

# SUPER JIB I



Manual SUPER JIB I E 12.200x

## MANUAL

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## 1. General remarks:



### IMPORTANT !

The SUPER JIB I may only be installed/deinstalled and operated according to the operating instructions.

The operating instructions must have been read and understood

- The SUPER JIB I may only be used by trained personnel.
- Only Panther EVOLUTION, CLASSIC or SUPER PANTHER III dollies with corresponding software for SUPER JIB II may be used (market on electronics: SUPER JIB SJ).
- No pneumatic wheels may be used on the dolly in connection with SUPER JIB I.
- The loading diagram must be observed.
- In any case, before commissioning of SUPER JIB I, steadiness must again be tested using the maximum pitching moment to be expected.
- The horizontal and vertical field of traverse of SUPER JIB I must in any case be kept free.
- Use of the Panther Steer out Extension (Code no. 123915 for Evolution/Classic or Code no. 100507 for Super Panther 3) is recommended
- 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).
- take care, that during installation and operation there is an absolutely hard, inflexible underground, which is absolutely smooth and level. No inclined plane!
- Maximum wind during operation: 40 km/h
- during studio and rail operation, it must be taken care that no hard or loose objects can be rolled over. Even small spots of unevenness may endanger secure standing and driving. Do not use pneumatic wheels!
- Swing out all 4 wheel arms. Make sure that the locking bolts of the wheel arms are locked.
- The sequence of installation and loading instructions must be observed in any case.
- SUPER JIB I may only be installed in the variants shown within these operating instructions.
- Take care, that the platform height may never exceed 3 m / 9'10" from ground (that means you may never swing out the outrigger e.g. outside a window or over the railing of a bridge. The underlay of tracks must be chosen that the max. height of the platform may not exceed 3 m / 9'10".

## 2. Special risks:



### **DANGER OF PINCHING !**

During Operation In the area of these yellow signs, no persons and / or body parts (for instance hands, arms...) may be situated.

### **ATTENTION !**

In no case may persons be below the platform and the counterweights.

- The safety zone of 0.5 m must be kept in all directions. Please look out for possible pinching during assembly and operation.
- Switch switch „SUPER JIB“ on the front panel to „ON“. „SPEED“ has to be switched to „1“ or „2“.
- Do not use „SPEED“ in position „3“ or „4“. This could lead to motor damage.
- The horizontal and vertical field of traverse of SUPER JIB must be kept free.
- By turning the Super Jib arm and driving in curves, centrifugal force is created, which may add up and may impair steadiness.
- For safety reasons, it must absolutely be observed that the dolly stands/drives on absolutely level and stable, inflexible ground. During driving, absolutely look out that no hard or loose object can get beneath the wheels and impair toppling safety. Example: Cable within the studio, etc. This also applies to operation on rails.
- Safety regulations prescribe buckling of the safety belt for the operator. The manufacturer for this purpose offers bucket seats with safety belt.
- All loads projecting beyond the platform change the load diagram and endanger steadiness. This for instance also concerns bending outside of the camera man.
- When pivoting Jibarm, then observe that possibly occurring forces may impair steadiness (depending on acceleration).
- To prevent possible collision with the steering wheel, use the steering steer out extension.
- Do not leave loose objects lying on the platform.
- During disassembly in reverse order, observe load diagram.

### 3. Check-List for assembly

Please check which konfiguration is best for your shooting.

The following criteria have to be considered:

- height
- working distance
- spatial limits
- limits in weight
- payload required
- access to shooting place

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

#### 1. Transport

☐

Do not expose the outriggers and rods to heavy strokes, do not bend ropes.

#### 2. Auxiliaries

☐

Water level

☐

Support device (e.g. small ladder, tripod, etc.)

#### 3. Ground

☐

No slope: check with water level

☐

Use sub-base in case of a slope

☐

If the ground can only be loaded up to 1500 kg/ m<sup>2</sup> the load has to be distributed by a reasonable sub-base.

#### 4. Basis

☐

No slope: check with water level

☐

Min. 1500 kg/ m<sup>2</sup> load capacity of sub-base

#### 5. Assembly

☐

Check whether all necessary parts are available

☐

Assemble according to instruction

☐

Observe safety instructions



#### **CAUTION !**

Outtrigger have to be supported under the load center of gravity if the out-rigger is loaded in only one direction. It is obligatory to observe the safety instructions of the operating manual.

## 4. Information on load (payload)



### IMPORTANT !

The SUPER JIB load (payload) comprises the sum of weights of all elements on the jib's platform (camera operator, remote head, camera, seat extension etc.).



Plattform  
unloaded



Plattform  
loaded



### ATTENTION !

Change of load on one side of any already balanced jib arm will cause an abrupt imbalance which can result in the dolly overturning. The camera operator should only get on or off the jib after receiving approval by the jib operator. Also, the camera

- The SUPER JIB I may only be assembled according to the assembly options shown in this operating manual. Assembly variations not shown in the manual are not allowed!
- When panning or turning the outrigger, and when driving curves, centrifugal forces are generated which can add up and may possibly affect stability.
- Check the SUPER JIB I daily with regard to functioning, damage, and missing parts. Damaged and/or missing components must be replaced immediately before further use of the equipment.
- Mark the SUPER JIB I area of operation (driving/panning area) with flags, signs or similar items. Keep away any people from the operating area, to avoid anyone being hit by outrigger and/or dolly.
- Do not let the outrigger bang down at the end of the operating range.
- Check the SUPER JIB I operating area thoroughly for any possible risks or danger. Always conduct test runs before filming.
- Interrupt use of the SUPER JIB I if a component is damaged or not assembled correctly.

## 5. Loading

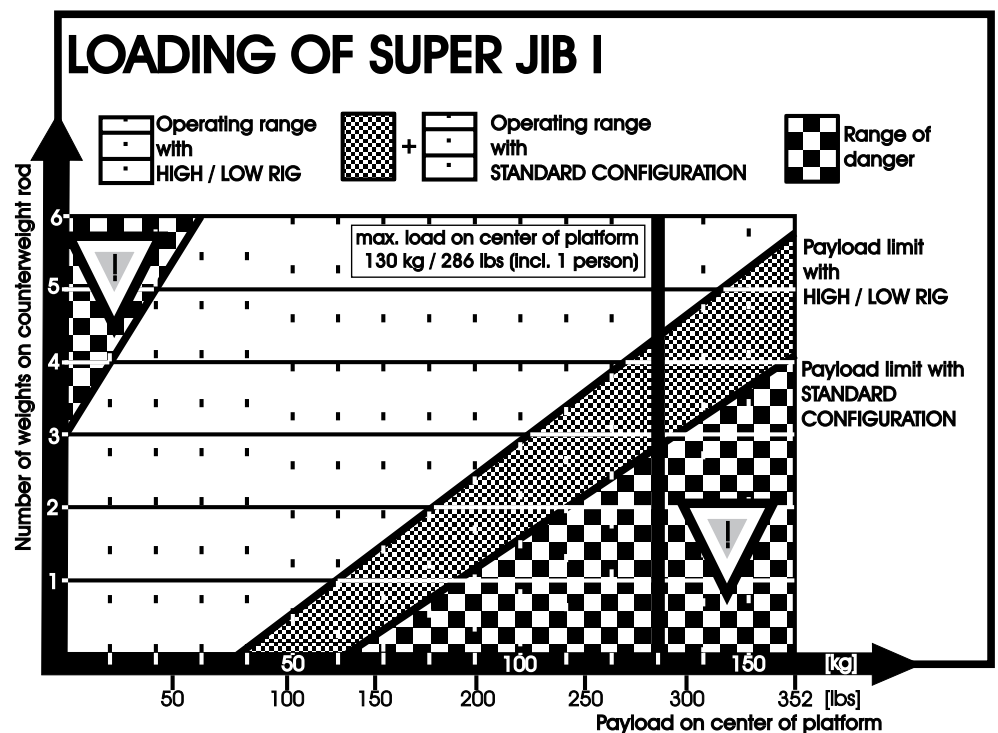
The following load diagram shows the number of necessary counterweights (Panther counterweights 15 kg, code no. 104378) dependent upon a centric load of platform.



### IMPORTANT !

The Load diagram shows figures for central load of the platform in starting position of the column. These figures are impaired by:

- fast acceleration and braking.
- uneven standing/driving area.
- superstructural parts and accessories and by dislocation of weight by the persons outside of the platform.



### ATTENTION !





It is necessary to keep to the line of optimum loading, so that the motor is not overloaded. If the motor is constantly overloaded, then this may lead to motor damage.

SUPER JIB I may not be operated manually in connection with dolly (not without connecting rod). This could lead to motor damage.


## 6. Components

The SUPER JIB I is conceptualized for individualized build respective to use and requirement. In the following list, all components comprising the SUPER JIB I system (code no. 100504) are listed.

For following orders, the single components are shown with their code numbers.

illustration not to scale <i>Darstellung nicht maßstabsgetreu</i>	product name <i>Bezeichnung</i>	code no. <i>Art.-Nr.</i>
	Super Jib I <i>Super Jib I</i>	100504
	Qty. <i>Anzahl</i>	code no. <i>Art.-Nr.</i>
	consisting of <i>bestehend aus</i>	
	1 Super Jib Arm I <i>Super Jib Arm I</i>	108766
	1 Super Jib II ring <i>Super Jib II Ring</i>	108218
	1 Counterweightrod for Vario Jib, SJ I (6 weights) <i>Gewichtsstange für Vario Jib, SJ I</i> (6 Gewichte)	114094
	1 Platform for Super Jib I <i>Plattform für Supert Jib I</i>	112753
	1 connecting rod SJ I <i>Verbindungsstange SJ I</i>	112722

### 6.1 Optionales Accessories

illustration not to scale <i>Darstellung nicht maßstabsgetreu</i>	product name <i>Bezeichnung</i>	code no. <i>Art.-Nr.</i>
	High Low Rig I <i>Hoch Tief Ausleger I</i>	100506



## 7. Setup instructions

### 7.1 Preparation

#### a) Ground

The ground must be firm and level. If there is an incline, specialized substructures or tracks with an adequate foundation must be used.



**ATTENTION!**

The ground's minimum loading capacity must be 1500 kg / m<sup>2</sup>.

#### b) Foundation

The foundation must be built carefully and without slope. It is especially important to take care that supporting materials (e. g. wedges) cannot be dislodged or be moved inadvertently.



**ATTENTION!**

The foundation's minimum loading capacity must be 1500 kg / m<sup>2</sup>.

#### c) Track operation

Please heed the information in the operating manual respective to the track system used. Use only original Panther track systems.

During the track build, the dolly brakes must be activated. Should the dolly have no brakes, it should be blocked in place with clamps set on the tracks, in order to avert uncontrolled or runaway rolling.



**ATTENTION!**

During track operation, the tracks must be level. No slopes allowed!

## 7.2 Assembly

### Step 1 – Swinging out the wheel arms

- All four wheel arms swung out and locked into place.



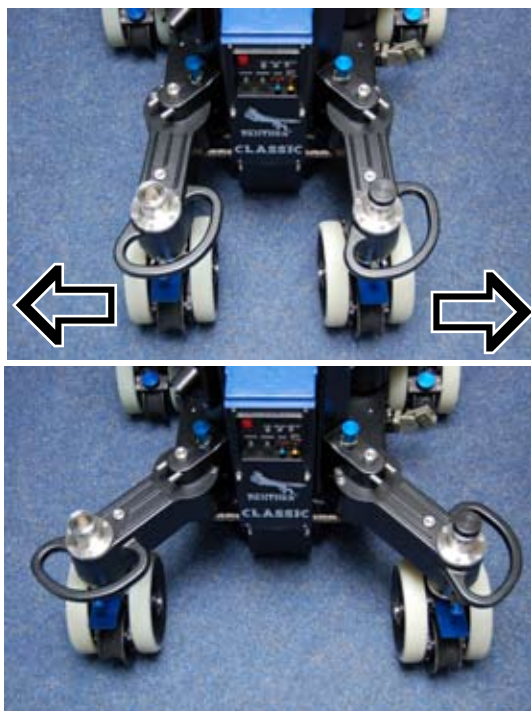
#### ATTENTION!

The wheel arm is only locked when the blue plunger has visibly and audibly snapped into the appropriate hole.



#### INFORMATION !

The SUPER JIB I can be used with Super Panther 3, Classic or Evolution Dollies.



### Step 2 – Switch electronics

- Switch dolly to SUPER JIB operating mode.

#### For Classic Dolly / Super Panther Dolly:

Switch “SUPER JIB” switch to “ON” position.

#### For Evolution Dolly:

Press “SUPER JIB” button.



### Step 3 – Remove seat arms from seat turret.

- Remove stop screw from bottom of threaded shaft ❶.
- Loosen seat arm by lifting it and sliding it off shaft ❷.
- Do not reattach the stop screw, as it can collide with the SUPER JIB ring ❸.



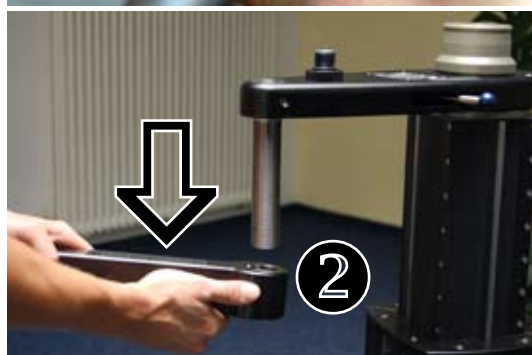
#### ATTENTION !

Do not reattach the stop screw! ❶  
- Danger of collision!



#### PINCH POINT WARNING !

There is very little space between the seat arm shaft and the inside of the SUPER JIB ring! ❸.



### Step 4 – Build Ring

- Put the SUPER JIB ring on the dolly.
- Lock down ring with all four screws.



#### *necessary parts*

1x	Super Jib II Ring	108218
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### Step 5 – Build SUPER JIB I

- Mount the SUPER JIB I to the Euro mount on the dolly column. The dolly seat turret should be positioned perpendicular to the jib arm.
- Screw the SUPER JIB's knurled screw tightly into the Euro mount ❶.
- After screwing the knurled screw tight, lock it into place using the screw lock lever ❷.



#### *necessary parts*

1x	Super Jib Arm kpl.	108766
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### Step 6 – Build connecting rod

- Attach connecting rod to the appropriate point on the jib arm.
- Test locking screw to make sure it is tight.



#### *necessary parts*

1x	connecting rod	
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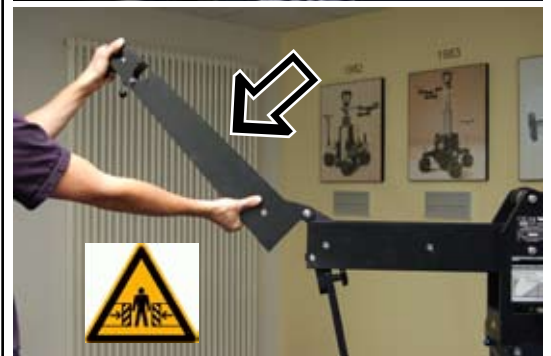
### Step 7 – Fold out arm rear

- Open the snap-lock.
- Fold out the arm segment towards the rear.



#### **PINCH POINT WARNING !**

There is a pinch point at the folding junction of the arm segments!



### Step 8 – Attach connection rod to ring

- Hang the lower profile wheel of the connection rod into the SUPER JIB ring.
- Set the upper profile wheel into place. Make sure that the upper wheel shaft locks into the corresponding relief in the



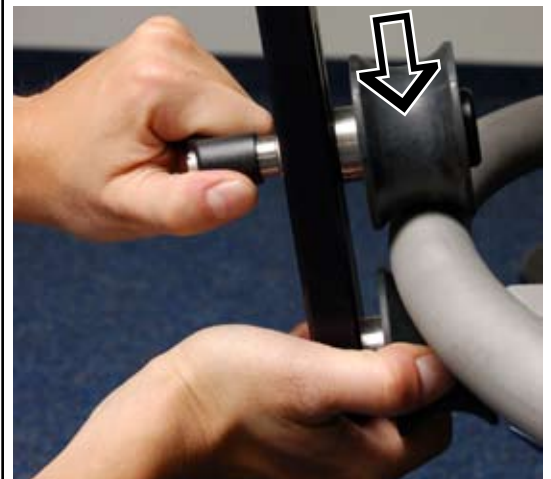
#### **ATTENTION !**

The profiles of the two wheels must tightly surround the profile of the SUPER JIB ring.



#### **INFORMATION !**

It is possible that the column must be vertically repositioned before the connection rod can be mounted.





### Step 9 a – Build Platform

- Hang the platform onto the appropriate locating pin and lock it into place with the knurled screw.
- After screwing the knurled screw tight, lock it into place using the screw lock lever.
- Proceed to step 10.

*necessary parts*

1x	Super Jin I Plattform	112753
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### Step 9 b - ALTERNATIVE, build optional High/Low Rig

- Hang the optional High/Low Rig onto the appropriate locating pin and lock it into place with the knurled screw.
- After screwing the knurled screw tight, lock it into place using the screw lock lever.



#### INFORMATION !

The High/Low Rig can be used in two positions. As such it must be oriented up or down and the knurled screw set in the appropriate position.

*necessary parts*

1x	High Low Rig I	100506
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- Hang the platform onto the appropriate locating pin and lock it into place with the knurled screw.
- After screwing the knurled screw tight, lock it into place using the screw lock lever.

*necessary parts*

1x	Super Jin I Plattform	112753
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### Step 10 – Build counterweight rod

- Push the counterweight rod through the hole in the rear arm segment and lock with the screw.



#### *necessary parts*

1x	Counterweightrod for Vario Jib, SJ I (6 weights)	114094
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### Step 11 – Build counterweights

- Mount weights as appropriate for the front load.  
(1 counterweight = 15 kg / 33 lb).
- Secure counterweights against accidental slipping with the security ring-splints.



#### **ATTENTION !**

When loading the platform or counterweight rod, always pay attention to the loading table in section 5!



#### *necessary parts*

6x	Counter weight, 15 kg / 33 lb	104378
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## 8. Start of operation

**IMPORTANT !**

Before loading (remote head mount, counterweight rod) or using the jib, all fastening elements (screws, hooks etc.) must again be checked that they are correctly secured.

**IMPORTANT !**

The SUPER JIB I must be balanced at all times. For this purpose, observe the information on the load diagram and section 5.

**IMPORTANT !**

Observe the special safety instructions in section 2.

Max. load:	130 kg / 286 lb
Max. wind speed:	40 km/h
Max. travel speed:	0,2 m/sec / 8"/sec
Max. operating weight:	500 kg / 1102 lb
Min. ground loading capacity:	1500 kg/m <sup>2</sup> / 33 07 lb/1550 sq inch



## 9. Technical specifications

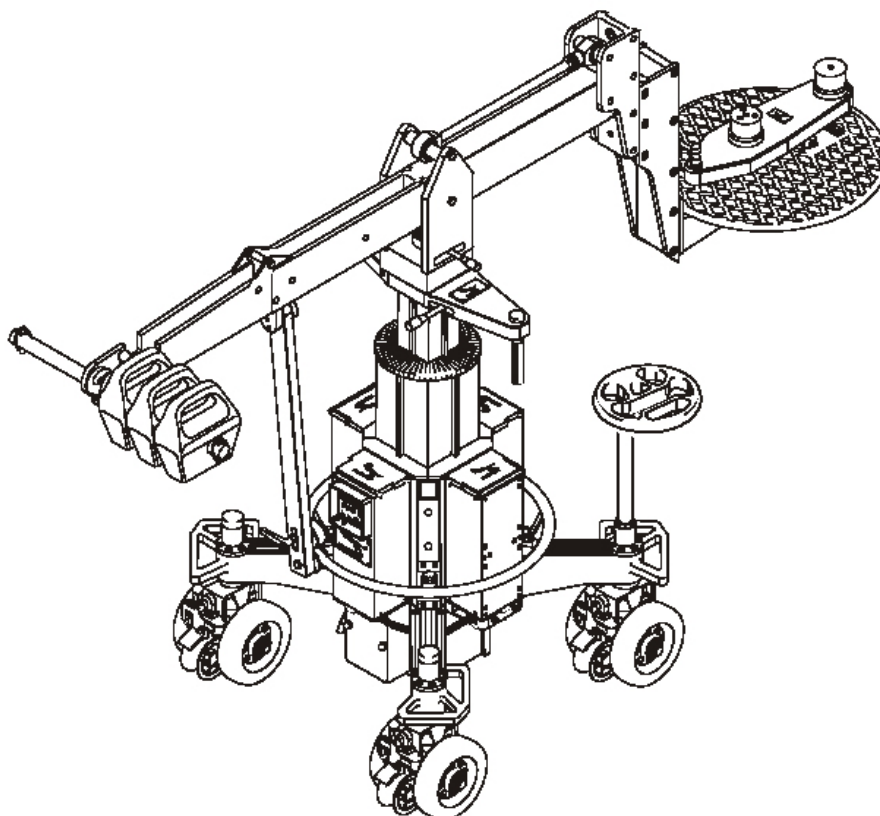
weight <sup>1</sup> :	52 kg / 115 lb			
Max. Payload (Center of platform):	130 kg / 287 lb			
range of elevator:	ca. 135 cm / approx. 4'5"			
	<i>without High Low Rig</i>		<i>with High Low Rig <sup>2</sup></i>	
	<i>platform top pos.</i>	<i>platform lower pos.</i>	<i>platform top pos.</i>	<i>platform lower pos.</i>
max. hight of platform:	200 cm / 6'7"	177 cm / 5'10"	235 cm / 7'9"	148 cm / 4'10"
min. hight of platform:	65 cm / 2'2"	42 cm / 17"	100 cm / 3'3"	13 cm / 5"
length of front Jibarm <sup>3</sup> :	126 cm / 4'2"			
length of front Jibarm <sup>4</sup> :	121 cm / 2'12"			
max. counterbalance:	90 kg ( 6 x 15 kg ) / 198 lb ( 6 x 33 )			
Dolly compatibility:	Super Panther, Panther Classic, Panther Evolution			
Jib mount required:	Euro Mount			
Camera head mount:	Euro Mount			

<sup>1</sup> without High Low Rig

<sup>2</sup> accessorie (code no. 100506)

<sup>3</sup> between center of rotation and front side of platform (without High Low Rig)

<sup>4</sup> between center of rotation and back side of jib arm



## 10. Service and Maintenance

The SUPER JIB I 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.



### **INFO !**

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 suspension cables in good condition.



### **ATTENTION !**

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 +49 (89) 613 900 30 (Panther-Service).

According to ZH 1/222 / 3.2 and UVV BGV C1 (former VBG 70), 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).

Please check all cables and turning buckles for damages (e.g. bent cables). If necessary, parts of the crane have to be exchanged.

## **11. Warranty**

We warrant that the products are free of manufacturing defects in material. Both for mechanical and for electronic parts, the warranty period is 12 months. The warranty period begins with the date of delivery.

Any warranty shall, however, expire if our operating and maintenance instructions are not complied with, if changes are made to the products, or if parts of our equipment are replaced with parts that do not correspond to the original specifications; the same shall apply to improper handling of the equipment.

The purchaser undertakes to exempt us from any claims for compensation which might arise on the part of third parties vis-à-vis us, whether resulting from putting into service or from using the equipment.

The purchaser must inform our customer service management in writing about any discernible defects without delay – at the latest, however, within one week after receipt of the delivered item. Defects which do not become discernible within this period, even after careful examinations, must be reported to us by the purchaser in writing immediately after discovery.

In the event that the purchaser should report that the products do not correspond to the warranty, we may require at our discretion that either

- a) the defective equipment or the defective part is to be sent to us for repair and subsequent return, or
- b) the purchaser keeps the defective equipment or the defective part available, and we shall commission an expert who will be sent to carry out the repair.

Transport cost and travelling expenses incurred for the purpose of remedying defects shall be borne by the purchaser.

Defects which occur to the equipment as a result of natural wear and tear shall not be covered by the warranty. When asserting claims under warranty, it is the duty of the purchaser to prove that the defects were not caused by circumstances which are among the risks within his sphere of responsibility (such as transport damage, improper operation, etc.).

Any further claims in particular claims for damages for direct or indirect damage are excluded. If after an appropriate time it is not possible to remedy the defect, the purchaser may at his discretion demand a reduction of the payment or cancellation of the contract.

Only the direct purchaser shall be entitled to make warranty claims against us; such claims are not assignable.

Oberhaching, April 2006

## 12. Inspection Book

Product:	Panther SUPER JIB I		
Manufacturer:	Panther GmbH Raiffeisenallee 3 82041 Oberhaching		
Payload:	130 kg / 286 lb		
Year of construction:			
Serial no.:			
User:	company:		
	address:		
	city:		
	country:		

### 12.1 EU - Declaration of Conformity

The product has been developed, designed and manufactured in conformity with the following regulations:		
EC regulations:	Maschinenrichtlinie	98/37 Anh. I/IV
harmonized technical regulations:	Sicherheit von Maschinen	EN 292 /394
National regulations	Veranstaltungs-und Produktions-stätten für szenische Darstellung	BGI 814
The technical documentation is complete. The Operating Instructions for the machine have been submitted.		
<u>Oberhaching. 30<sup>th</sup> of June 2006</u>		 Erich Fitz, President
We have fulfilled the essential safety and health requirements. In case of technical alteration of the machine by a third party, this declaration loses its validity.		

## 12.2 Recurrent inspection<sup>1</sup>

Ref. safety-related and und maschine-related equipment on stages and in studios. Certification of recurrent inspection according to §34 UVV Veranstaltungs- und Produktionsstätten für szenische Darstellung (VBG 70).

Product :	Panther SUPER JIB I		
Manufacturer:	Panther GmbH Raiffeisenallee 3 82041 Oberhaching		
Payload:	130 kg / 286 lb		
Year of construction:			
Serial no.:			
User:	company:		
	address:		
	city:		
	country:		
location of use:			
Appraiser / technical expert:	company:		
	address:		
	city:		
	country:		
The mentioned product has been checked by the person listed above; following defects were found:			
Trial run effected (load, speed):			
Objections to continuing use:	<input type="checkbox"/> yes <input type="checkbox"/> no		
Revision necessary:	<input type="checkbox"/> yes <input type="checkbox"/> no		
place, date _____		_____ Signature of examiner/expert	

<sup>1</sup> This page is reusable as a copy template.

### 12.3 Maintenance Booklet

Product:	Panther SUPER JIB I		
Manufacturer:	Panther GmbH Raiffeisenallee 3 82041 Oberhaching		
Payload:	130 kg / 286 lb		
Year of construction:			
Serial - no.:			
<b>FOLLOWING MAINTENANCE HAS BEEN EFFECTED:</b>			
1.	Date:	Description of maintenance:	Name:
2.	Date:	Description of maintenance:	Name:
3.	Date:	Description of maintenance:	Name:
4.	Date:	Description of maintenance:	Name:

5.	Date:	Description of maintenance:	Name:
6.	Date:	Description of maintenance:	Name:
7.	Date:	Description of maintenance:	Name:
8.	Date:	Description of maintenance:	Name:
9.	Date:	Description of maintenance:	Name:
10.	Date:	Description of maintenance:	Name: