



Grip Factory Munich

YOUR INNOVATIVE PARTNER FOR CAMERA SUPPORT

GF-6 Crane System Instruction Manual

Valid : March 2001

Grip Factory Munich GmbH
Fürholzener Straße 1
85386 Eching bei München
Germany

Tel.: +49 (0) 89 319 01 290
Fax: +49 (0) 89 319 01 299
E-mail: info@g-f-m.net
www.g-f-m.net

Instruction Manual

Contents :	Page :
Safety Guidelines	2
General assembly procedure	3 - 4
GF-6 Version 1 (Platform)	5
GF-6 Version 2 (Platform)	6
GF-6 Version 3 (Platform)	7
GF-6 Version 4 (Remote)	8
GF-6 Version 5 (Remote)	9
GF-6 Version 6 (Remote)	10
GF-6 Version 6a (Remote)	11
GF-6 Version 7 (Remote)	12
GF-6 Version 7a (Remote)	13
GF-6 Version 8 (Remote)	14
Rigging system	15
Balancing of crane	16
General safety.....	16
Accessories for GF-6 crane	17
Transport Trolley for GF-6 crane	18
Base Dolly	19
Accessories weight list.....	19

The GF-6 Crane Assembly Instructions

SAFETY GUIDELINES :

The assembly instructions must be read and understood before set-up or operation.

The GF-6 Crane may only be assembled or operated by trained and experienced personnel.

The crane may only be assembled in accordance with the manufacturer's instruction manual.

The crane may not be assembled or operated under the influence of alcohol, drugs or any other intoxicating substances.

The manufacturer accepts no liability for damages or injuries for incidents or accidents occurring due to negligence by the crane operator or misuse of the crane.

Use of the crane on insert vehicles, camera cars or any motorised vehicle is not allowed. The manufacturer accepts no liability for damages or injuries for incidents or accidents occurring due to use of the crane on insert vehicles, camera cars or any other motorised vehicles.

Only original accessories manufactured by GFM may be used with the crane.

Before assembling the crane ensure that the ground surface is stable and cannot give way. When operating the crane on track, ensure that the track is level, properly laid and constructed. The correct underlay must be used to ensure that the track and underlay are secured against moving, slipping and collapse. Ensure that the underlay meets the specified support and stability requirements.

The crane dolly must be level at all times. If necessary, level the crane with the provided levelling legs. Whether operating on track or on a solid ground surface it is essential that the track or surface is completely level, stable and free from obstructions.

The ground surface must be stable enough to support at least 1000 kg/m² = 2200 lbs/ sq yard.

Changing weather conditions should be taken into consideration. The crane must be taken out of operation before the operational wind speed reaches 45kmh. / 28mph.

The complete lift and panning range of the GF-6 Crane must be kept clear of obstructions at all times. Never operate the crane closer than 20m / 70 feet proximity to high voltage power cables.

Personnel on board the crane's platform must use safety belts at all times. They should not make any sudden, abrupt movements or lean over the side of the platform. No loose objects may be stored or placed on the crane platform.

Before the counterweights are removed from the bucket, ensure that the platform is resting on the ground or alternatively supported by an appropriate stable underlay. Gradually remove the counterweights before personnel leave the platform or as the case may be, the remote head or camera are removed.

The manufacturer's technical specifications and limits must be adhered to at all times and in no way exceeded.

GF-6 Crane operation is only allowed with solid tires. Crane operation is not allowed with pneumatic wheels.

A safety distance clearance of 0.50m / 1' 7" must be observed on all sides of the crane during operation.

In the interest of safe crane operation abrupt, sudden movement of the crane should be avoided.

Assembly Procedure – GF-6

Before and during assembly observe the Safety Guidelines.

For all versions:

1. Secure the base dolly so that it cannot move or roll. Lock all wheel brakes. Move the steering rod towards the centre of the dolly or remove it so that the set-up personnel do not trip over it.



Wheel brake

Locked wheel brake on Base Dolly



Base Dolly with mounting column and middle section

2. Bolt the crane mounting column to the base dolly. Make sure that the 4 locking bolts are locked securely. (Tip: the carrying handle on the bazooka should point away from the steering end of dolly).
3. Located on the middle section are 2 tilt friction locks which may be used to lock the tilt during set-up. Set the pivot arm at 90° to the centre post and lock these friction locks which can be found on the left and right hand side of the middle section.



Tilt brake

Pan brake

Middle section with pan and tilt lock

4. Mount the middle section on the mounting column. Lock the locking screw tightly.
Tip: A 12mm Allen key can be found in the mounting column's handle to be used as a lever.



Mounting an extension arm



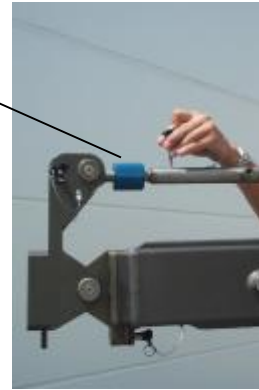
Securing the arm with a safety pin

5. Connect one of the 75cm / 2'6" sections to the middle section. Slip the connection flanges into each other and secure with the provided safety pin.
 Tip: To avoid the sections jamming or getting stuck make sure that the sections are joined parallel. Using a small amount of lubricant also helps. We suggest rubbing the joints with an oiled rag.
6. Connect one of the angle adjusters to the end of the 75cm / 2'6" section and secure it with the provided safety pin.



Mounting the angle adjuster

Integrated
leveller



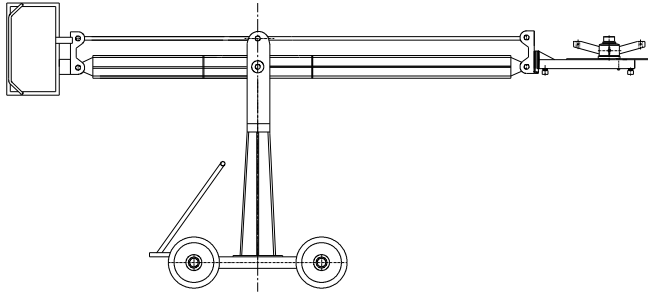
Securing the rod with safety pin

7. Connect one of the 75cm / 2'6" parallelogram rods to the middle section and the angle adjuster and secure it with a safety pin at each end.
 Tip: The angle adjuster has an integrated leveller. By turning it, the vertical plate on the angle adjuster can be set to a perfect right angle. Correct setting of the angle adjuster enhances the crane's balance.

The assembly procedure up to this point is the same in versions 1, 2, 4, 5, 6, 7. For other versions the 75cm / 2'6" extension and parallelogram are replaced by the 90cm / 3' extension and parallelogram.

To assist the set-up procedure and to reduce the risk of accidents it is recommended to use set-up support stands or rostrums.

Version 1



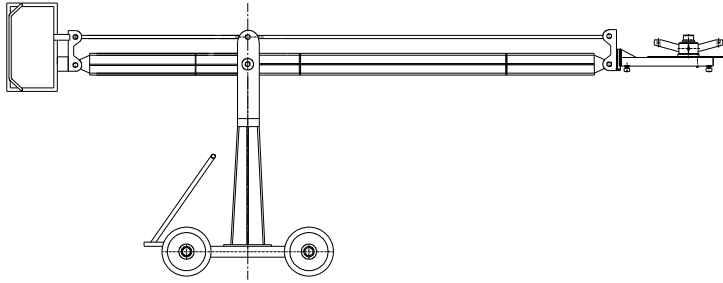
Front extension arms required	1 x 150cm / 5'
Rear extension arm required	1 x 75cm / 2' 6"
Maximum Euro-adapter height	320cm / 10' 8"
Max. lift capacity = max 2 pers. + accessories	250kg / 550 lbs
Counterweight required	27pcs = 432kg / 950lbs
Lift range	332cm / 11'
Crane weight (excluding dolly and weights)	139kg / 305lbs
Arm reach (pivot to camera head mount)	256 cm / 8' 6"
Length of rear end (pivot to outside of weight bucket)	172cm / 5' 9"
Dolly weight	59kg / 129lbs

Continue from point 7 on page 4 as follows:

8. Connect one of the 150cm / 5' sections to the middle section. Slip the connection flanges into each other and secure them with the provided safety pin.
9. Connect the remaining angle adjuster to the end of the 150cm / 5' section and secure it with the provided safety pin.
10. Connect one of the 150cm / 5' parallelogram rods to the middle section and the angle adjuster and secure it with a safety pin at each end.
Tip: The angle adjuster has an integrated leveller. By turning it, the vertical plate on the angle adjuster can be set to a perfect right angle.
11. Connect the platform to the angle adjuster by inserting the male platform flange into the female flange on the angle adjuster. Secure it with the safety pin.
12. Attach the weight bucket to the opposite end of the crane by inserting the male weight bucket flange into the female flange on the angle adjuster. Secure it with the safety pins at the bottom of the flange and also on the top of the angle adjuster.

Before operation, all locking pins, locking screws etc should be inspected to ensure that all assembly sections are securely fastened.

Version 2



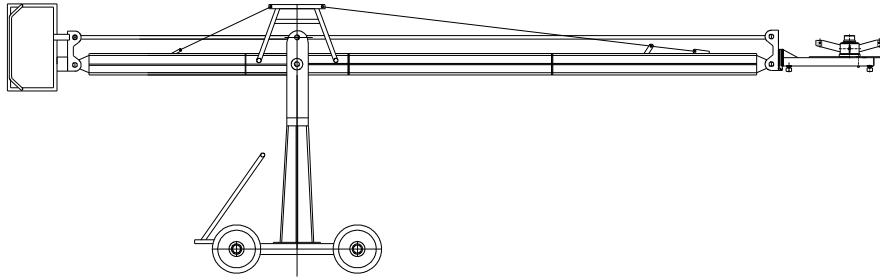
Front extension arms required	1 x 150cm / 5' + 1 x 75cm / 2' 6"
Rear extension arm required	1 x 75cm / 2' 6"
Maximum Euro-adapter height	390cm / 13'
Max. lift capacity = max. 1 pers. + accessories	140kg / 308lbs
Counterweight required	23pcs = 368kg / 809lbs
Lift range	472cm / 15' 8"
Crane weight (excluding dolly and weights)	149kg / 327lbs
Arm reach (pivot to camera head mount)	331cm / 11'
Length of rear end (pivot to outside of weight bucket)	172cm / 5' 9"
Dolly weight	59kg / 129lbs

Continue from point 7 on page 4 as follows:

8. Connect one of the 150cm / 5' arm sections to the middle section. Slip the connection flanges into each other and secure them with the provided safety pin.
9. Connect the 75cm / 2'6" arm section to the end of the 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
10. Connect the remaining angle adjuster to the end of the short section and secure it with the provided safety pin.
11. Connect one of the 150cm / 5' parallelogram rods to the middle section and a 75cm / 2'6" parallelogram to the angle adjuster and secure them with safety pins at each connection.
12. Connect the platform to the angle adjuster by inserting the male platform flange into the female flange on the angle adjuster. Secure it with the safety pin.

Before operation, all locking pins, locking screws etc should be inspected to ensure that all assembly sections are securely fastened.

Version 3



Front extension arms required	2 x 150cm / 5'
Rear extension arm required	1 x 90cm / 3'
Maximum Euro-adapter height	445cm / 14' 8"
Max. lift capacity = max. 1 pers. + accessories	140kg / 308lbs
Counterweight required	27pcs = 432kg / 950lbs
Lift range	582cm / 19'5"
Crane weight (excluding dolly and weights)	176kg / 387lbs
Arm reach (pivot to camera head mount)	406cm / 13' 6"
Length of rear end (pivot to outside of weight bucket)	187cm / 6' 3"
Dolly weight	59kg / 129lbs

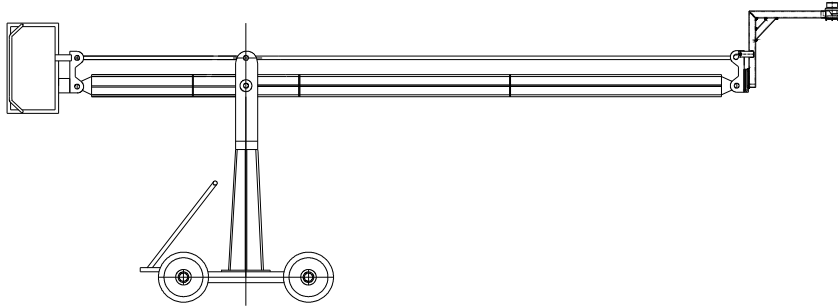
Continue from point 7 on page 4 as follows (in this case the 90cm / 3' section is attached to the bucket end):

8. Connect one of the 150cm / 5' arm sections to the middle section. Slip the connection flanges into each other and secure them with the provided safety pin.
9. Connect another 150cm / 5' arm section to the end of the 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
10. Connect the remaining angle adjuster to the end of the 150cm / 5' arm section and secure it with the provided safety pin.
11. Connect two of the 150cm / 5' parallelogram rods to the middle section and to the angle adjuster and secure them with safety pins at each connection.
12. Connect the platform to the angle adjuster by inserting the male platform flange into the female flange on the angle adjuster. Secure it with the safety pin.

Note: The rigging system must be mounted. See page 15.

Before operation, all locking pins, locking screws etc should be inspected to ensure that all assembly sections are securely fastened.

Version 4



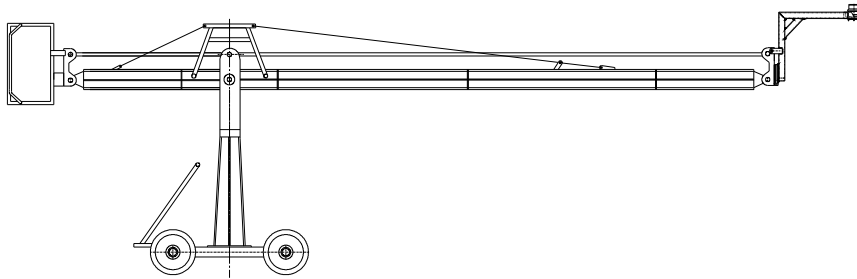
Front extension arms required	2 x 150cm / 5'
Rear extension arm required	1 x 75cm / 2' 6"
Maximum Euro-adapter height	475cm / 15' 10"
Maximum lift capacity	85kg / 187lbs
Counterweight required	20pcs = 320kg / 704lbs
Lift range	642cm / 21'3"
Crane weight (excluding dolly and weights)	140kg / 308lbs
Arm reach (pivot to camera head mount)	418cm / 13' 10"
Length of rear end (pivot to outside of weight bucket)	172cm / 5' 9"
Dolly weight	59kg / 129lbs

Continue from point 7 on page 4 as follows:

8. Connect one of the 150cm / 5' arm sections to the middle section. Slip the connection flanges into each other and secure them with the provided safety pin.
9. Connect another 150cm / 5' arm section to the end of the first 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
10. Connect the remaining angle adjuster to the end of the long arm section and secure it with the provided safety pin.
11. Connect two of the 150cm / 5' parallelogram rods to the middle section and to the angle adjuster and secure them with safety pins at each connection.
12. Connect the remote bracket to the angle adjuster by inserting the male remote bracket flange into the female flange on the angle adjuster. Secure it with the safety pin.

Before operation, all locking pins, locking screws etc should be inspected to ensure that all assembly sections are securely fastened.

Version 5



Front extension arms required	2 x 150cm / 5' + 1 x 75cm / 2' 6"
Rear extension arm required	1 x 75cm / 2' 6"
Maximum Euro-adapter height	540cm / 18'
Maximum lift capacity	85kg / 187 lbs
Counterweight required	23pcs = 368kg / 809lbs
Lift range	772cm / 25' 8"
Crane weight (excluding dolly and weights)	165kg / 363lbs
Arm reach (pivot to camera head mount)	493 cm / 16' 5"
Length of rear end (pivot to outside of weight bucket)	172cm / 5' 9"
Dolly weight	59kg / 129lbs

Continue from point 7 on page 4 as follows:

8. Connect one of the 150cm / 5' arm sections to the middle section. Slip the connection flanges into each other and secure them with the provided safety pin.
9. Connect another 150cm / 5' arm section to the end of the first 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
10. Connect the 75cm / 2'6" arm section to the end of the second 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
11. Connect the remaining angle adjuster to the end of the 75cm / 2'6" arm section and secure it with the provided safety pin.
12. Connect two of the 150cm / 5' parallelogram rods and 1 of the 75cm / 2'6" parallelogram rods to the middle section and to the angle adjuster and secure them with safety pins at each connection.
13. Connect the remote bracket to the angle adjuster by inserting the male platform flange into the female flange on the angle adjuster. Secure it with the safety pin.

Note: The rigging system must be mounted. In addition, connect the 2 parallelogram supports to the first parallelogram and first 150cm section. See page 15.

Before operation, all locking pins, locking screws etc should be inspected to ensure that all assembly sections are securely fastened.

Version 6



Front extension arms required	3 x 150cm / 5'
Rear extension arm required	1 x 75cm / 2' 6"
Maximum Euro-adapter height	590cm / 19' 8"
Maximum lift capacity	60 kg / 132lbs
Counterweight required	23pcs = 368kg / 809lbs
Lift range	872cm / 29'
Crane weight (excluding dolly and weights)	173kg / 380lbs
Arm reach (pivot to camera head mount)	568cm / 18'10"
Length of rear end (pivot to outside of weight bucket)	172cm / 5' 9"
Dolly weight	59kg / 129lbs

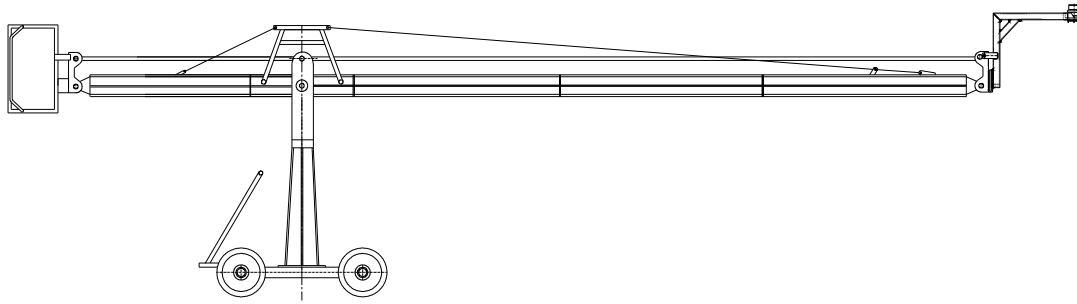
Continue from point 7 on page 4 as follows;

8. Connect one of the 150cm / 5' arm sections to the middle section. Slip the connection flanges into each other and secure them with the provided safety pin.
9. Connect another 150cm / 5' arm section to the end of the first 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
10. Connect the third 150cm / 5' arm section to the end of the second 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
11. Connect the remaining angle adjuster to the end of the third long arm section and secure it with the provided safety pin.
12. Connect 3 of the 150cm / 5' parallelogram rods to the middle section and to the angle adjuster and secure them with safety pins at each connection.
13. Connect the remote bracket to the angle adjuster by inserting the male platform flange into the female flange on the angle adjuster. Secure it with the safety pin.

Note: The rigging system must be mounted. In addition, connect the 2 parallelogram supports to the second parallelogram and second 150cm section.
See page 15.

Before operation, all locking pins, locking screws etc should be inspected to ensure that all assembly sections are securely fastened.

Version 6a



Front extension arms required	3 x 150cm / 5'
Rear extension arm required	1 x 90cm / 3'
Maximum Euro-adapter height	590cm / 19' 8"
Maximum lift capacity	85kg / 187lbs
Counterweight required	27pcs = 432kg / 950lbs
Lift range	872cm / 29'
Crane weight (excluding dolly and weights)	175kg / 385lbs
Arm reach (pivot to camera head mount)	568cm / 18' 10"
Length of rear end (pivot to outside of weight bucket)	187cm / 6' 3"
Dolly weight	59kg / 129lbs

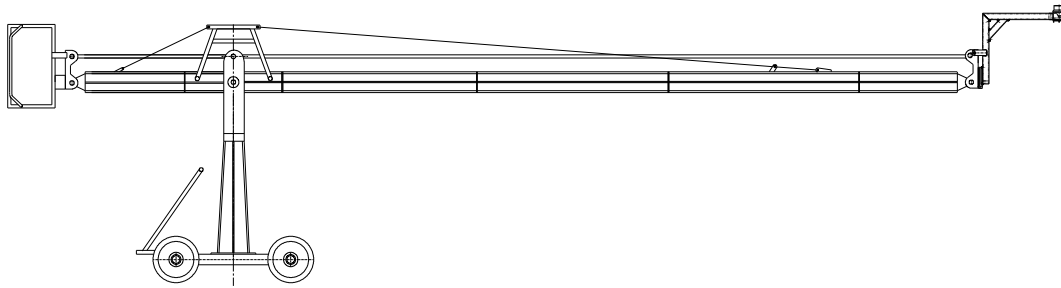
Continue from point 7 on page 4 as follows (in this case the 90cm / 3' section is attached to the bucket end):

8. Connect one of the 150cm / 5' arm sections to the middle section. Slip the connection flanges into each other and secure them with the provided safety pin.
9. Connect another 150cm / 5' arm section to the end of the first 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
10. Connect the third 150cm / 5' arm section to the end of the second 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
11. Connect the remaining angle adjuster to the end of the third long arm section and secure it with the provided safety pin.
12. Connect 3 of the 150cm / 5' parallelogram rods to the middle section and to the angle adjuster and secure them with safety pins at each connection.
13. Connect the remote bracket to the angle adjuster by inserting the male platform flange into the female flange on the angle adjuster. Secure it with the safety pin.

Note: The rigging system must be mounted. In addition, connect the 2 parallelogram supports to the second parallelogram and second 150cm section.
See page 15.

Before operation, all locking pins, locking screws etc should be inspected to ensure that all assembly sections are securely fastened.

Version 7



Front extension arms required	3 x 150cm / 5' + 1 x 75cm / 2' 6"
Rear extension arm required	1 x 75cm / 2' 6"
Maximum Euro-adapter height	650cm / 21' 8"
Maximum lift capacity	40kg / 88lbs
Counterweight required	23pcs = 368kg / 809lbs
Lift range	992cm / 33'
Crane weight (excluding dolly and weights)	185kg / 407lbs
Arm reach (pivot to camera head mount)	643cm / 21' 5"
Length of rear end (pivot to outside of weight bucket)	172cm / 5' 9"
Dolly weight	59kg / 129lbs

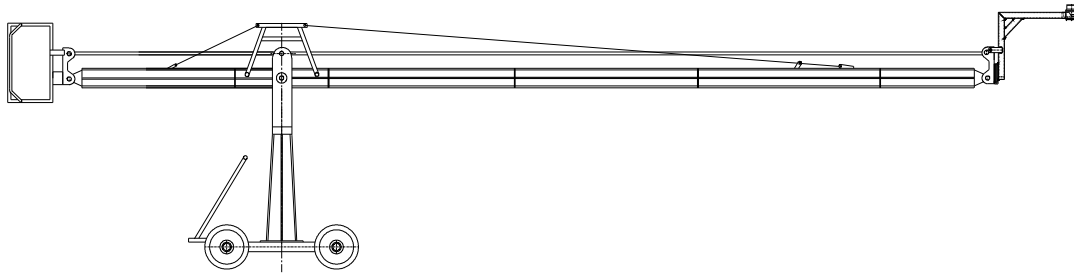
Continue from point 7 on page 4 as follows;

8. Connect one of the 150cm / 5' arm sections to the middle section. Slip the connection flanges into each other and secure them with the provided safety pin.
9. Connect another 150cm / 5' arm section to the end of the first 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
10. Connect the third 150cm / 5' arm section to the end of the second 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
11. Connect the 75cm / 2'6" arm section to the end of the third 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
12. Connect the remaining angle adjuster to the end of the short arm section and secure it with the provided safety pin.
13. Connect 3 of the 150cm / 5' and 1 of the 75cm / 2'6" parallelogram rods to the middle section and to the angle adjuster and secure them with safety pins at each connection.
14. Connect the remote bracket to the angle adjuster by inserting the male platform flange into the female flange on the angle adjuster. Secure it with the safety pin.

Note: The rigging system must be mounted. In addition, connect the 2 parallelogram supports to the second parallelogram and second 150cm section.
See page 15.

Before operation, all locking pins, locking screws etc should be inspected to ensure that all assembly sections are securely fastened.

Version 7a



Front extension arms required	3 x 150cm / 5' + 1 x 75cm / 2' 6"
Rear extension arm required	1 x 90cm / 3'
Maximum Euro-adapter height	650cm / 21' 8"
Maximum lift capacity	60kg / 132lbs
Counterweight required	26pcs = 416kg / 915lbs
Lift range	992cm / 33'
Crane weight (excluding dolly and weights)	187kg / 411lbs
Arm reach (pivot to camera head mount)	643cm / 21' 5"
Length of rear end (pivot to outside of weight bucket)	187cm / 6' 3"
Dolly weight	59kg / 129lbs

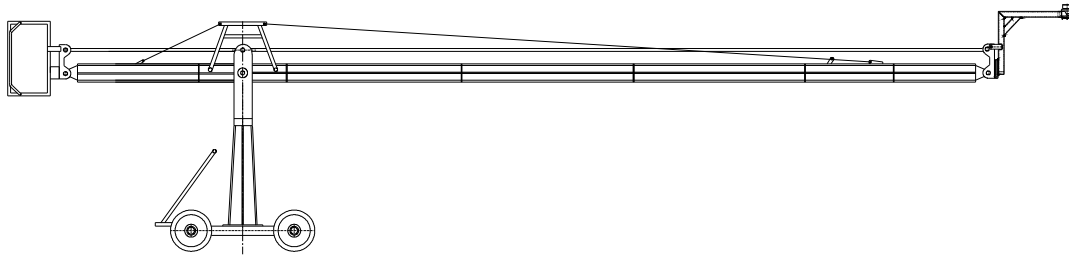
Continue from point 7 on page 4 as follows (in this case the 90cm / 3' section is attached to the bucket end):

8. Connect one of the 150cm / 5' arm sections to the middle section. Slip the connection flanges into each other and secure them with the provided safety pin.
9. Connect another 150cm / 5' arm section to the end of the first 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
10. Connect the third 150cm / 5' arm section to the end of the second 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
11. Connect the 75cm / 2'6" arm section to the end of the 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
12. Connect the remaining angle adjuster to the end of the short arm section and secure it with the provided safety pin.
13. Connect 3 of the 150cm / 5' and 1 of the 75cm / 2'6" parallelogram rods to the middle section and to the angle adjuster and secure them with safety pins at each connection.
14. Connect the remote bracket to the angle adjuster by inserting the male platform flange into the female flange on the angle adjuster. Secure it with the safety pin.

Note: The rigging system must be mounted. In addition, connect the 2 parallelogram supports to the second parallelogram and second 150cm section.
See page 15.

Before operation, all locking pins, locking screws etc should be inspected to ensure that all assembly sections are securely fastened.

Version 8



Front extension arms required	3 x 150cm / 5' + 2 x 75cm / 2' 6"
Rear extension arm required	1 x 90cm / 3'
Maximum Euro-adapter height	720cm / 24'
Maximum lift capacity	40kg / 88lbs
Counterweight required	26pcs = 416kg / 915lbs
Lift range	1132cm / 37'8"
Crane weight (excluding dolly and weights)	197kg / 433lbs
Arm reach (pivot to camera head mount)	718cm / 23' 11"
Length of rear end (pivot to outside of weight bucket)	187cm / 6' 3"
Dolly weight	59kg / 129lbs

Continue from point 7 on page 4 as follows (in this case the 90cm / 3' section is attached to the bucket end):

8. Connect one of the 150cm / 5' arm sections to the middle section. Slip the connection flanges into each other and secure them with the provided safety pin.
9. Connect another 150cm / 5' arm section to the end of the first 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
10. Connect the third 150cm / 5' arm section to the end of the second 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
11. Connect the 2 x 75cm / 2'6" arm sections to the end of the third 150cm / 5' arm section. Slip the connection flanges into each other and secure them with the provided safety pin.
12. Connect the remaining angle adjuster to the end of the short arm section and secure it with the provided safety pin.
13. Connect 3 of the 150cm / 5' and 2 of the 75cm / 2'6" parallelogram rods to the middle section and to the angle adjuster and secure them with safety pins at each connection.
14. Connect the remote bracket to the angle adjuster by inserting the male platform flange into the female flange on the angle adjuster. Secure it with the safety pin.

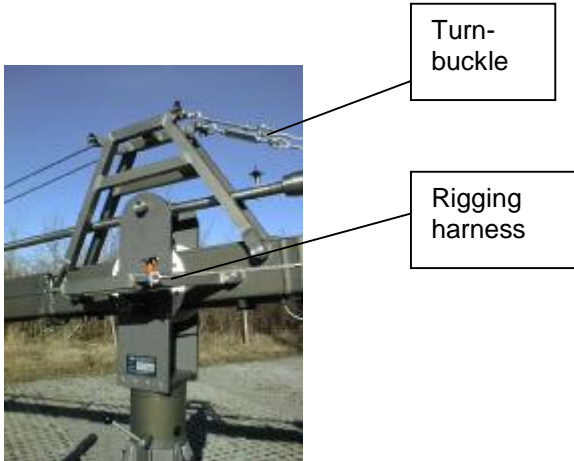
Note: The rigging system must be mounted. In addition, connect the 2 parallelogram supports to the first parallelogram and first 150cm section and it turn connect the second set of 2 parallelogram supports to the third parallelogram and third 150cm section. See page 15.

Before operation, all locking pins, locking screws etc should be inspected to ensure that all assembly sections are securely fastened.

Rigging system:

To enhance the rigidity of the GF-6's arm a rigging system is offered. The rigging system must be used for versions 3 and 5 through to 8. There are 4 different rod lengths ie. Very short, short, middle and long.

1. Upon completion of step 7, connect the 4 sections of the rigging harness to the middle section of the GF-6. Ensure that the 8 locking bolts are fastened tightly.



Rigging harness on middle section



Rigging rod connected to crane arm

2. Connect 4 very short rods to the turnbuckles on the rigging harness and in turn to the 4 connections on the short arm leading to the weight bucket. Hand tighten the rods by turning the turnbuckles until the 4 rods are taut.

The front rigging set-up depends on the version of the GF6 which will be assembled. In this example we will take version 7.

3. Connect the 4 long rods to the turnbuckles located on the rigging harness.
5. Connect the middle sized rods to the respective ends of the long rods and in turn to the connection on the end of the third long arm. Hand tighten the rods by turning the turn buckles until they are taut.



Parallelogram support assembly

Parallelogram support rods should be mounted to avoid the parallelogram rods from dipping.

Balancing of the crane arm

Attention : When loading the crane the maximum working load capacities / payloads must never be exceeded.

After the assembly procedure has been completed the seat arms, seats, risers, camera etc may now be assembled on the platform or the remote head system may be mounted. An itemized weight list for GFM accessories may be found on page 19. Place the correct amount of counterweight in the weight bucket to balance the load. Depending on the version that has been set-up, the camera operator / operators can then take their position on the platform.

Attention : The safety belts provided must be fastened upon sitting down and kept fastened at all times when on the platform.
Only original GFM seats, seat arms, risers etc may be used.

Working load capacity = Camera operator / operators + accessories

Place the required amount of counterweights in the weight bucket so that the crane arm becomes balanced and remains in the horizontal position. If necessary, the crane can be fine balanced by adjusting the sliding weight on the rear parallelogram at the weight bucket. Do not forget to lock the sliding weight in position before tilting the arm.

The counterweight bucket door must be locked when operating the crane.

Deloading:

Attention : The counterweights must always be gradually removed from the counterweight bucket before personnel leave the platform. When the weights are removed, the platform personnel should dismount one at a time. Extreme caution must be given to the shifting payload at all times. When dismantling the crane it is essential that the whole platform is supported fully by a stable underlay i.e. rostrum or ground surface. In any case the platform should not be in the air without support.

Attention : all necessary precautions should be taken so that unauthorized third parties cannot use the crane.

General Safety:

Operational conditions :

At a wind speed of 45km/h 30mph crane operation must be stopped and the crane secured, dismounted and the necessary safety precautions taken.

If, for example, it takes 2 mins. to unload the counterweights and take the necessary precautions to secure the crane, one must commence with the procedure at a wind speed of 35km/h / 25mph. DIN15019, part 1, section 6.13.

The crane may not be used in a lightning storm as there is the danger of electrocution.

Accessories for GF- 6 crane



Levelling leg



Monitor carrier



Push bar



Track wheel with brake

Notice:

When operating the crane with the push bar mounted on the dolly, pay attention that the crane arm at no time collides with the push bar.

The levelling legs must be removed from the base dolly before driving onto a track mounting ramp. Always use the levelling legs to level the crane when on uneven surfaces.

Transport trolley for the GF-6 Crane



The above photos show the practical transport solution for the GF-6 Crane System. The GFM trolley fits the complete version 8 with dolly and column as an extra unit.

The GF-6 Base Dolly

The crane platform may be mounted on the base dolly to provide a track or western dolly style function.



Insert the 3 bolts into the underside of the base, through the platform and into the turnstile mount. Lock the 3 bolts tightly

Accessories for GF-6 Crane platform weight list

Qty.	Description		Weight kg	Weight lbs
1	Seat arm combined 10cm / 4"	AL-2210	0,75 kg	1,65 lbs
1	Seat arm combined 20cm / 8"	AL-2220	1,15 kg	2,53 lbs
1	Seat arm combined 30cm / 12"	AL-2230	1,60 kg	3,52 lbs
1	Seat arm vertical 10cm / 4"	AL-2211	1,25 kg	2,75 lbs
1	Seat arm vertical 20cm / 8"	AL-2212	1,75 kg	3,85 lbs
1	Seat arm vertical 30cm / 12"	AL-2213	2,20 kg	4,84 lbs
1	Crane seat with seat belt	AL-1030	7,20 kg	15,84 lbs
1	Riser 10 cm / 4"	AL-2310	2,80 kg	6,16 lbs
1	Riser 20cm / 8"	AL-2320	2,95 kg	6,49 lbs
1	Riser 30cm / 12"	AL-2330	3,40 kg	7,48 lbs
1	Riser 40cm / 16"	AL-2340	3,80 kg	8,36 lbs
1	Riser 50cm / 20"	AL-2350	4,25 kg	9,35 lbs
1	Connection pin	AL-2240	0,40 kg	0,88 lbs
1	Ball Adapter	AL-2150	2,17 kg	4,77 lbs