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# Operating Instruction

## Cine Jib Crane



# **Introduction**

Congratulations to your decision to buy or rent a **CINE JIB CRANE**! We are very pleased that you have chosen our product, which combines state-of-the-art technology as well as the experience of many years in manufacturing camera cranes and dollies has been combined.

High-quality material and sound know-how, as well as a clever concept enable your **CINE JIB CRANE** to do a professional job, which you will really enjoy when doing your responsible work at the set.

Your new **CINE JIB Crane** is a high-quality tool, which enables the creative camera man to do an excellent job – fast and easy – with fantastic shots and camera drives.

The **CINE JIB CRANE** is a product that has been created and built by experts for experts – to satisfy the high demands of every grip and camera man. We hope that you will have a lot of pleasure with your **CINE JIB CRANE**. In order to guarantee the highest security and reliability in our product at the set, please study our operating manual very carefully!

All the best  
Panther GmbH

# **Index**

<b>Theme</b>	<b>Page</b>
Introduction	2
Index	3
To the grip	4
Safety instructions	4
General instructions	5
Check list for assembling	6
Operating- and safety advice	7-8
Assembling instruction	9-12
First operation	13-15
Service and maintenance	15
Single Parts	16

## **To the grip**

Sloppy assembly, disassembly and operating have created and will also create in future damages and physical injury, as well as death of involved or even uninvolved persons.

The following operating instructions should explain to the grip how to work with the camera crane and should also make aware and give advice to take care of possible dangers. Accidents can only be avoided if the dangers are well known and the common sense is activated.

## **Safety instructions**

Please start working with the crane only after studying the complete instruction manual and understanding everything.

Security advice, measurement and weight indications, as well as the repair and maintenance instructions have to be observed carefully.

Lifting, swivel and operating range of the crane including the complete outrigger must be kept free. The safety distance of  $\geq 0,5$  m to all parts of the surrounding have to be kept free from all sides.

Attention: It is not allowed to use the crane on inclined planes. The CRANE has to be secured so that it cannot slip away. The underground has to be hard and inflexible. The minimum carrying capacity of the underground has to be  $3000 \text{ kg} / \text{m}^2$ .

The crane should never be left unattended in assembled state. It has to be secured that persons without authorization cannot use the crane. If necessary adequate measures against heavy wind or storm have to be taken.

Before starting operation the crane's stability with the maximum tilting moment has to be checked.

When working in the studio or with tracks it has to be observed that no hard or loose parts can get under the wheels. Also slight unevenness can endanger standing- and driving security.

Do only use Panther original accessories.

Combined seat extensions (vertical/horizontal) with the order numbers 110, 111, 112, 105663, 105662, 105661 must not be used. Use only vertical seat extensions or combined seat extensions marked with "HD" (=heavy duty)

## **General instructions**

Only competent persons are allowed to work with the CINE JIB CRANE.

Panther GmbH offers training work shops which will enable the participants to work with the Cine Jib Crane. The participants will receive a certificate at the end of this seminar. For more information regarding the actual dates or to book, please contact 089/61390001.

Repairs should only be carried out by the manufacturer or persons, who received a special training. Panther GmbH offers service seminars, which can be held according to your desires. Should you be interested, please contact 089/61390030 (Panther-Service).

The CINE JIB Crane may only be assembled according to this operating instruction.

The instruction manual has to be studied and understood completely.

In connection with the CINE JIB CRANE no air tires at the dolly base should be used.

Maximum wind speed: 40 km/h.

Using the Cine Jib Crane is not allowed if the wind speed exceeds 40 km/h.

Please observe DIN 15019 to have enough time to dismantle the crane if a storm comes up.

The CINE JIB Crane can only be assembled according to the assembling versions shown in this operating instruction.

# **Check-List for Assembling**

**Take your time to securely assemble the crane, to check and to test the crane before use.**

## **Transport**

✍ Do not expose the outriggers and balance rods and especially the cast platform to heavy strokes.

## **Auxiliaries**

- ✍ Water level
- ✍ Support device
- ✍ Small ladder / Rostrum

## **Ground**

- ✍ No slope: check with water level
- ✍ Use sub-base if slope
- ✍ If the ground can only be loaded up to 3000 kg/ m<sup>2</sup> the load has to be distributed by a reasonable sub-base.

## **Basis**

- ✍ No slope: check with water level
- ✍ Min. 3000 kg / m<sup>2</sup> load capacity of sub-base

## **Assembly**

- ✍ Check whether all necessary parts are available
- ✍ Assemble according to instruction
- ✍ **IMPORTANT:** Platform and counterweight bucket have to be supported under the load center of gravity if the outrigger is loaded in only one direction. Safety instructions of the instruction manual have to be observed.

## **Safety instructions**

- ✍ Observe safety instructions

## **Operating and safety advices**

The crane operator is obliged to inform the person(s) on the platform that they have to use a safety belt. The person(s) is/are only allowed to leave the platform after the counterweights have been removed from the counterweight bucket.

Please do not leave loose parts on the platform or the remote head mount. They can fall and injure persons.

The crane may never be left unattended in assembled state. The Crane has to be disassembled or protected against wind when out of service. Please observe DIN 15019 to have enough time to dismantle the crane if storm comes up.

The vertical and horizontal swiveling area must be kept free. The safety zone of 0,5 m must be kept free in all directions. Please look out for possible pinching dangers during assembly and operation.

When turning and rotating the crane outrigger and during curve drives, centrifugal forces can appear which can endanger the standing stability when added.

It is not allowed to use air tires at the base dolly in connection with the Cine Jib Crane.

For safety reasons it is obligatory that the crane stands/drives on absolutely hard, stable and inflexible ground, which is completely leveled. Please pay attention that no hard or loose objects can get under the wheels, so that the standing and driving stability of the crane could be endangered. Example: Cable in the studio. This also applies when working with tracks.

Please do not exceed the maximum payload of the platform or the remote head mount. Please only use the maximum number of weights allowed which fit into the counterweight bucket. The use of additional weights, such as sand bags, is not allowed.

For the payload of the base, tracks or supports the complete crane weight including all accessories and persons have to be considered.

Support material such as wedges and blocks have to be fixed in a way that they cannot slip away, fall out or be pushed away.

At the end of the tracks clips or similar safety stops have to be fixed to avoid that the crane could fall down.

Please check the function, damages and missing parts of the crane every day. Damaged or missing components have to be replaced by new ones immediately.

Mark the operating range (pan and tilt area) of the crane with flags, stickers or similar material. Keep all persons out of the operating area in order to avoid anybody to be hurt by the base dolly or the outrigger.

Getting on and off the crane is only allowed if the operator has given his approval. Getting off a balanced crane causes an abrupt rising of the outrigger and can cause damage to the crane itself or severe injuries to persons.

Do not use the crane in the vicinity of high-tension lines.

In case the crane is used on elevated areas (e.g. bridges, sky scrapers) it is recommended to additionally secure the persons on the platform by a security rope at a second object (e.g. concrete post) in order to lower the risk of falling.

Do not work with persons on the platform under extreme weather condition – be it naturally or imitated – e.g. heavy rain, thunder and lightning, extreme heat or cold unless those persons are secured sufficiently.

The crane may not be operated if there is the danger of being struck by lightning. After shooting the crane has to be dismantled or secured against wind. Please observe DIN 15019 part 1/6.1.3. to have enough time to dismantle the crane if a storm comes up.

After shooting, especially after use under dirty, dusty, sandy, humid and salty conditions the crane has to be thoroughly cleaned and serviced. Keep the security belts in good condition.

Take care that the outrigger does not touch anything within the rotating area.

Check the surrounding of the crane for possible dangers.

Stop working with the crane immediately, even if only a small part is damaged or not mounted the correct way.

# Assembling Instruction

In the following the assembly of the Cine Jib Crane is shown:



## 1. Underground

Control if the underground is uneven. In case of more than 1% slope, a special base or tracks have to be used. Load-carrying capacity of the underground min. 3000 kg / m<sup>2</sup>



## 2. Underlay

Has to have a load-carrying capacity of a minimum of 3000 kg / m<sup>2</sup>. Base has to be mounted very carefully and without any slope.

Also the tracks have to be laid out very carefully and without any slope. Special attention has to be given to the loose supporting material (for example keys), so that they can neither slip away nor be displaced by mistake.



## 3. Base

Base has to be braked, so that it cannot slip away during assembling.

If the ground is not 100% even, tracks have to be levelled and mounted.



## 4. Bazooka

The Bazooka has to be put onto the base and screws must be tightened.



### 5. Fork

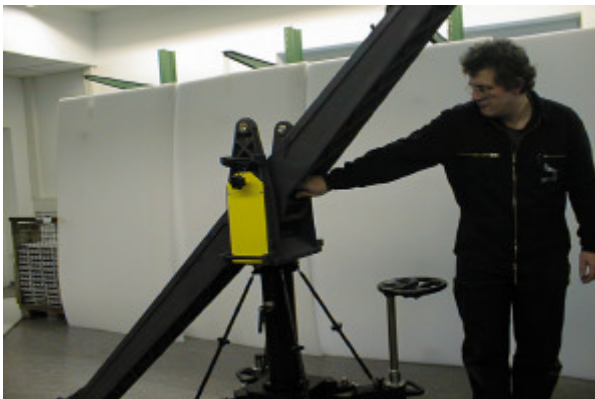
The Fork has to be put onto the Bazooka and screws must be tightened.



### 6. Cine Jib Arm

Hang the Cine Jib Arm into the fork and fold the short segment. The straps of the fork axis have to be in positioned in the way that the short arm segment can be folded by 180°.

**Attention:** A ladder or a rostrum can be used as support of the outriggers for the assembling.



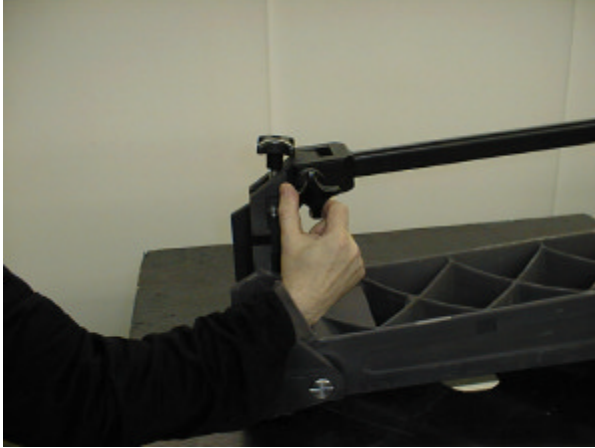
### 7. Safety screw

The safety screw has to be tightened.



### 8.1 Balance rod

Hang the balance rod into the upper axis of the fork. The axis is closed by a 90° rotation (bajonett)



### 8.2 Balance rod

The two ends of the balance rod are fixed at the front and rear outrigger plate by a 90° rotation (bajonett).



### 9. Counterweight holder

Hang the counterweight holder into the short outrigger and secure it with the safety screw.



### 10. Low shot bracket

Hang the low shot bracket into the long outrigger and secure it with the safety screw.

**Attention:** A ladder or a rostrum can be used as support of the assembled crane.



### 11. Camera- and Seat base

The camera- and seat base has to be mounted at the low shot bracket.

**Attention:** When loading the camera- and seat base, the base has to be supported under the point of gravity.



## 12. Loading

After loading the camera- and seat base (camera and persons), as much weights have to be mounted as needed so that the arm is in balance.

The red sliding weight serves for fine adjustment.



The dismounting is effected in reciprocal sequence

# First Operation

**Important:** Before loading the platform and the weight holder, all connector screws have to be checked if they are really tightened.

## **Advice regarding the payload:**

The payload of the platform is the sum of the weight of the person(s), as well as the weight of all accessories (bazooka, seat, seat arm) and the camera with all accessories.

**Max. payload: 260 kg (570 lbs)**

**Max. wind speed: 40 km/h**

## **Attention:**

**If the crane is balanced and no longer supported, it is not allowed to leave the platform. The person(s) on the platform have to wear a safety belt.**

## **Special accessories:**



### **High shot bracket**

For max heights, the high shot bracket can be used. The high shot bracket has to be hung into the long outrigger and secured with the safety screw.



The camera- and seat base is mounted at the high shot bracket.

**Attention:** When loading the camera- and seat base it has to be hung under the point of gravity.

We recommend to use a support rod.



### Super low shot bracket

For low camera positions the super low shot bracket can be used.

The super low shot bracket is fixed at the long outrigger and is secured with the safety screw.

The low shot bracket is fixed at the super low shot bracket and secured with the safety screw.



The camera- and seat base is mounted at the low angle console.

**Attention:** When loading the camera- and seat base it has always be supported in the center of gravity.



### Handle

The handle is pushed into the weight holder and fixed.



### Monitor holder

The monitor holder is pushed into the weight holder and fixed. Then the connection rod is mounted at the end of the balance rod.



### **Video and camera center**

If a person is sitting behind a studio camera, the video camera center is mounted. With a maximum of 3 counterweights, the weight of the persons can be balanced at the side of the camera.

## **Service and Maintenance**

The Panther Cine Jib Crane is a very solid piece of equipment that guarantees reliable work without a lot of maintenance work.

To guarantee a long life and stable quality, it is advisable to treat all elements of the crane very carefully.

For damages occurred due to inappropriate treatment we do not accept any warranty claims.

After working with the crane, particularly after working in a dirty, dusty, sandy, wet and salty surrounding, the crane has to be cleaned and maintained very carefully. Please keep the safety belts in good condition.

Interrupt the work with the crane immediately, if only a small part of the crane is damaged or missing.

Maintenance and repair should only be made by trained and competent persons.

Panther GmbH offers service seminars, which will be held according to your desires. For exact dates, please call 089/61390030 (Panther-Service).

**According to ZH 1/222 / 3.2 and UVV VBG 70 § 34, the safety and machine appliances have to undergo an interim check up by a competent person at least every 4 years and at least every year by an expert (repeated check up - see maintenance book).**

If necessary, parts of the crane have to be exchanged.

