# Autopole System

The ultimate adjustable lighting pole system can be used to create a background support, structure a lighting grid, or for hundreds of other studio and outdoor applications. Its unique single action cantilever locking system exerts the correct amount of pressure to assure a secure fit, wedging the protective rubber ends in place, ceiling to floor.

The cantilever system incorporates a safety lock to prevent accidental de-tensioning or movement.

Unique cantilever single action locking system exerts pressure to securely wedge the rubber suction cup ends in place. Cantilever system incorporates safety lock.

Floor to ceiling, or wall to wall fixing for strong vertical or horizontal support of lighting.

**Loading limits**

The following figures are valid for use with rigid floors and ceilings, and with the protection-cups mounted on the suction-cups.
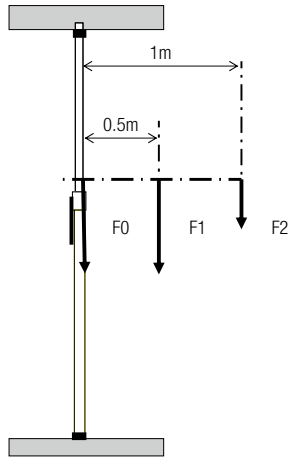
| MODELS | Load (kg) | | |
|---|---|---|---|
| | F0 | F1 | F2 |
| 032 | 30 | 30 | 15 |
| 076 | 30 | 30 | 15 |
| 077 | 30 | 30 | 15 |
| 432-2.7 | 24 | 24 | 12 |
| 432-3.7 | 24 | 24 | 12 |

F0: maximum axial load - F1: maximum load with 0.5m arm - F2: maximum load with 1m arm
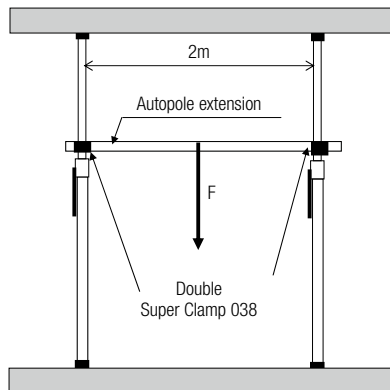
| MODELS | Load (kg) |
|---|---|
| | F |
| 032 | 20 |
| 076 | 20 |
| 077 | 20 |
| 432-2.7 | 20 |
| 432-3.7 | 20 |

## AUTOPOLE **077** Ⓑ

Extends from 100cm to 170cm. Pole Ø: 45mm and 40mm.

1.5kg

## AUTOPOLE **076** Ⓑ

Extends from 150cm to 270cm. Pole Ø: 45mm and 40mm.

1.83kg

## AUTOPOLE **032** Ⓑ

Extends from 210cm to 370cm. Pole Ø: 45mm and 40mm.

2.2kg

**077**     **076**     **032**

## AUTOPOLE 2 **432-2.7** Ⓑ

Two position variable thrust. Extends from 150cm to 270cm.
Pole Ø: 45mm and 40mm. PATENTED

🛈
2.23kg

## AUTOPOLE 2 **432-3.7** Ⓑ

Two position variable thrust. Extends from 210cm to 370cm.
Pole Ø: 45mm and 40mm. PATENTED

🛈
2.6kg

## MINI AUTOPOLE **332-3.7B**

Extends from 210cm to 370cm.
Pole Ø: 35mm and 32mm.

🛈
1.38kg

**432-2.7**        **432-3.7**        **332-3.7**

## AUTOPOLE BASE **032BASE** Ⓑ

For tubes: Ø 45mm. Legs Ø: 22mm.



86cm



126cm



1.2kg



## AUTOPOLE SPIRIT LEVEL **032SPL**

Spirit level for use on Autopole®, or on tubes of 25mm to 60mm diameter.



## AUTOPOLE PROTECTION CAPS **032PC**

Set of four protection caps for rubber feet with inner hole. Ø: 16.5mm.
Suitable for use with all Autopoles except Midi Autopole® 332 and Mini Pole 170.

## EXTENSION TUBE **034** Ⓑ

Autopole® Extension tube. Ø: 40mm. Length: 1,5m.
Suitable for Autopole2® and Autopole®.

0.53kg

## EXTENSION TUBE **033** Ⓑ

Autopole® Extension tube. Ø: 40mm. Length: 2m.
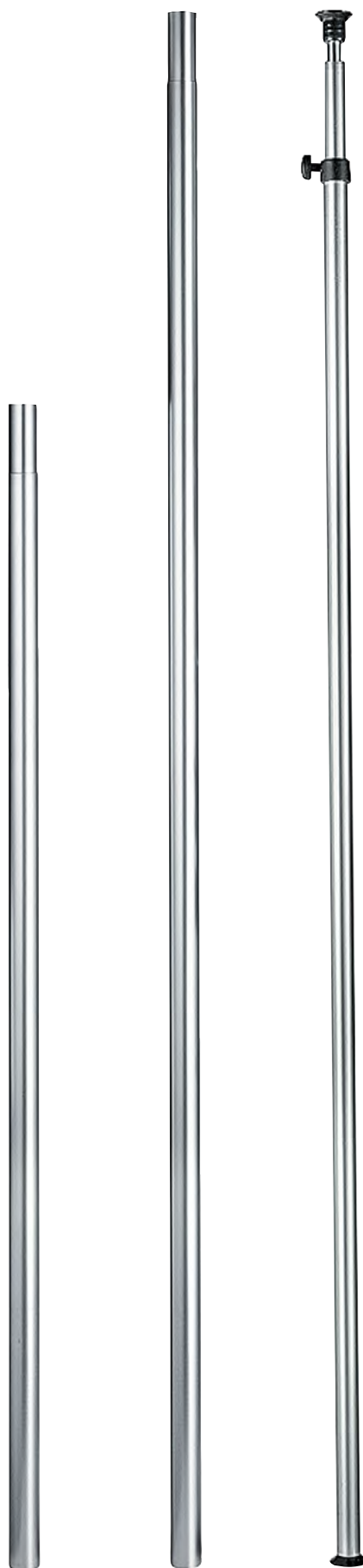Suitable for Autopole2® and Autopole®.

0.69kg

## MINI POLE **170** Ⓑ

Spring loaded mini pole. Extends from 175cm to 330cm.
Post Ø: 25mm and 28mm.

0.87kg

**034**    **033**    **170**

# Clamps

Manfrotto offers several families of clamps to position lights and accessories practically anywhere. The original and world famous Super Clamp stands out for its versatility and numerous accessories. The entire range of clamps (spring clamps, pipe clamps, nano clamps, small size clamps) ensures a solution to any problem, regardless the size of the object and the surface you are clamping to.
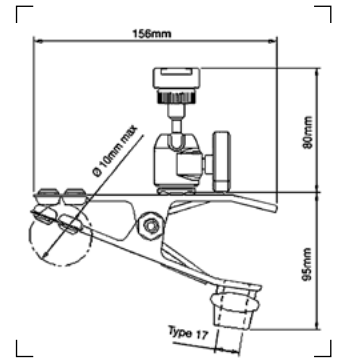


SPRING

Wide choice of spring clamps and grips covers a huge range of applications. Constructed of aluminium or sheet steel, the clamps have thousands of uses, from supporting lights to clamping backgrounds to crossbars.
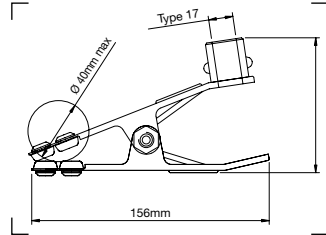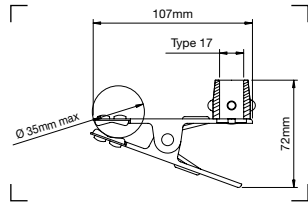


## SPRING CLAMP **175**

Clamps onto bars up to Ø 40mm.

0.32kg | Type 1 | Type 1

## SPRING CLAMP WITH FLASH SHOE **175F-1**

Clamps onto bars up to Ø 40mm. Supplied with a position able miniature ball head with a flash shoe attachment to allow it to clip and position a flash unit wherever it is needed.
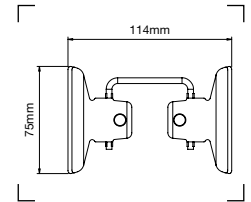
0.33kg | Type 1 | Type 17 | 2kg

## MINI SPRING CLAMP **275**

Clamps onto bars up to Ø 35mm. It can be mounted also on 16mm extension arms.
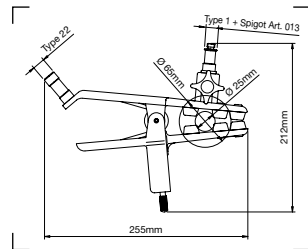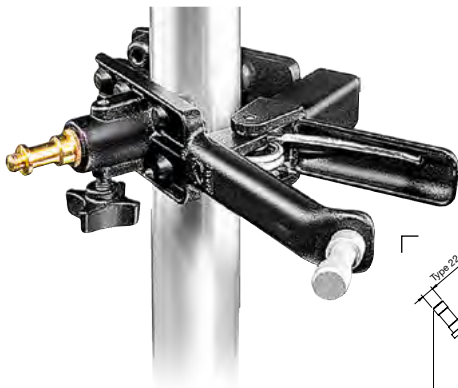
0.11kg | Type 1 | Type 17

## MULTICLIP **375**

This versatile double clip can be used to hold gels in front of lights or small reflecting panels.
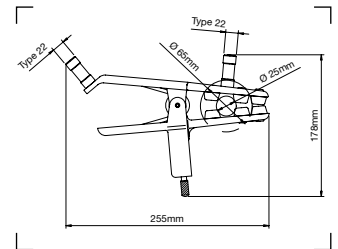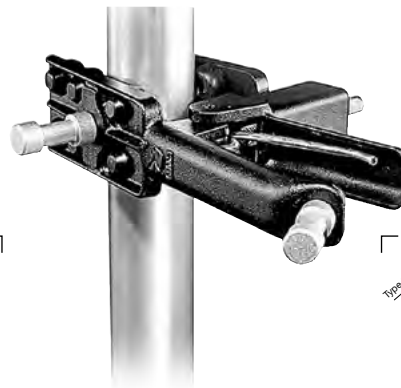
0.08kg

## SKY HOOK **043**

Gaffer grip with adjustable jaws. Grip from: 25mm to 65mm.

0.65kg | Type 22 | Type 17 + Spigot Art. 013

## SKY HOOK **C1525**

Gaffer grip with adjustable jaws. Grip from: 25mm to 65mm.

0.8kg | Type 22

Manfrotto Pipe Clamps are made from aluminium alloy or rugged gravity cast aluminium for extra strength.

Clamping range encompasses pipes from 28mm to 78mm diameter. All standard luminaire attachments available, from 16/28mm bushing to 16mm pins and 1/4" - 3/8" - M10 and M12 male thread.
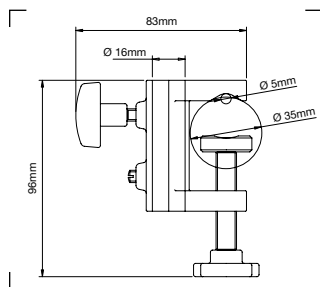
### MINI CLAMP **171**

Clamps on bars up to Ø 35mm.

0.16kg    16mm
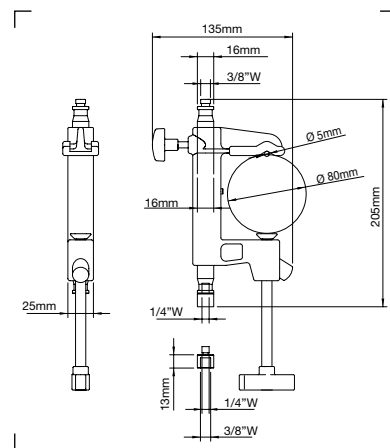
### QUICK RELEASE CLAMP **649**

Different from the other versions that are used mainly on round pipes, this version will also work on square and rectangular tubes. Extremely light, with a good "coupling range", this version also offers an incredible number of attachment sizes. Ideal for photographic applications and dedicated accessories. Pipe size 5-80mm. PATENTED

0.57kg    16mm    7kg
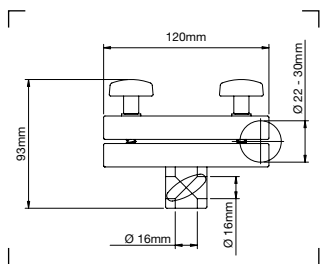
### PANEL CLAMP **271**

Clamps onto round and square tubes from Ø 22mm to 30mm.
Ideal for supporting reflector panels or hanging objects from pipes.

0.29kg    16mm
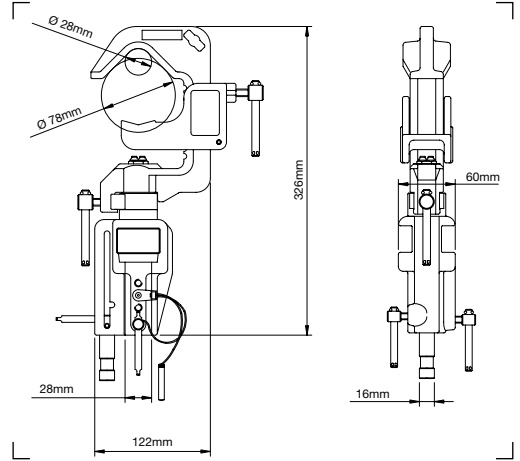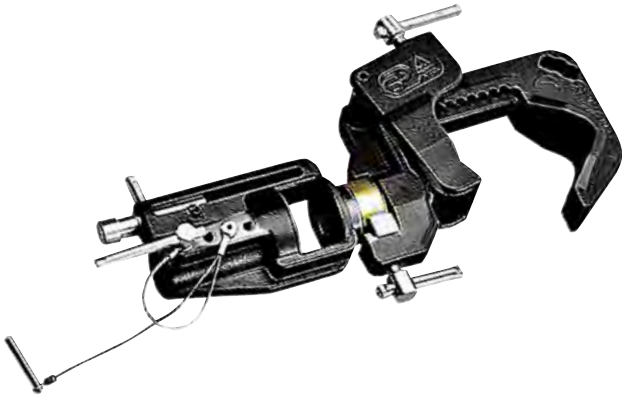
## SWIVELLING "C" CLAMP **C150**

Works on diameters from 28mm to 78mm.
* 10kg on 16mm attachment. 75kg on 28mm attachment.



1.6kg          10/75kg*          28 mm

**TÜV**
PRODUCT SERVICE
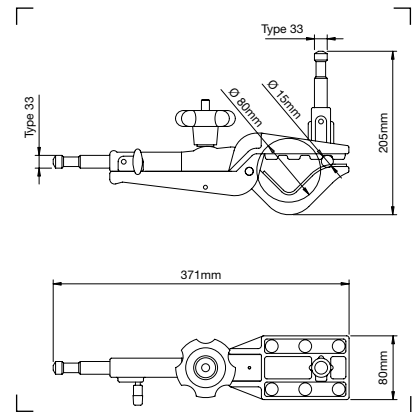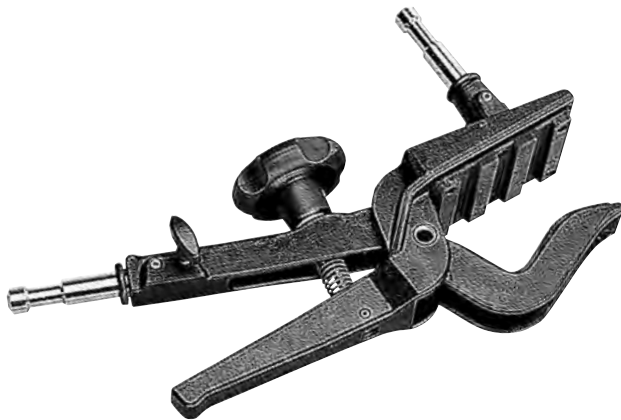




## PELICAN GAFFER GRIP **C500**

Works on diameters from 15mm to 80mm.



1.4kg          10kg          Type 2          Type 33
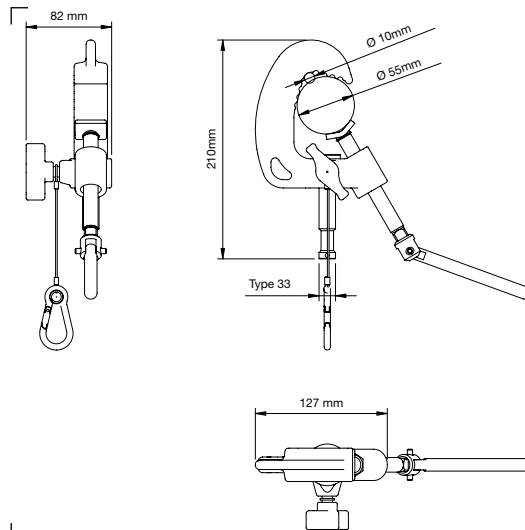
## BABY PIPE CLAMP WITH 16MM STUD **C210**

Works on diameters from 10mm to 55mm.

0.62kg    100kg    Type 33    GC
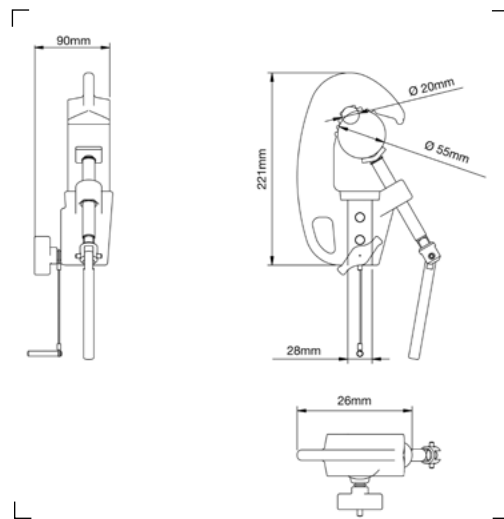
## JUNIOR PIPE CLAMP WITH 28MM SOCKET **C100**

Works on diameters from 20mm to 55mm.

1.13kg    250kg    28mm    GC

Manfrotto Super Clamp is the most versatile single piece of light grip gear. Frictionlined screw-operated jaws grip everything from 13mm to 55mm. Hexagonal socket with unique secondary safety lock system holds items in place even if the screw lock comes undone. Supplied with a wedge to square off the jaws for mounting to flat surfaces. This masterpiece of practicality and solidity is the most widely copied clamp in the world! Manfrotto Nano Clamp and Pico Clamp are the natural extension of the range; small but robust, they represent the ideal solution to grip loads to bars with diameter down to 8mm.



1/4" UNC
44mm
n°2 holes x M5
5/8" Hexagonal
Ø 55mm
Ø 13mm
98mm



## SUPER CLAMP **035**

Ideal clamp for photographic application.
Ergonomic lever to securely lock clamping position.

0.41kg    15kg

TÜV PRODUCT SERVICE

## QUICK ACTION SUPER CLAMP **635**

The rapid action locking jaw has also been applied to the most well known clamp in the world, the original Super Clamp. These modifications allow us to keep its extreme versatility adding unrivaled speed in locking and unlocking. Supplied with wedge to allow the clamp to fit on flat surface.

0.47kg    15kg    16mm hexagonal + M5 & 1/4" threads



## DOUBLE SUPER CLAMP **038**

Set of two Super Clamps fastened together at fixed right angle to provide extra strength support for tubes or bars.

0.83kg



22 mm
64 mm
M8
M10

65 mm
Max Ø 13mm
69 mm

83,7 mm
Max Ø 35 mm
56 mm



## PICO CLAMP **MC1990A**

Manfrotto "Pico Clamp" is an extra-small clamp with versatile use. It offers the possibility to safely attach the equipment to very thin bars, having a diameter from 8 to 15 mm.

0.07kg    2kg    1/4" - 3/8" attachment type

## NANO CLAMP **386B-1**

Its the new Manfrotto small size clamp. Its reduced size is the most important plus: the Nano Clamp is 4kg of payload in 110 grams of weight and the right size for any pocket.

0.25kg    4kg

## SPIGOT ADAPTER **013**

Universal 16mm spigot with double male thread 1/4" and 3/8".

0.07kg

## SHORT 16MM SPIGOT WITH 1/4"+ 3/8" SCREW **118**

Universal short 16mm spigot with double male thread 1/4" and 3/8".

0.04kg

## ADAPTER SPIGOT 1/4"+ 3/8" FEMALE THREADS **119**

Universal short 16mm spigot with double female thread 1/4" and 3/8".

0.032kg

## LIGHTING STUD 3/8" **036-38**

Plugs into Super Clamp 035 for lighting fixtures or connecting 2 Super Clamps 035 allowing them to rotate. 16mm stud with 3/8" male threads.

0.07kg

## LIGHTING STUD 1/4" **036-14**

Same as 036-38 with 1/4" male threads.

0.07kg

## CAMERA STUD **037**

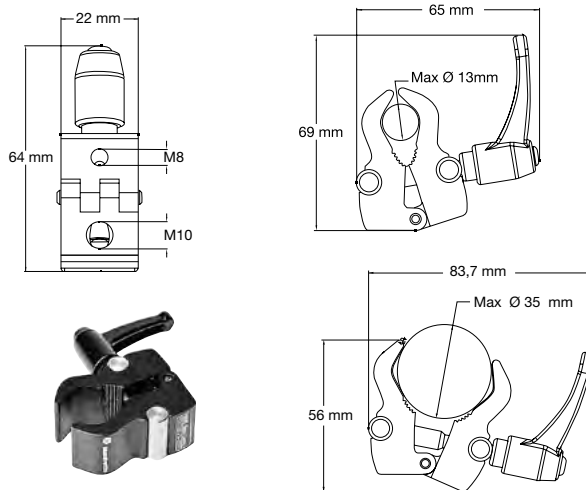Plugs into Super Clamp 035 socket. To mount cameras, directly or with a camera head. 3/8" and 1/4" threads.

0.04kg

## JOINING STUD **061**

Connects 2 Super Clamp 035 with 6 step fixed rotation.

0.025kg

## JOINING STUD RA **061RA**

Connects 2 Super Clamps 035 at right angles or 45° steps.

0.025kg

## DOUBLE FEMALE THREAD STUD **066**

Plugs into Super Clamp 035 to provide either a 3/8" or 1/4" female thread fixing.

0.025kg

## ROUNDED 16MM LIGHTING STUD M10 **264**

Rounded stud for stirrup's fixture for a rapid onnection to a Super Clamp.

0.072kg

## HEXAGONAL 16MM LIGHTING STUD M10 **174**

Hexagonal Lighting stud for stirrup's fixture for a rapid connection to a Super Clamp.

0.062kg

## STUD FOR STIRRUP **066BT**

16mm stud with female thread M10. It has been specifically designed to mount it on a stirrup's fixture and easily connect it to a Super Clamp. Designed to be tightly lock with a wrench.

0.048kg

## EXTENSION BAR **133B**

Used to fix 2 Super Clamps 035 at a distance of 15cm from each other. Length 16.5cm.

0.1kg

## LIGHTING STUD MR **036MR**

Plugs into Super Clamp 035 for lighting fixtures, Grip Heads or connect 2 Super Clamps 035 with 360° rotating capability.

0.048kg

**143A**

**244**

**244MINI**

**MSY058A**

**155**

**208**

**042**

**066BT**

**119**

**118**

**013**

**133B**

**036MR**

**036-14**

**036-38**

**061RA**

**061**

**037**

**066**

**237HD**

Art. 035
MAX LOAD = 15kg

**045-6**

**045**

**035** + 237HD + 143BKT

**035** + 237 + 196AC

**035** + 042

**035** X 2 + 061RA

**396B-3**

**196B-2**

**237**

077    076    032    432-2.7    432-3.7

**AUTOPOLE® SYSTEM**

SUPER CLAMPS ACCESSORIES **CLAMPS**
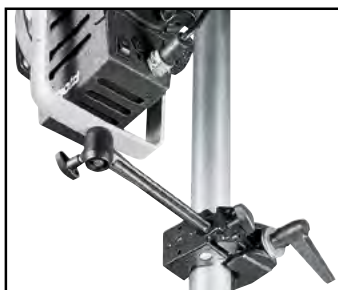
### SHORT SPIGOT ADAPTER 1/4"-3/8" **147**

Short spigot adapter 1/4" - 3/8".

0.05kg

### SHORT SPIGOT ADAPTER 3/8"-3/8" **125**

Short spigot adapter 3/8" - 3/8".

0.05kg

### MINI "U" HOOKS **176**

Set of two Mini "U" Hooks.

0.1kg

### "U" HOOKS **039**

Set of two cross bar holders. Width: 40mm

0.16kg

### "L" BRACKETS **041**

Set of two brackets to use in combination with Super Clamp 035 to support shelves, etc.17cm long x 4cm deep.

0.29kg

## EXTENSION ARM **042**

Plugs into Super Clamp 035 socket. Length: 19.5cm.

0.21kg    8kg    Type 1 + Spigot Art. 013    GC



## MINI EXTENSION ARM **203**

Fits into Mini Clamp 171 socket. Length: 12cm.

0.15kg    5kg    12.5mm hole



## SUPER CLAMP WEDGES **035WDG**

To allow the Super Clamp 035 to fit on plane surfaces. Set of four.

1.4kg
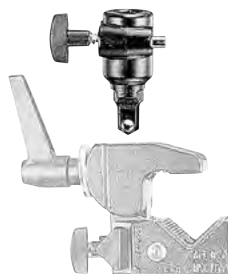


## ADDITIONAL SOCKET **335AS**

Provides an additional 16mm socket to Super Clamp 035.

0.14kg



## SAFETY CABLE **C155**

Diameter 4mm. Length 100cm.

## SAFETY CABLE **C155-01**　　Not illustrated

Diameter 3.5mm. Length 70cm.

## SAFETY CABLE **C155-02**　　Not illustrated

Diameter 5mm. Length 70cm.

The mechanical concept on which we based this new range of clamps allows an incredible speed in locking and unlocking the clamp's jaws. Fastening the clamp to a pipe or any other support is quick and simple allowing you to position your lighting equipment securely.



46mm
Ø 40mm
Ø 70mm
210mm
28mm
101mm
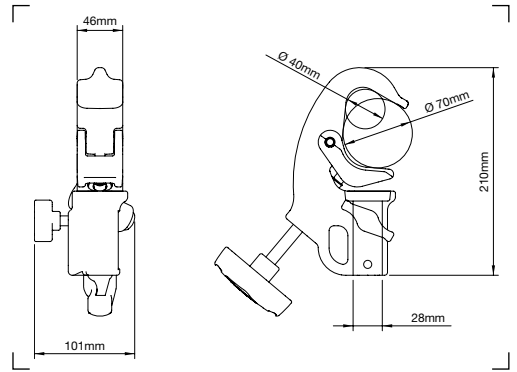
## 28MM BUSHING QUICK ACTION JUNIOR CLAMP **C337**

Made in gravity cast aluminium, this clamp is ideal to hang all types of luminaries in TV studios and theaters. Its incredible "coupling range" sets almost no limitations to its capability to clamp to almost all the industry standard pipe diameters. To meet all safety requirements, we have designed a dedicated slot for flexible steel safety cables. Supplied with T-top padded handle to improve grip. Pipe size 40-70mm.
PAT. PENDING.

1.27kg    100kg    28mm

TÜV GS



32mm
Ø 20mm
Ø 52mm
210mm
81mm
Type 33
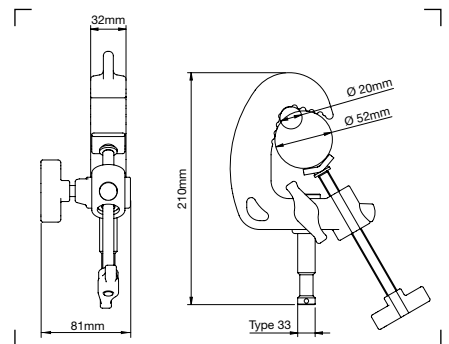
## 16MM PIN QUICK ACTION BABY CLAMP **C338**

Very slim and lightweight, this version has been designed for small luminaries, virtually unlimited in application.
To meet all safety requirements, we have designed a dedicated slot for flexible steel safety cables.
Pipe size 20-52mm. PAT. PENDING.

0.76kg    50kg    Type 33

A convenient method of suspending luminaires from above for unobstructed floor areas. Telescopic hangers are renowned for their strength and versatility.

Available with either a stirrup or universal head, all hangers come with a safety pin to prevent the riser from slipping.

## TELESCOPIC HANGER WITH UNIVERSAL HEAD **C825**

Max load with 16mm spigot 10kg. Max load with 28mm socket 40kg.

| 121cm | 201cm | 5.1kg | Type 34 |

## TELESCOPIC HANGER WITH STIRRUP **C820**

Luminaire attachment - Stirrup Ø 40mm.

| 117cm | 197cm | 5.4kg | 40kg |

## TELESCOPIC HANGER WITH UNIVERSAL HEAD **C888UH**

Max load with 16mm spigot 10kg. Max load with 28mm socket 40kg.

| 78cm | 161cm | 4.6kg | Type34 |

**C825** Safety Pin  **C820** Safety Pin  **C888UH**

## LONG TELESCOPIC HANGER WITH UNIVERSAL HEAD **C827**    Not illustrated

Max load with 16mm spigot 10kg. Max load with 28mm socket 40kg.

| 212cm | 381cm | 6.8kg | Type 34 |

## LONG TELESCOPIC HANGER WITH STIRRUP **C822**    Not illustrated

Luminaire attachment - Stirrup Ø 40mm.

| 210cm | 379cm | 6.8kg | 40kg |

## PUMP CUP WITH 16MM SOCKET **241S**

A suction cup with a fixed 16mm socket incorporating a safety pin for added security.
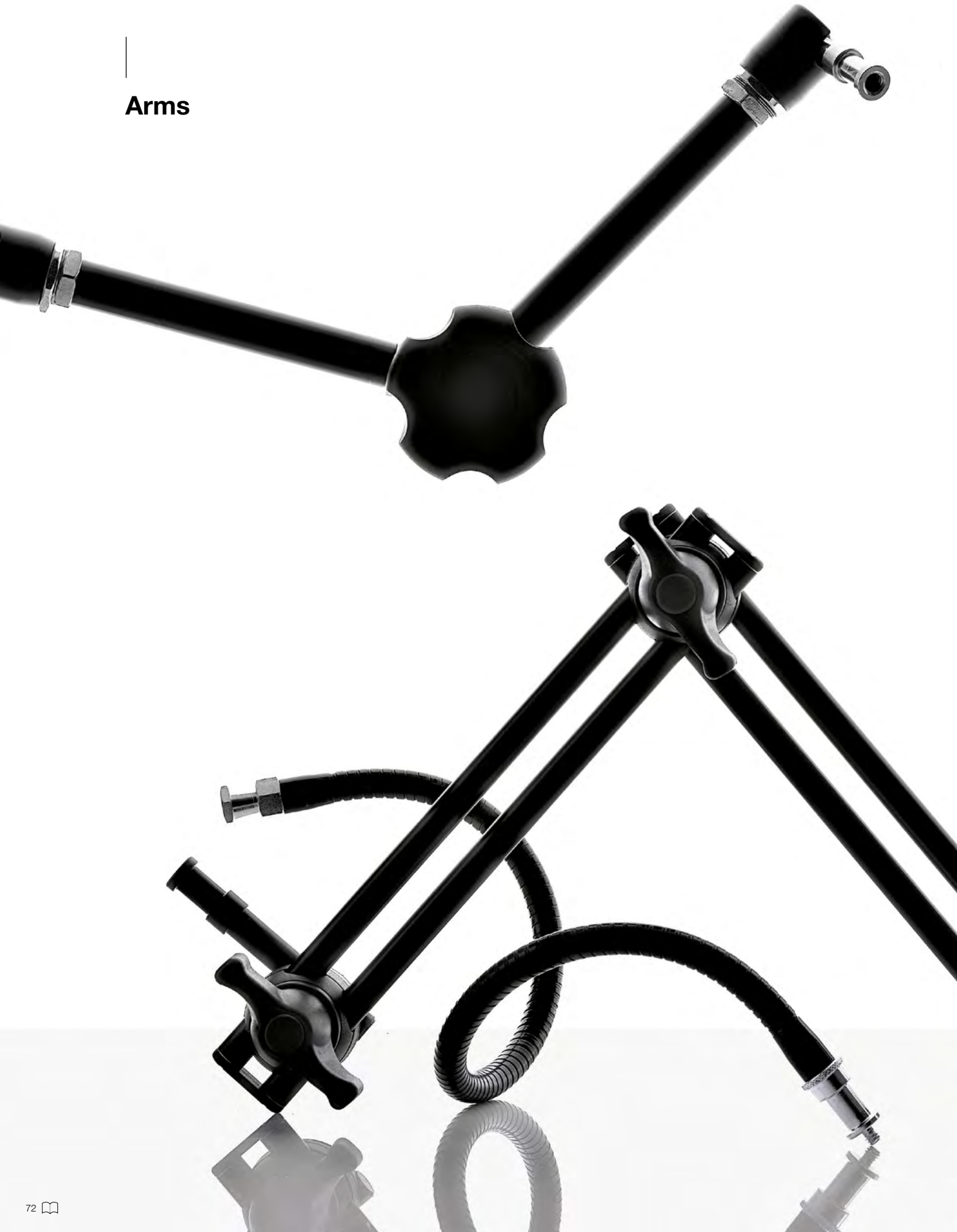
| 1.2kg | 2kg | 16mm |

## PUMP CUP WITH 16MM SWIVEL SOCKET **241**

Suction cup for small fixtures and lightweight equipment.
Ø: 150mm. 16mm bushing with safety pin.

| 1.2kg | 2kg | 16mm |

# Arms

Used in conjunction with stands or clamps, the range of Manfrotto arms, multi positioning arms and attachments enable accurate positioning of lighting and effects. The Magic Arm and the Variable Friction Arm are outstanding, using a single convenient and fast action locking lever or knob to lock or partially lock the two arms and the two swivel studs. Among the most remarkable products in this range are the double articulated arms, enabling quick positioning thanks to their quick lock knobs.

Wherever you need to position your camera, light or accessory, we have an arm to fit the task. Can be combined with clamps, mounting plates and connectors and used in conjunction with virtually any product in the Manfrotto range.

Wherever you need to position your camera, light or accessory, we have an arm, a bracket or a bar to fit the task. Can be combined with clamps, mounting plates and connectors and use in conjunction with virtually any product in the Manfrotto range.

| MODEL | | PRODUCTS | CODE | MAX LOAD AT FULL EXTENSIONS | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ≤ 0,5 kg | ≤ 1 kg | ≤ 1,5 kg | ≤ 3 Kg | ≤ 4,5 Kg | ≤ 5 Kg |
| **Flexble Arm** |  | Flex Arm | 237 | √ (≤0,3Kg) | | | | | |
| | | Heavy Duty Flex Arm | 237HD | √ | | | | | |
| **Mini & Micro Arm** |  | Mini Friciton Arm | 244MINI | | | | √ | | |
| | | Micro Friciton Arm | 244MICRO | | | | √ | | |
| | | Micro Friction Arm With Anti Rotation | 244MICRO-AR | | | | √ | | |
| | | Micro Friction Arm With Nano Clamp | 244MICROKIT | | | | √ | | |
| **Magic Arm** |  | Magic Arm | 143N | | | | √ | | |
| | | Magic Arm Kit | 143 | | | | √ | | |
| | | Magic Arm with Camera Bracket | 143A | | | | √ | | |
| | | Variable Friction Arm | 244N | | | | √ | | |
| | | Variable Friction Arm with Camera Bracket | 244 | | | | √ | | |
| **Single Articulated Arm** |  | Single Articulated Arm Top Attachment, 16mm spigot with 3/8" light attachement | 196AB-2 | | | √ | | | |
| | | Single Articulated Arm Top Attachment, 16mm spigot with 3/8" light attachement | 196AB-3 | | √ | | | | |
| | | Single Articulated Arm Top attachment, camera bracket with 16mm spigot and camera attachemen | 196B-2 | | | √ | | | |
| | | Single Articulated Arm Top attachment, camera bracket with 16mm spigot and camera attachement | 196B-3 | | √ | | | | |
| **Double Articulated Arm** |  | Double Articulated Arm Top Attachment, 16mm spigot with 3/8" light attachement | 396AB-2 | | | | | | √ |
| | | Double Articulated Arm Top Attachment, 16mm spigot with 3/8" light attachement | 396AB-3 | | | | | √ | |
| | | Double Articulated Arm Top attachment, camera bracket with 16mm spigot and camera attachement | 396B-2 | | | | | | √ |
| | | Double Articulated Arm Top attachment, camera bracket with 16mm spigot and camera attachement | 396B-3 | | | | | √ | |

| MAX LENGHT cm | ATTACHMENT 1 | ATTACHMENT 2 | ACCESSORIES |
|---|---|---|---|
| 55,0 | 3/8'' female thread with Exagon 16 mm | Spigot 5/8" (16 mm) with 1/4'' male | |
| 55,0 | 3/8'' female thread with Exagon 16 mm | Spigot 5/8" (16 mm) with 1/4'' male | |
| 24,0 | 1/4'' male thread | 1/4" male thread + 3/8" male thread | |
| 15,0 | 1/4'' male thread | 1/4" male thread + 3/8" male thread | |
| 15,0 | 3/8"' male thread Anti Rotation | 3/8" male thread Anti Anti Rotation + 3/8" attach | |
| 15,0 | 3/8"' male thread Anti Rotation | 1/4" male thread + Nano Clamp | |
| 53,0 | Spigot 5/8" (16 mm) with 1/4'' female thread | Spigot 5/8" (16 mm) with 3/8" female thread | |
| 53,0 | Spigot 5/8" (16 mm) with 1/4'' female thread | Spigot 5/8" (16 mm) with 3/8" female thread + camera Bracket 143BKT | 53 "Camera/Umbrella bracket 143BKT, Super Clamp 035, Backlite Base 003" |
| 53,0 | Spigot 5/8" (16 mm) with 1/4'' female thread | Spigot 5/8" (16 mm) with 3/8" female thread | Camera/Umbrella bracket 143BKT |
| 53,0 | Spigot 5/8" (16 mm) with 1/4'' female thread | Spigot 5/8" (16 mm) with 3/8'' female thread | |
| 53,0 | Spigot 5/8" (16 mm) with 1/4'' female thread | Spigot 5/8" (16 mm) with 3/8'' female thread | Camera/Umbrella bracket 143BKT |
| 60,5 | Spigot 5/8" (16 mm) with 1/4'' female thread | Spigot 5/8" (16 mm) with 3/8'' female thread | |
| 85,0 | Spigot 5/8" (16 mm) with 1/4'' female thread | Spigot 5/8" (16 mm) with 3/8'' female thread | |
| 60,5 | Spigot 5/8" (16 mm) with 1/4'' female thread | Spigot 5/8" (16 mm) with 3/8'' female thread | Camera/Umbrella bracket 143BKT |
| 85,0 | Spigot 5/8" (16 mm) with 1/4'' female thread | Spigot 5/8" (16 mm) with 3/8'' female thread | Camera/Umbrella bracket 143BKT |
| 62,5 | Spigot 5/8" (16 mm) with 3/8'' female thread | Spigot 5/8" (16 mm) with Exagon 16mm | |
| 86,0 | Spigot 5/8" (16 mm) with 3/8'' female thread | Spigot 5/8" (16 mm) with Exagon 16mm | |
| 62,5 | Spigot 5/8" (16 mm) with 3/8'' female thread | Spigot 5/8" (16 mm) with Exagon 16mm | Camera/Umbrella bracket 143BKT |
| 86,0 | Spigot 5/8" (16 mm) with 3/8'' female thread | Spigot 5/8" (16 mm) with Exagon 16mm | Camera/Umbrella bracket 143BKT |

## MAGIC ARM **143N**

Articulated arm, without accessories, with centre level to lock all 3 movements. Lenght: 53cm.

1.07kg

16mm with 1/4" female attachment

3kg

16mm with 3/8" female attachment



## MAGIC ARM WITH CAMERA BRACKET **143A**

Magic Arm with camera bracket only.

1.07kg

16mm with 1/4" female attachment

3kg

16mm with 3/8" female attachment + Camera Bracket Art. 143BKT



## MAGIC ARM KIT **143**

Articulated arm with centre lever to lock all 3 movements. Length: 53cm. Supplied with: Camera/Umbrella Bracket 143BKT, Super Clamp 035, Backlite Base 003.

2.55kg

16mm with 1/4" female attachment

3kg

16mm with 3/8" female attachment + Camera Bracket Art. 143BKT

## VARIABLE FRICTION ARM WITH CAMERA BRACKET **244**

Features as 143A, but a large locking knob takes the place of the cam-lever.
Variable friction and locking of arm obtained by adjusting knob.
Comes complete with Camera/Umbrella Bracket 143BKT only.

| | | | |
|---|---|---|---|
| 1.09kg | 16mm with 1/4" female attachment | 3kg | 16mm with 3/8" female attachment + Camera Bracket Art.143BKT |



## VARIABLE FRICTION ARM **244N**

Friction Arm with variable friction and locking of arm obtained by adjusting knob.

| | | | |
|---|---|---|---|
| 1.09kg | 16mm with 1/4" female attachment | 3kg | 16mm with 3/8" female attachment |



## CAMERA/UMBRELLA BRACKET **143BKT**

Camera bracket only.

## MINI FRICTON ARM **244MINI**

24cm friction arm with interchangeable 1/4" attachments and additional 3/8" adapter included.

3kg  0,44kg



## MICRO FRICTON ARM **244MICRO**

15cm friction arm with interchangeable 1/4" attachments and additional 3/8" adapter included.

3kg  0,22kg



## MICRO FRICTON ARM WITH ANTI ROTATION **244MICRO-AR**

15cm friction arm with interchangeable 3/8" Anti-rotation attachments and additional 3/8" adapter included. The Anti-rotation system is compatible with Manfrotto products: Digital Director and 386B-1 Nano Clamp.

3kg  0,24kg
6.6lb  0.53lb



## MICRO FRICTON ARM WITH NANO CLAMP **244MICROKIT**

15cm friction arm with interchangeable 3/8" Anti-rotation attachment and 1/4" attachment and Nano Clamp included. The Anti-rotation system is compatible with Manfrotto products: Digital Director and 386B-1 Nano Clamp.

3kg  0,31kg
6.6lb  0.69lb



## 5/8" ADAPTERS **244ADPT58**

Two 5/8" adapters accessories compatible with the following friction arms: 244Mini, 244Micro, 244Micro-AR, 244MicroKit.



## 3/8" ANTI-ROTATION ADAPTER **244ADPT38AR**

Anti-rotation adapter accessory compatible with the following friction arms: 244Mini, 244Micro, 244Micro-AR, 244MicroKit. The Anti-rotation system is compatible with Manfrotto products: Digital Director and 386B-1 Nano Clamp.



## 3/8" AND 1/4" ADAPTERS **244ADPT3814**

3/8" and 1/4" adapters accessories compatible with the following friction arms: 244Mini, 244Micro, 244Micro-AR, 244MicroKit.



## HOT-SHOE ADAPTER **244ADPT-HS**

Hot-shoe adapter accessory compatible with the following friction arms: 244Mini, 244Micro, 244Micro-AR, 244MicroKit.

## FLEX ARM **237**

Flexible arm, Ø 13mm, 55cm long with hexagon stud to fit Super Clamp 035 with 3/8" female thread and 16mm stud with 1/4" male thread type 18.

| | | | |
|---|---|---|---|
| 0.3kg | Type 18 | 0.3kg | 16mm |



## HEAVY DUTY FLEX ARM **237HD**

Same as 237, but Ø 18mm.

| | | | |
|---|---|---|---|
| 0.3kg | Type 18 | 0.5kg | 16mm |



## DADO **MSY0590A**

We are introducing Dado, a revolutionary junction that allows a number of attachments to be compatible with our entire range of Manfrotto Lighting clamps and stands. Dado is simple to use, and features an innovative design. Dado comes in two kits: one with 3 tubes, 3 threaded pins and 1 sphere and another one with 6 tubes, 6 threaded pins and 1 sphere.

- 18 threadings (3/8") on the main sphere
- 3 threaded pins (3/8")
- 3 threaded tubes with:
- 3/8" female and 5/8" male attachments
- Weight: 0.23kg



## DADO KIT **MSY0580A**

- 18 threadings (3/8") on the main sphere
- 6 threaded pins (3/8")
- 6 threaded tubes with:
- 3/8" female and 5/8" male attachments
- Weight: 0.37kg

Manfrotto broadens its family of articulated arms, providing end users with a versatile and robust range of products with excellent performance.
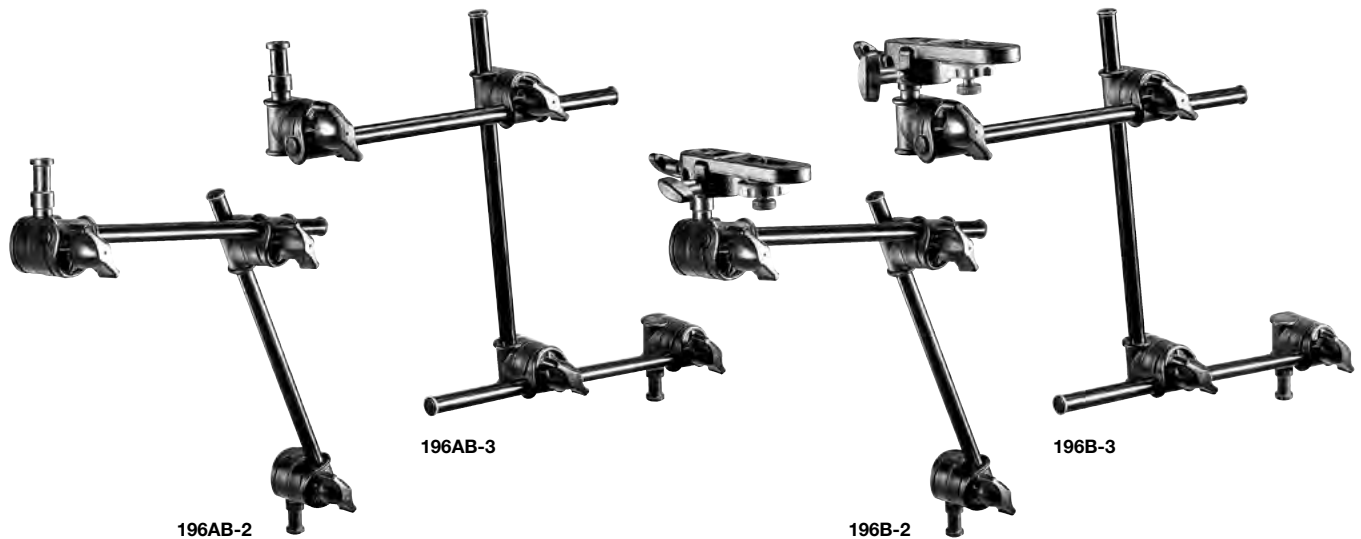
The new articulated arms have been designed to be compact and lightweight yet offer high loads capacity and optimum arm length in order to guarantee extreme ease of use, practicality and positioning flexibility with improved safety and reliability.

## SINGLE ARTICULATED ARMS: 2 & 3 SECTIONS

A more versatile version with telescopic features that make this product even more compact than before. Two available versions – at two and three sections- in order to ensure broad range of length, from 605 to 850mm.

| Code | Sections | Top attachment | Bottom attachment | Max length | Max load at full extension | Weight |
|------|----------|----------------|-------------------|------------|----------------------------|--------|
| **196AB-2** | 2 | 16mm spigot with 3/8" light attachment | 16mm spigot (compatible with Super Clamp) with 1/4" thread | 605mm | 1.5kg | 0.4kg |
| **196AB-3** | 3 | 16mm spigot with 3/8" light attachment | 16mm spigot (compatible with Super Clamp) with 1/4" thread | 850mm | 1kg | 0.5kg |
| **196B-2** | 2 | camera bracket with 16mm spigot and camera attachment | 16mm spigot (compatible with Super Clamp) with 1/4" thread | 605mm | 1.5kg | 0.53kg |
| **196B-3** | 3 | camera bracket with 16mm spigot and camera attachment | 16mm spigot (compatible with Super Clamp) with 1/4" thread | 850mm | 1kg | 0.63kg |

**196AB-3**

**196AB-2**

**196B-3**

**196B-2**

Just turn knob to click-stop and arm position is immediately locked.

Double-anchored spigot with hexagonal (for Super Camp attachment) & universal (for maximum compatibility) sections. Gives extra strength and anti-rotation rigidity.

Sliding extensions allow for flexible positioning. Easy to use, even in reduced spaces.

## DOUBLE ARTICULATED ARMS: 2 & 3 SECTIONS

Excellent performance: robustness, lightness and versatility... these are the features of the new double articulated arm range.

The 396 family has been developed to provide greater robustness than the 196 range and to support heavier loads (up to 5kg), though keeping versatility thanks to its extendable sliding arm system (extends up to 860mm), further enhanced by its quick lock system.

The new bottom attachment adds to the strength and versatility of the 396, with a spigot that combines both a hexagonal part (for anti-rotation fixing to the Super Clamp system) and a universal adapter section (for fitting to a wide range of stands, clamps and accessories).

| Code | Sections | Top attachment | Bottom attachment | Max length | Max load at full extensions | Weight |
|---|---|---|---|---|---|---|
| **396AB-2** | 2 | 16mm spigot with 3/8" light attachment | Double-anchored 16mm hexagonal/universal spigot | 625mm | 5kg | 0.5kg |
| **396AB-3** | 3 | 16mm spigot with 3/8" light attachment | Double-anchored 16mm hexagonal/universal spigot | 860mm | 4.5kg | 0.79kg |
| **396B-2** | 2 | camera bracket with 16mm spigot and camera attachment | Double-anchored 16mm hexagonal/universal spigot | 625mm | 5kg | 0.64kg |
| **396B-3** | 3 | camera bracket with 16mm spigot and camera attachment | Double-anchored 16mm hexagonal/universal spigot | 860mm | 4.5kg | 0.9kg |

**396AB-3**

**396AB-2**

**396B-2**

**396B-3**

**Tilt Heads**

The Manfrotto Tilt-Heads are a versatile aluminum bracket that will fit on almost any light stand. The perfect tools to tilt and swivel flash heads, LED lights, and cameras.

Made of aluminum and manufactured according to the highest quality standard, Manfrotto tilt heads are extremely reliable and safely hold any photographic equipment.
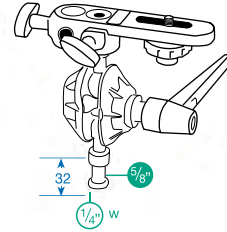
## TILT-TOP HEAD **155**

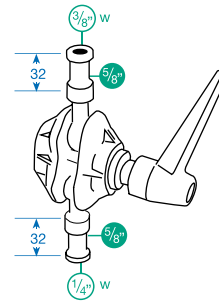Twin swivelling 16mm spigots and single lever lock. Supplied with: Camera/Umbrella Bracket 143BKT.
Height: 14.5cm.



0.5kg          16mm          16mm + Camera Bracket Art. 143BKT





## TILT-TOP HEAD **155BKL**

Tilt-top head alone, available separately without Camera/Umbrella Bracket.



0.4kg          16mm          16mm

## SNAP TILT HEAD **MLH1HS**

Flashguns never drop along the stand, thanks to a spring system. Quick to set-up, thanks to the locking ring and safety lever. Hole for umbrella.

0.5kg    16mm    16mm + Camera Bracket Art. 143BKT
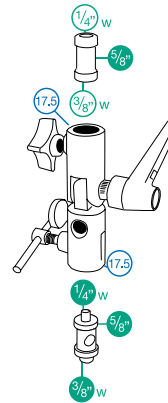
## SWIVELLING ADAPTER **026**

Baby female multi-adapter, free to rotate.

17.5mm    17.5mm

**Still Life**

Indispensable for all professional still life photographers, Manfrotto Still Life tables are made with lightweight aluminium tubing, dedicated clamps and translucent white Perspex covers for back- or front-lighting of your subject. Their design allows continuous adjustment of the curved backdrop at different angles, making them ideal for product photography. Full modularity makes the table easy to assemble and disassemble. The Manfrotto Still Life line is complete with the well-known Multiclamp system. This extremely flexible and modular system allows you to design and create all sorts of supports that can be easily set up, dismantled and reused for completely different applications. Several accessories will allow you to deal with specific problems.
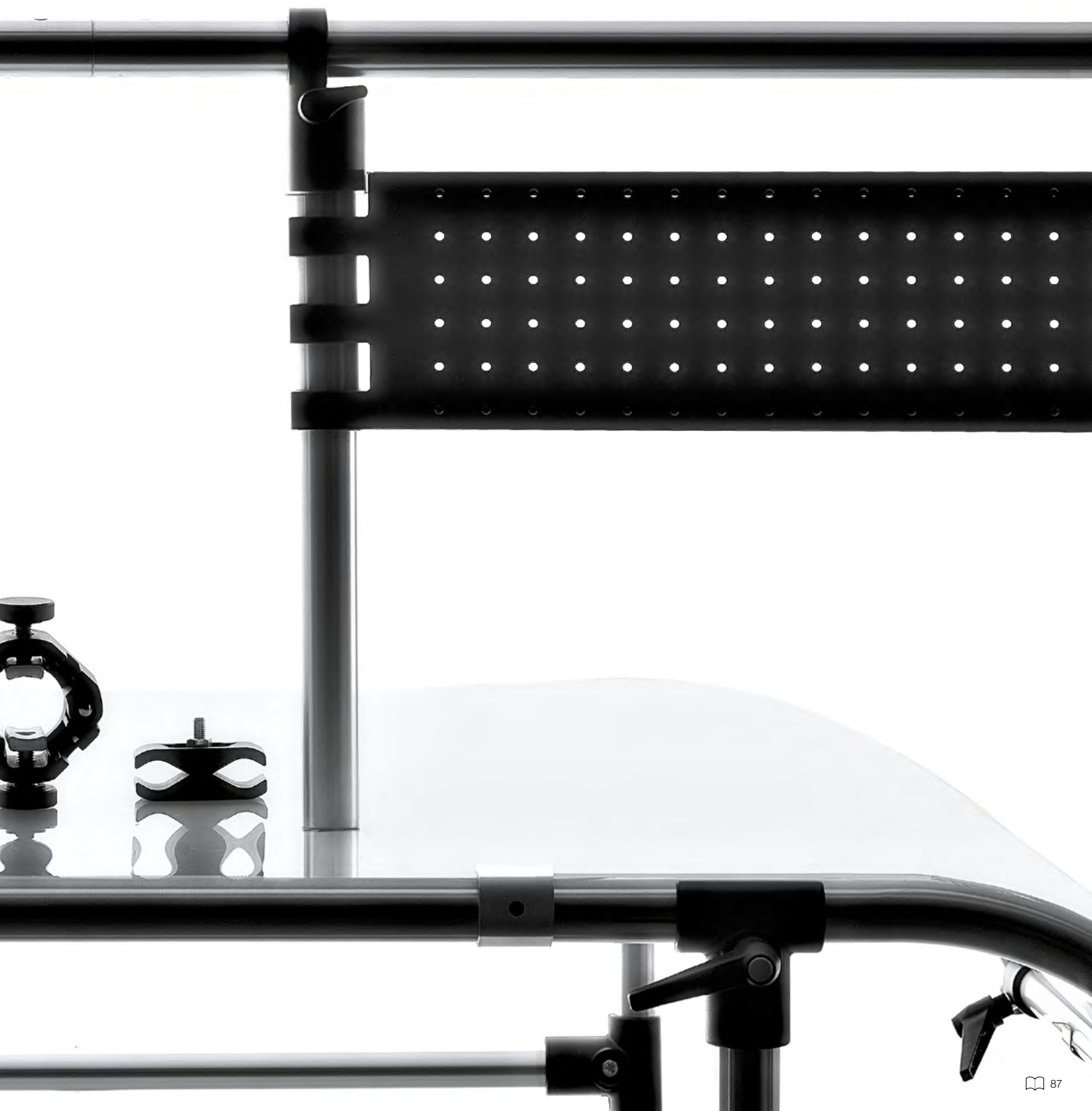
Multi-purpose shooting tables.

Model 220 is fully compatible with the Multiclamp range giving you the possibility to modify and adapt its features to your needs.

Easily assembled/disassembled aluminium structure.

## STILL LIFE TABLE **220** Ⓑ

Still Life Table with white, translucent perspex cover for back or front lighting.
Size of panel: 200x122cm.
Distance from floor to flat surface: 83cm.
Height with back on vertical position: 193cm.
Adjustable tilting back.

18.6kg          15kg

## STILL LIFE TABLE
## WITHOUT COVER **220PSL** Ⓑ          Not illustrated

Same as 220, without perspex cover.

## PERSPEX COVER
## FOR STILL LIFE TABLE **220PX**          Not illustrated

White, translucent perspex cover for back or front lighting.
Size of panel: 200x122cm.

Quick-change spring clips hold the table cover to the frame.

Adjustable tilting back.

Easy tool-free assembly.

## MINI STILL LIFE TABLE **320** Ⓑ

Smaller version of Still Life Table model 220. Size of panel: 150x78cm.
Distance from floor to flat surface: 70cm.
Height with back in vertical position: 157cm.
Adjustable tilting back and adjustable front legs.

10kg          10kg

### MINI STILL LIFE TABLE
### WITHOUT COVER **320PSL** Ⓑ          Not illustrated

Same as 320, without perspex cover.

### PERSPEX COVER
### FOR MINI STILL LIFE TABLE **320PX**          Not illustrated

White, translucent perspex cover for back or front lighting.
Size of panel: 150x78cm.


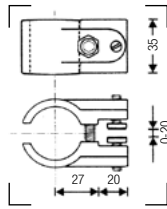
Adjustable tilting back.



Easy tool-free assembly.
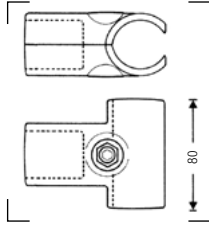
## "T" CLAMP **MT004**

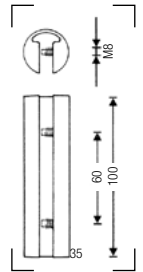Used like MT001, when a stronger connection is required.
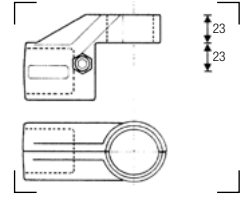


## RIGHT ANGLE CLAMP **MT005**

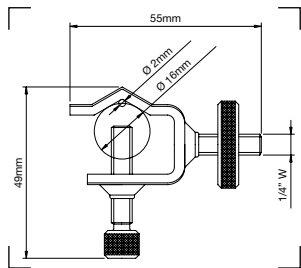Used to connect a third or fourth crossing tube on the same axis.



## PANEL CLAMP **MT013**

Used to clamp large panels.



## TUBE CONNECTOR **MT020**
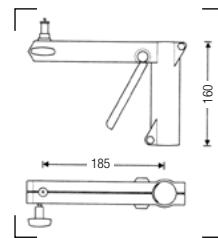
Used to connect two tubes end to end.

## MICRO CLAMP **196AC**

Grips items from 2mm to 16mm thick.

0.06kg

## SLIDING SUPPORT ARM **231ARM**

Quick release arm, used to mount standard 16mm light fixtures, attachments 16mm female and Spigot 013 (16mm male and 1/4" - 3/8" screws).
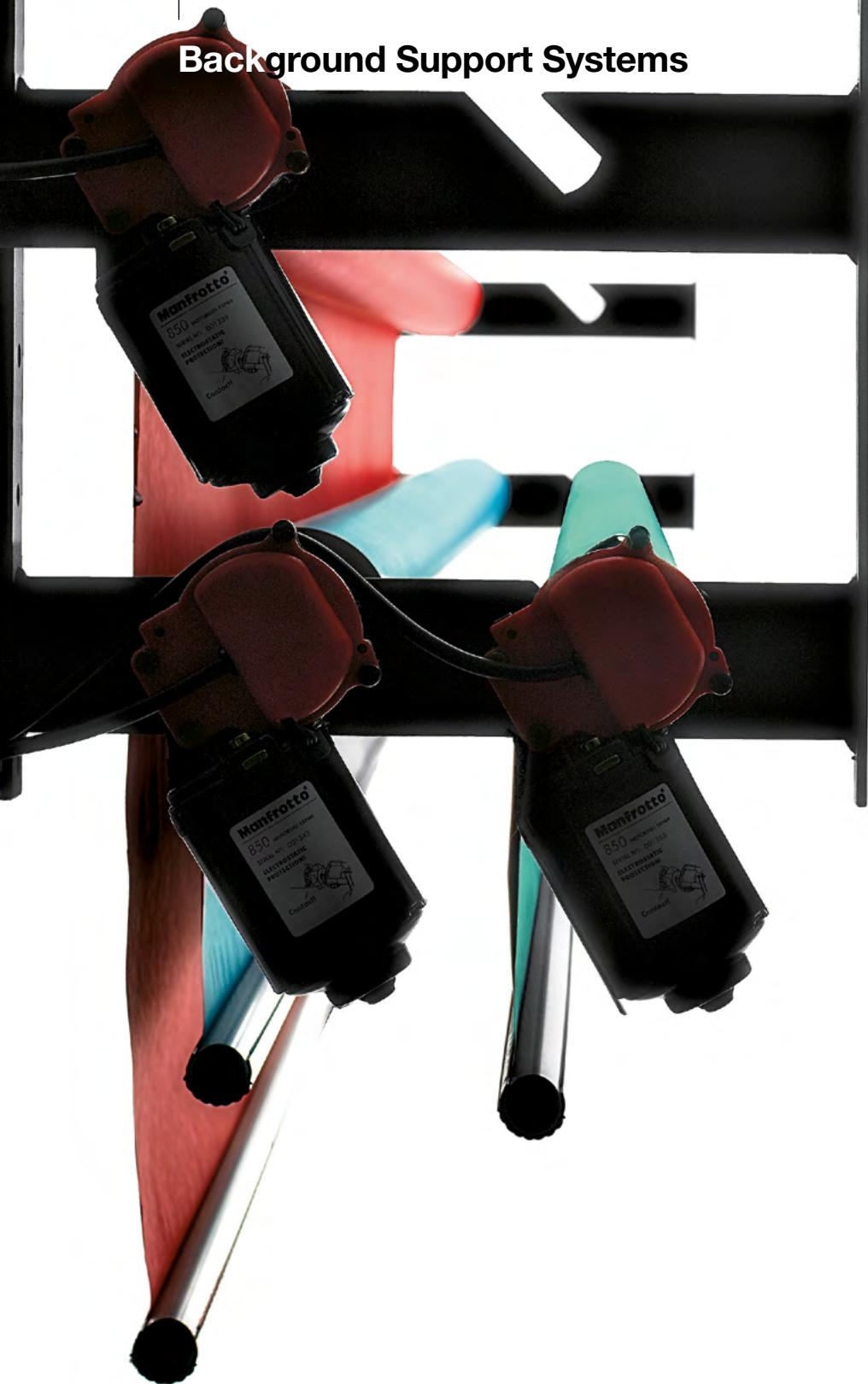
## WHEEL SET **104**

Wheel set Ø: 75mm with brakes and M10 attachment. Set of three.

## WHEEL SET **104G**

Ø: 100mm without brakes, with M10 attachment. Set of three.

# Background Support Systems

Our extremely modular background support system is reliable, simple to use and flexible enough to match most of your support needs for paper, drapable, hand-painted or canvas backgrounds, in the studio or on location. For core mounted backgrounds the system used is based on the Expan chain operated drive developed by Manfrotto.

The Expan can be mounted on dedicated hooks which vary in shape and design depending on the number of backgrounds to be used.

If, as usually happens with canvas backgrounds, there is no central core around which to wrap the background material, Manfrotto provides a three section telescopic pole that can be attached on top of a set of two stands, making it ideal for location assignments.

The Manfrotto background support system is based on the Expan, a fast and efficient background drive set.

Insert the EXPAN into the background roll, block and use the chain to roll the paper up and down as you wish.

A system of hooks is available in pairs and can support 1, 3 or 6 backgrounds when used in conjunction with the Expan.

B/P Hooks can be attached to Autopole by using the Super Clamp 035 or screwed directly onto a wall or ceiling.
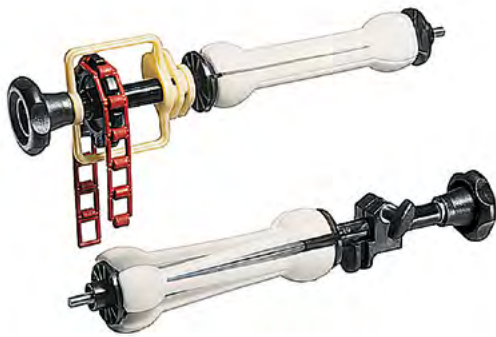


## EXPAN WITH METAL CHAIN **046MC**

Background paper drive set for one roll. Including metal chain.
Expands from: Ø 46mm to 78mm.

1.2kg    10kg



## EXPAN ATTACHMENT **081**

Another quick solution to hang your expan up to a baby stand.

0.204kg    Type 1



## B/P SINGLE HOOKS **059WM**

Wall fixing background paper holder set for one Expan 046.
Complete with screw set.

0.54kg



## B/P SINGLE HOOKS **059**

Set of two wall fixing background paper holders for one Expan 046.
Plugs into Super Clamp 035 socket.

0.42kg

## B/P CLAMPS **044**

Same as 045 but ready for use on Autopoles®, including two Super Clamp 035.

2.85kg



## B/P TRIPLE HOOKS **045**

Set of two background paper holders for three Expan 046.
Can be fixed to a wall with supplied studs and screws, or to Super Clamp 035 by means of supplied screw set.

2.05kg



## B/P HOOKS **045-6**

Set of two brackets for six Expan 046 sets.
To be fixed to a wall with supplied screws.
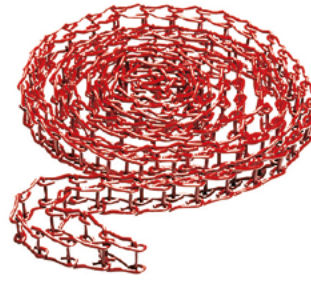
4.4kg

## CHAIN WEIGHT 094

Provides weight to keep Expan chain tight.

0.3kg

## EXPAN RED METALLIC CHAIN 091MCR

Red Metal chain for Expan system, total length 3,5m

0,6kg

## B/P COUNTERWEIGHT 062-2

Counterweight for background paper in 2 sections.
Length: 275cm.

0.85kg

## ALU-CORE 047-2

Aluminium core in 2 sections Ø: 50mm for uncored back round paper.
Has adhesive tape for sticking on paper. Length: 275cm.

1.28kg

## ALU-CORE 047-3                    Not illustrated

Same as 047-2 but longer. Lenght: 366cm.

1.28kg

## SET STANDS KIT **1314B**

Designed to support rolls or sheets of background paper or any other ground material.
The kit comprises of:
1 x 3 Section Telescopic Pole Art. 272B,
2 x Baby Stand,
2 x Mini Spring Clamp Art. 275 and Transport Kit Bag.
* distributed on background roll

4.2kg    10kg*

## TELESCOPIC POLE **272B**          Not illustrated

3 section telescopic background pole on it's own.
Minimum extension: 112cm.
Maximum extension: 298cm.
Weight: 0.85kg.
Attachment: type 25.

# Sky Track System

Ideal for all photo and video studios where the floor needs to be kept totally clear of power cables and lighting stands, the Sky Track System permits rapid manoeuvre and setting of suspended large lights or lights with awkwardly sized accessories like soft boxes.

It solves positioning problems even on complex sets or in studios of the most unusual dimensions, and offers considerable advantages and ease of use compared to traditional floor stands.

Manfrotto Sky Track System has a broad range of accessories to adapt your space to the ideal studio and to provide perfect compatibility with all types of lights, whether photographic, video or film.

The Sky Track System is a comprehensive range of lighting suspension for all situations from small studios to the largest ones. Manfrotto line includes the versatile ceiling mounted, rails, manual and motorised pantographs and a wide range of brackets and support.

## BLACK ANODISED 3M RAIL **FF6003B**

These rails are made in section of black anodised aluminium in standard lengths as listed. For fixed rails, longer sizes are obtainable by fitting two or more rails together. Sliding rails cannot be joined. To connect two fixed rails use code FF3208. You must always support the junction of two rails with a ceiling attachment placed on the junction itself. Moving rails longer than 3m must be supported with more than two fixed rails. The maximum distance (B) between any of these fixed rails is 2m (see drawing).
ANCHORAGE POINT
The spacing of the rail support brackets depends on the load anticipated on the rail itself, but should generally be in accordance with the table below, "A" indicates the distance between two anchorage points. However we advise that fixing brackets should not be spaced more than 2m apart.

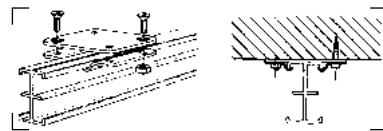## BLACK ANODISED 4M RAIL **FF6004B**          Not illustrated

## BLACK ANODISED 5M RAIL **FF6005B** Not illustrated

RAIL SECTION

61mm

34.5mm
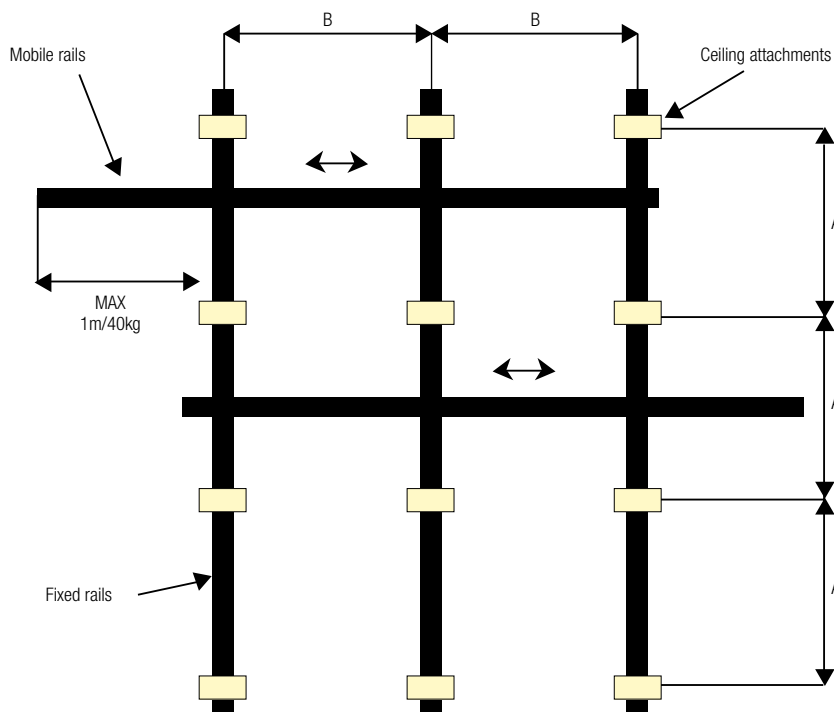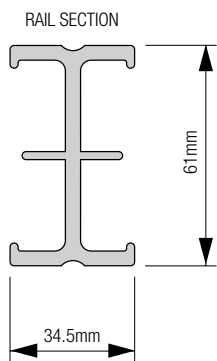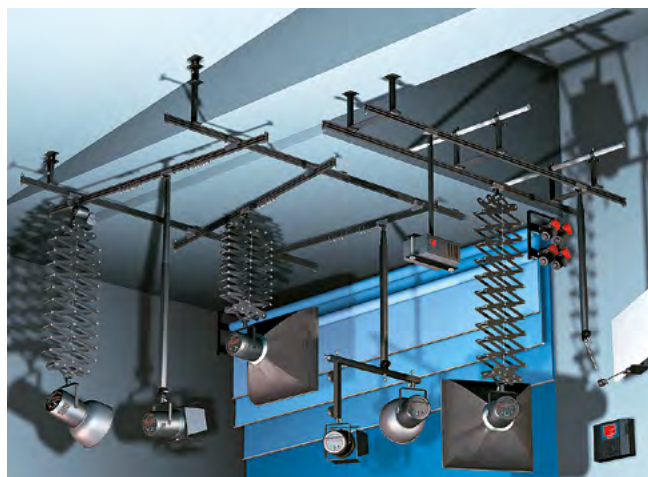
**Rail working Max load chart**

| A (mm) | Weight (kg) |
|--------|-------------|
| 1000   | 200         |
| 1500   | 100         |
| 2000   | 50          |

Mobile rails

B

B

Ceiling attachments

MAX
1m/40kg

A

A

A

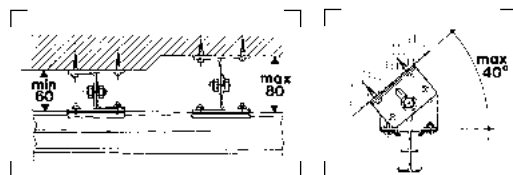Fixed rails

## BRACKET FOR CEILING ATTACHMENT **FF3210**

Bracket for ceiling attachment of the rail.
It is advisable to pre-assemble these brackets ontthe rails at ground level to ensure correct alignment before screwing to a ceiling.
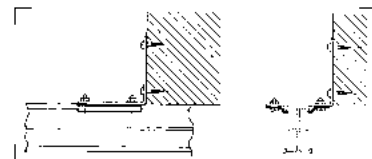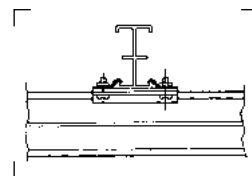


## ANGLE BRACKET ("L"-SHAPED) FOR FIXING TO BEAMS **FF3212**

Bracket for wall attachment of the rail.



## ADJUSTABLE BRACKET FOR IRREGULAR CEILINGS **FF3215**

Allows height differences in ceilings of maximum 2cm; combining two brackets you can compensate for differences of maximum 4cm.



## DOUBLE BRACKET FOR RAIL CROSSINGS **FF3211**

This is used to permanently attach two rails at a right angle or parallel.

## CEILING BRACKET WITH 50CM EXTENSION **FF3218**

Used alone or in combinated these brakets allow the attachment of the rails at the desidered height.

## CEILING BRACKET WITH
## 100CM EXTENSION **FF3220**                    Not illustrated

## EXTENSION BRACKET FOR VARIOUS HEIGHTS **FF3215A**

Its length is adjustable from 10cm to 15.5cm. Using the clamp screw, you can obtain all intermediate sizes. Provided with a security lock, in case the regulating screw loosens, blocks the bracket at maximum extension. It's used to compensate for height differences in ceilings of 5.5cm or more, with combinations of other brackets. It's also used for obtaining intermediate sizes in combination with the extendable ceiling brackets.
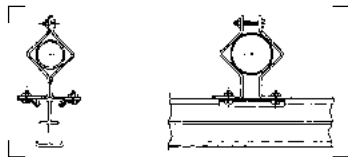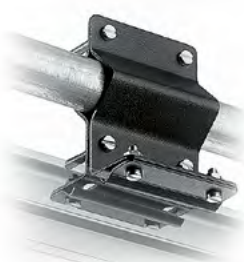
## BRACKET FOR TUBE ATTACHMENT **FF3214**

This can be fastened to tubes with diameters from 35mm to 50mm inclusive. It's used to directly support the rail that can be fixed in place either longitudinally or transversely. This bracket can be used as a brace for fixed supports, as well.
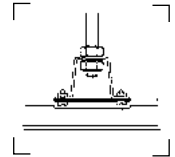
## BRACKET FOR CEILING ATTACHMENT **FF3214A**

Can be attached directly by screws or rods with a maximum diameter of 1/2". Before mounting the bracket it is advisable to standardize the length of both the rods and screws. Fix the bracket between a nut allowing the screw on the inside of the bracket to protrude about 1.5cm. When fixture is completed, it is then possible to regulate a perfect rail levelness by adjusting the nuts which fasten the brackets.
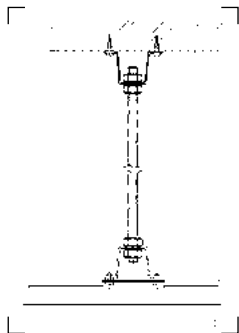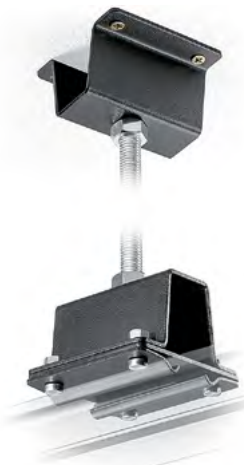
## RAIL MOUNTING KIT WITH M12 STUD **FF3214B**

Comprised of a bracket to be attached to the ceiling with 4 screws, a 1m long M12 rod completely threaded, 4 M12 nuts, and a bracket for the rail fixture. The rod can be cut to the desidered size and then attached to the bracket by way of the nuts supplied. The rod must protrude approx 1cm on the inside of the bracket. When fixture is completed, it is then possible to regulate a perfect rail levelness by adjusting the nuts which fasten the brackets.
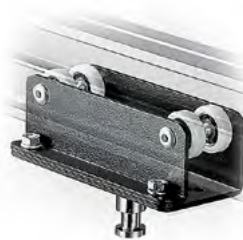
## DISMOUNTABLE SLIDING CARRIAGE
## WITH 4 WHEELS AND 16MM SPIGOT **FF3228**

This carriage can be inserted directly at any point on the rail by unscrewing the wheel plate. This is used when it becomes necessary to add a supplementary carriage to an already assembled RAIL SYSTEM installation. It is free-sliding and is suitable for normal loads.
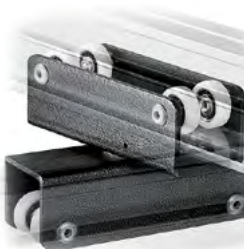
## SLIDING CARRIAGE WITH
## 4 WHEELS AND 16MM SPIGOT **FF3230**

It is free-sliding carriage.
It is suitable for normal weight loads up to 60kg.



## SLIDING CARRIAGE WITH 4 WHEELS,
## BRAKE AND 16MM SPIGOT **FF3229**

This is provided with a brake which keeps it locked in the position where it is placed.
It is suitable for normal loads up to 60kg.
To release brake pull down on wire with operating pole.



## DOUBLE SLIDING CARRIAGE  **FF3232**

Both the upper carriage and the lower one are free-sliding.



## DOUBLE SLIDING CARRIAGE
## WITH DOUBLE BRAKE **FF3235**

This is equipped with brakes on both upper and lower carriages.
The upper brake blocks the carriage on the fixed rail,
while the lower carriage's brake blocks the sliding of the moving rail.



## DOUBLE SLIDING CARRIAGE WITH ONE BRAKE **FF3236**

This is provided with a brake on only one carriage. Normally, the carriage with brake is mounted on the fixed rail so that it is locked into place enabling the mobile rail to slide. If the carriage with brake is mounted onto the mobile rail, you obtain the opposite effect, that is, the sliding of the mobile rail gets blocked, while the carriage can freely slide on the fixed rail.



## FIXED BRACKET ON RAIL WITH 16MM SPIGOT **FF3856**

The 16mm spigot allow the mounting of lights or accessories with 16mm female attachment.

## KIT OF 4 END STOPS WITH 4 CABLE CARRIAGES **FF3207**

These fit to the holes on the ends of a rail to prevent carriages leaving the rail and to prevent moving rails leaving their carriages.
IMPORTANT: must be fitted to upper and lower holes on moving rails but only to lower holes on fixed rails.



## ALIGNING CONNECTORS FOR FIXED RAILS **FF3208**

A pair of clamp plates with screws to join two fixed rails together by clamping across the junction on the upper guide, using holes provided in the rail.
IMPORTANT: the junction must always be supported by a rail-mounting bracket placed astride



## KIT OF 5 CABLE CARRIAGES WITH BEARING **FF3226C**

These are from the end of the rail and run on ball-bearings. They are suitable for heavy cables.



## KIT OF 5 CABLE CARRIAGES **FF3226**

These are inserted from the end of the rail. They do not need wheels as they they slide along the rail and are suitable for normal cables.



## OPERATING POLE **427B-4.0**

4 sections, 3 risers. Ø: 28, 24, 20, 16mm.
Minimum extension: 160cm. Maximum extension: 400cm.
Closed length: 142cm.

## OPERATING POLE **427B-6.5**                    Not illustrated

4 sections, 3 risers. Ø: 28, 24, 20, 16mm.
Minimum extension: 220cm. Maximum extension: 650cm.
Closed length: 200cm.



## SPIGOT ADAPTER **013**

Both sides have 16mm spigot. Used to connect two units with 16mm female attachment or to obtain 16mm spigot from a 16mm female attachment.



## 16MM FEMALE ADAPTER **158**

Both sides have a 16mm attachment. Used to connect two units with 16mm spigot, or to obtain a 16mm female attachment from 16mm spigot.
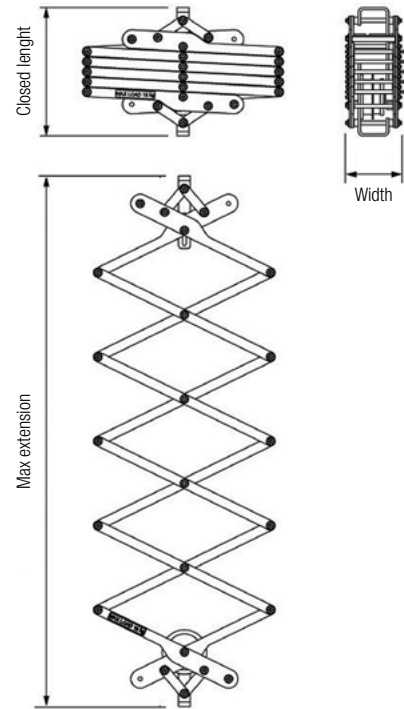


## POLE OPERATED TELESCOPIC BAR **362**

Designed to support heavy light fittings, and provide pole operated pan plus tilt.
Closed length: 35.5cm.
Maximum height: 49cm.
Male attachment Ø 28mm and 16mm.



## POWER SUPPLY CABLE **FF3278**

15m of three-core cable (3 x 1.5 Sqmm) with special sockets for lighting fixture.

Closed lenght

Width

Max extension

## PANTOGRAPH TOP 4C **FF3514N86**

The pantograph is made of aluminium (P-Al MgSi UNI 3569) and manufactured according to DIN 15560-46. The attachments at both ends of the pantograph are 16mm, male on the bottom and female on the top. The load is supported by a steel cable of 2mm. diameter (safety factor 12). Loads up to 12kg can be suspended using only the patented friction device, while loads up to a maximum of 18kg require the use of the optional springs. The pantograph can be regulated to keep suspended loads from 1 to 18kg perfectly balanced. By turning the coulored notched ring you can adjust the pantograph's friction; this will ensure that the load remains stable when set in position, but that it will move smoothly up and down when necessary. In any case, it is always advisable to use the springs to aid raising your pantograph. When choosing the additional spring(s) for your pantograph, you will first need to know exactly which model of pantograph you have, in order that you can select the spring of the correct length. If you have one of the new compact pantographs (with grey-painted "scissors"), look at the colour of notched ring the 2m version has a red notched ring, while the 3.8m version has a blue notched ring. After having identified the length of the pantograph, choose the appropriate spring(s) by refering to the table below.

| Model | FF3514N86 |
|---|---|
| Lifting rope | 2mm wire rope |
| Safety factor rope | 12 |
| Self weight | 7.3kg |
| Max working load | 18kg |
| Closed length | 38cm |
| Max extension | 380cm |
| Width | 15cm |

| Model | FF3512N86 |
|---|---|
| Lifting rope | 2mm wire rope |
| Safety factor rope | 12 |
| Self weight | 4.7kg |
| Max working load | 18kg |
| Closed length | 27cm |
| Max extension | 200cm |
| Width | 15cm |

## PANTOGRAPH TOP 2C **FF3512N86**

Same as FF3514N86 but shorter.

### SPRING TYPE 4 RED **FF3531**

Additional Spring for pantograph top 2C.

### SPRING TYPE 4 BLUE **FF3533**

Additional Spring for pantograph top 4C.

### SPRING TYPE 12 RED **FF3532**     Not illustrated

Additional Spring for pantograph top 2C.

### SPRING TYPE 12 BLUE **FF3534**     Not illustrated

Additional Spring for pantograph top 4C.

| Spring type | Counterbalanced weight |
|---|---|
| Without spring | From 0kg to 4kg |
| Type 4 | From 3kg to 8kg |
| Type 4 + Type 4 | From 8kg to 14kg |
| Type12 | From 9kg to 16kg |
| Type 4 + Type 12 | From 13kg to 18kg |

## TELESCOPIC POST EXTENDIBLE FROM 85CM TO 203CM **FF3248**

A telescopic system for the balanced suspension of loads. Adjustable in height with automatic positioning at the desired position. A female attachment with safety plug and locking lever is fitted at each end. The safety plug has a latch with push-button releaselatch with push-button release. To adjust the balance of the load, rotate the handle clockwise or counterclockwise.It sustains loads from 1.5kg up to 12kg max.

## SMALL TELESCOPIC POST EXTENDIBLE FROM 60CM TO 128CM **FF3249**          Not illustrated

Same as FF3248, extendable from 60cm to 128cm.

## EXTENSION TUBE 50CM LONG **FF3240**

These are fixed extenders which have a female 16mm attachment at each end. You fix them directly on the spigot of single carriages or to the fixed support FF3222.

## EXTENSION TUBE 100CM LONG **FF3242**          Not illustrated

Same as FF3240, 100cm long.

## SAFETY STEEL CABLE **FF3276**

Complete with spring catch and hook-up slot.
Recommended for TELESCOPIC POST and TOP PANTOGRAPH in order to avoid accidental falling of equipment.
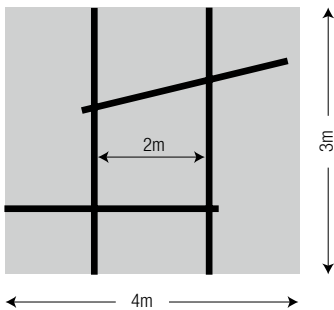Ø 2mm - Length 350mm.

## TOP SYSTEM 33 **FF3033**

Complete kit for small studios composed of 2 fixed rails 3m long, 2 mobilerails 3m long and supports for 3 light sources (1 Top Pantograph and 2 Telescopic Post).
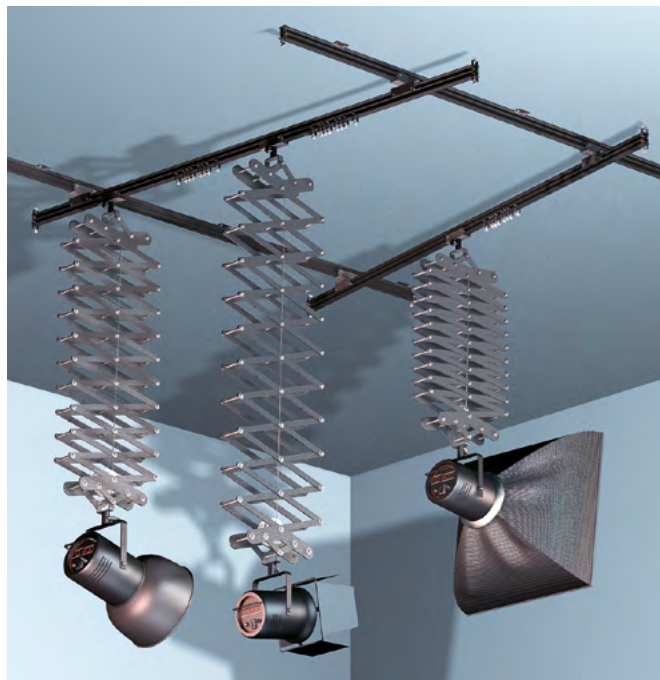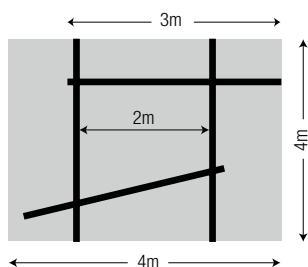
The kit is composed of:

4   Rails 3m long- FF6003B.
3   Kits of 4 endstops - FF3207.
6   Brackets for ceiling fixture - FF3210.
3   Kits of 5 cable carriages - FF3226.
3   4-wheeled sliding carriages with 16mm spigot - FF3230.
2   Double sliding carriages - FF3232.
2   Double sliding carriages with single brake - FF3236.
2   Telescopic Post extendable from 85cm to 203cm - FF3248.
1   Top Pantograph extendable from 40cm to 200cm - FF3512N86.
2   Universal spigot adapters 16mm - 013.
3   Safety steel cable - FF3276.

## TOP SYSTEM 43 **FF3043**

Complete kit for medium-sized studios composed of 2 fixed rails 4m long, 2 mobile rails 3m long and supports for 3 light sources (3 Top Pantographs).
The kit is composed of:
2   Rails 3m long - FF6003B.
2   Rails 4m long - FF6004B.
3   Kits of 4 endstops - FF3207.
6   Brackets for ceiling fixture - FF3210.
3   Kits of 5 cable carriages - FF3226.
3   4-wheeled sliding carriages with 16mm spigot - FF3230.
2   Double sliding carriages - FF3232.
2   Double sliding carriages with single brake - FF3236.
3   Top Pantograph extendable from 40cm to 200cm - FF3512N86.
3   Safety steel cable - FF3276.





## TOP SYSTEM 54 **FF3054**

Complete kit for large studios composed of 2 fixed rails 5m long, 3 mobile rails 3m long and supports for 5 light sources (4 Top Pantographs).
The kit is composed of:
2   Rails 5m long - FF6005B.
3   Rails 3m long - FF6003B.
4   Kits of 4 endstops - FF3207.
8   Brackets for ceiling fixture - FF3210.
4   Kits of 5 cable carriages - FF3226.
4   4-wheeled sliding carriages with 16mm spigot - FF3230.
3   Double sliding carriages - FF3232.
3   Double sliding carriages with single brake - FF3236.
4   Top Pantograph extendable from 40cm to 200cm - FF3512N86.
4   Safety steel cable - FF3276.