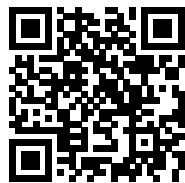


# User Manual



Slide Kamera HKR-6 camera crane is a professional equipment that allows to take smooth rise up and fall down crane shots, and to film from the places previously inaccessible for the operator. It allows to present the scene from multiple perspectives while maintaining perfect smoothness of motion. Telescopic design of HKR-6 crane allows to adjust length of the arm freely meeting the needs of the filmmaker.

## Slide Kamera HKR-6 Camera Crane Set



Pdf version of the manual available for download: [www.slidekamera.eu](http://www.slidekamera.eu)



Before you start your work with Slide Kamera HKR-6 camera crane we strongly recommend to read the manual carefully. Please note that using the device in a manner inconsistent with the instructions, unauthorized repair attempts or any kind of modification of the device can cause a damage the manufacturer is not responsible for.

In case of damage during transport you are required to submit:

- ☑ proof of purchase
- ☑ protective styrofoam inserts/ fillers included in the set in case of new product delivery

**If you fail to comply with the abovementioned conditions, the manufacturer reserves the right to refuse the complaint.**

**Photos of products may slightly differ from the actual product due to constant modifications and improvements introduced by the manufacturer.**

## **Slide Kamera®**

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# 1. Elements of Slide Kamera HKR-6 camera crane set

## 1.1. Slide Kamera HKR-6 camera crane basic set

Presented set contains elements recommended by the manufacturer necessary for proper functioning of Slide Kamera HKR-6 crane. However, there is a possibility to expand the set with additional accessories presented on the next page.

### Recommended HKR-6 camera crane set:

Slide Kamera HKR-6 camera crane [1]

Slide Kamera HGO-2 rotational head [2]

Counterweight consisting of counterweight neck and weights [3]

Slide Kamera HST-2 tripod (700 lub 920) [4]

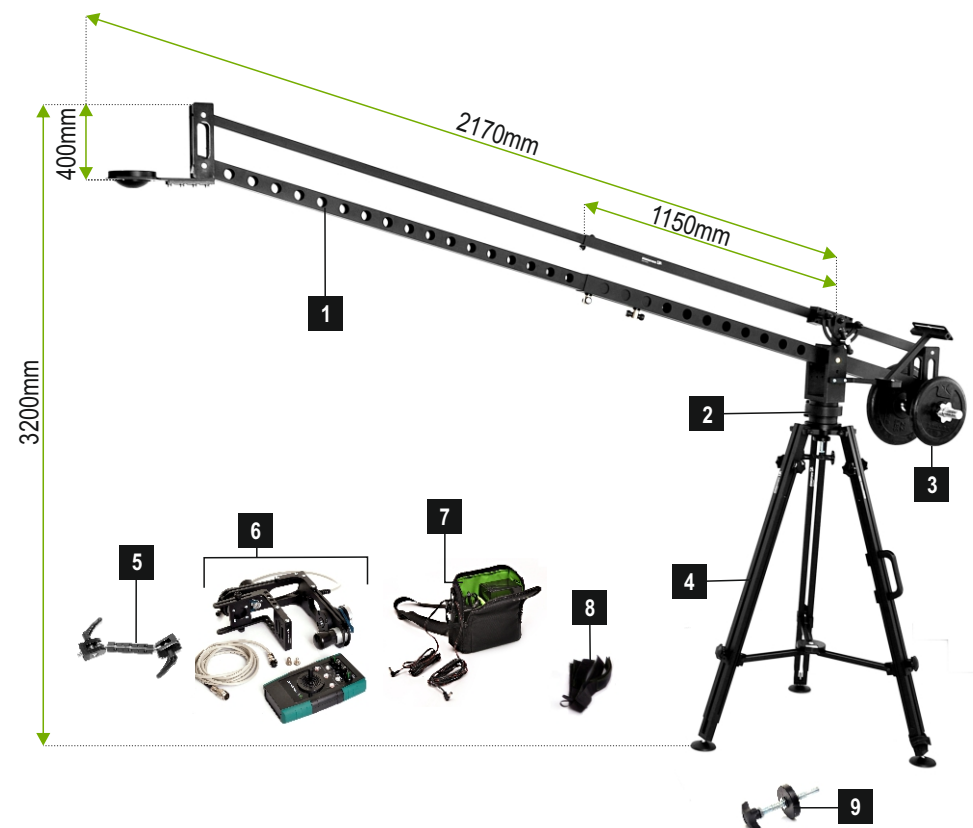
Slide Kamera AF-17 articulated arm [5]

Slide Kamera HGN-4 2D remote controlled head [6]

Slide Kamera AF-7 power pack with AF-7-K1 power lead [7]

Velcro straps for attaching the cables [8]

Velcro straps for attaching the cables [8]



## 1.2. Additional accessories:

### Camera crane sockets:

Slide Kamera HCZ-75/100mm socket (Manfrotto system) [1]

Slide Kamera HCZ-75/100mm socket (Miller system) [2]

Slide Kamera HCZ-75/100mm socket (Sachtler system) [3]



### Remote controlled head 2D:

Slide Kamera HGN-1 2D remote controlled head [4]



### Camera crane heads:

Slide Kamera HGO-3 rotational fluid head [5]



### Castor wheels:

Slide Kamera HSTA-1  
castor wheels with a brake [8]



### Adapters:

Slide Kamera AF-18 leveling adapter [6]

Slide Kamera AF-16 adapter for quick mounting of camera cranes [7]  
(instead of HSZ-2 quick mounting screw)



### Half ball leveler:

Manfrotto MN520BALL 75mm [9]

Manfrotto MN500BALL 100mm [10]



### Power supply:

Slide Kamera AF-7 power pack  
with AF-7-K1 power lead [11]



### Tripod:

Slide Kamera HST-3 tripod [12]



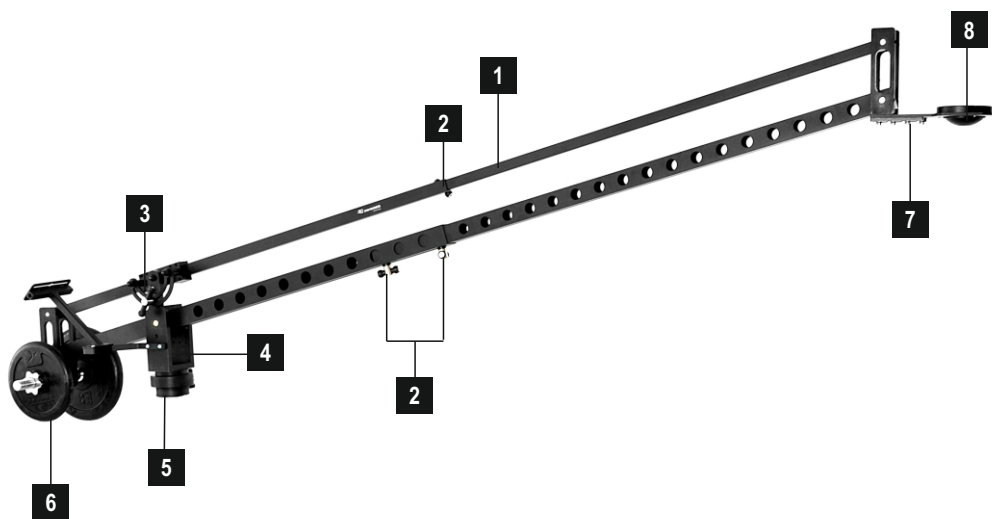
## 2. Elements and construction of Slide Kamera HKR-6 crane

Once the shipment is received please make sure that all the elements of Slide Kamera HKR-6 crane are inside.

### Set includes:

- ☑ Slide Kamera HKR-6 camera crane
- ☑ counterweight: counterweight neck and weights (2x5kg, 6x2kg, 2x1kg)
- ☑ Slide Kamera AF-17 articulated arm
- ☑ Slide Kamera HGO-2 rotational head
- ☑ three M6x20 screws
- ☑ 3mm Allen key L type
- ☑ 5mm Allen key L type

### Construction of Slide Kamera HKR-6 camera crane:



Working arm of the crane [1]

Arm slide clamping knobs [2]

Clamping knob for tilt adjustment [3]

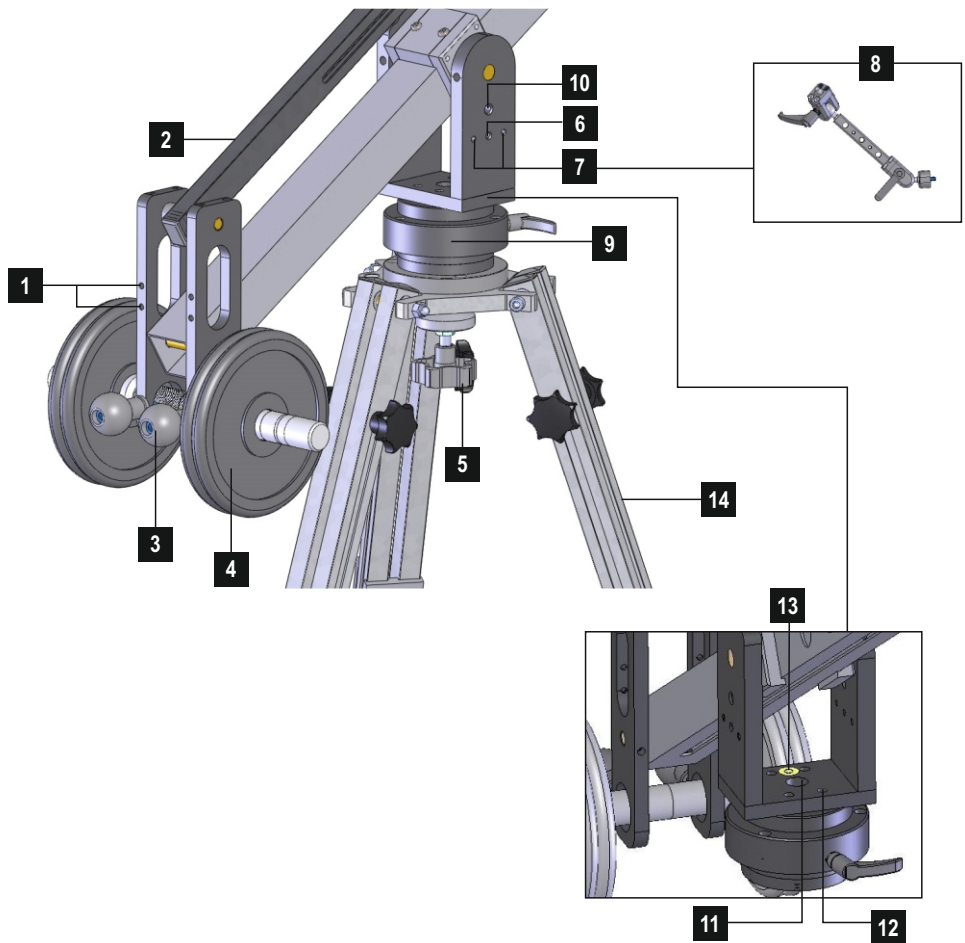
Camera crane base [4]

Slide Kamera HGO-2 rotational head [5]

Counterweight consisting of counterweight neck, weights and two safety nuts [6]

Crane mounting plate [7]

Slide Kamera HCZ-75mm or 100mm socket [8]



- Four M6 holes [1]
- Crane arm [2]
- Counterweight clamping knobs [3]
- Counterweight that consists of counterweight neck and weights [4]
- Slide Kamera HSZ-2 quick mounting screw [5]
- 1/4" hole [6]
- Two M6 holes for mounting AF-17 articulated arm grip [7]
- Slide Kamera AF-17 articulated arm [8]
- Slide Kamera HGO-2 rotational head [9]
- 3/8" hole [10]
- Central 3/8" hole in camera crane base [11]
- Four M4 holes in camera crane base [12]
- Bubble level [13]
- Slide Kamera HST-2 tripod [14]

### 3. Specification

**Application:** for lifting and rotating the camera or photo camera together with the accessories, allows to take smooth rise up and fall down crane shots, and to film from the places previously inaccessible for the operator

**Arm length range:** 950mm do 2000mm (working arm length)

**Total vertical movement:** 3200mm (working arm maximally spread)

**Mounting holes:** Two 3/8" holes  
Two 1/4" holes  
Four M6 holes for mounting AF-17 articulated arm grip  
Central 3/8" hole in camera crane base  
Four M4 holes in camera crane base (Manfrotto spacing)  
Four M6 holes

**Material:** aluminium

**Bubble level:** on camera crane base

**Color:** black

**Safety payload:** 8 kg for 24 kg of counterweight

**Weight without weights:** 10kg

**Weights of a total weight:** 24kg

**Extended arm:** available

**Arm tilt:** available

**Rotation:** available

Table presenting Slide Kamera HKR-6 crane steering possibilities:

Movement	Setting	Locking the movement
Vertical movement	Slide Kamera HGO-2 or HGO-3 rotational head	Lock the clamping lever of Slide Kamera HGO-2 or HGO-3 rotational head
Horizontal movement	Unlock two clamping knobs for tilt adjustment	Lock two clamping knobs for tilt adjustment and set the crane in a desired position
Arm slide	Unlock three arm slide clamping knobs	Lock three arm slide clamping knobs and lock the arm in a desired position
Angular position of the crane mounting plate	Unlocking three arm slide clamping knobs enables to control and set the arms of the crane, making it possible to set a desired angular position of the crane mounting plate	Lock three arm slide clamping knobs and to lock angular position of the crane mounting plate



## 4. Product description

Slide Kamera HKR-6 camera crane is equipment that offers great possibilities of creating images allowing to achieve excellent results during film realisations. It allows to take smooth rise up and fall down crane shots, and to film from the places previously inaccessible for the operator. It allows to present the scene from multiple perspectives while maintaining perfect smoothness of motion. Telescopic design of HKR-6 crane allows to adjust length of the arm freely fitting the needs of the filmmaker.

Slide Kamera HKR-6 crane consists of the camera crane, counterweight (counterweight neck, weights and safety nuts), Slide Kamera AF-17 articulated arm and Slide Kamera HGO-2 rotational head. Arm of the crane is made of resistant building profiles that ensure high rigidity and durability of the device. Profiles have also anticorrosive protection against weather conditions. Additionally, the crane is equipped with various knobs and levers that allow you to lock the arm in any desirable position. All moving parts of the crane are bearinged, what ensures extreme smoothness of motion. Number of mounting holes allowing to attach additional accessories provide great universality of our device. Slide Kamera AF-17 articulated arm that comes with the crane, allows to mount the accessories in various positions. There is a possibility to mount remote controlled head, Slide Kamera HGN-4 2D or HGN-1 2D on the crane mounting plate, that allows to control the movements of the camera both vertically and horizontally.

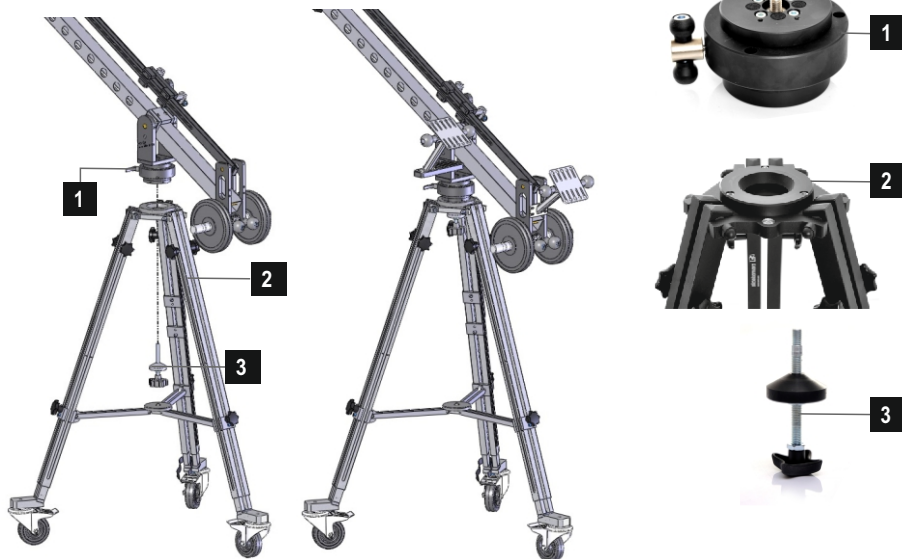
## 5. Preparing Slide Kamera HKR-6 crane to work

The crane should be mounted on Slide Kamera HST-2 tripod (700 or 920 ) equipped with a 75mm or 100mm socket. Slide Kamera HGO-2 rotational head is already attached to camera crane base with four M4x12 screws and 3/8" x 1" screw. Connect the tripod with the crane using Slide Kamera HSZ-2 quick mounting screw. Tighten the screw from the bottom of the HGO-2 rotational head base.

Slide Kamera HGO-2 rotational head [1]

Slide Kamera HST-2 tripod with 75mm socket [2]

Slide Kamera HSZ-2 quick mounting screw [3]



## 5.1. Setting up working arm of the crane

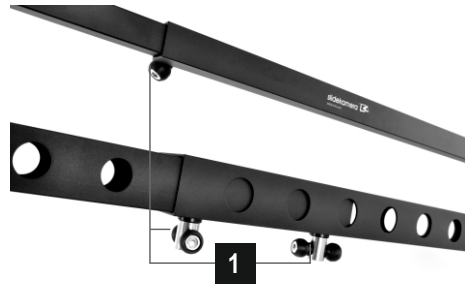
After mounting the crane on a tripod set up the crane. To do so, unlock arm slide clamping knobs (three knobs). Pay special attention so you do not unscrew the upper clamping knob too much. Extend the arm of the crane to a desired length and lock the arm by tightening three clamping knobs.

There is also a possibility to set the angular position of the crane mounting plate by controlling the extend of the crane arms.

### PLEASE NOTE:

Disassemble any photo-video equipment from the camera crane mounting plate if you intend to change arm length. Failure to do so may result in uncontrolled spreading of the arm and can cause damage to the equipment.

Arm slide clamping knobs [1]

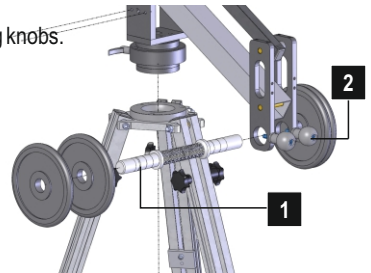


## 5.2. Mounting the counterweight and balancing the crane

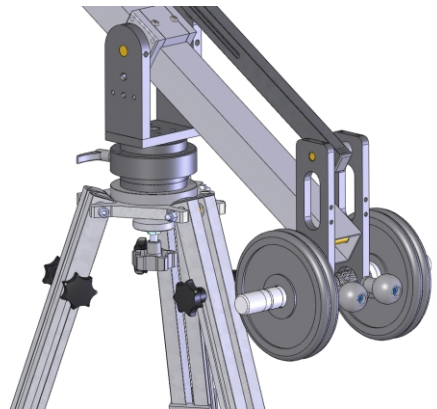
Place the counterweight neck in the holes and lock it using two clamping knobs.

Counterweight neck [1]

Counterweight clamping knobs [2]



After mounting the accessories on the mounting plate of the crane balance the crane by mounting the weights on the neck. **Please remember that maximum permissible counterweight is 24kg for 8kg of payload on the crane mounting plate.** Once you balance the crane properly tighten the safety nuts on the neck.



## 6. Mounting accessories to HKR-6 crane

### 6.1. Mounting Slide Kamera HGN-4 2D or HGN-1 2D remote controlled head

Accessories such as cameras, photo cameras or remote controlled heads are mounted on a socket attached to the mounting plate of the working arm of the crane. The socket is equipped with 75 mm bowl (alternatively 100mm) for 75mm or 100mm leveling ball. Mount remote controlled head using a half ball leveler. There is a possibility to change the position of the plate (either upper or bottom position on the brackets mounting the plate) thus providing the versatility of mounting and improving balance of the arm.

Half balls that can be mounted on the sockets, respectively:

Slide Kamera HCZ-75mm socket: Manfrotto 520 BALL/BALLSH half ball

Slide Kamera HCZ-100mm socket : Manfrotto 500 BALL/BALLSH half ball

Unscrew the half ball handle and place the half ball on the socket. Screw the handle form the underside of the socket.

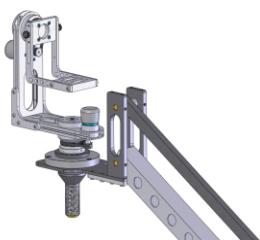


Socket mounted on the mounting plate

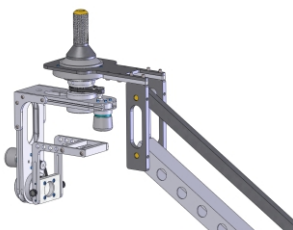


Socket reversed

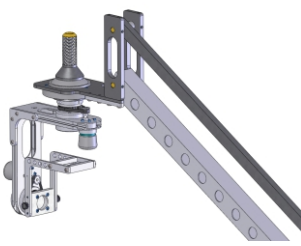
Examples of mounting Slide Kamera HGN-4 2D remote controlled head:



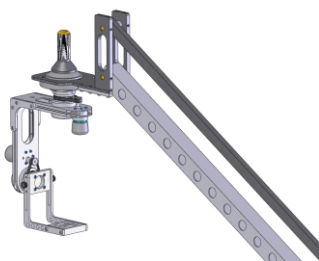
Bottom position  
of the plate head on the top



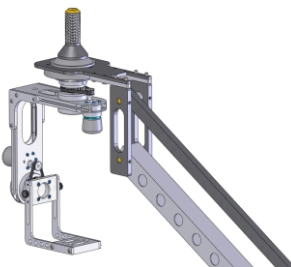
Upper position  
of the plate head reversed



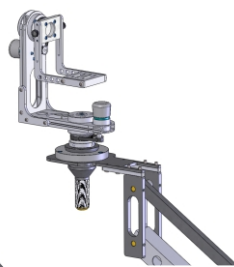
Bottom position  
of the plate head reversed



Bottom position  
of the plate head reversed



Upper position  
of the plate head reversed



Upper position  
of the plate head on the top

Cables that run between the remote controlled head and the controller as well as all the other cables (for example HDMI cable) can be attached to the arm with velcro straps included in the set.

## 6.2. Mounting Slide Kamera AF-17 articulated arm

Slide Kamera HKR-6 camera crane comes with already mounted articulated arm grip [1] and the ball head [2]. In order to mount the arm on the crane, loosen the clamping knob and attach the device to the ball head, then lock the lever. In case you want to mount AF-17 articulated arm on the other side of the crane, use 5mm Allen key to unscrew two M6x20 screws. Attach the grip on the other side (two M6 holes). Once you attach Slide Kamera AF-17 articulated arm to the crane you can mount HGN-ST controller to the device. The controller is equipped with 1/4" threaded hole. Connect the controller with the articulated arm using Slide Kamera AF-11LG reduction 1/4"- 3/8" thread.

Articulated arm grip [1]

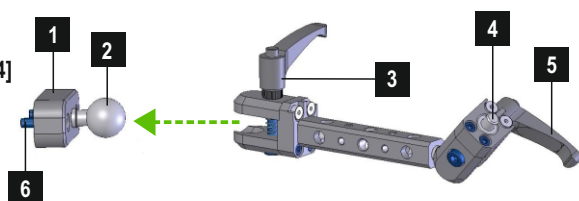
Ball head [2]

Clamping lever [3]

AF-11LG reduction 1/4"- 3/8" thread [4]

Clamping lever [5]

Two M6x20 screws [6]

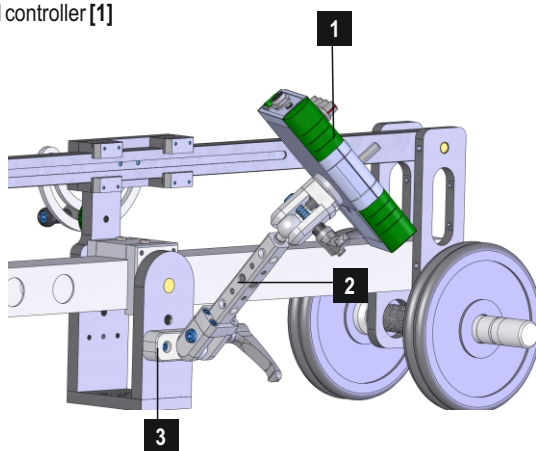


### Properly attached HGN-ST controller on Slide Kamera AF-17 articulated arm

Slide Kamera HGN-4 2D remote controlled head controller [1]

Slide Kamera AF-17 articulated arm [2]

Articulated arm grip [3]



## 7. Mounting individual elements of Slide Kamera HKR-6 camera crane set

### 7.1. Mounting Slide Kamera AF-16 adapter base to HST-2 tripod

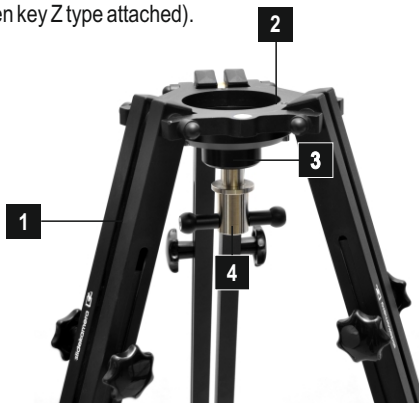
Begin mounting the adapter by attaching adapter base to the tripod socket. Mount the base from the underside of the tripod using three M6x20 screws (with 5mm Allen key Z type attached).

Slide Kamera HST-2 tripod [1]

Tripod socket [2]

Slide Kamera AF-16 adapter base [3]

Clamping screw [4]



### 7.2. Mounting Slide Kamera HGO-3 rotational fluid head to AF-16 adapter mounting socket

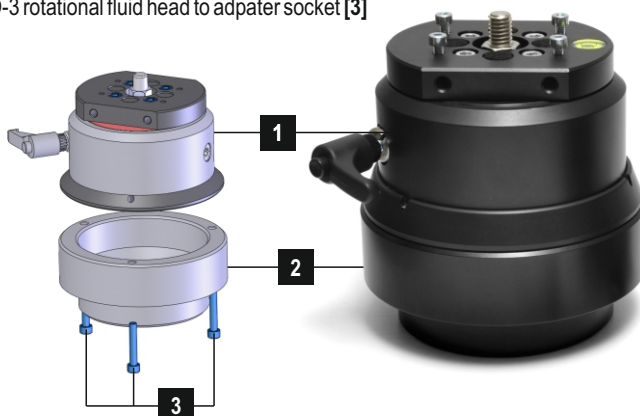
Place Slide Kamera HGO-3 rotational fluid head on adapter mounting socket in a way so that mounting holes overlap. Use three M5x30 screws to mount HGO-3 rotational fluid head. **Remember to insert the screws from the underside of adapter mounting socket.**

In case you have a crane with already assembled head there is no need to disassemble it, simply mount the set (crane with head) on AF-16 adapter socket.

Slide Kamera HGO-3 rotational fluid head [1]

AF-16 adapter mounting socket [2]

Three M5x30 screws mounting HGO-3 rotational fluid head to adapter socket [3]



### 7.3. Mounting Slide Kamera HGO-2 rotational head to AF-16 adapter mounting socket

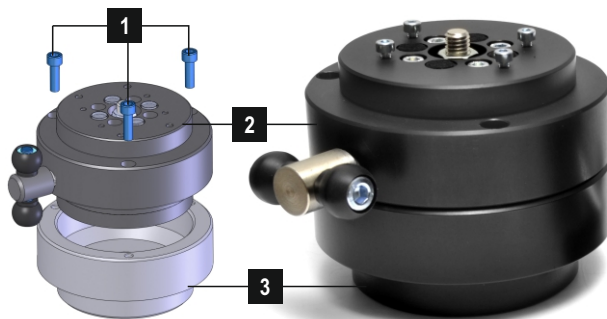
Place Slide Kamera HGO-2 rotational head on adapter mounting socket in a way so that mounting holes overlap. Use three M6x20 screws to mount HGO-2 rotational head. **Remember to insert the screws from the top of HGO-2 rotational head.**

In case you have a crane with already assembled head there is no need to disassemble it, simply mount the set (crane with head) on AF-16 adapter socket.

Three M6x20 screws mounting HGO-2 rotational head to adapter socket [1]

Slide Kamera HGO-2 rotational head [2]

Slide Kamera AF-16 adapter mounting socket [3]



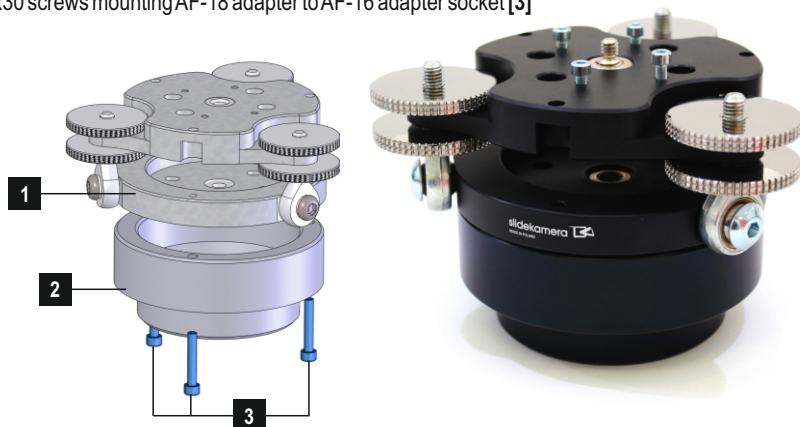
### 7.4. Mounting AF-18 leveling adapter to AF-16 adapter mounting socket

Place Slide Kamera AF-18 leveling adapter on AF-16 adapter mounting socket in a way so that mounting holes overlap. Use three M5x30 screws to mount AF-18 adapter. **Remember to insert the screws from the underside of adapter mounting socket.** In case you have a crane with already assembled head there is no need to disassemble it, simply mount the set (crane with head) on AF-16 adapter socket.

Slide Kamera AF-18 leveling adapter [1]

Slide Kamera AF-16 adapter mounting socket [2]

Three M5x30 screws mounting AF-18 adapter to AF-16 adapter socket [3]



## 7.5. Mounting Slide Kamera HGO-3 rotational fluid head to AF-18 leveling adapter mounting plate

Slide Kamera HGO-3 rotational fluid head is used for smooth regulation of the rotation as well as smooth change of the rotation resistance of HKR-1, HKR-4, HKR-6 camera cranes, Slide Kamera devices S and HSK series and other accessories. To mount HGO-3 rotational fluid head on Slide Kamera AF-18 leveling adapter disassemble adapter mounting plate and mount it to HGO-3 head base using three M5x20 screws.



After mounting AF-18 adapter mounting plate to the head connect the set with AF-18 adapter base.



When connecting, pay special attention so that you insert the upper steel knobs on the threaded bars when AF-18 mounting plate aligns with the bars. Safe inserting the upper knobs is possible only in this position.



After attaching the upper knobs, you can safely level the device.





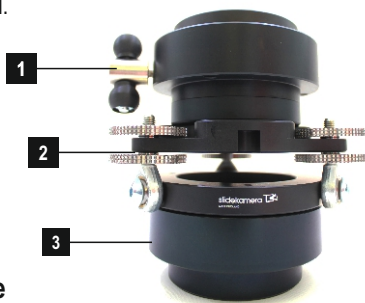
## 7.6. Mounting Slide Kamera HGO-2 rotational head to AF-18 leveling adapter base

Slide Kamera HGO-2 rotational head is used for smooth regulation of the rotation of HKR-1, HKR-6 camera cranes, Slide Kamera devices S and HSK series and other accessories. To mount Slide Kamera HGO-2 rotational head on AF-18 leveling adapter remove all screws from AF-18 adapter mounting plate. Screw Slide Kamera HGO-2 rotational head using AF-11 LG reduction 1/4"- 3/8" mandrel.

Slide Kamera HGO-2 rotational head [1]

Slide Kamera AF-18 leveling adapter [2]

AF-16 adapter mounting socket [3]



## 7.7. Mounting AF-16 adapter socket to its base

After attaching adapters to the camera crane, mount AF-16 adapter socket on its base and thereby mount HKR-6 crane on HST-2 tripod. Place the camera crane with the head and adapter socket attached on adapter base (previously mounted on tripod socket). Connect everything with a clamping screw. Clamping screw allows to obtain strong and stable connection between Slide Kamera HKR- 6 crane and Slide Kamera HST-2 tripod.

Slide Kamera HKR-6 crane [1]

Slide Kamera HGO-2 rotational head [2]

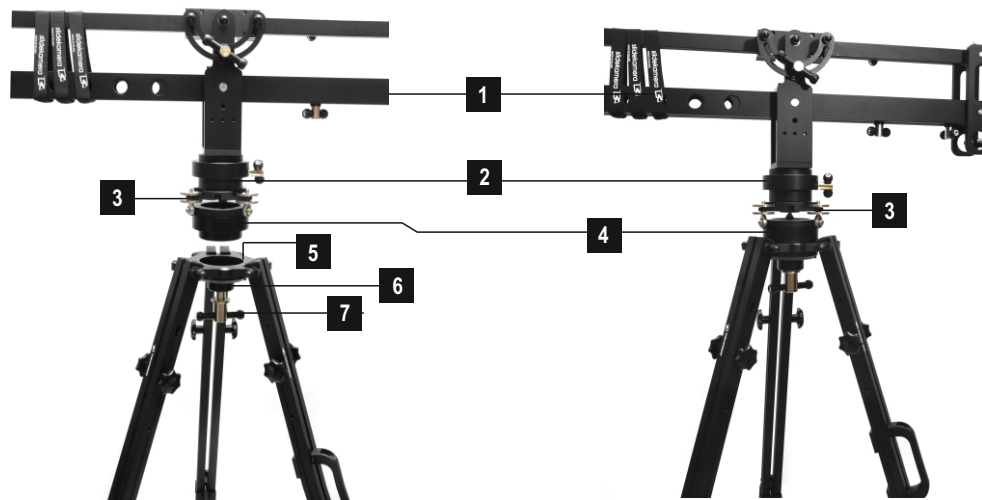
Slide Kamera AF-18 leveling adapter [3]

Slide Kamera AF-16 mounting socket [4]

Slide Kamera HST-2 tripod socket [5]

Slide Kamera AF-16 adapter base [6]

Clamping screw [7]





## 7.8. Mounting HKR-6 crane directly to Slide Kamera HST-2 tripod

There is also a possibility to mount HKR-6 crane directly to HST-2 tripod without using Slide Kamera HSZ-2 quick mounting screw or Slide Kamera AF-16 adapter. However, **the manufacturer does not recommend this option**. Connecting the crane with the tripod directly through Slide Kamera HGO-2 or HGO-3 head is less reliable, stable and handy.

**Warning:** frequent mounting and dismounting of HGO-2 or HGO-3 rotational head may result in damaging the threads in both, the head and the tripod.

To mount Slide Kamera HGO-2 rotational head, place the crane with the head on the tripod in a way so that mounting holes overlap. Use three M6x20 screws to mount HGO-2 rotational head. **Remember to insert the screws from the top of HGO-2 rotational head.**

To mount Slide Kamera HGO-3 rotational fluid head, place the crane with the head on the tripod in a way so that mounting holes overlap. Use three M5x25 screws to mount HGO-3 rotational fluid head. **Remember to insert the screws from the underside of tripod.**

## 8. Safety measures

When working with the crane of 2000mm long working arm and maximum acceptable weight including counterweights and mounted accessories up to 45kg it is extremely important to pay special attention to the safety when using the device. Because of the weight and length of the arm any impact caused by either the arm or any device mounted on the crane may result in serious injuries or equipment damage. All clamping knobs should be operated as instructed.

**It is important to pay special attention to the fact that the arm and counterweight clamping knobs are securely tightened to prevent the telescopic elements of the crane from moving.**

### **Please remember:**

- ☒ It is compulsory that the pins and nuts securing the counterweight are placed properly
- ☒ Legs of the tripod should be widely spaced to ensure stability of the device
- ☒ The crane should be tightly attached to the tripod. It is not allowed to operate the crane in a way causing danger to the people in the proximity of the device
- ☒ Weight of the crane combined with high inertia of the arm, in the event of an impact, can cause damage to the human body and the equipment itself
- ☒ Exercise extreme caution while mounting weights on the counterweight neck. Falling weight can cause serious injury
- ☒ Exercise extreme caution while during the transport of the crane. Any impact can damage the equipment

## 9. Maintenance

The crane does not need any additional service or lubrication of the components. Maintenance procedures are reduced to keeping the equipment clean.

## 10. Transport

During transport the camera crane is packed in protective styrofoam inserts for better stabilization of the device. All knobs and levers are tightened. Crane mounting plate is mounted in reverse position. After unpacking the product remove the plate and mount it in any desired position.

In order to ensure safe transport following conditions must be met:

- ☒ assemble the operating arm of the crane
- ☒ tighten all the clamping knobs to avoid the accidental spreading of the arms of the crane

The neck and counterweights are the elements transported separately.

## 11. Terms of warranty

All Slide Kamera products are covered manufacturer's warranty for a period of 12 months from the date of sale. Warranty covers any design faults or of the material of the product which resulted in the product malfunctioning. The warranty covers the repair, or, if the repair proves impossible, replacement of the product with a new one. However, the cost of repair of the product cannot overrun the catalogue value of the product. The warranty does not cover damage and / or product defects resulting from the improper usage, as well as not following product maintenance specifications.

### **The warranty excludes:**

- ☒ unauthorized attempts to repair or modify
- ☒ mechanical damage caused during transport and operation of such features, scratches, dents, pits, dirt, etc ...
- ☒ flooding, moisture

To obtain warranty service the purchaser should deliver the damaged product together with a proof of purchase and proof of payment (invoice, cash register receipt). The product will be accepted for warranty service on condition that it will be delivered with correctly filled in complaint form and properly protected during transport. You can download the complaint form from: [www.slidekamera.pl](http://www.slidekamera.pl) / [www.slidekamera.eu](http://www.slidekamera.eu).

After the warranty period is exceeded any spare parts can be purchased directly from the manufacturer or in any selected points of sale.

PLEASE NOTE: Any package sent at the expense of HET-CNC s.c., 80-175 Gdańsk, Ul. Kartuska 386 will not be received.

