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# Instruction Manual

## Panther Foxy Crane



# **Introduction**

Congratulations to your decision to buy or rent a **PANTHER FOXY 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.

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

Your new **PANTHER FOXY 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 **PANTHER FOXY 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 **PANTHER FOXY 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

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## **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 kg / m<sup>2</sup>.

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 PANTHER FOXY CRANE. Panther GmbH offers training work shops which will enable the participants to work with the Panther Foxy 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 PANTHER FOXY Crane may only be assembled according to this operating instruction.

The instruction manual has to be studied and understood completely.

In connection with the PANTHER FOXY CRANE only air tires can be used at the dolly base, if all 4 spindles touch the ground and carry the whole weight. It is not allowed to drive with the completely mounted Foxy Crane using air tires.

Maximum wind speed: 40 km/h.

Using the Foxy 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 PANTHER FOXY Crane can only be assembled according to the assembling versions shown in this operating instruction.

# **Check-List for Assembling**

Please check which crane version is best for your shooting. The following points have to be considered:

- height
- working distance
- spatial limits
- access to shooting place
- limits in weight
- ultimate load needed
- platform - operation
- remote - operation

**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 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**

- ☐ Observe safety instructions

# **Operating and safety advices**

The crane operator is obliged to inform the persons on the platform that they have to use a safety belt. The persons 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  $\geq 0,5$  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.

In connection with the Panther Foxy Crane only air tires at the base dolly can be used, if all 4 spindles touch the ground and carry the whole weight. It is not allowed to drive with the assembled Foxy Crane with air tires.

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.

**Do only use original PANTHER accessories and spare parts.**



# The Panther Foxy Crane

1. Base Dolly
2. Pyramid
3. Central Pivot Section
4. Outrigger 1 with Balance Rod 1
5. Outrigger 2 with Balance Rod 2
6. Platform with Turnstile Attachment
7. Remote Head Mount
8. Counterweight Bucket
9. Weight
10. Fine Adjustment Counterweight



# **Assembling Instruction**

**In the following the assembly of the Foxy Crane Version 4 is shown:**

Version 1-3 are assembled in the same way, but not the same number of outriggers 2 are mounted at the front side (platform/remote head mount).



## **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. Base**

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.



## **3.1 Base on tracks**

Base has to be braked, so that it can not slip away during the assembly.





### **3.2 Base on the underground**

Base has to be braked, so that it cannot slip away during the mounting. If the ground is not 100% even, the basis has to be leveled with the spindle.



### **4. Pyramid**

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



### **5. Central Pivot Section**

The Central pivot section has to be put onto the pyramid and screws must be tightened.



### **6. Outrigger 1**

Suspend outrigger 1 into the central pivot section and tighten the connector screw. With the locking lever, the connection is fixed. It is not important on which side of the central pivot section the outrigger 1 is suspended.

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



### **7. Outrigger 2**

Suspend outrigger 2 on the central pivot section and tighten the connection screw. With the locking lever, the connection is tightened.



### **8. Outrigger 2**

The second outrigger 2 is fixed on the first outrigger 2 and the connector screw is tightened. With the locking lever the connection is tightened.



### **9. Outrigger 2**

The third outrigger 2 has to be fixed at the second outrigger 2 and the connector screw is tightened. With the locking lever the connection is tightened.



### **10. Outrigger 1**

The remaining outrigger 1 has to be fixed at the third outrigger 2 and the connector screw is screwed tight. With the locking lever the connection is tightened.



### **11. First balance rod 1**

The balance rod 1 has to be fixed at the central pivot section at the short outriggers' side and has to be secured with the blocking bolt.





## 12. Counterweight bucket

The counterweight bucket is mounted at the short outriggers' side and tightened.

**Attention:** Even if the counterweight bucket is tightened by its own weight, the two screws have to be tightened in addition. Otherwise the counterweight bucket could fall when driving



## 13. First balance rod 1

The balance rod described under point number 11 is mounted at the counterweight bucket and is secured with the locking bolt.



## 14. First balance rod 2

The balance rod 2 is fixed at the central pivot section at the long outriggers' side and secured with the locking bolt.

The front side of the balance rod is mounted at the holder of the balance rod and secured with the bolt.



## 15. Second balance rod 2

The second balance rod 2 is mounted in the right sequence and is secured with the bolt.



#### **16. Third balance rod 2**

The third balance rod 2 is mounted in the right sequence and secured with the locking bolt.



#### **17. Second balance rod 1**

The second balance rod 1 is mounted at the remaining holder for the balance rod and is secured with the locking bolt.



#### **18. Remote head mount**

The remote head mount is mounted at the long side of the outrigger and tightened.

**Attention:** also if the Remote Head Mount is fixed by its own weight, the two screws have to be tightened. Otherwise the remote head mount could fall when driving.



#### **19. Second balance rod 1**

The balance rod described under point number 17 is fixed at the head mount and secured with the locking bolt.



## For Platform-Cranes



### Platform

If a platform-crane is assembled (version 1 or 2) instead of the remote head the platform is mounted and tightened.

**Attention:** Even if the platform is fixed by its own weight, the two screws have to be tightened.

Otherwise the platform could fall when driving.

The screws of the turnstile attachment have to be tightened in every case.



### Second balance rod 1

The second balance rod 1 is mounted at the platform and secured with the locking bolt.

**The dismounting is effected in reciprocal sequence.**

# **First Operation**

**Important:** Before loading (platform, remote head mount, counterweight bucket) and operation 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 extension) and the camera with all accessories.

The payload of the remote head mount is the sum of all parts that are mounted on the remote head mount (remote head, camera, objective,...).

## **Max. payload:**

### Platform crane

Version 1: 250 kg (551 lbs)

Version 2: 140 kg (310 lbs)

### Remote crane

Version 3: 80 kg (176 lbs)

Version 4: 50 kg (110 lbs)

If there is not enough room (for example in small studios) instead of outrigger 1 also outrigger 3 (same as outrigger 1, but shorter) can be used.

Then the big counterweight bucket has to be used. The payload on the platform or the remote head mount remain the same, due to the big counterweight bucket.

It is not allowed that the maximum payload on the platform/remote head mount is exceeded.



The big counterweight bucket can only be used together with outrigger 3.

The maximum number of counterweights in the counterweight bucket allowed should not be exceeded. Other weights, such as for example sand bags, are not allowed.

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

**When loading the remote head mount or the platform- they have to be supported under the center of gravity.**



## 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 use a safety belt.



### Loading of the counterweight bucket

Please do not exceed the maximum payload of the platform or of the remote head mount. Use only the maximum number of counterweights allowed which can be put into the counterweight bucket. It is not allowed to use additional weights, such as sand bags.

Please always close the door. The weights are only secured if the door of the counterweight bucket is closed.

### Unloading of the counterweight bucket

Advice for platform cranes (version 1+2):

You should put the first 10 counterweights into the base dolly when unloading the counterweight bucket. This is how to increase the stability when disassembling the crane and when a person is leaving the platform.



### Fine adjustment

With the fine adjustment counterweight the fine adjustment of the balance is effected. It is mounted on a balance rod and tightened with the screw.

## Further applications and special accessories:



### Balance rod

On two sides, push rods can be inserted into the pyramid. They are secured with the security splint.



### Outrigger 3

If there is not enough room, outrigger 3 can be used. Outrigger 3 should only be used with the big counterweight bucket. (see illustration).

The big counterweight bucket may not - and should not be mounted at the outrigger 1.



### Monitor holder

The monitor holder is mounted at the central pivot section.

### Pyramid extension

The Central Pivot Section can be raised by 30 cm (1 ft) with the extension.



Using the Foxy Base as **lightweight dolly**, **studio dolly** or **track dolly**, the turnstile attachment of the platform is mounted onto the Foxy base.



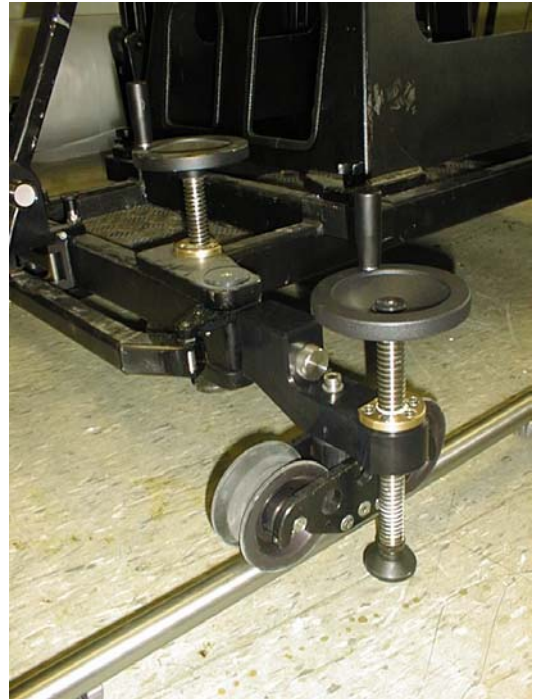




### 1 m gauge

To have more stability there is the possibility to drive with track wheel on 1 m tracks or to stand on additional spindles.

The air- or studio tires have to be disassembled.



The track wheel adapter for 1 m and the additional spindle:

1.



The spindle can be assembled at the dolly and/or at the track wheel adapter.

2.



The crank is disassembled with the spindle, the spindle nut assembled on the track wheel adapter for 1 m.

3.



The spindle has to be screwed in the nut and the crank is reassembled.

The assembling of the crank at the Foxy Dolly:

1.



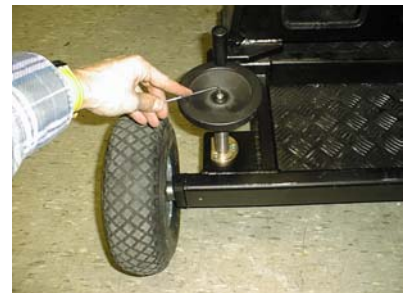
The spindle can be mounted at the dolly and/or at the track wheel adapter.

2.



Spindle has to be disassembled and the spindle nut has to be mounted at the dolly.

3.



The spindle has to be screwed in the nut and the crank has to be reassembled.

## The Baby Base



The Baby Base is suitable if space is restricted (e.g. door). The width is 70 cm (27").

The pivot (central Pivot section) is lowered by means of the Baby Pyramid. The support brackets of the counterweight basket must be screwed into the lower threads.

Take off the studio wheels in order to mount the track wheels.

Spindles can be mounted onto the wide base adapters (track wheel adaptor for 1m). (see above)





## **Bracing Kit 4**

The torsion rigid outriggers of the Foxy Crane have been designed in a way that no bracing kit is necessary.

Nevertheless we have created a bracing kit for very experienced camera men and grips that holds the arm very rigid when moving extremely fast.



**The bracing Kit 4 is mounted after the crane is completely assembled and balanced.**

**1.**



Assemble the trapezoid. Put trapezoid on central pivot section and screw tight.

**2.**



The ring mounts are screwed in the back and the frontmost outrigger (left and right) in crane **version 3** (5.8 m/19').

The ring mounts are screwed in the third front and back outrigger (left and right) in crane **version 4** (7m/23').

3.



Hook the back bracing rods in the ring mounts and screw them tight with the turning buckle.

4.



Mount first the three single front bracing rods for the left and right side.  
Now, you can hook the front bracing rods in the ring mounts and screw them tight with the turning buckle.



#### **Version 4 with bracing kit 4**

The payload of the remote head mount does not increase with the bracing kit.

**Version 3: max. 80 kg / 176 lbs**

**Version 4: max. 50 kg / 110 lbs**

The numbers of counterweights in the bucket increases with the bracing kit by **one piece**.



## **Bracing for 80 kg (176 lbs) in combination with the additional counterweight basket.**

The max payload of 80 kg (176 lbs) can be reached by mounting the additional counterweight basket in combination with the bracing kit for 80 kg (176 lbs).

Screw the bolts instead of the ring mounts in the corresponding places into the outriggers.  
The anchor poles are secured with the security splint.



Put the additional counterweight basket on top of the basket and screw it tight.

### **Attention!**

**It may only be used in combination with the bracing kit for 80 kg (176 lbs).**

The maximum number of counterweights in the counterweight basket allowed should not be exceeded. Other weights, such as for example sand bags, are not allowed.



## **Version 5**

You can build up a version with 5 outriggers when using the bracing for 80 kg (176 lbs) and the additional counterweight basket. The payload is however reduced to 50 kg (110 lbs) due to the length of 8.5m (28ft.)

## Transport

The Foxy Crane was built with the idea that all elements of the crane can be transported comfortably by one person at once.

This new concept has been registered as a patent.

It is absolutely prohibited to use the Foxy Crane as a trailer.



1. The outriggers 1 with the push rods 1 are inserted in the plug-in unit at the bottom.
2. The outriggers 2 with push rods 2 are inserted in the remaining plug-in units.
3. The counterweight bucket is set on the outriggers 1.
4. The central pivot section is set into the counterweight bucket.
5. The platform is mounted at the pyramid.
6. The head mount is assembled at the pyramid.
7. The fine adjustment counterweight can be tightened at the trace rod.

All components (especially the counterweight bucket) have to be secured with expanders or stretch belts to avoid that they fall down.

The Foxy Crane can be lifted onto trucks with a lifting platform. To transport or lift with a lifting crane is not allowed.



### Transport example:

Version 4 with short outrigger, back (outrigger 3) and bracing kit 4.

1.



2.



3.



4.



5.



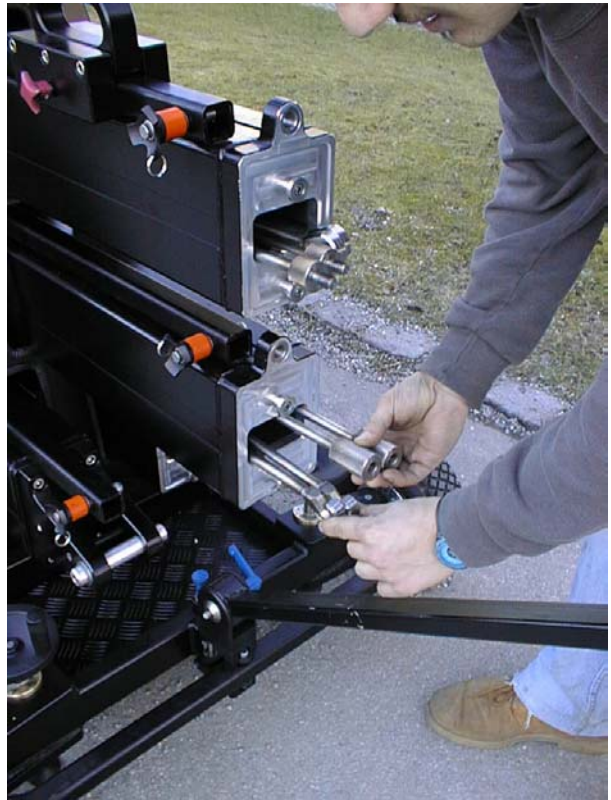
6.



7.



8.



## **Service and Maintenance**

The Panther Foxy 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 hold 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.

## **Technical Data:**

### **Data:**

Version	payload	max. height (platform/head mount)
Version 1	250 kg (551 lbs)	3,2 m (10.5')
Version 2	140 kg (310 lbs)	4,4 m (14.5')
Version 3	80 kg (176 lbs)	5,8 m (19')
Version 4	50 kg (110 lbs)	7,0 m (23')

### **Dimensions:**

Wheel base: 115 cm (3.8')

Gauge: 80 cm (2.6')

Gauge on tracks: 62 cm (2'1'')

Gauge on tracks  
with special adapter 100 cm (3'3'')

Max. base measurement: 115 cm (45'') x 115 cm (45'')

Transport measurements: 190 cm/75'' x 88 cm/34.5'' x 124 cm/48.5'' (L x W x H)

### **Weights:**

Foxy Basis: 42 kg / 92.7 lbs

Pyramid: 17 kg / 37.5 lbs

Central Pivot Section: 20 kg / 44.1 lbs

Outrigger 1 with balance rod: 17 kg / 37.5 lbs

Outrigger 2 with balance rod: 14 kg / 30.9 lbs

Outrigger 3 with balance rod: 15 kg / 33.1 lbs

Platform with turnstile attachment: 16 kg / 35.3 lbs

Remote Head Mount: 6 kg / 13.2 lbs

Counterweight bucket:  
(for 18 weights) 17 kg / 37.5 lbs

Counterweight bucket, large:  
(for 30 weights) 25 kg / 55.1 lbs

Transport weight complete  
for all 4 versions: 194 kg / 428.2 lbs



# Foxy Crane System:

Panther GmbH, Raiffeisenallee 3, 82041 Oberhaching, Germany  
Tel: +49-89-613900-01, Fax: +49-89-6131000, www.panther.tv

## Parts:

### Einzelteile:

Code/Nr.	Description/Beschreibung	
127753 142130	Foxy base Baby base	
127845 142109	Pyramid Baby Pyramid	
131301	Pyramid extension Pyramidenverlängerung	
126896	Central Pivot Section Mittelteil	
126898	Outrigger 1 Ausleger 1	
126897	Outrigger 2 Ausleger 2	
129180	Outrigger 3 Ausleger 3	
136768	Half outrigger Halber Ausleger	
136770	End section Endstück	

## Quick Information

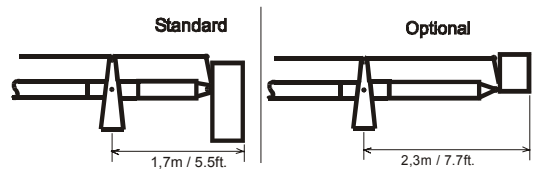
Please look into operating manual for further information!

## Schnellinformation

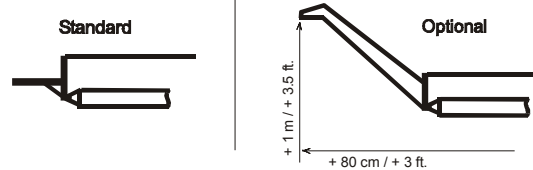
Bitte beachten Sie die Betriebsanleitung für weitere Informationen!

Code/Nr.	Description/Beschreibung	
122410	Platform holder Plattformhalter	
127066	Remote Head Mount Foxy Remote Galgen Foxy	
137011	High Rig Hochausleger	
129187	Counter weight Bucket, large (30) Gewichtskorb, groß (30)	
127098	Counter weight Bucket (18) Gewichtskorb (18)	
133529	Additional counter weight Bucket (8) Zusatzkorb (8)	
136643	Bracing kit (version 2-4) Abspannung (Version 2-4)	
136649	Bracing rod extension (version 5) Abspannungsverlängerung (Version 5)	

## Rear side / Hintere Seite:



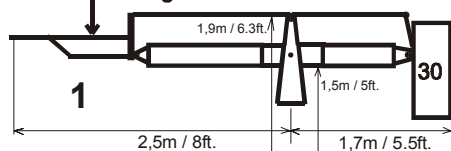
## Front side (remote only) / Vordere Seite (nur Remote):



## Platform Versions:

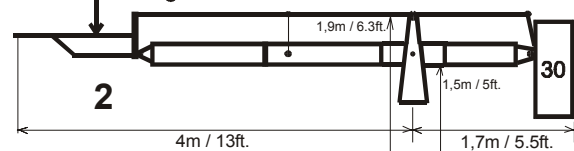
max. height/Höhe = 3,5m(11.5ft.)

250 kg / 551 lbs



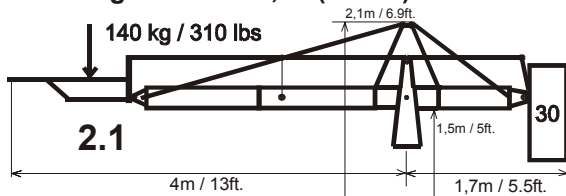
max. height/Höhe = 4,7m(15.5ft.)

140 kg / 310 lbs



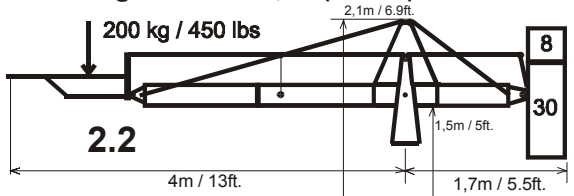
max. height/Höhe = 4,7m(15.5ft.)

140 kg / 310 lbs



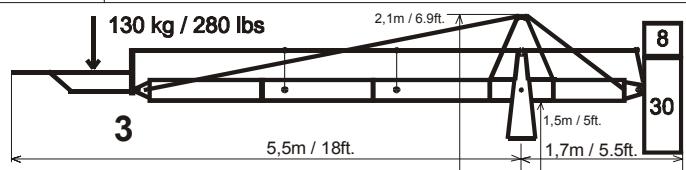
max. height/Höhe = 4,7m(15.5ft.)

200 kg / 450 lbs



max. height/Höhe = 6,1m(20ft.)

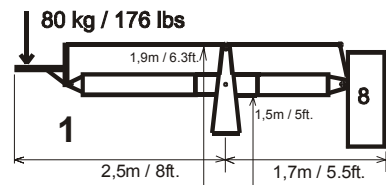
130 kg / 280 lbs



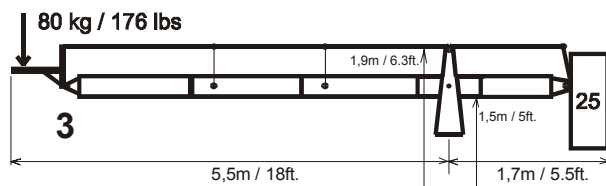
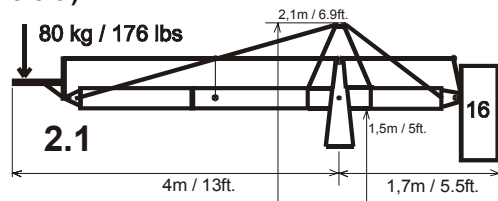
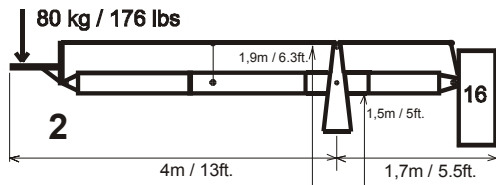
## Remote Versions:

Note: Deduct 30cm(1ft.)from max. height if used without pyramid extension.  
Hinweis: Die max. Höhe reduziert sich um 30cm, wenn die Pyramidenverlängerung nicht benutzt wird.

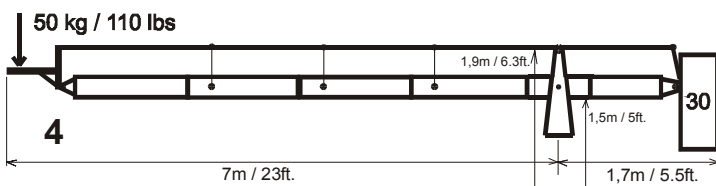
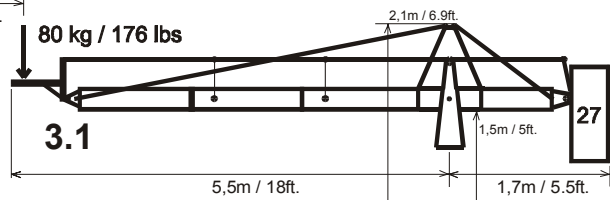
max. height/Höhe  
= 3,5m(11.5ft.)



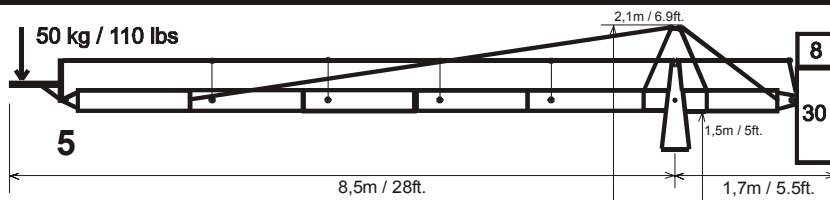
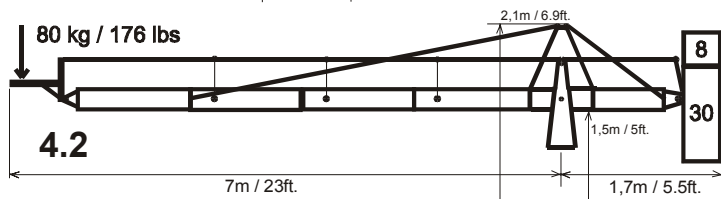
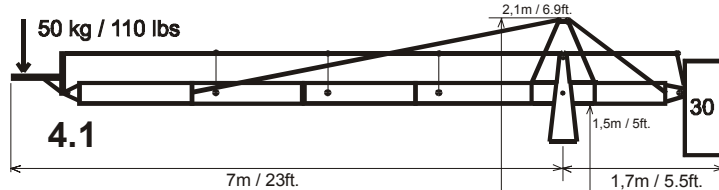
max. height/Höhe = 4,7m(15.5ft.)



max. height/Höhe = 6,1m(20ft.)



max. height/Höhe = 7,3m(24ft.)



max. height/Höhe  
= 8,5m(28ft.)