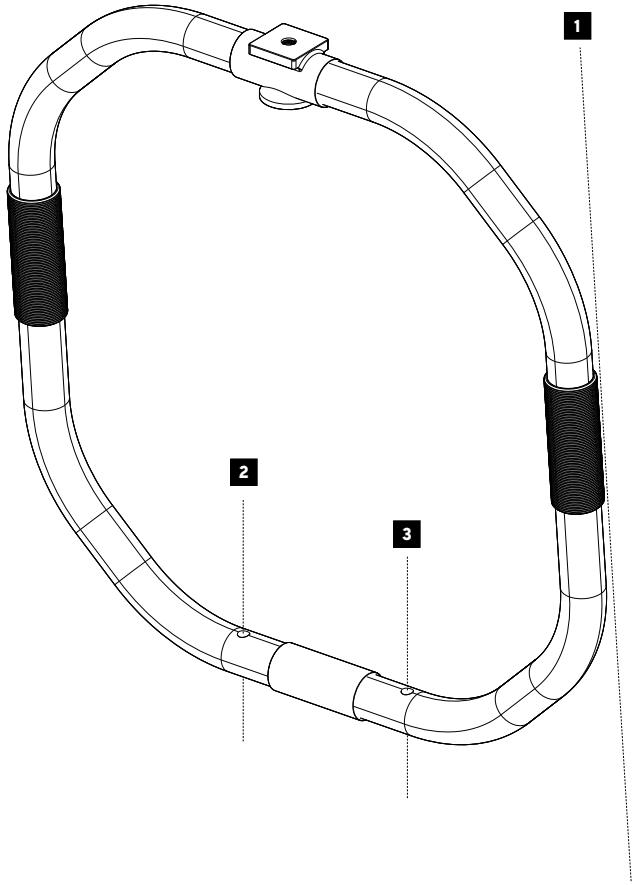
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SHORTEN THE RING E

WARNING! Check your measurements twice!

New holes for old feet

1. Secure the ring to a bench drill (stationary drill with a clamp).
2. Tilt the ring by 5° (**1**).
4. Drill vertical holes with a diameter of 8 mm (**2**, **3**).

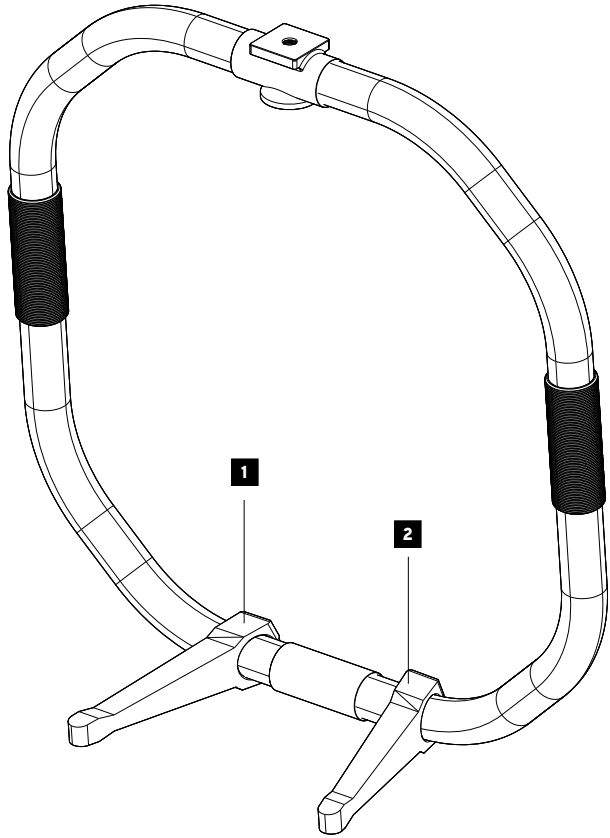


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SHORTEN THE RING F

You‘ve done it!

1. Put your feet back in position (**1**,**2**)



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DISCLAIMER

Important information

Before using the products described in this manual, ensure that you have read and fully understood all relevant instructions. Shōrty is available exclusively to commercial customers. By using the product, the customer agrees that Shōrty and all other system components are intended for commercial use only. Otherwise, the customer must contact Jaquet prior to use.

While Jaquet continuously strives to improve the quality, reliability, and safety of its products, customers acknowledge and agree that the possibility of defects cannot be entirely eliminated. In order to minimize the risk of property damage or personal injury (including death) resulting from potential product defects, customers must implement adequate safety measures when working with the system and observe the specified intended use.

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If any or all of the foregoing provisions are held to be invalid or unenforceable under applicable law, the remaining provisions shall remain valid to the fullest extent permitted by law.

The referenced brand names (cMotion, ARRI, Freeflysystems, Mōvi Pro, etc.) are the property of their respective owners and are used solely for descriptive purposes. They do not imply any partnership, cooperation, or affiliation with Jaquet.

TECHNICAL DATA

Shōrty

Ring Dimensions:	470 mm × 500 mm
Conversion Kit weight:	270 g
Shōrty weight (complete):	2650 g
Materials:	aluminium„ steel

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